



Mathematical Reviews

Annual Index — 1991

Subject Index 60 — 94

TABLE OF CONTENTS

| | |
|-----------------------------------|----------|
| Subject Index 60-94..... | 971-1780 |
| 1991 Subject Classification | S1-S36 |

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1991 Mathematics Subject Classification

- | | |
|---|--|
| 00 General | 45 Integral equations |
| 01 History and biography | 46 Functional analysis |
| 03 Mathematical logic and foundations | 47 Operator theory |
| 04 Set theory | 49 Calculus of variations and optimal control; optimization |
| 05 Combinatorics | 51 Geometry |
| 06 Order, lattices, ordered algebraic structures | 52 Convex and discrete geometry |
| 08 General algebraic systems | 53 Differential geometry |
| 11 Number theory | 54 General topology |
| 12 Field theory and polynomials | 55 Algebraic topology |
| 13 Commutative rings and algebras | 57 Manifolds and cell complexes |
| 14 Algebraic geometry | 58 Global analysis, analysis on manifolds |
| 15 Linear and multilinear algebra; matrix theory | 60 Probability theory and stochastic processes |
| 16 Associative rings and algebras | 62 Statistics |
| 17 Nonassociative rings and algebras | 65 Numerical analysis |
| 18 Category theory, homological algebra | 68 Computer science |
| 19 K -theory | 70 Mechanics of particles and systems |
| 20 Group theory and generalizations | 73 Mechanics of solids |
| 22 Topological groups, Lie groups | 76 Fluid mechanics |
| 26 Real functions | 78 Optics, electromagnetic theory |
| 28 Measure and integration | 80 Classical thermodynamics, heat transfer |
| 30 Functions of a complex variable | 81 Quantum theory |
| 31 Potential theory | 82 Statistical mechanics, structure of matter |
| 32 Several complex variables and analytic spaces | 83 Relativity and gravitational theory |
| 33 Special functions | 85 Astronomy and astrophysics |
| 34 Ordinary differential equations | 86 Geophysics |
| 35 Partial differential equations | 90 Economics, operations research, programming, games |
| 39 Finite differences and functional equations | 92 Biology and other natural sciences, behavioral sciences |
| 40 Sequences, series, summability | 93 Systems theory; control |
| 41 Approximations and expansions | 94 Information and communication, circuits |
| 42 Fourier analysis | |
| 43 Abstract harmonic analysis | |
| 44 Integral transforms, operational calculus | |

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60-XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05.}

60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- (Sazonov, Vyacheslav Vasil'evich) see Székely, Gábor J., 91i:60001
Székely, Gábor J. ★ Парадоксы в теории вероятностей и математической статистике. (Russian) [Paradoxes in probability theory and mathematical statistics] 91i:60001
(Ufyanov, Vladimir Vasil'evich) see Székely, Gábor J., 91i:60001

60-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Bailey, Norman T. J. ★ The elements of stochastic processes with applications to the natural sciences. 91k:60001
Bhattacharya, Rabi N. (with Waymire, Edward C.) ★ Stochastic processes with applications. 91m:60001
Baldy, G. M. ★ Теория вероятностей и математическая статистика. (Russian) [Probability theory and mathematical statistics] 91f:60001
Dudley, Richard M. ★ Real analysis and probability. 91g:60001
Durrett, Richard ★ Probability. 91m:60002
Goodman, Roe ★ Introduction to stochastic models. 91g:60002
Jones, Peter Watts (with Smith, Peter) ★ Topics in applied probability. 91e:60001
Pfeiffer, Paul E. ★ Probability for applications. 91h:60001
Rozanov, Yu. A. ★ Теория вероятностей, случайные процессы и математическая статистика. (Russian) [Probability theory, random processes and mathematical statistics] 91i:60002
Ruegg, Alan ★ Processus stochastiques. (French) [Stochastic processes] 91d:60001
Shiryayev, A. N. ★ Вероятность. (Russian) [Probability] 91a:60001
Smith, Peter² see Jones, Peter Watts, 91e:60001
Waymire, Edward C. see Bhattacharya, Rabi N., 91m:60001

Items with secondary classifications in 60-01

- Doob, J. L. ★ Stochastic processes. 91d:60002

60-02 Research exposition (monographs, survey articles)

- Anulova, S. V. (with Veretennikov, A. Yu.; Krylov, N. V.; Liptser, R. Sh.; Shiryayev, A. N.) Stochastic calculus. (Russian) 91i:60002b
Doob, J. L. ★ Stochastic processes. 91d:60002
(Gankrellidze, R. V.) see Current problems in mathematics. Fundamental directions. 91i:60002a and 91i:60003
Girko, V. L. ★ Theory of random determinants. 91k:60001
Krylov, N. V. see Anulova, S. V.; et al., 91i:60002b
Liptser, R. Sh. see Anulova, S. V.; et al., 91i:60002b
Shiryayev, A. N. see Anulova, S. V.; et al., 91i:60002b
Skorokhod, A. V. Probability. Basic concepts. Structure. Methods. (Russian) (see 91i:60003)
Veretennikov, A. Yu. see Anulova, S. V.; et al., 91i:60002b

Items listed otherwise than by author

- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 45. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 45] 91i:60002a
— ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003
Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 45. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 45] 91i:60002a
— ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

Items with secondary classifications in 60-02

- Heblich, M. P. ★ Approximation problems in analysis and probability. 91d:58015

60-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 60-03

- (Arago, François) see Crépel, Pierre, 91c:01030
(Bayes, Thomas) see Hald, Anders, 91m:01012
Beatty, John see Gigerenzer, Gerd; et al., 91d:00004
Benedetti, Carlo An exchange of ideas with A. A. Konyus on index numbers and on probability. (Italian. English summary) 91c:01040
Bernhardt, Hannelore Der Berliner Mathematiker R. v. Mises und sein wahrscheinlichkeitstheoretisches Konzept. [The Berlin mathematician R. von Mises and his concept of probability theory] 91j:01036
Brety, H. Les origines de la théorie des probabilités. [The origins of probability theory] 91g:01002
Crépel, Pierre Le cours d'arithmétique sociale de François Arago à l'École polytechnique (1825). Transcription des notes prises par l'élève Hippolyte Renaud. [François Arago's course on social arithmetic at the École Polytechnique (1825). Transcription of the notes taken by the student Hippolyte Renaud] 91c:01030

- De Condorcet à Arago: l'enseignement des probabilités en France de 1786 à 1830. [From Condorcet to Arago: the teaching of probability theory in France from 1786 to 1830] 91c:01011

- Dahlke, Richard (with Fakler, Robert A.; Morash, Ronald P.) A sketch of the history of probability theory. 91i:01148
Daston, Lorraine see Gigerenzer, Gerd; et al., 91d:00004
Dragalin, V. P. (with Lyakhu, A. K.) The work of I. F. Sakrier on probability theory and its applications. (Russian) 91h:01048
Fakler, Robert A. see Dahlke, Richard; et al., 91i:01148
Gigerenzer, Gerd (with Swijtink, Zeno; Porter, Theodore M.; Daston, Lorraine; Beatty, John; Krüger, Lorenz) ★ The empire of chance. 91d:00004
Hald, Anders ★ A history of probability and statistics and their applications before 1750. 91c:01003
— Evaluations of the beta probability integral by Bayes and Price. 91m:01012
(Konyus, A. A.) see Benedetti, Carlo, 91c:01040
Krengel, Ulrich Wahrscheinlichkeitstheorie. [Probability theory] 91m:01018
Krüger, Lorenz see Gigerenzer, Gerd; et al., 91d:00004
Loeffel, Hans Abraham de Moivre (1667-1754)—Pionier der stochastischen Rentenrechnung. (English and French summaries) [Abraham de Moivre (1667-1754)—pioneer of the stochastic theory of life annuities] (Not in MR)
Lyakhu, A. K. see Dragalin, V. P., 91h:01048
(von Mises, Richard) see Bernhardt, Hannelore, 91j:01036
(de Moivre, Abraham) see Loeffel, Hans, (Not in MR)
Morash, Ronald P. see Dahlke, Richard; et al., 91i:01148
Nualart, David Martingales and their applications: a historical perspective. (Catalan) 91d:60105
Porter, Theodore M. see Gigerenzer, Gerd; et al., 91d:00004
(Price, Richard) see Hald, Anders, 91m:01012
(Sakrier, I. F.) see Dragalin, V. P., 91h:01048
(Sazonov, Vyacheslav Vasil'evich) see Székely, Gábor J., 91i:60001
Sherstnev, A. N. see Volodin, I. N., (91i:01139)
Stigler, Stephen M. ★ The history of statistics. 91h:01005
Swijtink, Zeno see Gigerenzer, Gerd; et al., 91d:00004
Székely, Gábor J. ★ Парадоксы в теории вероятностей и математической статистике. (Russian) [Paradoxes in probability theory and mathematical statistics] 91i:60001
(Ufyanov, Vladimir Vasil'evich) see Székely, Gábor J., 91i:60001
Volodin, I. N. (with Sherstnev, A. N.) Probability theory and mathematical statistics at Kazan' University. (Russian) (see 91i:01139)

Items listed otherwise than by author

Biography:

- de Moivre, Abraham see Loeffel, Hans, (Not in MR)
Sakrier, I. F. see Dragalin, V. P., 91h:01048

60-06 Proceedings, conferences, collections, etc.

- (Azéma, J.) see Seminar: Probability Theory, 91f:60003
(Bogomolov, A. M.) see Markov random processes and their applications, 91j:60001
Burkholder, Donald L. (with Pardoux, Étienne; Sznitman, Alain-Sol) ★ École d'Été de Probabilités de Saint-Flour XIX—1989. [Saint-Flour Summer School on Probability Theory XIX—1989] 91m:60003
(Buts, G. P.) see Stochastic systems and their applications, 91j:60006
(Eberlein, Ernst) see Probability in Banach spaces, 91m:60005
(Gankrellidze, R. V.) see Probability theory. Mathematical statistics. Theoretical cybernetics, 91e:60004
(Garmash, V. A.) see Models and methods in information networks, 91e:60003
(Hennequin, P. L.) see School: Probability Theory, 91k:60002 and Burkholder, Donald L.; et al., 91m:60003
(Irchenko, G. I.) see Probability problems in discrete mathematics, 91j:60002
(Kalashnikov, V. V.) see Stability problems for stochastic models, 91b:60004; 91g:60003 and 91g:60004
(Kashtanov, V. A.) see Random processes and their applications, 91b:60003
(Kharkevich, A. D.) see Models and methods in information networks, 91e:60003
(Körözlögi, Hayri) see Stochastic analysis and related topics, 91g:60006
(Korolyuk, V. S.) see Analytic methods for studying the evolutions of stochastic systems, 91a:60002
(Kuelbs, James D.) see Probability in Banach spaces, 91m:60005
(Langer, Heinz) see Markov processes and control theory, 91f:60002
(Lukov, Yu. N.) see Theory of random processes and its applications, 91k:60003
(Marcus, Michael B.) see Probability in Banach spaces, 91m:60005
(Meyer, Paul-André) see Seminar: Probability Theory, 91f:60003
(Nollan, Volker) see Markov processes and control theory, 91f:60002
Pardoux, Étienne see Burkholder, Donald L.; et al., 91m:60003
(Pinsky, Mark A.) see Diffusion processes and related problems in analysis, 91m:60004
(Prokhorov, Yu. A.) see Proceedings: Congress of Bernoulli Society, 91j:60003 and 91j:60004
(Ricciardi, Luigi M.) see Lectures: Applied mathematics and informatics, 91g:60006
(Sazonov, Vyacheslav Vasil'evich) see Proceedings: Congress of Bernoulli Society, 91j:60003 and 91j:60004
(Shiryayev, A. N.) see Statistics and control of random processes, 91g:60005
(Skorokhod, A. V.) see Stochastic analysis and its applications, 91e:60005
(Solovyanov, Yu. V.) see Stability problems for stochastic models, 91g:60003
Sznitman, Alain-Sol see Burkholder, Donald L.; et al., 91m:60003
(Topchi, V. A.) see Stochastic and deterministic models of complex systems, 91e:60006
(Üstünel, Ali Süleyman) see Stochastic analysis and related topics, 91g:60006
(Yor, Marc) see Seminar: Probability Theory, 91f:60003
(Zhulenev, S. V.) see Random processes and their applications, 91h:60003
(Zolotarev, V. M.) see Stability problems for stochastic models, 91b:60004; 91g:60003 and 91g:60004

Items listed otherwise than by author

All-Union Seminar:

Stability Problems for Stochastic Models ★ Проблемы устойчивости стохастических моделей. (Russian) [Stability problems for stochastic models] 91g:60003

Analytic methods for studying the evolutions of stochastic systems ★ Аналитические методы исследования эволюций стохастических систем. (Russian) [Analytic methods for studying the evolutions of stochastic systems] 91a:60002

Conference:

Diffusion Processes and Related Problems in Analysis ★ Diffusion processes and related problems in analysis. Vol. I. 91m:60004

Probability in Banach Spaces ★ Probability in Banach spaces. 7. 91m:60005

Stochastic Processes and their Applications Seventeenth Conference on Stochastic Processes and their Applications. (Not in MR)

— Eighteenth Conference on Stochastic Processes and their Applications. (Not in MR)

Congress:

Bernoulli Society ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 1. 91j:60003

— ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 2. 91j:60004

Mathematical Statistics and Probability ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 1. 91j:60003

— ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 2. 91j:60004

Diffusion processes and related problems in analysis ★ Diffusion processes and related problems in analysis. Vol. I. 91m:60004

Evanson, I. L. ★ Diffusion processes and related problems in analysis. Vol. I. 91m:60004

Gansig ★ Markov processes and control theory. 91f:60002

Itogi Nauki i Tekhniki ★ Теория вероятностей. Математическая статистика.

Теоретическая кибернетика. Том 27. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 27] 91e:60004

Lecture Notes in Mathematics ★ Stability problems for stochastic models. 91b:60004

— ★ Séminaire de Probabilités. XXIV. 1988/89. (French) [Seminar on Probability Theory. XXIV. 1988/89] 91f:60003

— ★ Stochastic analysis and related topics. II. 91g:60006

— ★ École d'Été de Probabilités de Saint-Flour XVIII—1988. [Saint-Flour Summer School on Probability Theory XVIII—1988] 91k:60002

Lectures:

Applied mathematics and informatics ★ Lectures in applied mathematics and informatics. 91e:60002

Madison, WI Eighteenth Conference on Stochastic Processes and their Applications. (Not in MR)

Markov processes and control theory ★ Markov processes and control theory. 91f:60002

Markov random processes and their applications ★ Марковские случайные процессы и их приложения. (Russian) [Markov random processes and their applications] 91j:60001

Models and methods in information networks ★ Модели и методы информационных сетей. (Russian) [Models and methods in information networks] 91e:60003

Oberwolfach ★ Probability in Banach spaces. 7. 91m:60005

Preila ★ Статистика и управление случайными процессами. (Russian) [Statistics and control of random processes] 91g:60005

Probabilités ★ Probabilités. (French) [Probability theory] 91a:60003

Probability in Banach spaces ★ Probability in Banach spaces. 7. 91m:60005

Probability problems in discrete mathematics ★ Вероятностные задачи дискретной математики. (Russian) [Probability problems in discrete mathematics] 91j:60002

Probability theory ★ Probabilités. (French) [Probability theory] 91a:60003

Probability theory. Mathematical statistics. Theoretical cybernetics ★ Теория вероятностей. Математическая статистика. Теоретическая кибернетика. Том 27. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 27] 91e:60004

Proceedings:

Congress of Bernoulli Society ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 1. 91j:60003

— ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 2. 91j:60004

Symposium on Reliability and Renewal Theory ★ Proceedings of the Symposium on Reliability and Renewal Theory. 91j:60005

Random processes and their applications ★ Вероятностные процессы и их приложения. (Russian) [Random processes and their applications] 91b:60003

Rome Seventeenth Conference on Stochastic Processes and their Applications. (Not in MR)

Saint-Flour ★ École d'Été de Probabilités de Saint-Flour XVIII—1988. [Saint-Flour Summer School on Probability Theory XVIII—1988] 91k:60002

School:

Probability Theory ★ École d'Été de Probabilités de Saint-Flour XVIII—1988. [Saint-Flour Summer School on Probability Theory XVIII—1988] 91k:60002

School-Seminar:

Theory of Random Processes ★ Статистика и управление случайными процессами. (Russian) [Statistics and control of random processes] 91g:60005

Seminar:

Probability Theory ★ Séminaire de Probabilités. XXIV. 1988/89. (French) [Seminar on Probability Theory. XXIV. 1988/89] 91f:60003

Stability Problems for Stochastic Models ★ Проблемы устойчивости стохастических моделей. (Russian) [Stability problems for stochastic models] 91g:60004

— ★ Stability problems for stochastic models. 91b:60004

Silivri ★ Stochastic analysis and related topics. II. 91g:60006

Stability problems for stochastic models ★ Проблемы устойчивости стохастических моделей. (Russian) [Stability problems for stochastic models] 91g:60003

— ★ Проблемы устойчивости стохастических моделей. (Russian) [Stability problems for stochastic models] 91g:60004

— ★ Stability problems for stochastic models. 91b:60004

Statistics and control of random processes ★ Статистика и управление случайными процессами. (Russian) [Statistics and control of random processes] 91g:60005

Stochastic analysis and its applications ★ Стохастический анализ и его приложения. (Russian) [Stochastic analysis and its applications] 91e:60005

Stochastic analysis and related topics ★ Stochastic analysis and related topics. II. 91g:60006

Stochastic and deterministic models of complex systems ★ Стохастические и детерминированные модели сложных систем. (Russian) [Stochastic and deterministic models of complex systems] 91e:60006

Stochastic systems and their applications ★ Стохастические системы и их приложения. (Russian) [Stochastic systems and their applications] 91j:60006

Sukhumi ★ Проблемы устойчивости стохастических моделей. (Russian) [Stability problems for stochastic models] 91g:60004

— ★ Stability problems for stochastic models. 91b:60004

Symposium:

Markov Processes and Control Theory ★ Markov processes and control theory. 91f:60002

Reliability and Renewal Theory ★ Proceedings of the Symposium on Reliability and Renewal Theory. 91j:60005

Tashkent ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 1. 91j:60003

— ★ Proceedings of the 1st World Congress of the Bernoulli Society. Vol. 2. 91j:60004

Theory of random processes and its applications ★ Теория случайных процессов и ее приложения. (Russian) [Theory of random processes and its applications] 91k:60003

Trivandrum ★ Proceedings of the Symposium on Reliability and Renewal Theory. 91j:60005

Workshop:

Stochastic Analysis and Related Topics ★ Stochastic analysis and related topics. II. 91g:60006

Items with secondary classifications in 60-06

(Davis, Mark H. A.) see *Applied stochastic analysis*, 91m:93003

(Elliott, Robert James) see *Applied stochastic analysis*, 91m:93003

(Grimmett, Geoffrey) see *Disorder in physical systems*, 91e:00010

(Hammersley, John M.) see *Disorder in physical systems*, 91e:00010

(Maniya, G. M.) see *Probability theory and mathematical statistics*, 91a:62004

(Mikhailov, G. A.) see *Theory and applications of statistical modeling*, 91g:65009

(Prokhorov, Yu. V.) see *Probability theory and mathematical statistics*, 91a:62004

(Shervashidze, T. L.) see *Probability theory and mathematical statistics*, 91a:62004

(Shiryayev, A. N.) see *Probability theory and mathematical statistics*, 91a:62004

(Tautu, Petre) see *Stochastic modelling in biology*, 91j:92001

(Welsh, D. J. A.) see *Disorder in physical systems*, 91e:00010

Items listed otherwise than by author

Applied stochastic analysis ★ Applied stochastic analysis. 91m:93003

Bibliography:

Maniya, G. M. ★ Теория вероятностей и математическая статистика. (Russian) [Probability theory and mathematical statistics] 91a:62004

Birthday:

Hammersley, J. M. ★ Disorder in physical systems. 91e:00010

Maniya, G. M. ★ Теория вероятностей и математическая статистика. (Russian) [Probability theory and mathematical statistics] 91a:62004

Disorder in physical systems ★ Disorder in physical systems. 91e:00010

Heidelberg ★ Stochastic modelling in biology. 91j:92001

London ★ Applied stochastic analysis. 91m:93003

Probability theory and mathematical statistics ★ Теория вероятностей и математическая статистика. (Russian) [Probability theory and mathematical statistics] 91a:62004

Probability theory. Mathematical statistics. Theoretical cybernetics ★ Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 26. 91g:60048

Stochastic modelling in biology ★ Stochastic modelling in biology. 91j:92001

Theory and applications of statistical modeling ★ Теория и приложения статистического моделирования. (Russian) [Theory and applications of statistical modeling] 91g:65009

Workshop:

Applied Stochastic Analysis ★ Applied stochastic analysis. 91m:93003

Stochastic Modelling in Biology: Relevant Mathematical Concepts and Recent Applications

★ Stochastic modelling in biology. 91j:92001

60Axx Foundations of probability theory

Items with secondary classifications in 60Axx

(Gamkrelidze, R. V.) see *Current problems in mathematics. Fundamental directions*, 91i:60003

Skorokhod, A. V. Probability. Basic concepts. Structure. Methods. (Russian) (see 91i:60003)

Items listed otherwise than by author

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

60A05 Axioms; other general questions

Coletti, Giulianella Conditionally coherent qualitative probabilities. (French and Italian summaries) 91a:60004

— Coherent qualitative probability. 91k:60004

Githeo, Itzhak Duality in nonadditive expected utility theory. 91e:60007

Ivanenko, V. I. (with Labkovskii, V. A.) A model of nonstochastic randomness. 91k:60005

Labkovskii, V. A. see *Ivanenko, V. I.*, 91k:60005

Lane, David A. An epistemic justification of the law of total probability. (see 91j:60003)

Planchet, Bernard Credibility and conditioning. 91e:60008

von Plato, Jan Probability in dynamical systems. 91a:60005

Suck, Reinhard Random variables and qualitative probability representations. 91b:60002

Items with secondary classifications in 60A05

- Antonets, M. A. (with Tsvetkov, A. A.) Algebras of random variables and their representations. 91a:28010
- Asarin, E. A. Equivalence of the generic and chaotic properties of finite objects. (Russian) (Not in MR)
- (Bayes, Thomas) *see* Earman, John, 91j:01023
- Bernhardt, Hannelore Der Berliner Mathematiker R. v. Mises und sein wahrscheinlichkeitstheoretisches Konzept. [The Berlin mathematician R. von Mises and his concept of probability theory] 91j:01036
- Earman, John Bayes' Bayesianism. 91j:01023
- Hájek, Alan Probabilities of conditionals—revisited. 91i:03050
- Hawthorne, James Giving up judgment empiricism: the Bayesian epistemology of Bertrand Russell and Grover Maxwell. (see 91i:03006)
- Heyer, Dieter (with Niederée, Reinhard) Elements of a model-theoretic framework for probabilistic measurement. 91b:92046
- Kravtsov, Yu. A. Randomness, determinateness, and predictability. 91a:82004
- Leblanc, Hugues (with Roeper, Peter) On relativizing Kolmogorov's absolute probability functions. 91j:03020
- Lobry, Claude À propos du "paradoxe" de Wong et Zakai. [On the Wong-Zakai "paradox"] 91b:60071
- (Maxwell, Grover) *see* Hawthorne, James, (91i:03006)
- (von Mises, Richard) *see* Bernhardt, Hannelore, 91j:01036
- Niederée, Reinhard *see* Heyer, Dieter, 91b:92046
- (Pearl, Judea) *see* Readings in uncertain reasoning, 91j:68005
- Provan, Gregory M. A logic-based analysis of Dempster-Shafer theory. 91i:68145
- Roeper, Peter *see* Leblanc, Hugues, 91j:03020
- (Russell, Bertrand) *see* Hawthorne, James, (91i:03006)
- Segal, Uzi Anticipated utility: a measure representation approach. 91a:90014
- Semenov, A. L. *see* Uspenskii, V. A.; et al., 91f:03043
- Shafer, Glenn Perspectives on the theory and practice of belief functions. (Not in MR) — *see also* Readings in uncertain reasoning, 91j:68005
- Shen', A. Kh. *see* Uspenskii, V. A.; et al., 91f:03043
- Skyrms, Brian On the principle of total evidence with and without observation sentences. 91f:03041
- Smets, Philippe Belief functions. (see 91h:68162)
- Tsvetkov, A. A. *see* Antonets, M. A., 91a:28010
- Uspenskii, V. A. (with Semenov, A. L.; Shen', A. Kh.) Can an (individual) sequence of zeros and ones be random? 91f:03043

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60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

- Blei, Ron C. Combinatorial dimensions and fractional Cartesian products in Euclidean spaces. 91k:60006
- Chen, Pei De The L^1 -theory of approximation by peak functions. (Chinese) (Not in MR)
- Fan, Ai Hua ★ Décompositions de mesures et recouvrements aléatoires. (French) [Decompositions of measures and random coverings] 91c:60009
- Lehrer, Ehud On a representation of a relation by a measure. 91f:60004
- Mature, Antonio Conditional probabilities obtained by probabilities with values on the field of bilateral series. 91g:60007
- Mesiar, Radko A remark on Piasecki's Bayes formula for fuzzy probability measures. (Not in MR)

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- Armstrong, Thomas E. Invariance of full conditional probabilities under group actions. 91d:28007
- Dembki, William A. Uniform probability. 91f:28007
- Kahane, Jean-Pierre Sur la distribution des fonctions dérivées. [On the distribution of derived functions] 91b:28005
- Mature, Antonio Finitely additive probability taking values in the field of bilateral series. (Italian. English summary) 91h:60003
- Mikusinski, Piotr (with Sherwood, H.; Taylor, M. D.) Łojasiewicz's support and doubly stochastic measures. 91g:28014
- Pintacuda, Nicolò On Doob's measurability lemma. (Italian. English summary) 91b:28005
- Rachev, Svetlozar T. (with Shortt, Rae Michael) Classification problem for probability metrics. 91d:28005
- Radchenko, V. N. Integrals with respect to random measures that are σ -additive with probability 1. (Ukrainian. Russian summary) 91f:60088
- Sherwood, H. *see* Mikusinski, Piotr; et al., 91g:28014
- Shortt, Rae Michael *see* Rachev, Svetlozar T., 91d:28005
- Singer, Boris Limits of stochastic topological projective systems. 91k:28014
- Taylor, M. D. *see* Mikusinski, Piotr; et al., 91g:28014
- Yurachkovskii, A. P. An axiomatic independence relation as an equivalent of probability measure. (Russian) 91f:28012
- Zhang, Xing Wu The local comparability of σ -domain families and the Vitali condition. (Chinese) 91f:60100

60A99 None of the above, but in this section

- Abutaliev, F. B. (with Salakhutdinov, R. Z.) Operations over probability sets that are based on triangular norms. (Russian) (Not in MR)
- Chusani, Rolando Probabilistic models. 91c:60010
- Gachechiladze, T. G. (with Mandzhaparashvili, T. V.) Fuzzy random events and corresponding conditional probability measures. (Russian. English and Georgian summaries) (Not in MR)
- Gilio, A. \mathbb{Q}_0 -coherent conditional probabilities. (Italian. English summary) 91g:60008

- Helppern, Stanislaw Some representations of random sets. (Not in MR)
- López, María Teresa Randomness and vagueness in fuzzy events. (Spanish) (Not in MR)
- Mandzhaparashvili, T. V. *see* Gachechiladze, T. G., (Not in MR)
- Mature, Antonio Finitely additive probability taking values in the field of bilateral series. (Italian. English summary) 91h:60003
- Mesiar, Radko (with Piasecki, Krzysztof) On a possible generalization of the Bayes method of inference. (Not in MR)
- Meyer, Paul-André Une remarque sur les lois échangeables. [A remark on exchangeable laws] 91m:60006
- Piasecki, Krzysztof *see* Mesiar, Radko, (Not in MR)
- Salakhutdinov, R. Z. *see* Abutaliev, F. B., (Not in MR)
- Zvonkin, A. K. Nonstandard analysis in probability theory. (see 91j:60003)

Items with secondary classifications in 60A99

- Calude, Cristian (with Chijescu, Ion) Qualitative properties of P. Martin-Löf random sequences. (Italian summary) 91h:03064
- Chijescu, Ion *see* Calude, Cristian, 91h:03064
- Compton, Kevin J. Laws in logic and combinatorics. 91f:03080
- Crstici, Borislav (with Lipovan, Octavian) A probabilistic approach to the integrability concept. 91f:28005
- Gudder, Stanley Quantum probability and operational statistics. 91i:81006
- Guggenheimer, Heinrich W. Limit theorems for Dempster composition in probabilistic logic. (Russian summary) 91i:03049
- Kleyre, Robert M. *see* de Korvin, André; et al., 91g:68149
- de Korvin, André (with Kleyre, Robert M.; Lea, R.) Uncertainty in expert systems: sets of expert decision makers and the Dempster-Shafer approach. 91g:68149
- Lal, R. N. *see* Singh, D. N.; et al., (Not in MR)
- Lea, R. *see* de Korvin, André; et al., 91g:68149
- Lipovan, Octavian *see* Crstici, Borislav, 91f:28005
- Modi, D. K. *see* Singh, D. N.; et al., (Not in MR)
- Mosteller, Frederick (with Youtz, Cleo) Quantifying probabilistic expressions. 91i:62009
- Piebanek, Grzegorz Measures on two-dimensional products. 91h:28007
- Singh, D. N. (with Lal, R. N.; Modi, D. K.) Probabilisation and fuzzification of number systems. (Not in MR)
- Skala, Heinz J. On fuzzy probability measures. 91h:28022
- Wagner, Carl G. Consensus for belief functions and related uncertainty measures. 91f:68195
- Wu, Tian Bin Parametric 0-1 processes and extensive fuzzy sets. 91g:04009
- Youtz, Cleo *see* Mosteller, Frederick, 91i:62009

60Bxx Probability theory on algebraic and topological structures

60B05 Probability measures on topological spaces

- D'Aristotle, Anthony (with Diaconis, Persi; Freedman, David) On merging of probabilities. 91h:60004
- Diaconis, Persi *see* D'Aristotle, Anthony; et al., 91h:60004
- Fierro, Radl Existence and uniqueness of a martingale problem in $D(\mathbb{R}_+, \mathcal{S})$. 91d:60003
- Freedman, David *see* D'Aristotle, Anthony; et al., 91h:60004
- Kuznetsova-Sholpo, I. A. (with Rachev, Svetlozar T.) Explicit solutions of moment problems. I. 91g:60009
- Levin, V. L. (with Rachev, Svetlozar T.) New duality theorems for marginal problems with some applications in stochasticity. 91d:60004
- Pap, Gyula Density of the norm of translated stable vectors in Banach spaces. 91e:60011
- Pirna, Kalev Sample approximation of the distribution by means of k points: a consistency result for separable metric spaces. (see 91j:60004)
- On the stability of discrete approximation of probability distributions. 91f:60004
- Rachev, Svetlozar T. (with Rüschendorf, Ludger) A transformation property of minimal metrics. 91f:60005
- *see also* Levin, V. L., 91d:60004 and Kuznetsova-Sholpo, I. A., 91g:60009
- Rüschendorf, Ludger *see* Rachev, Svetlozar T., 91f:60005
- Trendafilov, N. *see* V'ndev, Dimit'r L., 91c:60001
- V'ndev, Dimit'r L. (with Trendafilov, N.) A type of stable stochastic processes using Levy-Khintchine formulae. 91c:60001
- Vol'kovich, V. E. Quasiregular stochastic convolutions. 91e:60012

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- Barndorff-Nielsen, Ole E. (with Blæsild, Preben; Eriksen, Poul Svante) ★ Decomposition and invariance of measures, and statistical transformation models. 91i:62005
- Blæsild, Preben *see* Barndorff-Nielsen, Ole E.; et al., 91i:62005
- Borovkov, A. A. (with Mogul'skii, A. A.) On probabilities of small deviations for random processes. (Russian) 91e:60089
- Eriksen, Poul Svante *see* Barndorff-Nielsen, Ole E.; et al., 91i:62005
- Kerov, S. V. *see* Volchegurskii, V. I., 91i:05015
- Klimkin, V. M. Uniform boundedness of a family of regular f -composition set functions. (Russian) (see 91g:60003)
- Mogul'skii, A. A. *see* Borovkov, A. A., 91e:60089
- Okazaki, Yoshiaki (with Takahashi, Yasuji) The structure of the quasi-invariant set of a linear measure. 91m:28017
- Rachev, Svetlozar T. (with Shortt, Rae Michael) Classification problem for probability metrics. 91d:28005
- Scarsini, Marco Copulae of probability measures on product spaces. 91d:60034
- Shortt, Rae Michael *see* Rachev, Svetlozar T., 91d:28005
- Takahashi, Yasuji *see* Okazaki, Yoshiaki, 91m:28017
- Volchegurskii, V. I. (with Kerov, S. V.) AF-algebras of truncated Pascal triangles. (Russian) 91i:05015

Willis, George A. Probability measures on groups and some related ideals in group algebras. 91i:43003

60B10 Convergence of probability measures

- Avram, Florin (with Taqqu, Murad S.) Probability bounds for M -Skorohod oscillations. 91c:60002
- Baxter, Laurence A. (with Lee, Seung Min) A weak convergence theorem for continuum structure functions. 91j:60007
- Davydov, Yu. A. On strong convergence of distributions of random process functionals. (see 91j:60003)
- Fierro, Raúl Domains of attraction for semi-martingales taking values in the tempered distributions space. 91d:60005
- van de Geer, Sara Estimating a regression function. 91i:60005
- Harel, Michel (with Puri, Madan Lal) Limiting behavior of U -statistics, V -statistics, and one sample rank order statistics for nonstationary absolutely regular processes. 91a:60006
- (with Puri, Madan Lal) Weak convergence of the U -statistic and weak invariance of the one-sample rank order statistic for Markov processes and ARMA models. 91c:60003
- Jacod, Jean (with Mano, Pascal) Une évaluation de la distance entre les lois d'une semimartingale et d'un processus à accroissements indépendants. (English summary) [An estimate of the distance between the laws of a semimartingale and of a process with independent increments] 91d:60006
- Kalashnikov, V. V. A complete metric in the space $D[0, \infty)$. 91c:60004
- King, Alan J. Generalized delta theorems for multivalued mappings and measurable selections. 91k:60007
- Lee, Seung Min see Baxter, Laurence A., 91j:60007
- Linde, W. (with Siegel, Gerhard) On the convergence of types for Radon probability measures in Banach spaces. 91m:60007
- Mano, Pascal see Jacod, Jean, 91d:60005
- Mayer-Wolf, Eduardo The Cramér-Rao functional and limiting laws. 91m:60008
- Merkle, Milan J. On weak convergence of measures on Hilbert spaces. 91a:60007
- Pan, Jia Zhu A theorem on weak convergence of sequences of multivariate distribution functions. (Chinese. English summary) 91i:60006
- Puri, Madan Lal see Harel, Michel, 91a:60006 and 91c:60003
- Rachev, Svetlozar T. (with Rüschendorf, Ludger) A counterexample to a.s. constructions. 91f:60006
- Ramachandran, B. Two remarks on vague convergence. 91i:60007
- Rataj, Jan A characterization of the weak convergence of convolution powers. (Russian and Czech summaries) 91f:60007
- Rüschendorf, Ludger see Rachev, Svetlozar T., 91f:60006
- Salinetti, G. Topological remarks on uniform convergence of probability measures. 91i:60008
- Siegel, Gerhard see Linde, W., 91m:60007
- Sweeting, T. J. On conditional weak convergence. 91a:60008
- Taqqu, Murad S. see Avram, Florin, 91c:60002
- Volt, Michael Central limit theorems for a class of polynomial hypergroups. 91k:60008
- Volpato Martinelli, Giuseppina On the convergence of sequences of probability distributions bounded by a sequence of partitions of the space. (Italian) 91g:60010
- Yakich, J. E. Optimal matching and empirical measures. 91b:60005
- Items with secondary classifications in 60B10
- Balder, Erik J. On Prohorov's theorem for transition probabilities. 91g:28008
- Bally, Vlad Approximation for the solutions of stochastic differential equations. III. Jointly weak convergence. 91j:60103
- D'Aristotle, Anthony (with Diaconis, Persi; Freedman, David) On merging of probabilities. 91h:60004
- Diaconis, Persi see D'Aristotle, Anthony; et al., 91h:60004
- Fernández, Begona Markov properties of the fluctuation limit of a particle system. 91i:60004
- Flachsmeier, Jürgen Diffuse Maße und schwache Konvergenz auf metrischen Räumen. [Diffuse measures and weak convergence on metric spaces] 91h:28006
- Freedman, David see D'Aristotle, Anthony; et al., 91h:60004
- Glassner, Peter (with Schneemeier, Wilhelm) On functional limit theorems for a class of stochastic processes indexed by pseudo-metric parameter spaces (with applications to empirical processes). 91j:60061
- Harel, Michel (with Puri, Madan Lal) Weak invariance of generalized U -statistics for nonstationary absolutely regular processes. 91e:60109
- Heyman, Daniel P. (with Whitt, Ward) Limits for queues as the waiting room grows. 91c:60271
- Ivanov, V. N. Almost-periodic Markov processes. (Russian) (see 91j:60001)
- Khokhlov, Yu. S. Stable distributions on the Heisenberg group. 91e:43001
- Levin, V. L. (with Rachev, Svetlozar T.) New duality theorems for marginal problems with some applications in stochastics. 91d:60004
- Nowak, Andrzej S. On the weak topology on a space of probability measures induced by policies. (Russian summary) 91f:90142
- Peligrad, Magda On Ibragimov-Iosifescu conjecture for ρ -mixing sequences. 91i:60067
- Puri, Madan Lal see Harel, Michel, 91e:60109
- Rachev, Svetlozar T. The problem of stability in queueing theory. 91c:60132
- see also Levin, V. L., 91d:60004
- Schneemeier, Wilhelm see Glassner, Peter, 91j:60061
- Sriwata, M. G. An analogue of Dieudonné's theorem for a normal space in generalized measure theory. (Russian) (see 91g:60003)
- Vapnik, V. N. Inductive principles of the search for empirical dependences (methods based on weak convergence of probability measures). (see 91e:60014)
- Whitt, Ward see Heyman, Daniel P., 91c:60271

60B11 Probability theory on linear topological spaces [see also 28C20]

Abzhano, E. A. (with Kozachenko, Yu. V.) Moment norms in some Orlicz spaces.

- 91a:60009
- Bakhtys, G. Approximation by accompanying laws. The case of a Hilbert space. 91f:60008
- Bogachev, V. I. Polynômes et intégrales oscillantes sur les espaces de dimension infinie. (English summary) [Polynomials and oscillatory integrals on infinite-dimensional spaces] 91e:60009
- Byczkowski, Tomasz (with Graczyk, P.) Lévy-Khinchine formula on vector spaces. 91b:60005
- Dinculeanu, Nicolae Vector valued stochastic processes. III. Projections and dual projections. 91e:60013
- Elezović, N. Product of random linear operators. (Serbo-Croatian summary) 91m:60009
- Graczyk, P. see Byczkowski, Tomasz, 91b:60005
- Heinich, Henri Médianes vectorielles. (English summary) [Vector medians] 91j:60008
- Heinkel, Bernard Rearrangements of sequences of random variables and exponential inequalities. 91j:60009
- Kozachenko, Yu. V. see Abzhano, E. A., 91a:60009
- Li, Yü Chia On the convergence of Wiener-Itô decomposition. 91k:60009
- Lifshits, M. A. see Smorodina, N. V., 91c:60008
- Linde, W. Gaussian measure of translated balls in a Banach space. 91b:60006
- Lisitskii, A. D. Stable random vectors in Hilbert space. 91c:60005
- Matsak, I. K. (with Plichko, A. N.) The Khinchin inequality and the asymptotic behavior of the sums $\sum e_n x_n$ in Banach lattices. 91m:60010
- McConnell, Terry R. Decoupling and stochastic integration in UMD Banach spaces. 91b:60010
- Pap, Gyula Analog of heat equation for Gaussian measure of a ball in Hilbert space. 91m:60011
- Plichko, A. N. see Matsak, I. K., 91m:60010
- Ponomarenko, A. I. Linear stochastic differential equations with cylindrical random processes in normed spaces. 91a:60010
- Rama-Murthy, Kavi On weak limits of semistable laws. 91e:60014
- Richter, Matthias Approximation of Gaussian random elements and relative approximation criteria. 91j:60010
- Ryazantseva, V. V. see Zelupugina, I. N., 91a:60012
- Siegel, Gerhard Operator stable distributions in stationary sequences defined on separable Banach spaces. 91a:60011
- Operator-stable distributions in separable Banach spaces. 91c:60006
- Properties of operator stable distributions in infinite-dimensional Banach spaces. 91f:60009
- Smoleński, Włodzimierz (with Sztencel, Rafał) On admissible translates of sub-Gaussian stable measures. 91c:60007
- Smorodina, N. V. (with Lifshits, M. A.) On the distribution of the norm of a stable vector. 91c:60008
- Song, Hui Ja Characterization of a Gaussian covariance. 91c:60009
- Starček, M. (with Szyjał, Dominik) On properties of the Lévy, Prokhorov and Sibley type metrics. 91c:60015
- Sztencel, Rafał see Smoleński, Włodzimierz, 91c:60007
- Szyjał, Dominik see Starček, M., 91c:60015
- Żak, Tomasz On the difference of Gaussian measure of two balls in Hilbert spaces. 91c:60010
- A formula for the density of the norm of stable random vectors in Hilbert spaces. 91c:60010
- Zapala, August Michał Brownian sheets in a locally pseudoconvex metric linear space. 91c:60007
- Zelupugina, I. N. (with Ryazantseva, V. V.) The rate of convergence of some sub-Gaussian random series in norms of Orlicz spaces. 91a:60012
- Items with secondary classifications in 60B11
- Albeverio, Sergio (with Röckner, Michael) Classical Dirichlet forms on topological vector spaces—the construction of the associated diffusion process. 91e:31023
- Bogachev, V. I. (with Smolyanov, O. G.) Analytic properties of infinite-dimensional distributions. 91m:60099
- Buldygin, V. V. (with Solntsev, S. A.) A generalized summation of random series. 91c:60113
- Burkholder, Donald L. On the number of escapes of a martingale and its geometrical significance. 91c:60054
- Byczkowski, Tomasz (with Ryznar, Michał) Smoothness of the distribution of the norm in uniformly convex Banach spaces. 91j:46015
- Cambanis, Stamatis see Marques, Mauro, 91b:60044
- Chow, Pao Liu (with Menaldi, José-Luis) Exponential estimates in exit probability for some diffusion processes in Hilbert spaces. 91e:60176
- Chung, Dong Myung (with Kang, Soon Ja) Evaluation of some conditional abstract Wiener integrals. 91f:46062
- Čorný, Vladimír Characterization of operator-semistable distributions. (Russian) 91b:60016
- Gluskin, E. D. Deviation of a Gaussian vector from a subspace of l_{∞}^N and random subspaces of l_{∞}^N . 91k:46015
- Goerre, Sylvie An example of an irregular random measure. 91i:60131
- Hilczenko, Paweł On a conjecture of J. Zinn. 91c:60012
- Kang, Soon Ja see Chung, Dong Myung, 91f:46062
- Klass, Michael J. Uniform lower bounds for randomly stopped Banach space valued random sums. 91i:60115
- Kovalchik, I. M. (with Yanovich, L. A.) * Обобщенный интеграл Винера и некоторые его приложения. (Russian) [The generalized Wiener integral and some of its applications] 91b:46039
- Krée, Paul Dimension free stochastic calculus in the distribution sense. 91a:60145
- Li, Ker-Chau (with Ylvisaker, Donald) Another look at adaptation on the average. 91e:62245
- Linde, W. (with Siegel, Gerhard) On the convergence of types for Radon probability measures in Banach spaces. 91m:60007
- Lisitskii, A. D. Asymptotic expression for the density of the norm of a stable random vector of index 1. 91f:60031

- Liu, Pei De. Martingale inequalities and convexity and smoothness of Banach spaces. (Chinese) 91c:46020
- Laschey, Harald. Characterizations of infinite-dimensional Gaussian shift experiments. 91g:62006
- Marques, Mauro (with Cambanis, Stamatis). Admissible and singular translates of stable processes. 91h:60044
- Menaldi, José-Luis. *see* Chow, Pao Liu, 91c:60176
- Merkle, Milan J. On weak convergence of measures on Hilbert spaces. 91a:60007
- Rachev, Svetlozar T. *see* Rüschendorf, Ludger, 91c:60041a and 91c:60041b
- Rückner, Michael. *see* Alberverio, Sergio, 91c:31023
- Rüschendorf, Ludger (with Rachev, Svetlozar T.). A characterization of random variables with minimum L^2 -distance. 91c:60041a
- (with Rachev, Svetlozar T.). Corrigendum: "A characterization of random variables with minimum L^2 -distance". 91c:60041b
- Ryznar, Michał. *see* Byczkowski, Tomasz, 91j:46015
- Siegel, Gerhard. *see* Linde, W., 91m:60007
- Smolyanov, O. G. *see* Bogachev, V. I., 91m:60099
- Solntsev, S. A. *see* Buldygin, V. V., 91c:60113
- Song, Hi Ja. Gaussian measures on Lorentz sequence spaces. 91a:46041
- Gaussian measures on rearrangement invariant function spaces on $[0, 1]$ and on separable σ -complete Banach lattices. 91a:46042
- Szula, Jerzy. A note on hypercontractivity of stable random variables. 91j:60027
- Talagrand, Michel. Isoperimetry and integrability of the sum of independent Banach-space valued random variables. 91c:60054
- Tudor, Constantin. A variation of constants formula for delay stochastic equations in Hilbert spaces. 91g:60076
- Vinogradova, T. R. An estimate for the characteristic functions of functionals of multidimensional Gaussian random variables. 91d:60039
- Yanovich, L. A. *see* Kovalchik, I. M., 91b:46039
- Ylvisaker, Donald. *see* Li, Ker-Chau, 91c:62245

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

- de Acosta, Alejandro D. (with Ledoux, Michel). On the identification of the limits in the law of the iterated logarithm in Banach spaces. 91f:60011
- Alexander, Kenneth S. Unusual cluster sets for the LIL sequence in Banach space. 91a:60013
- (with Talagrand, Michel). The law of the iterated logarithm for empirical processes on Vapnik-Cervonenkis classes. 91c:60011
- Alt, Jean-Christian. Une forme générale de la loi forte des grands nombres pour des variables aléatoires vectorielles. [A general form of the strong law of large numbers for vector-valued random variables] 91a:60014
- Bakšys, G. Asymptotic constancy of the norm of sums of random vectors. (Russian. English and Lithuanian summaries) 91c:60016
- Basu, A. K. A functional central limit theorem for Banach space valued dependent variables and a log law. 91c:60017
- Berger, Erich. An almost sure invariance principle for stationary ergodic sequences of Banach space valued random variables. 91f:60012
- Biszewska, Miłogost. A lower bound on the estimate for the convergence rate in the central limit theorem in a Hilbert space. 91j:60011
- Borisov, I. S. Approximation of distributions of smooth functionals of sums of independent random elements in Banach spaces. (Russian) 91d:60008
- Borovskikh, Yu. V. *see* Korolyuk, V. S., 91c:60018; 91c:60011 and 91m:60014
- Bozorgnia, A. (with Rao, M. Bhaskara). Some comments on a result of Hanč on strong convergence of sequences of random elements in separable Banach spaces. (Russian summary) 91d:60009
- Buldygin, V. V. (with Solntsev, S. A.) ★ Функциональные методы в задачах суммирования случайных величин. (Russian) [Functional methods in problems of the summation of random variables] 91f:60013
- (with Solntsev, S. A.) Criteria for sums of independent random summands with operator normalizations to be almost surely fundamental. (Russian) 91j:60012
- Butsán, G. P. (with Kozachenko, M. Yu.). Representation of parametric operator stochastic systems by means of their infinitesimal systems. 91a:60015
- The mixed product of dependent stochastic operator systems. 91a:60016
- Byczkowski, Tomasz. Random series and seminorms. (see 91j:60003)
- Caponetti, Diana. On convergence of multivalued martingales and uniform amarts indexed by directed sets. (Italian summary) 91j:60013
- Chebotaev, V. I. *see* Nagae, S. V., 91f:60010 and (91j:60003)
- Daffer, Pete (with Schioppa-Kratina, Ioana). L^1 -tightness and the law of large numbers in $D(\mathbb{R})$. (French summary) 91d:60010
- Davis, William J. (with Ghossoub, N.; Johnson, William B.; Kwapiński, Stanisław; Maurey, B.). Weak convergence of vector valued martingales. 91f:60014
- Dinh Quang Lu'u. *see* Nguyen Van Hung, 91f:60018
- Dobrić, V. The decomposition theorem for functions satisfying the law of large numbers. 91m:60012
- Einmahl, Uwe. A note on the law of the iterated logarithm in Hilbert space. 91a:60017
- Fazekas, István. The law of the iterated logarithm in Banach spaces of type Φ . 91f:60015
- Ghossoub, N. *see* Davis, William J.; et al., 91f:60014
- Giné, Evarist (with Zinn, Joel). L_p multipliers in the central limit theorem with p -stable limit. 91b:60007
- (with Marcus, Michael B.; Zinn, Joel). On random multipliers in the central limit theorem with p -stable limit, $0 < p < 2$. 91m:60013
- Heinkel, Bernard. An infinite-dimensional law of large numbers in Cesàro's sense. 91h:60006
- Hitzenko, Paweł. On a conjecture of J. Zinn. 91c:60012
- Inoue, Hiroshi. *see* Patterson, Ronald F.; et al., 91a:60022
- Johnson, William B. *see* Davis, William J.; et al., 91f:60014
- Juknevičienė, D. *see* Paulauskas, Vygnantas, 91b:60008
- Kirichuk, P. A. The central limit theorem for a sum of Hilbert-space-valued random elements defined on a periodic Markov chain. (Russian) (Not in MR)
- Kolchinskii, V. I. Convergence of empirical measures. (Russian) 91h:60007
- Korolyuk, V. S. (with Borovskikh, Yu. V.). UH -statistics. 91c:60018
- (with Borovskikh, Yu. V.). An estimate for the closeness of moments of UH -statistics under conditions of the central limit theorem. (Russian) 91k:60011
- (with Borovskikh, Yu. V.). Rate of convergence in the central limit theorem for UH -statistics. (Russian) 91m:60014
- Kozachenko, M. Yu. *see* Butsán, G. P., 91a:60015
- Kudlaev, E. M. Summation of some dependent random variables with values in locally compact abelian groups. 91a:60018
- Kwapiński, Stanisław. *see* Davis, William J.; et al., 91f:60014
- Ledoux, Michel. A note on large deviations for Wiener chaos. 91f:60017
- (with Talagrand, Michel). Some applications of isoperimetric methods to strong limit theorems for sums of independent random variables. 91f:60016
- *see also* de Acosta, Alejandro D., 91f:60011
- Marcus, Michael B. *see* Giné, Evarist; et al., 91m:60013
- Maurey, B. *see* Davis, William J.; et al., 91f:60014
- Molchanov, I. S. Characterization of universal classes in the Glivenko-Cantelli theorem for random closed sets. 91a:60019
- Móricz, Ferenc (with Taylor, Robert Lee). Strong laws of large numbers for arrays of orthogonal random variables. 91a:60020
- Nagae, S. V. (with Chebotarev, V. I.). On asymptotic expansion for the distribution of the sum of independent identically distributed random variables taking values in Hilbert space. (see 91j:60003)
- An estimate of Berry-Esseen type for sums of random variables with values in a Hilbert space. 91a:60021
- (with Chebotarev, V. I.). On an asymptotic expansion of Bergström type in a Hilbert space. (Russian) 91f:60010
- Nguyễn Văn Giang. Marcinkiewicz-Zygmund strong laws of large numbers for two-dimensional arrays of Banach space valued random variables. 91f:60011
- Nguyen Van Hung (with Dinh Quang Lu'u). Relations between laws of large numbers and asymptotic martingales in Banach spaces. (French summary) 91f:60018
- Patterson, Ronald F. (with Taylor, Robert Lee; Inoue, Hiroshi). Strong convergence for sums of randomly weighted, rowwise exchangeable random variables. 91a:60022
- Paulauskas, Vygnantas (with Stiewe, Ch.). On the central limit theorem in $D[0, 1]$ and $D[0, 1], H$. 91m:60015
- (with Juknevičienė, D.). The rate of convergence in a central limit theorem in the space $D[0, 1]$. 91b:60008
- Ratkauskas, Alfredas. On the martingale central limit theorem in Banach spaces. 91c:60019
- Rao, M. Bhaskara. *see* Bozorgnia, A., 91d:60009
- Rosalski, Jan. On series representations of infinitely divisible random vectors. 91g:60011
- Sazonov, Vyacheslav Vasil'evich (with Uflyanov, Vladimir Vasil'evich; Zaleskii, B. A.). Asymptotic expansions refining the central limit theorem in Hilbert space. (see 91j:60003)
- *see also* Zaleskii, B. A.; et al., 91g:60013
- Schioppa-Kratina, Ioana. *see* Daffer, Pete, 91d:60010
- Senator, V. V. On the estimate of the rate of convergence in the central limit theorem in Hilbert space. 91k:60012
- Sharakhmetov, Sh. Inequalities for sums of infinite-dimensional weakly dependent random variables. (Russian) 91d:60011
- Solntsev, S. A. *see* Buldygin, V. V., 91c:60113 and 91j:60012
- Stiewe, Ch. *see* Paulauskas, Vygnantas, 91m:60015
- Suchkov, A. P. (with Ushakov, N. G.). Exponential estimates for the rate of decrease of the maximal probability in infinite-dimensional spaces. 91g:60012
- Talagrand, Michel. *see* Alexander, Kenneth S., 91c:60011 and Ledoux, Michel, 91f:60016
- Taylor, Robert Lee. *see* Móricz, Ferenc, 91a:60020 and Patterson, Ronald F.; et al., 91a:60022
- Uflyanov, Vladimir Vasil'evich. Nonuniform bounds on the error of the normal approximation in H . 91c:60013
- *see also* Zaleskii, B. A.; et al., 91g:60013 and Sazonov, Vyacheslav Vasil'evich; et al., (91j:60003)
- Ushakov, N. G. *see* Suchkov, A. P., 91g:60012
- Vu Viet Yen. Strong convergence of two-parameter vector-valued martingales and martingales in the limit. 91f:60019
- Yakich, J. E. A note on limit theorems for perturbed empirical processes. 91c:60020
- Zaleskii, B. A. Accuracy of Gaussian approximation in Banach spaces. 91c:60021
- Probabilities of large deviations in a Hilbert space. 91h:60008
- (with Sazonov, Vyacheslav Vasil'evich; Uflyanov, Vladimir Vasil'evich). A precise estimate for the rate of convergence in the central limit theorem in a Hilbert space. 91g:60013
- *see also* Sazonov, Vyacheslav Vasil'evich; et al., (91j:60003)
- Zapala, August Michal. Marcinkiewicz-Zygmund law of large numbers in vector spaces. 91c:60022
- Zinn, Joel. *see* Giné, Evarist, 91b:60007 and 91m:60013

Items with secondary classifications in 60B12

- Avram, Florin (with Taqqu, Murad S.). Probability bounds for M -Skorohod oscillations. 91c:60002
- Bakšys, G. Approximation by accompanying laws. The case of a Hilbert space. 91f:60008
- Brooks, J. K. (with Dinculeanu, Nicolae). Regularity and the Doob-Meyer decomposition of abstract quasimartingales. 91f:60084
- Butsán, G. P. (with Kozachenko, M. Yu.). Limit theorems on the convergence of infinite products for parametric stochastic operator systems. 91c:60080
- Dinculeanu, Nicolae. *see* Brooks, J. K., 91f:60084
- Fazekas, István. On Banach spaces of type Φ . 91f:46022
- Fierro, Raúl. Central limit theorems for local martingales taking values in the space of tempered distributions. 91k:60029
- Giné, Evarist (with Zinn, Joel). Bootstrapping general empirical measures. 91g:60042
- Hess, Christian. Sur l'existence de sélections martingales et la convergence des surmartingales multivoques. (English summary) [Existence of martingale selectors and convergence of multivalued supermartingales] 91m:60083

- Kohatsu-Higa, Arturo Weak convergence of a sequence of stochastic processes related with U -statistics. 91m:60060
- Kozachenko, M. Yu. *see* Butsan, G. P., 91c:60080
- Ledoux, Michel (with Talagrand, Michel) Comparison theorems, random geometry and some limit theorems for empirical processes. 91c:60036
- Mikosch, T. Almost sure behavior of tail series in functional spaces. 91c:60103
- Pisaneis, S. I. Convergence of processes of diffusion type in a Hilbert space. (Russian) 91b:60197
- Talagrand, Michel *see* Ledoux, Michel, 91c:60036
- Taqqu, Murad S. *see* Avram, Florin, 91c:60002
- Utev, S. A. Sums of φ -mixing random variables. (Russian) 91g:60043
- Volt, Michael Central limit theorems for a class of polynomial hypergroups. 91k:60008
- Wang, Zhen Peng Convergence of vector-valued pramarts indexed by directed sets. (Chinese) 91c:60061
- Yin, Gang George On operator-valued mixingales. 91f:60108
- (with Zhu, Yun Min) On H -valued Robbins-Monro processes. 91f:62107
- Zhao, Xing Qiu The strong law of large numbers for B -valued martingales. (Chinese. English summary) 91j:60005
- Zhu, Yun Min *see* Yin, Gang George, 91f:62107
- Zinn, Joel *see* Giné, Evarist, 91g:60042
- Zitikis, Rikardas Asymptotic expansions for derivatives of the distribution function of the Anderson-Darling statistic. (Russian. English and Lithuanian summaries) 91a:62047

60B15 Probability measures on groups, Fourier transforms, factorization

- Bingham, Michael S. A Fourier-analytic proof that conditional probability distributions exist on a group. 91h:60009
- Born, Elke An explicit Lévy-Hintin formula for convolution semigroups on locally compact groups. 91a:60023
- Bouhail, Mostafa (with Gallardo, Léonard) Une loi des grands nombres et un théorème limite central pour les chaînes de Markov sur N^2 associées aux polynômes discaux. (English summary) [A law of large numbers and a central limit theorem for disk-polynomial Markov chains in N^2] 91c:60023
- Cartwright, Donald I. On the asymptotic behaviour of convolution powers of probabilities on discrete groups. 91a:60024
- Cerrito, P. B. A complete characterization of stochastic processes defined on regular semigroups with applications to stochastic models. 91h:60009
- Dani, S. G. (with McCrudden, M.) Embedding infinitely divisible probabilities on the affine group. 91h:60010
- Darling, R. W. R. (with Mukherjee, Arunava) Probability measures on semigroups of nonnegative matrices. 91m:60016
- Diacosis, Persi A generalization of spectral analysis with application to ranked data. 91a:60025
- Duffield, N. G. A large deviation principle for the reduction of product representations. 91d:60012
- Dunan, Jean-Louis (with Senateur, Henri) Characterization of the type of some generalizations of the Cauchy distribution. 91a:60026
- Edwards, David Albert A proof of the Lévy-Cramér continuity theorem for probability measures. 91h:60020
- Feinsilver, Philip (with Schott, René) An operator approach to processes on Lie groups. 91a:60027
- Feldman, G. M. Characterization of the Gaussian distribution on groups by the uniform distribution of linear statistics. (Russian) (see 91g:60003)
- The Cauchy distribution on abelian groups and its characterization. (Russian) 91h:60010
- Marcinkiewicz and Lukacs theorems on abelian groups. 91a:60028
- On a characterization of the Gaussian distribution on groups by the equidistribution of the monomial and linear statistics. 91a:60029
- * Арифметика вероятностных распределений в характеризационных задачах на абелевых группах. (Russian) [The arithmetic of probability distributions and characterization problems on abelian groups] 91h:60011
- Characterization of the Gaussian distribution on groups via the independence of linear statistics. 91m:60017
- On groups that admit characterization of the Gaussian distribution by the identical distribution of a term and linear statistics. 91h:60021
- Gabrielian, S. S. The Cauchy distribution on abelian groups. (Russian. English summary) 91m:60018
- Gallardo, Léonard *see* Bouhail, Mostafa, 91c:60023
- Gelfand, I. Ya. (with Margulis, G. A.) Lyapunov exponents of a product of random matrices. 91j:60014
- Gudynas, Pranas P. Generalizations of an approximation inequality. (Russian. English and Lithuanian summaries) 91h:60013
- Guivarc'h, Yves (with Raugi, Albert) Asymptotic behaviour of products of random matrices. (see 91j:60003)
- Hanoz, W. (with Nobel, S.) Convergence-of-types theorem for simply connected nilpotent Lie groups. 91d:60013
- Hoyer, Herbert Infinitely divisible probability measures on a discrete Gelfand pair. 91k:60014
- Högnäs, Göran Invariant measures and random walks on the semigroup of matrices. (see 91f:60002)
- Margulis, G. A. *see* Gelfand, I. Ya., 91j:60014
- McCrudden, M. *see* Dani, S. G., 91h:60010
- Mindlin, D. S. Convolutions of random measures on a compact topological semigroup. 91c:60024
- Mukherjee, Arunava Convolution products of nonidentical distributions on a compact abelian semigroup. 91j:60015
- *see also* Darling, R. W. R., 91m:60016
- Nobel, S. *see* Hanoz, W., 91d:60013
- Ohring, Peter A central limit theorem on Heisenberg type groups. 91m:60019
- Ofshanski, I. D. On the Khinchin formula for compact hypergroups. 91a:60030
- Racher, Svetlozar T. (with Yukich, J. E.) Smoothing metrics for measures on groups. (French summary) 91g:60014
- Raugi, Albert *see* Guivarc'h, Yves, (91j:60003)
- Richards, Donald St. P. The central limit theorem on spaces of positive definite matrices. 91a:60031
- Schott, René *see* Feinsilver, Philip, 91a:60027
- Senateur, Henri *see* Dunan, Jean-Louis, 91a:60026
- Szekely, Gábor J. (with Zeng, Wei Bin) The Choquet-Deny convolution equation $\mu = \mu * \sigma$ for probability measures on abelian semigroups. 91c:60025
- Tarladze, V. I. Topological description of characteristic functionals on some groups. 91f:60012
- Trekhina, I. P. A note on stability of the Cramér theorem on the group $\mathbb{R} \times \mathbb{Z}_2$. 91h:60012
- Tutubalin, V. N. Weakly symmetric measures on a group of unimodular matrices. (Russian) 91k:60015
- Volt, Michael A law of the iterated logarithm for a class of polynomial hypergroups. 91k:60016
- Yukich, J. E. *see* Racher, Svetlozar T., 91g:60014
- Zempléni, András On the heredity of Hun and Hungarian property. 91j:60016
- Zeng, Wei Bin *see* Székely, Gábor J., 91c:60025
- Zimpel, Zbigniew Invariant Markov processes on compact groups and correlation functions. 91k:60017

Items with secondary classifications in 60B15

- (Abramov, Yu. A.) *see* Mathematical methods in the theory of computer-aided design systems, robots and systems, 91k:93005
- Albeverio, Sergio (with Holden, Helge; Hoch-Krohn, Raphael J.; Kolarud, Torbjörn) Representation and construction of multiplicative noise. 91h:60040
- Bougerol, Philippe Limit theorem for products of random matrices with Markovian dependence. (see 91j:60003)
- Chassagné, Philippe Processus de Markov transitifs et marches aléatoires sur les groupes. (English summary) [State-transitive Markov processes and random walks on groups] 91m:60125
- Derriennic, Yves (with Lin, Michael) On pointwise convergence in random walks. 91c:60287
- Feinsilver, Philip Generalized convolutions and probability theory based on the q -Heisenberg algebra. (see 91j:60003)
- Girko, V. L. Asymptotics of the distribution of the spectrum of random matrices. 91h:60027
- * Theory of random determinants. 91k:60001
- Guimier, Françoise Simplicité du spectre de Liapounoff d'un produit de matrices aléatoires sur un corps ultramétrique. (English summary) [Simplicity of the Lyapunov spectrum of a product of random matrices over an ultrametric field] 91d:28030
- Hoch-Krohn, Raphael J. *see* Albeverio, Sergio; et al., 91h:60040
- Högnäs, Göran A note on the semigroup of analytic mappings with a common fixed point. 91d:43001
- Holden, Helge *see* Albeverio, Sergio; et al., 91h:60040
- Ismagilov, R. S. The spectrum of dynamical systems and the Riesz products. 91h:22011
- Jardas, C. (with Sarapa, N.) Some ergodic type theorems for bounded operators and probability measures. 91a:47011
- Khekhlov, Yu. S. Stable distributions on the Heisenberg group. 91c:43001
- Kolarud, Torbjörn *see* Albeverio, Sergio; et al., 91h:60040
- Küchler, Uwe (with Lauritzen, Steffen L.) Exponential families, extreme point models and minimal space-time invariant functions for stochastic processes with stationary and independent increments. 91h:62201
- Lauritzen, Steffen L. *see* Küchler, Uwe, 91h:62201
- Leguesdon, J. P. Marche aléatoire sur le semi-groupe des contractions de \mathbb{R}^d . Cas de la marche aléatoire sur \mathbb{R} , avec choc élastique en zéro. (English summary) [Random walk on the semigroup of contractions of \mathbb{R}^d . Case of a random walk on \mathbb{R} , with elastic barrier at zero] 91d:60154
- Lin, Michael *see* Derriennic, Yves, 91c:60287
- Malyarenko, A. A. Multidimensional covariant random fields on commutative topological groups. 91h:60135
- Moran, William (with Willis, George A.) Boundaries and modular ideals on locally compact groups. 91j:43006
- Peigné, Marc Marches aléatoires à pas markoviens sur le semi-groupe des contractions de \mathbb{R}^d . (English summary) [Random walk with Markovian increments on the contraction semigroup of \mathbb{R}^d] 91c:60199
- Rao, Calyampudi Radhakrishna (with Shanbhag, D. N.) Further extensions of the Choquet-Deny and Deny theorems with applications in characterization theory. 91a:62033
- Sarapa, N. *see* Jardas, C., 91a:47011
- Savári, Zoltán Definierbare Funktionen auf Gruppen. [Definitizable functions on groups] 91g:43005
- Shanbhag, D. N. *see* Rao, Calyampudi Radhakrishna, 91a:62033
- Shur, M. G. On limit theorems for ratios generated by random walks in homogeneous spaces. II. 91d:60165
- Erratum: "On limit theorems for ratios generated by random walks in homogeneous spaces. II" [Teor. Veroyatnost. i Primenen. 34 (1989), no. 3, 516–527; MR 91d:60165]. (Russian) (Not in MR)
- Siebert, Eberhard Semistable convolution semigroups and the topology of contraction groups. 91h:43004
- Sordani, Paolo M. (with Woess, Wolfgang) Amenability, unimodularity, and the spectral radius of random walks on infinite graphs. 91m:43002
- Urbanik, K. Quasi-regular generalized convolutions. 91d:60035
- Volt, Michael Central limit theorems for a class of polynomial hypergroups. 91k:60008
- Central limit theorems for random walks on N_0 that are associated with orthogonal polynomials. 91j:60117
- von Waldenfels, Wilhelm The Markov process of total spins. 91j:46078
- Illustration of the quantum central limit theorem by independent addition of spins. 91j:46079

Willis, George A. *see* Moran, William, 91j:43006

Woens, Wolfgang *see* Soardi, Paolo M., 91m:43002

Zhdanova, Yu. D. Distribution of the time of attainment for a random walk on a finite solvable group. 91a:60183

Items listed otherwise than by author

Mathematical methods in the theory of computer-aided design systems, robots and systems
★ Математические методы в теории САПР, роботов и систем. (Russian) [Mathematical methods in the theory of computer-aided design systems, robots and systems] 91k:93005

60B99 None of the above, but in this section

Hazad, W. On the decomposability group of a convolution semigroup. 91d:60014

Hsiang, W. M. Binary operations on spaces of distribution functions. (Spanish summary) 91i:60022

Kumar, Ajay¹ (with Singh, Ajit Iqbal) A dichotomy theorem for random walks on hypergroups. 91d:60015

Le Page, Émile Régularité du plus grand exposant caractéristique des produits de matrices aléatoires indépendantes et applications. (English summary) [Regularity of the first characteristic exponent of products of independent random matrices, and applications] 91d:60016

Lipovan, Octavian A probabilistic approach to the concept of submeasurability and the decomposition theorems for Δ -additive multivalued set mappings. (Romanian. English summary) 91f:60013

Papageorgiou, Nikolaos S. On the continuity of the vector valued and set valued conditional expectations. 91b:60011

— Convergence and representation theorems for set valued random processes. 91a:60032

Riss, E. A. Measures that coincide on balls. (Russian) 91m:60020

Samorodnitsky, Gennady (with Taqqu, Murad S.) Multiple stable integrals of Banach-valued functions. 91d:60017

Singh, Ajit Iqbal *see* Kumar, Ajay¹, 91d:60015

Stengle, Gilbert (with Yukich, J. E.) Some new Vapnik-Chervonenkis classes. 91f:60014

Taqqu, Murad S. *see* Samorodnitsky, Gennady, 91d:60017

Yukich, J. E. *see* Stengle, Gilbert, 91f:60014

Items with secondary classifications in 60B99

Carnal, Henri (with Dozzi, M.) On a decomposition problem for multivariate probability measures. 91c:60016

Choukairi-Dini, Ahmed M-convergence des martingales (asymptotiques) multivoques. Épi-martingales. (English summary) [M-convergence of multivalued (asymptotic) martingales. Epimartingales] 91d:60109

Dozzi, M. *see* Carnal, Henri, 91c:60016

Florescu, Liviu C. Probabilistic convergence structures. 91d:54035

Foreman, Matthew Amenable group actions on the integers; an independence result. 91f:03104

Goderis, D. (with Verbeure, A.; Vets, P.) Noncommutative central limits. 91b:46057

Henz, Ewa Strong laws of large numbers for orthogonal sequences in von Neumann algebras. 91c:46089

— Orthogonal series and strong laws of large numbers in von Neumann algebras. 91c:46088

— The Cesàro means and strong laws of large numbers for orthogonal sequences in von Neumann algebras. 91c:46087

Koo, Hui-Wen *see* Shanthikumar, J. George, 91h:60023

Liu, Pei De Davis inequalities for B -valued martingales and geometric properties of Banach spaces. (Chinese) 91d:60008

Rydzynska, Ewa Random variables on Boolean and Heyting algebras and their numerical characteristics. 91m:28005

Sánchez Soler, M. On the functional equation $H(\tau(F, G), \zeta(F, G)) = H(F, G)$. 91c:39015

Shanthikumar, J. George (with Koo, Hui-Wen) On uniform conditional stochastic order conditioned on planar regions. 91h:60023

Stinchcombe, Maxwell B. Bayesian information topologies. 91a:90035

Verbeure, A. *see* Goderis, D.; et al., 91b:46057

Vets, P. *see* Goderis, D.; et al., 91b:46057

60C05 Combinatorial probability

Aldous, David J. The harmonic mean formula for probabilities of unions: applications to sparse random graphs. 91f:60023

— The random walk construction of uniform spanning trees and uniform labelled trees. 91h:60013

— The continuum random tree. I. 91i:60024

Banjević, Dragan On order statistics in waiting time for runs in Markov chains. 91f:60015

Berg, Sven (with Mutsaers, Lyuben R.) Random mappings with an attracting center: Lagrangian distributions and a regression function. 91f:60025

Blom, Gunnar (with Holst, Lars) Some properties of similar pairs. 91g:60015

Brandt, Andreas (with Brandt, Manfred; Sulanke, Hannelore) A representation of a discrete distribution by its binomial moments. 91c:60026

Brandt, Manfred *see* Brandt, Andreas; et al., 91c:60026

Britikov, B. E. Limit behavior of a number of trees of a given size in a random forest of nonrooted trees. (see 91j:60002)

Chen, Robert W. A circular property of the occurrence of sequence patterns in the fair coin-tossing process. 91f:60016

Durrett, Richard (with Kesten, Harry; Waymire, Edward C.) On weighted heights of random trees. 91m:60021

Dutta, S. K. *see* Nandi, S. B., (Not in MR)

Ehnehsahrashoob, M. (with Sobel, Milton) Sooner and later waiting time problems for Bernoulli trials: frequency and run quotas. 91c:60027

Filatov, D. A. *see* Grusho, A. A., (91j:60002)

Frank, Ove (with Nowicki, Krzysztof) On entropies of occupancy distributions. (see 91k:95001)

Guidenko, V. M. (with Novikov, A. E.) Ordering of combinations according to probabilities of their appearance in realizations of an equiprobable multinomial scheme on a line and a circle. (Russian) (see 91b:60003)

Grusho, A. A. (with Filatov, D. A.) Random mappings in cluster analysis. (Russian) (see 91j:60002)

Hamouda, K. A. I. *see* Yehia, A. Y., (Not in MR)

Harris, Bernard Contributions to the theory of random mappings. 91f:60026

— Poisson limits for generalized random allocation problems. 91a:60033

Holst, Lars A note on Banach's match box problem. 91d:60018

— A circle covering problem and DNA breakage. 91f:60027

— *see also* Blom, Gunnar, 91g:60015

Ivanova, T. V. An allocation scheme and particle evolutions. (Russian) (see 91j:60002)

Ivchenko, G. I. A model of random allocations (the covering problem). (Russian) (see 91b:60003)

— Decomposable statistics in an inverse occupancy problem. 91m:60022

Joe, Harry A winning strategy for lotto games? (French summary) (Not in MR)

Justicz, Joyce (with Scheinerman, Edward R.; Winkler, Peter M.) Random intervals. 91m:60023

Kesten, Harry *see* Durrett, Richard; et al., 91m:60021

Khusanbaev, Ya. M. The Poisson theorem for combinatorial sums. (Russian) 91d:60019

Kingman, J. F. C. Some random collections of finite subsets. 91j:60017

Kolchin, V. F. Random mappings and branching processes. (see 91j:60003)

Kounias, Stratis (with Sotirakoglou, Kiki) Bonferroni inequalities for at least m events. 91b:60028

Koutras, M. Two classes of numbers appearing in the convolution of binomial-truncated Poisson and Poisson-truncated binomial random variables. (Not in MR)

Kupka, Joseph The distribution and moments of the number of components of a random function. 91c:60029

Ling, K. D. On geometric distributions of order (k_1, \dots, k_m) . 91c:60030

Lyapkov, L. A. (with Sevast'yanov, B. A.) The probability distribution of the permanent of a random Boolean matrix. (Russian) 91f:60028

Masol, V. I. Asymptotic behavior of some statistics of a $(0, 1)$ -vector. (Russian) 91f:60029

— Random binary sequences with a given number of steps. 91c:60031

Mathis, Frank H. A generalized birthday problem. (Not in MR)

Meir, Amram (with Moon, J. W.) Bounds for the probability of winning a series competition. 91f:60017

Memon, V. V. (with Prasad, Badri) Estimate of empty cell probabilities in classical occupancy problem. 91d:60020

Mikhailov, V. G. Asymptotic normality of decomposable statistics from the frequencies of m -chains. 91d:60021

Montágh, Balázs A simple proof and a generalization of an old result of Chung and Feller. 91m:60024

Montgomery-Smith, Stephen The distribution of Rademacher sums. 91a:60034

Moon, J. W. *see* Meir, Amram, 91f:60017

Morozova, N. M. A randomized scheme for dependent allocations. (Russian) (see 91j:60002)

— *see also* Zhulenev, S. V., (91b:60003)

Mutsaers, Lyuben R. Evolution of random mappings. (see 91j:60003)

— *see also* Berg, Sven, 91f:60025

Nandi, S. B. (with Dutta, S. K.) Some developments in the generalized Bell distribution. (Not in MR)

Novikov, A. E. *see* Guidenko, V. M., (91b:60003)

Nowicki, Krzysztof *see* Frank, Ove, (91k:95001)

Osadchii, V. Yu. (with Protasov, A. M.) Random levels in a Pólya scheme. (Russian) (see 91b:60003)

Panaretos, J. Some properties and applications of the stuttering generalized Waring distribution. 91f:60018

Pavlov, A. I. Limit distribution of a number of cycles of a class of permutations. (Russian) (see 91j:60002)

Pavlov, Yu. L. On the distribution of the number of vertices in strata of a random forest. (see 91j:60003)

— Random mappings with constraints on the multiplicity of vertices and the number of components. (Russian) (see 91j:60002)

Pemantle, Robin A time-dependent version of Pólya's urn. 91f:60030

Pittel, Boris (with Rubin, Herman) How many random questions are necessary to identify n distinct objects? 91i:60031

Prasad, Badri *see* Memon, V. V., 91d:60020

Protasov, A. M. *see* Osadchii, V. Yu., (91b:60003)

Rhee, WanSeo T. A concentration inequality for maximum matching size in random graphs. 91h:60032

Rubin, Herman *see* Pittel, Boris, 91i:60031

Scheinerman, Edward R. *see* Justicz, Joyce; et al., 91m:60023

Schilling, Mark F. The longest run of heads. (Not in MR)

Sevast'yanov, B. A. *see* Lyapkov, L. A., 91f:60028

Sirazhdinov, S. Kh. On probability methods in combinatorial analysis. (see 91j:60003)

Sobel, Milton *see* Ehnehsahrashoob, M., 91c:60027

Sotirakoglou, Kiki *see* Kounias, Stratis, 91b:60028

Stadje, Wolfgang A nearly degenerate random variable occurring in an occupancy problem. 91d:60022

Steele, J. Michael Seedlings in the theory of shortest paths. 91m:60025

Sulanke, Hannelore *see* Brandt, Andreas; et al., 91c:60026

Szyumov, A. M. The probability of large deviations for the number of cells that contain r particles in a multinomial allocation scheme. (Russian) 91d:60023

Volynets, L. M. A generalized allocation scheme, and the number of cycles in a random permutation. (Russian) (see 91j:60002)

Waymire, Edward C. *see* Durrett, Richard; et al., 91m:60021

Winkler, Peter M. *see* Justicz, Joyce; et al., 91m:60023

Yan, Jing Ke Duplication combination and duplication experimentation. (Chinese) (Not in MR)

- Yehia, A. Y. (with Hamouda, K. A. I.) Factorial study of a continuous probability product measure. (Arabic summary) (Not in MR)
 Zhilenev, S. V. (with Morozova, N. M.) A direct method for detecting the Poisson property in allocation problems. (Russian) (see 91b:60003)

Items with secondary classifications in 60C05

- Antzoulakos, Demetris L. see Philippou, Andreas N., 91f:60024 and 91f:62094
 Arratia, Richard (with Lander, Eric S.) The distribution of clusters in random graphs. 91a:05090
 Azharov, T. A. (with Yusupova, A. K.) A minimax problem on the limit behavior of the V. I. Romanovskii distribution. (Russian) (Not in MR)
 Baldi, Pierre (with Rinott, Yosef; Stein, Charles M.) A normal approximation for the number of local maxima of a random function on a graph. 91f:60043
 Barbour, A. D. (with Karoński, Michał; Ruciński, Andrzej) A central limit theorem for decomposable random variables with applications to random graphs. 91m:60038
 Bennett, Graham Coin tossing and moment sequences. 91m:44005
 Bikeliene, Vanda Analysis of the distributions of discrete spacings. Poisson approximation. (Russian) 91a:60058
 Borovkov, V. P. On the asymptotic theory of decomposable statistics based on frequencies. (Russian) 91f:60045
 Britikov, V. E. The structure of a random graph near a critical point. 91c:05162
 Bruss, F. Thomas (with Jammalamadaka, S. Rao; Zhou, Xian) On an interval splitting problem. 91m:60027
 Chen, Neng Hui The origin of Bernoulli numbers and their applications in probability distribution calculations. (Chinese) (Not in MR)
 Consul, P. C. see Kamoye, Kiya Felix, 91a:60135
 Cooper, Colin (with Frieze, A. M.) The limiting probability that α -in, β -out is strongly connected. 91g:05118
 Csáki, Endre (with Mohanty, S. G.; Saran, Jagdish) On random walks in a plane. 91g:60081
 Diaconis, Persi A generalization of spectral analysis with application to ranked data. 91a:60025
 — (with Graham, Ronald L.; Morrison, J. A.) Asymptotic analysis of a random walk on a hypercube with many dimensions. 91g:60078
 Domański, Czesław (with Tomaszewicz, Andrzej S.) Conditional number-of-runs and length-of-run distributions. (see 91f:90007)
 Donnelly, Peter (with Whitt, Ward) On reinforcement-depletion compartmental urn models. 91d:60216
 Dutka, Michael Central limit theorems for infinite urn models. 91a:60061
 Finkelstein, Mark (with Tucker, Howard G.) A law of small numbers for a mutation process. 91a:60094
 Flajolet, Philippe (with Gardy, Danièle; Thimonier, Loys) Random allocations and probabilistic languages. 91a:68127
 — (with Odlyzko, Andrew M.) Random mapping statistics. (see 91h:94003)
 — (with Soria, Michèle) Gaussian limiting distributions for the number of components in combinatorial structures. 91c:05012
 Frieze, A. M. (with McDiarmid, C. J. H.) On random minimum length spanning trees. 91g:05092
 — see also Cooper, Colin, 91g:05118
 Galambos, Janos (with Xu, Yuan) A new method for generating Bonferroni-type inequalities by iteration. 91f:60051
 Gardy, Danièle see Flajolet, Philippe; et al., 91a:68127
 Godbole, Anant P. Degenerate and Poisson convergence criteria for success runs. 91h:60028
 Goldie, Charles M. Records, permutations and greatest convex minorants. 91a:60138
 Graham, Ronald L. see Diaconis, Persi; et al., 91g:60078
 Gupta, Vijay K. (with Mesa, Oscar J.; Waymire, Edward C.) Tree-dependent extreme values: the exponential case. 91d:60045
 Hoppe, Fred M. (with Seneta, Eugene) Bonferroni-type inequalities and the methods of indicators and polynomials. 91c:60052
 Indira, N. K. see Menon, V. V., 91m:60045
 Inoue, Hideyuki see Niki, Naoto; et al., 91f:60041
 Jammalamadaka, S. Rao see Bruss, F. Thomas; et al., 91m:60027
 Janson, Svante (with Łuczak, Tomasz; Ruciński, Andrzej) An exponential bound for the probability of nonexistence of a specified subgraph in a random graph. 91m:05168
 — A functional limit theorem for random graphs with applications to subgraph count statistics. 91f:60095
 Kalugin, I. B. The number of components in a random bipartite graph. 91c:05164
 Kamoye, Kiya Felix (with Consul, P. C.) A stochastic urn model for the generalized negative binomial distribution. 91e:60135
 Karoński, Michał see Barbour, A. D.; et al., 91m:60038
 Klaassen, Chris A. J. Random and fixed replacement sampling plans. 91f:62018
 Knuth, Donald E. (with Motwani, Rajeev; Pittel, Boris) Stable husbands. 91m:05007
 Koumias, Stratis (with Sotirakoglou, Kiki) Bonferroni bounds revisited. 91a:60051
 Lander, Eric S. see Arratia, Richard, 91a:05090
 Łuczak, Tomasz see Janson, Svante; et al., 91m:05168
 Mărgăritescu, Eugen Improved Bonferroni-Galambos-type inequalities. 91m:60034
 McDiarmid, C. J. H. see Frieze, A. M., 91g:05092
 Menon, V. V. (with Indira, N. K.) A Poisson approximation in an urn model with indistinguishable balls. 91m:60045
 Mesa, Oscar J. see Gupta, Vijay K.; et al., 91d:60045
 Mikhailov, V. G. Asymptotic normality of symmetric decomposable statistics in an inhomogeneous scheme. (Russian) 91c:60075
 Mirakshmedov, Sh. A. Randomized decomposable statistics in a generalized allocation scheme over a countable set of cells. (Russian) 91e:60076
 Mohanty, S. G. see Csáki, Endre; et al., 91g:60081
 Móri, Tamás F. On the waiting time till each of some given patterns occurs as a run. 91m:60064
 Morrison, J. A. see Diaconis, Persi; et al., 91g:60078
 Motwani, Rajeev see Knuth, Donald E.; et al., 91m:05007
 Mutsaers, Lyuben R. Relations between moments of characteristics of connected and disconnected mappings of finite sets and some applications. 91c:05166
 Nakagawa, Shigekazu see Niki, Naoto; et al., 91f:60041
 Niki, Naoto (with Nakagawa, Shigekazu; Inoue, Hideyuki) Cumulants of random sum distributions. 91f:60041
 Nishimura, Kazuo (with Sibuya, Masaaki) Probability to meet in the middle. 91f:68036
 Nowicki, Krzysztof Asymptotic normality of triad counts in random digraphs. 91h:05097
 Odlyzko, Andrew M. see Flajolet, Philippe, (91h:94003)
 Philippou, Andreas N. (with Antzoulakos, Demetris L.) Multivariate distributions of order k on a generalized sequence. 91f:60024
 — (with Antzoulakos, Demetris L.; Tripsiannis, Gregory A.) Multivariate distributions of order k . II. 91f:62094
 Pipel, Shaly Descending subsequences of random permutations. 91d:05001
 Pittel, Boris see Knuth, Donald E.; et al., 91m:05007
 Poleski, V. P. Estimates for the probability of the connectivity of a random graph. 91g:05119
 Rejall, Ali Asymptotic normality of the area under a random increasing lattice polygon. 91g:60033
 Rinott, Yosef see Baldi, Pierre; et al., 91f:60043
 Ruciński, Andrzej (with Voigt, Bernd) A local limit theorem for generalized Stirling numbers. 91j:05005
 — see also Janson, Svante; et al., 91m:05168 and Barbour, A. D.; et al., 91m:60038
 Saran, Jagdish see Csáki, Endre; et al., 91g:60081
 Sendov, Blagovest Kh. Near graphs in the plane. (Bulgarian) 91h:05109
 Seneta, Eugene see Hoppe, Fred M., 91c:60052
 Sibuya, Masaaki see Nishimura, Kazuo, 91f:68036
 Sidorenko, A. F. Extremal problems for k -colored graphs and unimprovable inequalities for pairs of random elements. 91a:05061
 Soria, Michèle see Flajolet, Philippe, 91c:05012
 Sotirakoglou, Kiki see Koumias, Stratis, 91a:60051
 Stein, Charles M. see Baldi, Pierre; et al., 91f:60043
 Stipakhno, I. L. Transmission of symbols by groups. (Russian) 91j:94003
 Thimonier, Loys see Flajolet, Philippe; et al., 91a:68127
 Timashev, A. N. Multidimensional local theorems on large deviations in an equiprobable allocation scheme. (Russian) 91m:60050
 Tomaszewicz, Andrzej S. see Domański, Czesław, (91f:90007)
 Tripsiannis, Gregory A. see Philippou, Andreas N.; et al., 91f:62094
 Tucker, Howard G. see Finkelstein, Mark, 91a:60094
 Voigt, Bernd see Ruciński, Andrzej, 91j:05005
 Waymire, Edward C. see Gupta, Vijay K.; et al., 91d:60045
 Whitt, Ward see Donnelly, Peter, 91d:60216
 Xu, Yuan see Galambos, Janos, 91f:60051
 Yusupova, A. K. see Azharov, T. A. (Not in MR)
 Zhou, Xian see Bruss, F. Thomas; et al., 91m:60027

60D05 Geometric probability, stochastic geometry, random sets [see also 52A22, 53C65]

- Affentranger, Fernando Random spheres in a convex body. 91f:60033
 Aldous, David J. Stein's method in a two-dimensional coverage problem. 91c:60014
 Ambartsyan, R. V. Stochastic approximations of convex bodies by polyhedrons. (see 91j:60003)
 — (with Mecke, Joseph; Stoyan, Dietrich) ★ Введение в стохастическую геометрию. (Russian) [Introduction to stochastic geometry] 91m:60026
 — (with Nagel, Werner) A disturbed Voronoi model in the plane. 91e:60032
 Barbut, Erol (with Bialostocki, Arie) Probabilistic aspects of some problems in combinatorial geometry. 91a:60035
 Bialostocki, Arie see Barbut, Erol, 91a:60035
 Bollobás, Béla (with Brightwell, Graham) Box-spaces and random partial orders. 91f:60019
 Brightwell, Graham see Bollobás, Béla, 91f:60019
 Brozos, Henk Convergence in mean of some characteristics of the convex hull. 91h:60014
 Bruss, F. Thomas (with Jammalamadaka, S. Rao; Zhou, Xian) On an interval splitting problem. 91m:60027
 Coleman, Rodney Random sections of a sphere. (French summary) 91h:60015
 Cowan, Richard Objects arranged randomly in space: an accessible theory. 91f:60020
 Domb, Cyril On Hammersley's method for one-dimensional covering problems. 91f:60034
 Donati-Martin, C. Le problème de Buffon-Syngé pour une corde. (English summary) [The Buffon-Syngé problem for a string] 91j:60018
 Dryden, I. L. see Mardia, K. V., 91f:60036
 Dwyer, Rex A. On the convex hull of random points in a polytope. 91h:60012
 — Random convex hulls in a product of balls. 91h:60018
 Evans, Steven N. Rescaling the vacancy of a Boolean coverage process. 91d:60024
 Gerrois, A. (with Lichtenberg, M.; Oger, L.; Guyon, E.) Coordination number of disordered packings of identical spheres. 91f:60017
 — see also Oger, L.; et al., 91g:60016
 Goodey, Paul (with Howard, Ralph) Processes of flats induced by higher-dimensional processes. 91d:60025
 Gundersen, H. J. G. see Jensen, E. B.; et al., 91a:60036
 Guyon, E. see Oger, L.; et al., 91g:60016 and Gerrois, A.; et al., 91g:60017
 Heinrich, Lothar (with Schwandke, Annette) Some remarks on second-order-analysis of planar fibre processes by line intersections. 91f:60035
 Howard, Ralph see Goodey, Paul, 91d:60025
 Huang, Jian An The problem of casting the Buffon needle in the plane and its generalization. (Chinese. English summary) (Not in MR)
 Jammalamadaka, S. Rao see Bruss, F. Thomas; et al., 91m:60027
 Jensen, E. B. (with Kieu, K.; Gundersen, H. J. G.) Stereological estimation of second- and higher-order properties of random sets. 91a:60036

- Kahane, Jean-Pierre Recouvrement par des simplexes homothétiques aléatoires. (English summary) [Covering by random homothetic simplexes] 91e:60033
- Kendall, David G. A survey of the statistical theory of shape. 91a:60037
- Khamis, H. J. Buffon's needle problem on radial lines. (Not in MR)
- Kieu, K. see Jensen, E. B.; et al., 91a:60036
- Le, Hui Ling Random spherical triangles. I. Geometrical background. 91h:60016
- Random spherical triangles. II. Shape densities. 91h:60017
- Lichtenberg, M. see Oger, L.; et al., 91g:60016 and Gervois, A.; et al., 91g:60017
- Lloyd, Christopher J. Some further results on random splitting of an interval. 91a:60038
- Mardia, K. V. (with Dryden, I. L.) Shape distributions for landmark data. 91h:60036
- Mecke, Joseph Random r -flats meeting a ball. 91d:60026
- see also Ambartsumyan, R. V.; et al., 91m:60026
- Müller, Olaf A fast statistical procedure solving Wicksell's corpuscle problem. (German and Russian summaries) 91d:60027
- Mecke, Letz Chord length distributions of the Poisson-Voronoi tessellation in higher-dimensional spaces. (see 91m:60007)
- Nagel, Werner see Ambartsumyan, R. V., 91e:60032
- Oger, L. (with Lichtenberg, M.; Gervois, A.; Guyon, E.) Determination of the coordination number in disordered packings of equal spheres. 91g:60016
- see also Gervois, A.; et al., 91g:60017
- Ohser, Joachim see Stoyan, Dietrich; et al., 91j:60019
- Pfeifer, Richard E. Maximum and minimum sets for some geometric mean values. 91d:60028
- Rhee, WanSoo T. A note on optimal bin packing and optimal bin covering with items of random size. 91h:60018
- Rizzo, Sebastiano Buffon-type geometric probability for lattices with nonconvex fundamental cell. (Italian. English summary) 91k:60019
- Rosen, Dennis Coverage of a square lattice by an inclined rectangle. 91h:60013
- Ross, David Andrew Selectionable distributions for a random set. 91h:60037
- Santaló, Luis A. Random mosaics. (Spanish) 91d:60029
- Saxl, Ivan ★ Stereology of objects with internal structure. 91k:60020
- Schwandtke, Annette Some remarks on stereological estimation of particle densities. 91a:60039
- see also Heinrich, Lothar, 91i:60035
- Stefanescu, Ștefan V. On some problems in geometric probability. (Not in MR)
- Stoyan, Dietrich (with von Wolfersdorf, Lothar; Ohser, Joachim) Stereological problems for spherical particles—second-order theory. 91j:60019
- Stereological formulae for a random system of nonintersecting spheres. 91g:60018
- see also Ambartsumyan, R. V.; et al., 91m:60026
- (Sukiasyan, G. S.) see Ambartsumyan, R. V.; et al., 91m:60026
- Sutton, Clifton Asymptotic packing densities for two-dimensional lattice models. 91d:60030
- Vitale, Richard A. Symmetric statistics and random shape. (see 91j:60003)
- The Brunn-Minkowski inequality for random sets. 91h:60019
- van Wel, Berthold F. The convex hull of a uniform sample from the interior of a simple d -polytope. 91a:60040
- Whittaker, Joe Random triangles. 91i:60038
- Wiesacker, John André Intersections of random curves and surfaces. (see 91j:60003)
- von Wolfersdorf, Lothar see Stoyan, Dietrich; et al., 91j:60019
- Zähle, M. Random curvature currents and generalised Regge calculus. (see 91j:60003)
- Wicksell's corpuscle problem in spherical spaces. 91i:60039
- Zhou, Xian see Brass, F. Thomas; et al., 91m:60027
- Items with secondary classifications in 60D05
- Abrahamson, Karl On the modality of convex polygons. 91k:52009
- Albrecht, Matthias see Näther, Wolfgang, 91m:62122
- Aldous, David J. Threshold limits for cover times. 91m:60123
- Bárány, Imre Intrinsic volumes and f -vectors of random polytopes. 91e:52008
- Bookstein, Fred L. (with Sampson, Paul D.) Statistical models for geometric components of shape change. (Not in MR)
- Coffman, E. G., Jr. (with Shor, Peter W.) A simple proof of the $O(\sqrt{n} \log^{1/4} n)$ upright matching bound. 91m:60076
- Duplantier, Bertrand Two-dimensional polymers and conformal invariance. 91g:82060
- Falconer, K. J. The horizon problem for random surfaces. 91m:60090
- Fan, Ai Hua ★ Décompositions de mesures et recouvrements aléatoires. (French) [Decompositions of measures and random coverings] 91e:60009
- Glendinning, R. H. The convex hull of a dependent vector-valued process. (Not in MR)
- Gol'dfild, S. M. see Nagaev, A. V., 91k:60032
- Grenander, U. (with Keenan, Daniel M.) A computer experiment in pattern theory. 91a:68229
- Hall, Peter Gavin (with Keenan, Daniel M.) Bootstrap methods for constructing confidence regions for hands. 91a:68230
- Helgerson, Stanislaw Some representations of random sets. (Not in MR)
- Hess, Christian Convergence of conditional expectations for unbounded random sets, integrands and integral functionals. 91i:28006
- Ivchenko, G. I. A model of random allocations (the covering problem). (Russian) (see 91h:60003)
- Justicz, Joyce (with Scheinerman, Edward R.; Winkler, Peter M.) Random intervals. 91m:60023
- Kahane, Jean-Pierre Random multiplications, random coverings, multiplicative chaos. 91e:60152
- Keenan, Daniel M. see Grenander, U., 91a:68229 and Hall, Peter Gavin, 91a:68230
- Kendall, David G. Random Delaunay simplexes in \mathbb{R}^n . (Not in MR)
- Larsson, Per L'ensemble différence de deux ensembles de Cantor aléatoires. (English summary) [The difference set of two random Cantor sets] 91d:60211
- Le, Hui Ling A stochastic calculus approach to the shape distribution induced by a complex normal model. 91j:58176
- Liu, Regina Y. On a notion of data depth based on random simplices. 91d:62068
- Mathai, A. M. (with Pedersen, G.) Some common structures of distribution problems in geometric probabilities and multivariate statistical analysis. 91b:62097

- Melchakov, I. S. Empirical associated functionals and their application to the analysis of stable random sets and processes. 91k:60041
- Characterization of universal classes in the Glivenko-Cantelli theorem for random closed sets. 91a:60019
- Möller, Jesper On the rate of convergence of spatial birth-and-death processes. 91e:60150
- Nagaev, A. V. (with Gol'dfild, S. M.) The limit theorem for the uniform distribution on the circumference. 91k:60032
- Naiman, Daniel Q. Volumes of tubular neighborhoods of spherical polyhedra and statistical inference. 91k:60024
- Näther, Wolfgang (with Albrecht, Matthias) Linear regression with random fuzzy observations. 91m:62122
- Okhanyan, V. K. On homogeneous processes of lines in the plane. (see 91j:60003)
- Pederzoli, G. see Mathai, A. M., 91b:62097
- Petunin, Yu. I. (with Semeiko, N. G.) Calculation of the first-order moment measure of a random segment process on a two-dimensional Euclidean sphere. (Russian) 91m:60086
- Quine, M. P. (with Robinson, John) A linear random growth model. 91i:60068
- Robinson, John see Quine, M. P., 91i:60068
- Sampson, Paul D. see Bookstein, Fred L., (Not in MR)
- Scheinerman, Edward R. see Justicz, Joyce; et al., 91m:60023
- Semeiko, N. G. see Petunin, Yu. I., 91m:60086
- Shor, Peter W. see Coffman, E. G., Jr., 91m:60076
- Sukiasyan, G. S. Randomizable point systems and parabolic lattices. (Russian. English and Armenian summaries) 91i:60129
- Taufel, Eberhard Kinematische Berührformeln in Räumen konstanter Krümmung. II. [Kinematic contact formulas in spaces of constant curvature. II] 91f:53074
- Weil, Wolfgang Point processes of compact sets. (see 91j:60003)
- Iterations of translative integral formulae and nonisotropic Poisson processes of particles. 91k:53079
- Winkler, Peter M. see Justicz, Joyce; et al., 91m:60023

60Exx Distribution theory [see also 62Exx, 62Hxx]

60E05 Distributions: general theory

- Alamatsaz, M. H. Some results on unimodality of distributions. 91j:60020
- Al-Osh, M. A. see Alzaid, Abdulhamid A., 91f:60021
- Alzaid, Abdulhamid A. (with Al-Osh, M. A.) Some results on discrete α -monotonicity. 91f:60021
- Antzoulakos, Demetris L. see Philippou, Andreas N., 91f:60024
- Artakis, T. (with Voudouri, Aggeliki) Limiting behavior of certain mixtures of distributions. (Russian summary) 91e:60028
- Bapat, R. B. Permanents in probability and statistics. 91d:60031
- Bentkus, Vidmantas-Kastytis Jurgis (with Kiria, K.) Estimates for the closeness of a distribution function to the normal law. 91e:60034
- Broniatowski, Michel (with Fuchs, Aimé) Comportement comparé de la loi des moyennes et des minimums de v.a. indépendantes équidistribuées. (English summary) [Laws of random variables whose mean and minimum behavior are similar] 91c:60015
- Carnal, Henri (with Dozzi, M.) On a decomposition problem for multivariate probability measures. 91c:60016
- Casalis, Muriel Les familles exponentielles à variance quadratique homogène sont des lois de Wishart sur un cône symétrique. (English summary) [Natural exponential families with homogeneous quadratic variance are Wishart distributions on symmetric cones] 91m:60029
- Castagnoli, Elio (with Muliere, Pietro) On generalized transforms of distribution functions. (Italian summary) 91h:60020
- Chen, Hong Jian (with Wu, Chuan Yi) Conditions for determining exponential families by variance functions. (Chinese) 91d:60032
- Chernyavskii, A. G. Membership in class I_0 of a multidimensional probability law with a Gaussian component. (Russian) (see 91g:60003)
- Chistyakov, G. P. Stability bounds of decompositions of infinitely divisible distribution functions with Gaussian component of Linnik's class \mathcal{L} . 91f:60022
- see also Trukhina, I. P., 91f:60028
- Dall'Aglio, Giorgio Decomposability of probability distributions. (Italian. English summary) 91j:60021
- De Vylder, F. Compound and mixed distributions. 91c:60017
- Dozzi, M. see Carnal, Henri, 91c:60016
- Fuchs, Aimé see Broniatowski, Michel, 91c:60015
- Gouveia, José Silvio Stability for a theorem of Cramér and a theorem of Raikov. (Portuguese. English summary) 91j:60022
- Grishechkin, S. A. Nonlinear normalization in Urbanik's convolutions. 91e:60035
- Györfi, Béla On the decomposability of probability distribution functions. (Hungarian. English summary) 91c:60018
- Hassenforder, C. Seules les affinités préservent le type de la loi gamma à paramètre entier. (English summary) [Only affine transformations preserve the type of the gamma distribution with integer parameter] 91m:60030
- Inoue, Hideoyuki see Niki, Naoto; et al., 91f:60041
- Kakosyan, A. V. On an estimate for the closeness of a two-dimensional distribution with a monotonically increasing failure rate function to the Marshall-Olkin distribution. (Russian) 91e:60036
- Kiria, K. see Bentkus, Vidmantas-Kastytis Jurgis, 91e:60034
- Kluppelberg, Claudia Asymptotic ordering of distribution functions. 91a:60041
- Latouche, Guy Distributions de type phase: tutorial. (English summary) [Tutorial on phase-type distributions] 91e:60037
- Leštanovský, Antonín (with Omev, Edward) Moments of order statistics. (Russian and Czech summaries) 91d:60040
- Letac, Gérard (with Seshadri, Vanamamalai) The expectation of X^{-1} as a function of $E(X)$ for an exponential family on the positive line. 91e:60038

- Lin, Kuo Tung Characterizations of uniform distributions and of exponential distributions. 91f:60023
- Lucchesi, Alberto Some generalizations of the Poisson and gamma distributions. (Spanish. English summary) 91a:60042
- Marshall, Albert W. A bivariate uniform distribution. 91d:60033
- Massé, Bruno Concentration des mesures bornées sur \mathbb{R}^n et problèmes statistiques associés. (English summary) [Concentration of bounded measures in \mathbb{R}^n and associated statistical problems] 91e:60039
- Misiewicz, Jolanta K. Positive definite norm dependent functions on l^∞ . 91g:60019
- Mueller, Pietro *see* Castagnoli, Elio, 91h:60020
- Muñoz Pérez, J. Dispersive ordering by the spread function. 91j:60023
- Murphy, Emily S. Some new results on the subexponential class. 91a:60043
- Nakagawa, Shigekazu *see* Niki, Naoto; et al., 91f:60041
- Neupokoeva, M. V. Stability of the characterization properties of the geometric distribution. (Russian) (*see* 91g:60003)
- Niki, Naoto (with Nakagawa, Shigekazu; Inoue, Hideyuki) Cumulants of random sum distributions. 91f:60041
- Nikulin, V. N. On two metrics in application to problems on the stability of characterizations. 91j:60024
- O'Connell, Colm Art On the limitations of multivariate phase-type families. 91m:60031
- Oney, Edward *see* Leštanovský, Antonín, 91f:60040
- Pancheva, E. I. Self-decomposable distributions for maxima of independent random vectors. 91b:60014
- Philippou, Andreas N. (with Antzoulakos, Demetris L.) Multivariate distributions of order k on a generalized sequence. 91f:60024
- Pillai, R. N. On Mittag-Leffler functions and related distributions. 91e:60040
- Pratsevity, N. V. A class of random variables with singular distributions. (Russian) 91f:60025
- Puz, J. On characterization of generalized logistic and Pareto distributions. 91g:60020
- Rachev, Svetlozar T. *see* Rüschendorf, Ludger, 91e:60041a and 91e:60041b
- Ronkin, A. L. (with Ulanovskii, A. M.) Determination of distribution functions based on the values of their convolution as $x \rightarrow -\infty$. (Russian) (*see* 91g:60003)
- Rüschendorf, Ludger (with Rachev, Svetlozar T.) A characterization of random variables with minimum L^2 -distance. 91e:60041a
- (with Rachev, Svetlozar T.) Corrigendum: "A characterization of random variables with minimum L^2 -distance". 91e:60041b
- Scarsini, Marco Copulae of probability measures on product spaces. 91d:60034
- (with Shaked, Moshe) Stochastic ordering for permutation symmetric distributions. 91f:60026
- Seshadri, Vanamamalai *see* Letac, Gérard, 91e:60038
- Shaked, Moshe *see* Scarsini, Marco, 91f:60026
- Targhetta, M. Luisa On a family of indeterminate distributions. 91f:60027
- Titov, A. N. The components of maximum. 91a:60044
- Tong, Yang Liang ★ The multivariate normal distribution. 91g:60021
- Trukhina, I. P. (with Chistyakov, G. P.) Stability of decomposition in semigroups of functions representable by series in the Jacobi polynomials. 91f:60028
- Ulanovskii, A. M. *see* Ronkin, A. L., (91g:60003)
- Urbanik, K. Quasi-regular generalized convolutions. 91d:60035
- Vinitskii, Ya. F. Convolutions of singular distribution functions. (Russian) 91f:60042
- Voorn, W. J. Stability of extremes with random sample size. 91e:60042
- Voudouris, Aggeliki *see* Artakis, T., 91m:60028
- Wang, Yao Hung Dependent random variables with independent subsets. II. 91f:60029
- Witte, H.-J. Some characterizations of distributions based on the integrated Cauchy functional equation. 91g:60022
- Wu, Chuan Yi *see* Chen, Hong Jian, 91d:60032
- Wu, Zong Qi A necessary and sufficient condition for homogeneous linear functions and its application. (Chinese. English summary) (Not in MR)
- Yin, Chuan Cun More on the independence of random variables. (Chinese. English summary) (Not in MR)
- Zhang, Hong Qing² The stochastic decomposition of a kind of infinite random matrix [Dongbei Shuxue 5 (1989), no. 1, 33–40; MR 90j:60023]. (*see* 91e:62006)
- Zhang, Jie Hong Some scale problems in probability theory. (Chinese. English summary) (Not in MR)
- Items with secondary classifications in 60E05
- Abd-El-Hakim, Nagi S. *see* El-Dab Ahmad, Khalaf, 91b:62028
- Alzaid, Abdulhamid A. (with Rao, Callyampudi Radhakrishna; Shanbhag, D. N.) Solution of the integrated Cauchy functional equation on a half line using exchangeability. 91e:62027
- Brandt, Andreas (with Brandt, Manfred; Sulanke, Hannelore) A representation of a discrete distribution by its binomial moments. 91e:60026
- Brandt, Manfred *see* Brandt, Andreas; et al., 91e:60026
- Braverman, M. Sh. On a condition for absolute moments of normalized sums of independent random variables. 91h:60050
- Cifarelli, Donato Michele (with Regazzini, Eugenio) On a general definition of concentration function. 91h:62036
- Danileyan, E. A. (with Tatalyan, K. R.) On the moment problem on majorizable classes. (Russian. Armenian summary) 91k:41057
- Dembo, Amir On random determinants. 91a:62125
- Devroye, Luc Random variate generators for the Poisson-Poisson and related distributions. 91d:65013
- (with Györfi, László) No empirical probability measure can converge in the total variation sense for all distributions. 91f:62089
- Dimitrov, B. (with Khalil, Z.) On a new characterization of the exponential distribution related to a queueing system with an unreliable server. 91j:60147
- El-Dab Ahmad, Khalaf (with Abd-El-Hakim, Nagi S.) The identifiability of finite mixing of some noncentral distributions. 91h:62028
- Fan, Jian Qing On rotationally invariant distributions [Dongbei Shuxue 4 (1988), no. 1, 29–42; MR 90a:62134]. (*see* 91e:62006)
- Fang, Bi Qi *see* Fang, Kai Tai, (91e:62006) and (91e:62006)
- Fang, Kai Tai (with Kotz, Samuel; Ng, Kai Wang) ★ Symmetric multivariate and related distributions. 91b:62070
- (with Fang, Bi Qi) Generalized symmetrized Dirichlet distributions [Acta Math. Appl. Sinica (English Ser.) 4 (1988), no. 4, 316–323; MR 90d:62065]. (*see* 91e:62006)
- (with Fang, Bi Qi) The l_1 -norm symmetric matrix variate distributions [Dongbei Shuxue 4 (1988), no. 1, 16–28; MR 90a:62139]. (*see* 91e:62006)
- (with Xu, Jian Lun) The Mills' ratio of multivariate normal distributions and spherical distributions [Acta Math. Sinica 30 (1987), no. 2, 248–257; MR 88i:62090]. (*see* 91e:62006)
- Gather, U. (with Rauhut, Burkhard) The outlier behaviour of probability distributions. 91i:62024
- Gerber, Hans U. From the convolution of uniform distributions to the probability of ruin. (French and German summaries) 91e:62266
- Györfi, László *see* Devroye, Luc, 91f:62089
- Joe, Harry Families of min-stable multivariate exponential and multivariate extreme value distributions. 91c:62051
- Johnson, Mary A. (with Taaffe, Michael R.) Matching moments to phase distributions: mixtures of Erlang distributions of common order. 91a:60244
- Kallina, Martin On the sum of independent random variables. (Russian and Slovak summaries) (Not in MR)
- Khalil, Z. *see* Dimitrov, B., 91j:60147
- Kijima, Masaaki On the unimodality of transition probabilities in Markov chains. 91m:60140
- Kotz, Samuel *see* Fang, Kai Tai; et al., 91b:62070
- Lloyd, Christopher J. Some further results on random splitting of an interval. 91a:60038
- Meerschaert, Mark M. Moments of random vectors which belong to some domain of normal attraction. 91h:60033
- Ng, Kai Wang *see* Fang, Kai Tai; et al., 91b:62070
- Panaretos, J. Some properties and applications of the stuttering generalized Waring distribution. 91f:60018
- Permešić, P. M. Stochastic structure of some completely monotone functions. 91e:60189
- Rachev, Svetlozar T. (with Shortt, Rae Michael) Classification problem for probability metrics. 91d:28005
- Rao, Callyampudi Radhakrishna (with Shanbhag, D. N.) Recent advances on the integrated Cauchy functional equation and related results in applied probability. 91a:62032
- (with Shanbhag, D. N.) Further extensions of the Choquet-Deny and Deny theorems with applications in characterization theory. 91a:62033
- *see also* Alzaid, Abdulhamid A.; et al., 91e:62027
- Rauhut, Burkhard *see* Gather, U., 91i:62024
- Regazzini, Eugenio *see* Cifarelli, Donato Michele, 91h:62036
- Resnick, Sidney I. (with Roy, Rishin) Leader and maximum independence for a class of discrete choice models. 91k:62050
- Roy, Dilip A characterization of Gumbel's bivariate exponential and Lindley and Singpurwalla's bivariate Lomax distributions. 91h:62020a
- Correction: "A characterization of Gumbel's bivariate exponential and Lindley and Singpurwalla's bivariate Lomax distributions". 91h:62020b
- Roy, Rishin *see* Resnick, Sidney I., 91k:62050
- Sander, Wolfgang A note on the exponential distribution. 91i:62027
- Shanbhag, D. N. *see* Rao, Callyampudi Radhakrishna, 91a:62032; 91a:62033 and Alzaid, Abdulhamid A.; et al., 91e:62027
- Shortt, Rae Michael *see* Rachev, Svetlozar T., 91d:28005
- Starček, M. (with Szyal, Dominik) On properties of the Lévy, Prokhorov and Sibley type metrics. 91e:60015
- Sulanke, Hannelore *see* Brandt, Andreas; et al., 91e:60026
- Sungur, Engin A. Dependence information in parameterized copulas. 91m:62108
- Szyal, Dominik *see* Starček, M., 91e:60015
- Taaffe, Michael R. *see* Johnson, Mary A., 91a:60244
- Tatalyan, K. R. A generalization of a theorem of V. A. Kaashtanov. (Russian) (*see* 91h:60003)
- *see also* Danileyan, E. A., 91k:41057
- Tortorella, Michael Closed Newton-Cotes quadrature rules for Stieltjes integrals and numerical convolution of life distributions. 91g:65049
- Volodina, N. A. Some classes of spherically symmetric distributions. (Russian) (*see* 91g:60004)
- Willemens, E. K. E. Asymptotic approximations of compound distributions and some applications. 91c:60112
- Willmot, Gordon E. Limiting tail behaviour of some discrete compound distributions. 91a:62284
- On the construction of a parameter orthogonal to the mean. 91f:62029
- Xu, Jian Lun *see* Fang, Kai Tai, (91e:62006)
- Zuer, N. M. Representation of mixed cumulants by higher covariances. (Russian. English summary) 91e:60120

60E07 Infinitely divisible distributions; stable distributions

- Arkhipov, S. V. The density function's asymptotic representation in the case of multidimensional strictly stable distributions. 91e:60043
- Bapat, R. B. Infinite divisibility of multivariate gamma distributions and M -matrices. 91e:60043
- Bar-Lev, Shaul K. (with Bshouty, Daoud) A class of infinitely divisible variance functions with an application to the polynomial case. 91i:60044
- Bentkus, Vidmantas-Kastytis Jurgio (with Bloznelis, Mindaugas P.) A nonuniform estimate for the rate of convergence in the central limit theorem with a stable limit distribution. (Russian. English and Lithuanian summaries) 91h:60015
- Berkes, István (with Dehling, Herold) Almost sure and weak invariance principles for random variables attracted by a stable law. 91a:60045
- Blank, N. M. Unique determination of infinitely divisible distribution functions by their asymptotic behavior as $x \rightarrow -\infty$. (Russian) (*see* 91g:60003)
- Bloznelis, Mindaugas P. *see* Bentkus, Vidmantas-Kastytis Jurgio, 91h:60015
- Bondesson, L. Generalized gamma convolutions and complete monotonicity. 91e:60044

- Bshouty, Daoud *see* Bar-Lev, Shaul K., 91i:60044
- Chang, Derek K. On infinitely divisible discrete distributions. 91e:60045
- Chistyakov, G. P. Estimates for the stability of decompositions of infinitely divisible distribution functions with Gaussian component belonging to Yu. V. Linnik's class G. II. (Russian) (*see* 91g:60004)
- Čorný, Vladimír Zero regression of linear statistic on another one and operator-semistable laws. 91e:60046
- Characterization of operator-semistable distributions. (Russian) 91b:60016
- Csörgő, Sándor An extreme-sum approximation to infinitely divisible laws without a normal component. 91a:60046
- A probabilistic approach to domains of partial attraction. 91i:60064
- Dehling, Herold *see* Berkes, István, 91a:60045
- Hansen, B. G. (with Willekens, E. K. E.) The generalized logarithmic series distribution. 91f:60030
- Janssen, Arnold (with Mason, David M.) On the rate of convergence of sums of extremes to a stable law. 91i:60045
- LePage, Raoul Conditional moments for coordinates of stable vectors. 91i:60046
- Lisitskii, A. D. Asymptotic expression for the density of the norm of a stable random vector of index 1. 91f:60031
- Mason, David M. *see* Janssen, Arnold, 91i:60045
- Pillai, R. N. (with Sandhya, E.) Distributions with complete monotone derivative and geometric infinite divisibility. 91j:60025
- Rohatgi, Vijay K. (with Steutel, F. W.; Székely, Gábor J.) Infinite divisibility of products and quotients of i.i.d. random variables. 91j:60026
- Sandhya, E. *see* Pillai, R. N., 91j:60025
- Sgibnev, M. S. Banach algebras and infinitely divisible distributions. 91e:60048
- Asymptotics of infinitely divisible distributions in \mathbb{R}^n . (Russian) 91e:60047
- The asymptotics of infinitely divisible distributions in \mathbb{R} . 91e:60049
- Shimura, Takaaki The strict domain of attraction of strictly stable law with index 1. 91m:60032
- Steutel, F. W. *see* Rohatgi, Vijay K.; et al., 91j:60026
- Sundt, Bjørn *see* Willmot, Gordon E., 91d:60036
- Székely, Gábor J. *see* Rohatgi, Vijay K.; et al., 91j:60026
- Szulga, Jerzy A note on hypercontractivity of stable random variables. 91j:60027
- Takano, Katsuo The Lévy representation of the characteristic function of the probability density $\Gamma(m + d/2)(\pi^{d/2}\Gamma(m))^{-1}(1 + |x|^2)^{-m-d/2}$. 91a:60047
- On mixtures of the normal distribution by the generalized gamma convolutions. 91h:6001a
- Correction and addendum to: "On mixtures of the normal distribution by the generalized gamma convolutions". 91h:6001b
- Watanabe, Toshiro Nonsymmetric unimodal Lévy processes that are not of class L. 91i:60047
- Willekens, E. K. E. *see* Hansen, B. G., 91f:60030
- Willmot, Gordon E. (with Sundt, Bjørn) On evaluation of the Delaporte distribution and related distributions. 91d:60036
- Zaitsev, A. Ya. On the approximation of convolutions of multidimensional symmetric distributions by accompanying laws. (Russian) 91j:60028
- Items with secondary classifications in 60E07
- Adler, Robert J. (with Cambanis, Stamatios; Samorodnitsky, Gennady) On stable Markov processes. 91d:60167
- Artakis, T. (with Voudouris, Aggeliki) Limiting behavior of certain mixtures of distributions. (Russian summary) 91m:60028
- Brown, Mark Error bounds for exponential approximations of geometric convolutions. 91i:60057
- Cambanis, Stamatios *see* Adler, Robert J.; et al., 91d:60167
- Carnal, Henri (with Dozzi, M.) On a decomposition problem for multivariate probability measures. 91c:60016
- Chistyakov, G. P. Stability bounds of decompositions of infinitely divisible distribution functions with Gaussian component of Linnik's class Σ . 91f:60022
- *see also* Trukhina, I. P., 91f:60028
- Dozzi, M. *see* Carnal, Henri, 91c:60016
- Faktorovich, I. Yu. One technique of nonlinear normalization of random variables. 91e:60056
- Gu, Hua Min *see* Ramachandran, B.; et al., 91g:60023
- Guivarc'h, Yves Sur une extension de la notion de loi semi-stable. (English summary) [On an extension of the notion of semistable law] 91i:60141
- van Harn, K. *see* Steutel, F. W., (91j:60003)
- Heyer, Herbert Infinitely divisible probability measures on a discrete Gelfand pair. 91k:60014
- Kelly, Douglas (with Simons, Gordon) Markov processes with infinitely divisible limit distributions: some examples. 91e:60195
- Khokhlov, Yu. S. Stable distributions on the Heisenberg group. 91e:43001
- Kholevo, A. S. Conditionally positive-definite functions in quantum probability theory. (Russian) 91i:46075
- Lau, Ka-Sing *see* Ramachandran, B.; et al., 91g:60023
- Lifshits, M. A. *see* Smorodina, N. V., 91c:60008
- Lisitskii, A. D. Stable random vectors in Hilbert space. 91c:60005
- Norberg, Tommy Existence theorems for measures on continuous posets, with applications to random set theory. 91g:28011
- Rajput, Balram S. (with Rosiński, Jan) Spectral representations of infinitely divisible processes. 91i:60149
- Ramachandran, B. (with Lau, Ka-Sing; Gu, Hua Min) On characteristic functions satisfying a functional equation and related classes of simultaneous integral equations. 91g:60023
- Rama-Murthy, Kavi On weak limits of semistable laws. 91e:60014
- Rosiński, Jan On path properties of certain infinitely divisible processes. 91g:60050
- On series representations of infinitely divisible random vectors. 91g:60011
- *see also* Rajput, Balram S., 91i:60149
- Rybaczuk, M. (with Weron, K.) Linearly coupled quantum oscillators with Lévy stable noise. 91f:82044
- Samorodnitsky, Gennady (with Taqqu, Murad S.) Multiple stable integrals of Banach-valued functions. 91d:60017
- *see also* Adler, Robert J.; et al., 91d:60167
- Siegel, Gerhard Operator stable distributions in stationary sequences defined on separable Banach spaces. 91a:60011
- Operator-stable distributions in separable Banach spaces. 91c:60006
- Simons, Gordon *see* Kelly, Douglas, 91e:60195
- Smoleński, Włodzimierz (with Sztencel, Rafał) On admissible translates of sub-Gaussian stable measures. 91c:60007
- Smorodina, N. V. (with Lifshits, M. A.) On the distribution of the norm of a stable vector. 91c:60008
- Steutel, F. W. (with van Harn, K.) Queueing networks and operator-selfdecomposability. (*see* 91j:60003)
- Sztencel, Rafał *see* Smoleński, Włodzimierz, 91c:60007
- Talagrand, Michel On subsets of L^p and p -stable processes. (French summary) 91c:60047
- Taqqu, Murad S. *see* Samorodnitsky, Gennady, 91d:60017
- Trendafilov, N. *see* V'ndev, Dimit'r L., 91c:60001
- Trukhina, I. P. (with Chistyakov, G. P.) Stability of decomposition in semigroups of functions representable by series in the Jacobi polynomials. 91f:60028
- V'ndev, Dimit'r L. (with Trendafilov, N.) A type of stable stochastic processes using Lévy-Khintchine formulae. 91c:60001
- Voudouris, Aggeliki *see* Artakis, T., 91m:60028
- Weron, K. *see* Rybaczuk, M., 91f:82044
- Yudin, M. D. On sharpening conditions for the convergence of distributions of sums of dependent random variables. 91e:60085
- ★ Сходимость распределения сумм случайных величин. (Russian) [Convergence of distributions of sums of random variables] 91d:60034
- Approximation of distributions of sums of mixing random variables by distributions of class L. 91a:60074
- Žak, Tomasz A formula for the density of the norm of stable random vectors in Hilbert spaces. 91k:60010
- Zolotarev, V. M. Two analytic problems in probability theory. (Russian) 91i:60072
- ## 60E10 Characteristic functions; other transforms
- Csörgő, Sándor (with Teugels, Jozef L.) Empirical Laplace transform and approximation of compound distributions. 91e:60050
- Devroye, Luc A note on Linnik's distribution. 91h:60017
- Gu, Hua Min *see* Ramachandran, B.; et al., 91g:60023
- Hilgers, John W. High sum wins contests with discretely distributed random variables. 91e:60051
- Holgate, Philip The lognormal characteristic function. 91j:60029
- Kagan, A. M. A generalized condition for identical distribution of random vectors in connection with the analytic theory of linear forms of independent random variables. 91d:60037
- Kakosyan, A. V. (with Klebanov, L. B.) Stability estimate in the problem of reconstruction of an analytical characteristic function. 91f:60032
- Klebanov, L. B. *see* Kakosyan, A. V., 91f:60032
- Lau, Ka-Sing *see* Ramachandran, B.; et al., 91g:60023
- Madan, Dilip (with Seneta, Eugene) Chebyshev polynomial approximations for characteristic function estimation: some theoretical supplements. 91a:60048
- Marsaglia, George The $X + Y$, X/Y characterization of the gamma distribution. 91a:60049
- Nagaev, A. V. (with Shkolnik, S. M.) Some asymptotic properties of the stable laws. 91d:60038
- Ostrovskii, I. V. *see* Vishnyakova, A. M.; et al., 91i:60050
- Ramachandran, B. (with Lau, Ka-Sing; Gu, Hua Min) On characteristic functions satisfying a functional equation and related classes of simultaneous integral equations. 91g:60023
- Rosenberg, Hans-Joachim The Parseval equation as a tool for the continuation of characteristic functions and positive definite probability densities. 91f:60048
- Positive definite probability densities. 91i:60049
- Seneta, Eugene *see* Madan, Dilip, 91a:60048
- Shkolnik, S. M. *see* Nagaev, A. V., 91d:60038
- Teugels, Jozef L. *see* Csörgő, Sándor, 91e:60050
- Trigub, R. M. A criterion for the characteristic function and a Pólya-type test for radial functions of several variables. 91f:60033
- Ulanovskii, A. M. *see* Vishnyakova, A. M.; et al., 91i:60050
- Vinogradova, T. R. An estimate for the characteristic functions of functionals of multidimensional Gaussian random variables. 91d:60039
- Vishnyakova, A. M. (with Ostrovskii, I. V.; Ulanovskii, A. M.) On a conjecture of Yu. V. Linnik. 91i:60050
- Items with secondary classifications in 60E10
- Ahmad, Memir *see* Chaudhry, Muhammad Aslam, 91e:42012
- Bondesson, L. Generalized gamma convolutions and complete monotonicity. 91e:60044
- Carnal, Henri (with Dozzi, M.) On a decomposition problem for multivariate probability measures. 91c:60016
- Chaudhry, Muhammad Aslam (with Ahmad, Memir) Generalized Fourier transforms and applications in probability and statistics. 91e:42012
- Chistyakov, G. P. Stability bounds of decompositions of infinitely divisible distribution functions with Gaussian component of Linnik's class Σ . 91f:60022
- Dozzi, M. *see* Carnal, Henri, 91c:60016
- Ehnešahrahoob, M. (with Sobel, Milton) Sooner and later waiting time problems for Bernoulli trials: frequency and run quotas. 91e:60027
- Fewerberger, Andrey An efficiency result for the empirical characteristic function in stationary time-series models. (French summary) 91j:62129
- Geluk, J. L. On conjugate Π -variation and the coefficients of power series. 91i:30001
- Harrison, Peter G. Laplace transform inversion and passage-time distributions in Markov processes. 91d:60236
- Jullia, O. (with Nualart, David) The distribution of a double stochastic integral with respect to two independent Brownian sheets. 91a:60140

- Kagan, F. M. A refinement of Lukacs theorems. 91e:62034
- Leonenko, N. N. (with Yadrenko, M. L.) Some unsolved problems in analysis and probability theory. (Russian) 91a:60102
- Letac, Gérard (with Seshadri, Vanamamalai) The expectation of X^{-1} as a function of $E(X)$ for an exponential family on the positive line. 91e:60038
- Luo, Qiao Lin Maximum entropy extensions of positive definite functions. (Chinese. English summary) 91c:42017
- Nualart, David see Jullia, O., 91a:60140
- Pillai, R. N. (with Sandhya, E.) Distributions with complete monotone derivative and geometric infinite divisibility. 91j:60025
- Sandhya, E. see Pillai, R. N., 91j:60025
- Saxena, Ram Kishore Applications of special functions to probability distributions. 91f:62032
- Seshadri, Vanamamalai see Letac, Gérard, 91e:60038
- Sobel, Milton see Elneshahrahshoh, M., 91e:60027
- Tewgels, Jozef L. Probabilistic derivation of inversion formulas. (see 91j:60003)
- Probabilistic proofs of some real inversion formulas. 91g:44001
- Yadrenko, M. L. see Leonenko, N. N., 91a:60102
- Yamazata, Makoto Hitting times of single points for 1-dimensional generalized diffusion processes. 91f:60138
- 60E15 Inequalities (Chebyshev, Kolmogorov, etc.)**
- Arenhæus, N. K. On inequalities for the concentration function. (Russian) (see 91k:60020)
- Bagirov, E. B. Lower bounds for "tails" of distributions of some functions of normally distributed random variables. 91k:60021
- Bakirov, N. K. Extrema of distributions of quadratic forms in Gaussian variables. 91c:60050
- Bapat, R. B. Discrete multivariate distributions and generalized log-concavity. 91f:60034
- Baxter, Laurence A. (with Rachev, Svetlozar T.) A note on the stability of the estimation of the exponential distribution. 91j:60030
- Bedarid, A. S. Extremal distributions with bounded density for Chebyshev-type inequalities. (Russian) (see 91k:60030)
- Bergin, James (with Brandenburger, Adam) A simple characterization of stochastically monotone functions. 91m:60033
- Bhandari, Subir Kumar see Das Gupta, Somesh, 91f:60035
- Bingard, Torben Maack Hoeffding's inequalities: a counterexample. 91g:60024
- Brandenburger, Adam see Bergin, James, 91m:60033
- Braverman, M. Sh. A probabilistic inequality. (Russian) 91k:60022
- Bruss, F. Thomas Une note sur des inégalités pour l'espérance de variables aléatoires majorées ou minorées. (English summary) [A note on inequalities for the expectation of truncated or bounded random variables] 91k:60023
- Chan, Wai (with Park, Dong Ho; Proschan, Frank) Peakedness of weighted averages of jointly distributed random variables. 91d:60040
- Das Gupta, Somesh (with Bhandari, Subir Kumar) Multivariate majorization. 91f:60035
- Dharmadhikari, Sudhakar (with Jong-Dev, Kumar) Upper bounds for the variances of certain random variables. 91f:60036
- Eaton, M. L. (with Gleser, L. J.) Some results on convolutions and a statistical application. 91g:60025
- Gafurov, M. U. (with Kendzhaev, R. Kh.) Probabilistic inequalities for sums of order statistics when extremal terms are excluded. 91c:60019
- Galambos, Janos (with Xu, Yuan) A new method for generating Bonferroni-type inequalities by iteration. 91h:60051
- Gleser, L. J. see Eaton, M. L., 91g:60025
- Hagerup, Torben (with Rüb, Christine) A guided tour of Chernoff bounds. 91h:60022
- Hajela, Dan Inequalities for Walsh like random variables. 91g:60026
- Hoppe, Fred M. (with Seneta, Eugene) Bonferroni-type inequalities and the methods of indicators and polynomials. 91e:60052
- Jennings, Linda W. see Young, Dean Max; et al., 91c:60055
- Jong-Dev, Kumar see Dharmadhikari, Sudhakar, 91f:60036
- Joe, Harry Majorization and divergence. 91h:60018
- Joshi, Sumeeta M. see Sathre, Y. S.; et al., (Not in MR)
- Kadyrova, N. O. see Rachev, Svetlozar T.; et al., 91d:60042
- Kendzhaev, R. Kh. see Gafurov, M. U., 91c:60019
- Khodzhahagyan, S. S. see Nagiev, S. V., (Not in MR)
- Kocher, Subhash C. On preservation of some partial orderings under shock models. 91f:60037
- Koo, Hui-Wen see Shanthikumar, J. George, 91h:60023
- Kounias, Stratis (with Sotirakoglou, Kiki) Bonferroni bounds revisited. 91a:60051
- Kuritsya, Yu. G. One family of order relations for random vectors. 91g:60027
- Kwapień, Stanisław (with Woyczyński, Wojbor A.) Tangent sequences of random variables: basic inequalities and their applications. 91c:60020
- Mărgăritescu, Eugen Improved Bonferroni-Galambos-type inequalities. 91m:60034
- Mansart, P. The tight constant in the Dvoretzky-Kiefer-Wolfowitz inequality. 91h:60052
- Meaux, Laurie M. (with Seaman, John W., Jr.) Probability inequalities for quadratic forms. 91j:60031
- Mitroshnikov, A. L. Estimates for a multidimensional Lévy concentration function. 91d:60041
- Muñoz Pérez, J. (with Sanchez-Gomez, A.) Dispersive ordering by dilation. 91f:60038
- Naber, S. P. see Sathre, Y. S.; et al., (Not in MR)
- Nagiev, S. V. (with Khodzhahagyan, S. S.) An upper bound for the concentration function. (Russian) (Not in MR)
- Naiman, Daniel Q. Volumes of tubular neighborhoods of spherical polyhedra and statistical inference. 91k:60024
- Niederreiter, Harald (with Tichy, Robert F.; Turnwald, Gerhard) An inequality for differences of distribution functions. 91g:60028
- Nishida, Toshio see Ohl, Fumio; et al., 91a:60052
- Ohl, Fumio (with Shimori, Shuichi; Nishida, Toshio) A definition of associated probability measures on partially ordered sets. 91a:60052
- Papathanasiou, V. Variance bounds by a generalization of the Cauchy-Schwarz inequality. 91e:60053
- Park, Dong Ho see Chan, Wai; et al., 91d:60040
- Petrov, Valentin Vladimirovich Inequalities for moments of sums of independent random variables. 91j:60032
- Moments of sums of independent random variables. (Russian) 91f:60039
- Pinelis, I. S. (with Utev, S. A.) Sharp exponential estimates for sums of independent random variables. 91a:60053
- Pittenger, A. O. Sharp mean-variance bounds for Jensen-type inequalities. 91h:60053
- Proschan, Frank see Chan, Wai; et al., 91d:60040
- Rachev, Svetlozar T. (with Yakovlev, A. Yu.; Kadyrova, N. O.) A concept of δ -stochastic ordering and its application to the competing risks model. 91d:60042
- see also Baxter, Laurence A., 91j:60030
- Rohatgi, Vijay K. (with Székely, Gábor J.) Sharp inequalities between skewness and kurtosis. 91k:60025
- Rüb, Christine see Hagerup, Torben, 91h:60022
- Samuels, Stephen M. (with Studden, William J.) Bonferroni-type probability bounds as an application of the theory of Tchebycheff systems. 91c:60021
- Sanchez-Gomez, A. see Muñoz Pérez, J., 91f:60038
- Sathre, Y. S. (with Joshi, Sumeeta M.; Naber, S. P.) Bounds for circular error probabilities. (Not in MR)
- Scarsini, Marco (with Shaked, Moshe) Some conditions for stochastic equality. 91h:60054
- Seaman, John W., Jr. see Young, Dean Max; et al., 91c:60055 and Meaux, Laurie M., 91j:60031
- (Seaman, Y. W.) see Turner, Danny W., 91a:60054
- Seneta, Eugene see Hoppe, Fred M., 91e:60052
- Shaked, Moshe (with Shanthikumar, J. George) Convexity of a set of stochastically ordered random variables. 91d:60043
- see also Scarsini, Marco, 91h:60054
- Shanthikumar, J. George (with Koo, Hui-Wen) On uniform conditional stochastic order conditioned on planar regions. 91h:60023
- see also Shaked, Moshe, 91d:60043
- Shimori, Shuichi see Ohl, Fumio; et al., 91a:60052
- Sotirakoglou, Kiki see Kounias, Stratis, 91a:60051
- Studden, William J. see Samuels, Stephen M., 91c:60021
- Székely, Gábor J. see Rohatgi, Vijay K., 91k:60025
- Talagrand, Michel Isoperimetry and integrability of the sum of independent Banach-space valued random variables. 91c:60054
- Tichy, Robert F. see Niederreiter, Harald; et al., 91g:60028
- Tong, Yung Liang Probability inequalities for n -dimensional rectangles via multivariate majorization. 91c:60022
- Turner, Danny W. Letter to the editors: "A note on a Kolmogorov inequality for the binomial distribution" [Teor. Veroyatnost. i Primenen. 33 (1988), no. 4, 804–806; MR 90a:60031] by D. M. Young, Turner and J. W. Seaman. 91a:60054
- Turnwald, Gerhard see Niederreiter, Harald; et al., 91g:60028
- Utev, S. A. Cumulants and moment inequalities. 91d:60044
- see also Pinelis, I. S., 91a:60053
- Verducci, Joseph S. Minimum majorization decomposition. 91h:60024
- Wang, Juan see Zhang, Yao Ting, (Not in MR)
- Woyczyński, Wojbor A. see Kwapień, Stanisław, 91c:60020
- Xu, Yuan see Galambos, Janos, 91h:60051
- Yakovlev, A. Yu. see Rachev, Svetlozar T.; et al., 91d:60042
- Young, Dean Max (with Seaman, John W., Jr.; Jennings, Linda W.) Kolmogorov inequalities for a class of continuous unimodal random variables with bounded support. 91e:60055
- see also Turner, Danny W., 91a:60054
- Zhang, Yao Ting (with Wang, Juan) Induced inequalities and induced correlated measures. (Chinese. English summary) (Not in MR)
- Items with secondary classifications in 60E15**
- Abouammoh, A. M. (with Ahmed, Abdul-Hadi Nabih; Khaliq, A.) Partial orderings of life distributions based on ageing properties. 91m:62174
- Abzhakov, E. A. (with Kozachenko, Yu. V.) Moment norms in some Orlicz spaces. 91a:60009
- Ahmed, Abdul-Hadi Nabih see Abouammoh, A. M.; et al., 91m:62174
- Bagai, Ishu see Deshpande, Jayant V.; et al., 91f:62159
- Braverman, M. Sh. Symmetric spaces and sequences of independent random variables. 91h:60127
- Brown, Lawrence D. (with Low, Mark G.) Information inequality bounds on the minimax risk (with an application to nonparametric regression). 91m:62039
- Burton, Robert M., Jr. (with Franzosa, Marie M.) Positive dependence properties of point processes. 91k:60056
- Cacoullos, T. (with Papathanasiou, V.) Characterizations of distributions by variance bounds. 91e:62030
- Coleman, Hans Possibly dependent probability summation of reaction time. (Not in MR)
- Dean, Angela M. (with Verducci, Joseph S.) Linear transformations that preserve majorization, Schur concavity, and exchangeability. 91d:15002
- Deshpande, Jayant V. (with Singh, Harshinder; Bagai, Ishu; Jain, Kanchan) Some partial orders describing positive ageing. 91f:62159
- Franzosa, Marie M. see Burton, Robert M., Jr., 91k:60056
- Goot, R. E. see Khanin, L. G.; et al., 91h:62091
- Heinkel, Bernard Rearrangements of sequences of random variables and exponential inequalities. 91j:60009
- Hill, T. P. (with Kennedy, Douglas P.) Prophet inequalities for parallel processes. 91h:60051
- Hoover, Donald R. Comparisons of improved Bonferroni and Sidák-Slepian bounds with applications to normal Markov processes. 91j:62069
- Jain, Kanchan see Deshpande, Jayant V.; et al., 91f:62159
- Jones, Martin Prophet inequalities for cost of observation stopping problems. 91j:60080

- Kakosyan, A. V. (with Klebanov, L. B.) Stability estimate in the problem of reconstruction of an analytical characteristic function. 91f:60032
- Kennedy, Douglas P. see Hill, T. P., 91k:60051
- Khalique, A. see Abouammoh, A. M.; et al., 91m:62174
- Khanin, L. G. (with Rachev, Svetlozar T.; Goot, R. E.; Yakovlev, A. Yu.) Precise upper bounds for the functionals describing tumour treatment efficiency. 91h:62091
- Klass, Michael J. Uniform lower bounds for randomly stopped Banach space valued random sums. 91i:60115
- Klebanov, L. B. see Kakosyan, A. V., 91f:60032
- Kounias, Stratis (with Sotirakoglou, Kiki) Bonferroni inequalities for at least m events. 91c:60028
- Kozachenko, Yu. V. see Abzhanov, E. A., 91a:60009
- Lacey, Michael T. Large deviations for the maximum local time of stable Lévy processes. 91h:60085
- Levin, V. L. (with Rachev, Svetlozar T.) New duality theorems for marginal problems with some applications in stochasticity. 91d:60004
- Littlestone, Nick From on-line to batch learning. (see 91e:68014)
- Low, Mark G. see Brown, Lawrence D., 91m:62039
- McDiarmid, C. J. H. On the method of bounded differences. 91e:05077
- Mikhailin, V. I. (with Ostrovskii, E. I.) Estimates for the distribution of the maximum of discontinuous random fields. 91a:60107
- Montgomery-Smith, Stephen The distribution of Rademacher sums. 91a:60034
- Muñoz Pérez, J. Dispersive ordering by the spread function. 91j:60023
- Ostrovskii, E. I. Refining S. N. Bernstein's inequality. 91j:60053
- see also Mikhailin, V. I., 91a:60107
- Papathanasiou, V. see Cacoullos, T., 91e:62030
- Payton, M. E. (with Young, L. J.; Young, Jerry H.) Bounds for the difference between median and mean of beta and negative binomial distributions. 91i:62032
- Prékopa, András Sharp bounds on probabilities using linear programming. 91h:90098
- Rachev, Svetlozar T. see Levin, V. L., 91d:60004 and Khanin, L. G.; et al., 91h:62091
- Rosberg, Hans-Joachim The Berry-Esseen inequalities derived from restricted convergence. 91a:60069
- Scarsini, Marco (with Shaked, Moshe) Stochastic ordering for permutation symmetric distributions. 91f:60026
- Semakov, S. L. The probability of the first hitting of a level by a component of a multidimensional process on a prescribed interval under restrictions on the remaining components. 91a:60103
- Sen, Pranab Kumar The mean-median-mode inequality and noncentral chi square distributions. 91j:62019
- Shaked, Moshe see Scarsini, Marco, 91f:60026
- Shukurlaeva, Sh. K. see Volodin, N. A., 91h:60036
- Singh, Harshinder see Deshpande, Jayant V.; et al., 91h:62159
- Sotirakoglou, Kiki see Kounias, Stratis, 91c:60028
- Tong, Yung Liang ★ The multivariate normal distribution. 91g:60021
- Verducci, Joseph S. see Dean, Angela M., 91d:15002
- Vitale, Richard A. The Brunn-Minkowski inequality for random sets. 91h:60019
- Volodin, N. A. (with Shukurlaeva, Sh. K.) Rate of convergence of random sums of random vectors to Marshall-Olkin distribution. 91h:60036
- Yakovlev, A. Yu. see Khanin, L. G.; et al., 91h:62091
- Young, Jerry H. see Payton, M. E.; et al., 91i:62032
- Young, L. J. see Payton, M. E.; et al., 91i:62032

60E99 None of the above, but in this section

- Danielyan, E. A. (with Popov, G. A.) Minimization of a nonlinear functional under moment restrictions. (Russian. Armenian summary) 91h:60025
- Downs, Thomas see Williamson, Robert C., 91d:60047
- Faktorovich, I. Ya. One technique of nonlinear normalization of random variables. 91e:60056
- Gupta, Vijay K. (with Mesa, Oscar J.; Waymire, Edward C.) Tree-dependent extreme values: the exponential case. 91d:60045
- Holzer, Silvano On Chew's axiomatic treatment of the $M_{\alpha\beta}$ mean. (Italian summary) 91m:60035
- Mesa, Oscar J. see Gupta, Vijay K.; et al., 91d:60045
- Milne, R. K. (with Yeo, G. F.) Random sum characterizations. 91d:60046
- Mirzakhmedov, M. A. (with Tursunov, G. T.) Functions whose Fourier coefficients are moments of a probability distribution. (Russian) 91f:60040
- Nendecker, H. The variance matrix of a matrix quadratic form under normality assumptions. A derivation based on its moment-generating function. (Not in MR)
- Popov, G. A. see Danielyan, E. A., 91h:60025
- Tursunov, G. T. see Mirzakhmedov, M. A., 91f:60040
- Vádeva, I. On the probability distribution of the values of a distribution density. (French and Russian summaries) (Not in MR)
- Vallois, P. Sur le passage de certaines marches aléatoires planes au-dessus d'une hyperbole équilatère. (English summary) [On the crossing of some planar random walks over an equilateral parabola] 91f:60041
- Waymire, Edward C. see Gupta, Vijay K.; et al., 91d:60045
- Williamson, Robert C. (with Downs, Thomas) Probabilistic arithmetic. I. Numerical methods for calculating convolutions and dependency bounds. 91d:60047
- Willmot, Gordon E. Asymptotic tail behaviour of Poisson mixtures with applications. 91f:60042
- Yeo, G. F. see Milne, R. K., 91d:60046
- Zachlèsche, Hans-Ulrich Fehler bei der Vertauschung von Erwartungswert- und Funktionswertbildung bei stochastischen Größen. (English and Russian summaries) [Errors in the interchange of expectation and functions for stochastic quantities] (Not in MR)

Items with secondary classifications in 60E99

- Alshina, Claudl On the stability of a functional equation arising in probabilistic normed spaces. 91b:39012

Crstici, Borislav (with Lipovan, Octavian) A probabilistic approach to the integrability concept. 91f:28005

Kallenberg, Olav Exchangeable random measures in the plane. 91d:60116

Lau, Ka-Sing (with Prakasa Rao, B. L. S.) Characterization of the exponential distribution by the relevation transform. 91i:62026

Lipovan, Octavian see Crstici, Borislav, 91f:28005

Prakasa Rao, B. L. S. see Lau, Ka-Sing, 91i:62026

Rachev, Svetlozar T. The problem of stability in queueing theory. 91c:60132

60Fxx Limit theorems [see also 28Dxx, 60B12]

Lee, A. J. ★ U -statistics. 91k:60026

Items with secondary classifications in 60Fxx

(Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 91i:60003

Girko, V. L. ★ Theory of random determinants. 91k:60001

Skorokhod, A. V. Probability. Basic concepts. Structure. Methods. (Russian) (see 91i:60003)

Items listed otherwise than by author

Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

Izvestiya Akademii Nauk i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

60F05 Central limit and other weak theorems

Abdullimov, B. A. A central limit theorem for U -statistics. (Russian) 91d:60048

Abdullimov, N. A central limit theorem for weakly dependent arrays of random variables. (Russian) (see 91b:60003)

Adler, André (with Rosalsky, Andrew) On the Chow-Robbins "fair" games problem. 91e:60057

— (with Rosalsky, Andrew) Some generalized central limit theorems for weighted sums with infinite variance. 91a:60055

Aerts, Marc (with Callaert, H.) The accuracy of the normal approximation for U -statistics with a random summation index converging to a random variable. 91a:60056

Aksomaitis, A. Transfer theorems in a max-scheme. (Russian. English and Lithuanian summaries) 91d:60049

— Convergence of distributions of extremal independent random variables. 91m:60036

Atamator, A. S. Multidimensional local theorems in the case of an arbitrary limit law for lattice distributions. (Russian) (see 91m:00013)

Azharov, T. A. (with Yusupova, A. K.) A minimax problem on the limit behavior of the V. I. Romanovskii distribution. (Russian) (Not in MR)

Azharov, T. R. Refinements of certain theorems on the asymptotic behavior of a hypergeometric distribution. (Russian) 91c:60023

Baldi, Pierre (with Rinott, Yosef; Stein, Charles M.) A normal approximation for the number of local maxima of a random function on a graph. 91f:60043

— (with Rinott, Yosef) On normal approximations of distributions in terms of dependency graphs. 91c:60024

Balkema, A. A. (with de Haan, Laurens) A convergence rate in extreme-value theory. 91j:60033

Barakat, H. M. Limit theorems for lower-upper extreme values from two-dimensional distribution function. (Not in MR)

— (with El-Shandidy, M. A.) Some limit theorems of intermediate term of a random number of independent random variables. 91m:60037

— Limit theorems for lower-upper extreme values from two-dimensional distribution function. 91c:60058

Barbour, A. D. (with Karoński, Michał; Ruciński, Andrzej) A central limit theorem for decomposable random variables with applications to random graphs. 91m:60038

— (with Jensen, Jens Ledet) Local and tail approximations near the Poisson limit. 91a:60057

Belriant, Jan (with Einmahl, John H. J.) Bahadur-Kiefer theorems for the product-limit process. 91k:60027

Bergström, H. A remark on a limit theorem for sums of φ -dependent random variables. 91f:60055

Berman, Simeon M. A central limit theorem for extreme sojourn times of stationary Gaussian processes. 91f:60044

Bikeliene, Vanda Analysis of the distributions of discrete spacings. Poisson approximation. (Russian) 91a:60058

Blacher, René Théorème de la limite centrale par les moments. (English summary) [Central limit theorem via moments] 91f:60056

Blomzels, Mindaugas P. A nonuniform estimate for the rate of convergence to the stable law in a multidimensional central limit theorem. 91a:60059

Borovikov, V. P. On the asymptotic theory of decomposable statistics based on frequencies. (Russian) 91d:60045

Borovskikh, Ya. V. see Karolyuk, V. S., 91e:60071 and 91j:60045

Bradley, Richard C. On the boundary of the central limit theorem for stationary ρ -mixing sequences. (see 91j:60004)

Brown, Mark Error bounds for exponential approximations of geometric convolutions. 91f:60057

Bühler, Wolfgang J. Probabilistic derivation for the limit of the Markov binomial distribution. 91d:60050

Bulinskii, A. V. (with Doukhan, Paul) Vitesse de convergence dans le théorème de limite centrale pour des champs mélangés satisfaisant des hypothèses de moment faibles. (English summary) [Rates in the central limit theorem for mixing random fields satisfying weak moment conditions] 91j:60034

Bykov, S. I. Asymptotic normality of randomized decomposable statistics in a nonregular multinomial scheme. (Russian) (see 91b:60003)

- (with Ivanov, V. A.) Conditions for the asymptotic normality of multidimensional randomized decomposable statistics. **91e:60059**
- Callaert, H. *see* Aerts, Marc, **91a:60056**
- Čekanavičius, Vydas Approximation by accompanying distributions and asymptotic expansions. II. **91f:60046b**
- Approximation by accompanying distributions and asymptotic expansions. I. (Russian. English and Lithuanian summaries) **91f:60046a**
- Chatterji, S. D. Asymptotic formulae derived from the central limit theorem. **91m:60039**
- Cheng, Shi Hong Weak convergence of general adapted arrays of random variables. (Chinese) **91e:60060**
- Cherapov, E. N. Limit distribution of a functional connecting the maximum and minimum of partial sums of independent random variables. (Russian) (see **91g:60003**)
- Choi, Kihson Local limit theorem for the distribution of S_n . **91e:60061**
- Cox, D. R. *see* Davison, A. C., **91a:60028**
- Csörgő, Miklós (with Horváth, Lajos) Asymptotic tail behavior of uniform multivariate empirical processes. **91f:60058**
- Csörgő, Sándor (with Mason, David M.) Approximations of weighted empirical processes with applications to extreme, trimmed and self-normalized sums. (see **91j:60004**)
- Limit theorems for sums of order statistics. **91f:60047**
- Cutler, Colleen D. (with Dawson, Donald A.) Nearest-neighbor analysis of a family of fractal distributions. **91d:60051**
- Dabrowski, Andrzej Robert Extremal point processes and intermediate quantile functions. **91j:60035**
- Danielyan, E. A. *see* Liese, Friedrich, **91c:60027**
- Darling, R. W. R. Infinite-dimensional stochastic difference equations for particle systems and network flows. **91e:60062**
- Dasgupta, Ratan Some further results on nonuniform rates of convergence to normality. **91j:60036**
- Davison, A. C. (with Cox, D. R.) Some simple properties of sums of random variables having long-range dependence. **91k:60028**
- Dawson, Donald A. *see* Cutler, Colleen D., **91d:60051**
- Dehling, Harold (with Taqqu, Murad S.) The empirical process of some long-range dependent sequences with an application to U -statistics. **91c:60025**
- Deng, Wei Cai (with Ouyang, Zhao) A multivariable Berry-Esseen theorem under some restrictive conditions. (Chinese) **91a:60060**
- Denker, Manfred (with Jakubowski, Adam) Stable limit distributions for strongly mixing sequences. **91e:60063**
- Dinges, H. Special cases of second order Wiener germ approximations. **91h:60026**
- Divaani, G. On semi-o-Laplace distributions. **91h:60019**
- Donkhan, Paul *see* Bulinskii, A. V., **91j:60034**
- Doukhan, Michael Central limit theorems for infinite urn models. **91a:60061**
- Eismahl, John H. J. *see* Beltrami, Jan, **91k:60027**
- Elekta, Ya. I. Limit distribution of time averages for processes with semi-Markov interference of chance. **91j:60037**
- El-Fahham, Mostafa On the convergence in a local limit theorem for the densities of sums of independent random variables. (Not in MR)
- El-Shandidy, M. A. *see* Barakat, H. M., **91m:60037**
- Falk, Michael A note on generalized Pareto distributions and the k upper extremes. **91j:60038**
- Ferre, Raül Central limit theorems for local martingales taking values in the space of tempered distributions. **91k:60029**
- Fodor, János C. On domain of attraction of the double exponential distribution. **91j:60039**
- Fermanov, Sh. K. Estimates of the rate of convergence in the local limit theorem for countable Markov chains. (see **91j:60003**)
- Gafurov, M. U. (with Khamdamov, I. M.) An estimate of the rate of convergence in the law of large numbers for sums of order statistics and their applications. (see **91j:60004**)
- Gamkrelidze, N. G. Letter to the editors: "The connection between the local theorem and the integral theorem for lattice distributions" [Teor. Veroyatnost. i Primenen. 13 (1968), 175–179; MR 36 #7176] and "A method for proving the central limit theorem" [ibid. 25 (1980), no. 3, 619–625; MR 82k:60043]. (Russian) **91j:60040**
- Gaposhkin, V. F. An estimate for the moments of weighted sums of mixing processes. **91m:60062**
- Giratis, L. A central limit theorem for polynomial forms. I. **91c:60026**
- (with Surgailis, D.) A limit theorem for polynomials of a linear process with long-range dependence. **91f:60048**
- A central limit theorem for polynomial forms. II. **91m:60040**
- Girko, V. L. Asymptotics of the distribution of the spectrum of random matrices. **91h:60027**
- Gladkov, B. V. A central limit theorem for sums of random variables, any r of which are independent. **91k:60030**
- Godbole, Anant P. Degenerate and Poisson convergence criteria for success runs. **91h:60028**
- Goldfild, S. M. *see* Nagae, A. V., **91k:60032**
- Götze, Friedrich Edgeworth expansions in functional limit theorems. **91d:60052**
- (with Hipp, Christian) Local limit theorems for sums of finite range potentials of a Gibbsian random field. **91j:60041**
- Griffin, Philip S. (with Pruitt, William E.) Asymptotic normality and subsequential limits of trimmed sums. **91a:60063**
- Griša, A. G. On a paper of Magda Peligrad. (Russian) (see **91e:60006**)
- Domains of attraction for mixing sequences. **91e:60064**
- Gut, Allan Convergence rates for record times and the associated counting process. **91m:60041**
- Guyon, Xavier (with León R., José Rafael) Convergence en loi des H -variations d'un processus gaussien stationnaire sur \mathbb{R} . (English summary) [Convergence in law of the H -variations of a stationary Gaussian process in \mathbb{R}] **91d:60053**
- de Haan, Laurens (with Resnick, Sidney I.; Rootzén, Holger; de Vries, Casper G.) Extremal behaviour of solutions to a stochastic difference equation with applications to ARCH processes. **91g:60029**
- *see also* Balkema, A. A., **91j:60033**
- Häussler, Erich On the rate of convergence in ordinary and functional central limit theorems for martingales. (see **91j:60003**)
- Hahn, Marjorie G. (with Kuelbs, James D.) Universal asymptotic normality for conditionally trimmed sums. **91g:60030**
- (with Kuelbs, James D.; Weiner, Daniel C.) The asymptotic joint distribution of self-normalized censored sums and sums of squares. **91i:60059**
- (with Kuelbs, James D.; Weiner, Daniel C.) The asymptotic distribution of magnitude-Winsorized sums via self-normalization. **91a:60064**
- Hall, Peter Gavin Asymptotic properties of the bootstrap for heavy-tailed distributions. **91j:60042**
- Harel, Michel (with Puri, Madan Lal) Weak convergence of serial rank statistics under dependence with applications in time series and Markov processes. **91h:60029**
- (with Puri, Madan Lal) Weak convergence of the serial linear rank statistic with unbounded scores and regression constants under mixing conditions. **91h:60030**
- Heathcote, C. R. (with Häussler, Jörg) The first zero of an empirical characteristic function. **91i:60060**
- Heinrich, Lothar (with Wolf, Werner) Uniform and nonuniform approximations of U -statistics by stable distributions. **91g:60031**
- Asymptotic expansions in the central limit theorem for a special class of m -dependent random fields. II. Lattice case. **91h:60031**
- Nonuniform bounds for the error in the central limit theorem for random fields generated by functions of independent random variables. **91i:60061**
- Herrmann, Horst On a Paditz's problem concerning the restricted convergence on a half-axis in the local central limit theorem. **91j:60043**
- Hesse, C. H. Rates of convergence for the empirical distribution function and the empirical characteristic function of a broad class of linear processes. **91k:60031**
- Hipp, Christian *see* Götze, Friedrich, **91j:60041**
- Höglund, Thomas An asymptotic expression for the probability of ruin within finite time. **91d:60054**
- *see also* Robinson, John; et al., **91i:60069**
- Holst, Lars (with Janson, Svante) Poisson approximation using the Stein-Chen method and coupling: number of exceedances of Gaussian random variables. **91i:60062**
- *see also* Robinson, John; et al., **91i:60069**
- Horowitz, Joseph A uniform law of large numbers and empirical central limit theorem for limits of finite populations. **91k:60063**
- Horváth, Lajos *see* Csörgő, Miklós, **91h:60058**
- Hüsler, Jörg Limit distributions of multivariate extreme values in nonstationary sequences of random vectors. **91h:60020**
- Extreme values and high boundary crossings of locally stationary Gaussian processes. **91j:60044**
- *see also* Heathcote, C. R., **91i:60060**
- Indira, N. K. *see* Menon, V. V., **91m:60045**
- Ivanov, V. A. *see* Bykov, S. I., **91e:60059**
- Jakubowski, Adam (with Kobus, Maria) α -stable limit theorems for sums of dependent random vectors. **91a:60065**
- *see also* Denker, Manfred, **91e:60063**
- Janson, Svante *see* Holst, Lars, **91i:60062**
- Janssen, Arnold The domain of attraction of stable laws and extreme order statistics. **91i:60065**
- Jensen, Jens Ledet Asymptotic expansions for strongly mixing Harris recurrent Markov chains. **91d:60055**
- *see also* Barbour, A. D., **91a:60057**
- de Jong, Peter A central limit theorem for generalized multilinear forms. **91m:60042**
- Kakadzhinov, B. Some equivalent statements in a local limit theorem for densities. (Russian. English summary) (Not in MR)
- Karowski, Michał *see* Barbour, A. D.; et al., **91m:60038**
- Kennedy, Douglas P. (with Kertz, Robert P.) Limit theorems for threshold-stopped random variables with applications to optimal stopping. **91e:60065**
- Kern, Walter On the rate of convergence of some stochastic processes. **91d:60056**
- Kertz, Robert P. *see* Kennedy, Douglas P., **91e:60065**
- Khamdamov, I. M. *see* Gafurov, M. U., **91j:60004**
- Khashimov, Sh. A. Conditions for the asymptotic normality of generalized U -statistics of dependent vectors. (Russian) **91e:60066**
- Kirichuk, P. A. Refining the central limit theorem for a sum of random variables that are defined on a periodic Markov chain. (Russian) **91e:60067**
- Kir'yanova, L. V. (with Rotar', V. I.) Nonclassical conditions for the convergence of convolutions to the Poisson distribution. (Russian) (see **91h:60003**)
- (with Rotar', V. I.) The rate of convergence in a central limit theorem for a martingale. (Russian) (see **91j:60002**)
- Kobus, Maria *see* Jakubowski, Adam, **91a:60065**
- Kokic, P. N. (with Weber, N. C.) An Edgeworth expansion for U -statistics based on samples from finite populations. **91e:60068**
- Kolchinskii, V. I. Convergence of the empirical characteristic functionals. (see **91j:60004**)
- Korolev, V. Yu. Nonuniform estimates for the stability of the normal law to random perturbations of the scale parameter and some of its applications. (Russian) **91m:60043**
- The asymptotic distributions of random sums. **91e:60069**
- Approximation of the distributions of sums of a random number of independent random variables by mixtures of Gaussian measures. **91d:60057**
- Approximation of distributions of sums of a random number of independent random variables by mixtures of normal laws. **91e:60070**
- Korolyuk, V. S. (with Borovskikh, Yu. V.) A random symmetric polynomial with increasing degree. (Russian. English summary) **91e:60071**
- (with Borovskikh, Yu. V.) U -statistics with increasing powers. (Russian. English summary) **91j:60045**
- Krivorukov, V. P. *see* Marushia, M. N., **91f:60050**
- Kruglov, V. M. Normal and degenerate convergences of random sums. **91h:60032**
- Kubacki, Krzysztof S. Remarks on the convergence of moments in a random central limit theorem. **91d:60058**
- Kuelbs, James D. *see* Hahn, Marjorie G.; et al., **91a:60064**; **91g:60030** and **91i:60059**
- Leonenko, N. N. Sojourns of multidimensional Gaussian random fields with dependent components. **91e:60072**
- León R., José Rafael *see* Guyon, Xavier, **91d:60053**

- Lejanovský, Antonín** Sur la norme de Fourier. IV. (Russian and Czech summaries) [On the Fourier norm. IV] 91g:60032
- Levashov, M. V.** Limit theorems of Poisson type for nonhomogeneous U -statistics. (Russian. English summary) (Not in MR)
- Levental, Shlomo** Uniform CLT for Markov chains with a countable state space. 91d:60059
- Liese, Friedrich** (with Danielyan, E. A.) An estimator for the variance in the central limit theorem for dependent random variables. 91c:60027
- Lin, Zheng Yan** Laws of large numbers for weighted sums of random variables and random elements. 91f:60049
- Löynes, R. M.** The variance and the range of i.i.d. random variables. 91i:60066
- Macht, Wolfgang** (with Wolf, Werner) The local limit problem and Hölder-continuity. 91f:60021
- Mal'boroda, R. E.** On the asymptotics of empirical moment-generating functions of random variables. 91a:60066
- Maller, Ross A.** Defining extremes and trimming by minimum covering sets. 91m:60044
- Mamurov, I. N.** A uniform estimate for the convergence rate in a central limit theorem for sums of a random number of random variables. (Russian) 91c:60073
- Marushin, M. N.** (with Krivorukov, V. P.) Convergence of moments of even order for sums of a random number of independent identically distributed variables. (Russian) 91f:60050
- On a convergence to the moments of the Poisson law for sums of a random number of independent variables. 91f:60051
- Mason, David M.** See Csörgő, Sándor, (91j:60004)
- Meerschaert, Mark M.** Moments of random vectors which belong to some domain of normal attraction. 91h:60033
- Melamed, I. A.** Limit theorems in the set-up of summation of a random number of independent identically distributed random variables. 91d:60060
- A local limit theorem for densities and large deviations of sums of a random number of random variables. 91c:60074
- Menou, V. V.** (with Indira, N. K.) A Poisson approximation in an urn model with indistinguishable balls. 91m:60045
- Meredov, B.** Equivalent statements in a limit theorem. (Russian) 91f:60052
- Miao, Bai Qi** (with Zhao, Lin Cheng) Nonuniform bounds of normal approximation for finite-population U -statistics. I. (Chinese summary) 91a:60067a
- (with Zhao, Lin Cheng) Nonuniform bounds of normal approximation for finite-population U -statistics. II. (Chinese summary) 91a:60067b
- Mikhailov, V. G.** Asymptotic normality of symmetric decomposable statistics in an inhomogeneous scheme. (Russian) 91c:60075
- Mikosch, T.** The rate of convergence in the functional central limit theorem for random quadratic forms with some applications to the law of the iterated logarithm. 91d:60061
- Mirakhsmedov, Sh. A.** Asymptotic expansion of a characteristic function of randomized decomposable statistics in a multinomial scheme. (Russian) (see 91b:60003)
- A local limit theorem for an array of lattice random variables. (Russian) (see 91j:60002)
- Randomized decomposable statistics in a generalized allocation scheme over a countable set of cells. (Russian) 91c:60076
- Mukhamedov, A. K.** On the global form of the central limit theorem for weakly dependent random fields. (Russian) (see 91b:60030)
- Mukhamedzhanov, K. A.** A local theorem. (Russian) 91c:60077
- Mukhin, A. B.** Limit theorems for local probabilities of sums of independent multidimensional random variables. (Russian) 91d:60062
- Local probabilities of sums of independent random variables. 91c:60078
- Nagiev, A. V.** (with Gol'dfild, S. M.) The limit theorem for the uniform distribution on the circumference. 91k:60032
- Nezarov, V. B.** Two identities for sums of lattice random variables. (Russian) 91f:60053
- Niculescu, Florentina-Rodica** On asymptotic behaviour of two-sided stopping rules. 91d:60063
- Nieuwenhuis, Gert** (with Ruymgaart, Frits H.) Some stochastic inequalities and asymptotic normality of serial rank statistics in general linear processes. 91h:60034
- Novaklis, Rimas** A central limit theorem for weighted martingales with applications. 91f:60054
- Oney, Edward** On the rate of convergence in extreme value theory. 91c:60079
- Ostrovskii, E. I.** A Banach-space-valued noncentral limit theorem and its application. (Russian) 91j:60046
- Ouyang, Zhao** See Deng, Wei Cai, 91a:60060
- Peligrad, Magda** On Ibragimov-Iosifescu conjecture for ϕ -mixing sequences. 91b:60067
- Petek, Peter** The continued fraction of a random variable. 91a:60068
- Pittet, Boris** On a Daley-Kendall model of random rumours. 91k:60033
- Pratelli, Luca** La loi des grands nombres pour une suite échangeable. [The law of large numbers for an exchangeable sequence] 91c:60080
- Pruitt, William E.** See Griffin, Philip S., 91a:60063
- Puri, Madan Lal** See Harel, Michel, 91h:60029 and 91h:60030
- Quine, M. P.** (with Robinson, John) A linear random growth model. 91i:60068
- see also Robinson, John; et al., 91i:60069
- Rakhimov, I. U.** (with Sirazhdinov, S. Kh.) Approximation of the distribution of a sum in a scheme for the summation of independent random variables. (Russian) 91d:60064
- Rejali, Ali** Asymptotic normality of the area under a random increasing lattice polygon. 91g:60033
- Resnick, Sidney I.** See Willekens, E. K. E., 91a:60073 and de Haan, Laurens; et al., 91g:60029
- Rinott, Yosef** See Baldi, Pierre, 91c:60024 and 91f:60043
- Robinson, John** Limit theorems for standardized partial sums of weakly exchangeable arrays. 91i:60081
- (with Höglund, Thomas; Holst, Lars; Quine, M. P.) On approximating probabilities for small and large deviations in \mathbb{R}^d . 91i:60069
- see also Quine, M. P., 91i:60068
- Rootzén, Holger** See de Haan, Laurens; et al., 91g:60029
- Rosalsky, Andrew** See Adler, André, 91a:60055 and 91c:60057
- Rossberg, Hans-Joachim** The Berry-Esseen inequalities derived from restricted convergence. 91a:60069
- Rotar, V. I.** See Kir'yanova, L. V., (91b:60003) and (91j:60002)
- Rotaru, Elena** Pseudomoments and the central limit theorem. (Romanian summary) 91c:60082
- Concerning some asymptotic developments in the central limit theorem. (Romanian summary) (Not in MR)
- Rozovskii, L. V.** The rate of convergence in the weak law of large numbers. 91a:60070
- On the accuracy of the normal approximation. (Russian) 91i:60070
- Ruciński, Andrzej** See Barbour, A. D.; et al., 91m:60038
- Ruymgaart, Frits H.** See Nieuwenhuis, Gert, 91h:60034
- Senator, V. V.** Appearance of dependence on size in some estimates for the rate of convergence. (Russian) (see 91g:60004)
- Shao, Qi Man** Complete convergence of ρ -mixing sequences. (Chinese) 91h:60035
- On the invariance principle for ρ -mixing sequences of random variables. 91g:60034
- On the complete convergence for randomly selected sequences. 91i:60071
- Shiryakov, A. Yu.** Weak convergence of processes that are constructed with respect to solutions of a class of systems of linear equations. (Russian) 91m:60046
- Shiganov, I. S.** A note on numerical rate of convergence estimates in central limit theorem. 91d:60065
- Shiryayev, A. N.** Fundamental principles of martingale methods in functional limit theorems. (Russian) 91g:60035
- Shukurlaeva, Sh. K.** See Volodin, N. A., 91h:60036
- Silverstein, Jack W.** Weak convergence of random functions defined by the eigenvectors of sample covariance matrices. 91j:60047
- Sirazhdinov, S. Kh.** See Rakhimov, I. U., 91d:60064
- Stein, Charles M.** See Baldi, Pierre; et al., 91f:60043
- Sugakova, E. V.** Exponential asymptotics for sums of a geometric number of independent random variables. (Russian) 91m:60047
- Sunklodas, Jonas** An estimate for a bounded Lipschitz metric for sums of weakly dependent random variables. 91a:60071
- Surgailis, D.** See Giraitis, L., 91f:60048
- Szeidl, László** Limiting distributions of random symmetric polynomials of fifth degree. 91c:60028
- Analytic description of limit laws for sequences of random symmetric polynomials. 91j:60048
- Taqqu, Murad S.** See Dehling, Herold, 91c:60025 and Terrin, Norma, 91j:60049
- Terrin, Norma** (with Taqqu, Murad S.) A noncentral limit theorem for quadratic forms of Gaussian stationary sequences. 91j:60049
- Tyrrgins, G. A.** Random limit theorems and some problems in communication networks. (Russian) (see 91g:60003)
- Utev, S. A.** The central limit theorem for ϕ -mixing arrays of random variables. 91f:60055
- Vares, Maria Eulalia** A note on small random perturbations of dynamical systems. 91j:60050
- Volodin, N. A.** (with Shukurlaeva, Sh. K.) Rate of convergence of random sums of random vectors to Marshall-Olkin distribution. 91h:60036
- de Vries, Casper G.** See de Haan, Laurens; et al., 91g:60029
- Wang, Mei** (with Woodroffe, Michael) A local limit theorem for sums of dependent random variables. 91c:60083
- Wang, Yao Hung** A multivariate extension of Poisson's theorem. (French summary) 91c:60084
- From Poisson to compound Poisson approximations. 91a:60072
- Weber, N. C.** See Kokic, P. N., 91c:60068
- Weiner, Daniel C.** See Hahn, Marjorie G.; et al., 91a:60064 and 91i:60059
- Willekens, E. K. E.** (with Resnick, Sidney I.) Quantifying closeness of distributions of sums and maxima when tails are fat. 91a:60073
- Wolf, Werner** See Macht, Wolfgang, 91b:60021 and Heinrich, Lothar, 91g:60031
- Woodroffe, Michael** See Wang, Mei, 91c:60083
- Yang, Yong Xin** The joint asymptotic distributions of upper and lower extremes in exchangeable sequences. (Chinese. English summary) 91c:60029
- Yudin, M. D.** On sharpening conditions for the convergence of distributions of sums of dependent random variables. 91c:60085
- * Сходимость распределений сумм случайных величин. (Russian) [Convergence of distributions of sums of random variables] 91k:60034
- Approximation of distributions of sums of mixing random variables by distributions of class L . 91a:60074
- Yusupova, A. K.** See Azharov, T. A., (Not in MR)
- Zaitsev, A. Yu.** On the uniform approximation of distribution functions of sums of independent non-identically distributed random variables. (see 91j:60003)
- Zhang, Yi** Berry-Esseen bounds for U -statistics from dependent samples. (Chinese. English summary) 91g:60036
- Zhao, Lin Cheng** See Miao, Bai Qi, 91a:60067a and 91a:60067b
- Zolotarev, V. M.** Two analytic problems in probability theory. (Russian) 91h:60072
- Zver, N. M.** An estimate for the rate of convergence in a central limit theorem for $m(d)$ -dependent random fields. (Russian. English summary) 91a:60075

Items with secondary classifications in 60F05

- Afanasyev, B. A.** A queueing system under conditions of a high load with a quantum discipline. (Russian) (see 91g:60003)
- Alzawa, Yōji** See Kikuchi, Yasuhiro, (Not in MR)
- Aldous, David J.** Stein's method in a two-dimensional coverage problem. 91c:60014
- Aliev, A. O.** See Anisimov, V. V., 91f:60153
- Almasov, M.** (with Kulinich, G. L.) Limit theorems for one-dimensional nonhomogeneous stochastic diffusion equations with nonregular dependence of the coefficients on the parameter. 91f:60153
- Amosova, N. N.** Narrow zones of local normal attraction. 91b:60074
- Anisimov, V. V.** (with Chabanyuk, V. S.) Application of the Skorokhod reflection problem in diffusion approximation of queueing networks. 91m:60163
- Limit theorems for developing accumulation processes. (Russian) 91j:60142
- (with Aliev, A. O.) Limit theorems for recurrent processes of semi-Markov type. 91f:60153
- Arcones, Miguel A.** The bootstrap of the mean with arbitrary bootstrap sample size. (French summary) 91d:62019

- Arkhangelskii, A. N. Lower asymptotic relationships for large deviation probabilities. 91e:60088
 — Lower bounds for the probabilities of large deviations of sums of independent random variables. 91h:60022
- Basu, A. K. (with Sen Roy, S.) On rates of convergence in the central limit theorem for parameter estimation in general autoregressive model. 91j:62127
- Bentkus, Vydmantas-Kastytis Jurgio (with Bloznelis, Mindaugas P.) A nonuniform estimate for the rate of convergence in the central limit theorem with a stable limit distribution. (Russian. English and Lithuanian summaries) 91h:60015
- Biggins, J. D. The central limit theorem for the supercritical branching random walk, and related results. 91d:60203
- Bleher, P. M. (with Major, Péter) Limit theorems in statistical physics; on Dyson's hierarchical model. (see 91j:60003)
- Bloznelis, Mindaugas P. see Bentkus, Vydmantas-Kastytis Jurgio, 91h:60015
- Bolthausen, Erwin A note on the diffusion of directed polymers in a random environment. 91a:60270
- Borovskikh, Yu. V. see Korolyuk, V. S., 91e:60018 and 91m:60014
- Bradley, Richard C. On p -mixing except on small sets. 91m:60068
- Britikov, B. E. Limit behavior of a number of trees of a given size in a random forest of nonrooted trees. (see 91j:60002)
- Bronsamer, Gunnar A. A simultaneous almost everywhere central limit theorem for diffusions and its application to path energy and eigenvalues of the Laplacian. 91h:60109
- Brozos, Henk Convergence in mean of some characteristics of the convex hull. 91h:60014
- Buldygin, V. V. (with Solntsev, S. A.) * Функциональные методы в задачах суммирования случайных величин. (Russian) [Functional methods in problems of the summation of random variables] 91h:60013
- de la Cal, Jesús On the limit distribution of multiplicative functions with values in the interval $[-1, 1]$. 91e:11103
- Chabanyuk, V. S. see Anisimov, V. V., 91m:60163
- Chen, Jia Xin Asymptotic distribution of sample covariance sequences in linear processes. (Chinese. English summary) 91h:62025
- Chiang, Tsu Shu (with Chow, Yun Shyong) A limit theorem for a class of inhomogeneous Markov processes. 91g:60087
- Chow, Yun Shyong see Chiang, Tsu Shu, 91g:60087
- Chrysaphinou, Ourania (with Papastavridis, Stavros G.) Limit distribution for a consecutive- k -out-of- n : F system. 91h:60150
- Colrög, Sándor An extreme-sum approximation to infinitely divisible laws without a normal component. 91a:60046
 — (with Mason, David M.) Bootstrapping empirical functions. 91a:62044
 — A probabilistic approach to domains of partial attraction. 91h:60064
- Dahlhaus, Rainer Nonparametric spectral analysis with missing observations. 91h:62195
- Deheuvels, Paul (with Mason, David M.) Bahadur-Kiefer-type processes. 91j:60055
- Dembo, Amir On random determinants. 91a:62125
- Deo, C. M. A functional central limit theorem for the quadratic variation of a class of Gaussian random fields. (French summary) 91c:60044
- (Diaconis, Persi) see Harel, Ariel, 91d:60163
- Ditkovskii, I. R. (with Sil'vestrov, D. S.) Limit theorems for integral-type functionals of homogeneous Markov processes in a scheme of series. 91h:60059
- Donati-Martin, C. Le problème de Buffon-Syngé pour une corde. (English summary) [The Buffon-Syngé problem for a string] 91j:60018
- Eleiko, Ya. I. Limit distribution for processes with semi-Markov interference of chance. 91a:60229
- Ellis, Richard S. (with Wang, Kong Ming) Limit theorems for the empirical vector of the Curie-Weiss-Potts model. 91m:62023
- Evans, Steven N. Rescaling the vacancy of a Boolean coverage process. 91d:60024
- Fierro, Raúl Existence and uniqueness of a martingale problem in $D(\mathbb{R}_+, \mathcal{D}^p)$. 91h:60003
- Filajeto, Philippe (with Soria, Michèle) Gaussian limiting distributions for the number of components in combinatorial structures. 91c:05012
- Gießing, R. (with Steinebach, Josef) Invariance principles for compound renewal processes with applications. 91j:60062
- Giné, Evarist (with Marcus, Michael B.; Zinn, Joel) On random multipliers in the central limit theorem with p -stable limit, $0 < p < 2$. 91m:60013
- Goldie, Charles M. (with Greenwood, P. E.) Central limit results for random fields. (see 91j:60003)
- Greenwood, P. E. see Goldie, Charles M., (91j:60003)
- Grishechkin, S. A. Nonlinear normalization in Urbanik's convolutions. 91c:60035
- Gribel, Rudolf (with Pitts, Susan M.) Perturbation and rearrangement aspects of renewal and harmonic renewal sequences. 91h:60146
- de Haan, Laurens (with Weissman, I.) The index of the outstanding observation among n independent ones. (see 91j:60004)
- Hall, Peter Gavin On the relative performance of bootstrap and Edgeworth approximations of a distribution function. 91m:62077
- Han, Guang Rong see Li, Cap Duk, (Not in MR)
- Harel, Ariel Letter to the editor on: "Honest Bernoulli excursions" [J. Appl. Probab. 25 (1988), no. 3, 464–477; MR 89m:60163] by L. Smith and P. Diaconis. 91d:60163
- Harel, Michel (with Puri, Madan Lal) Limiting behavior of U -statistics, V -statistics, and one sample rank order statistics for nonstationary absolutely regular processes. 91a:60006
 — (with Puri, Madan Lal) Weak convergence of the U -statistic and weak invariance of the one-sample rank order statistic for Markov processes and ARMA models. 91c:60003
- Hesse, C. H. A Bahadur-type representation for empirical quantiles of a large class of stationary, possibly infinite-variance, linear processes. 91h:62068
- Hooghiemstra, G. see Resing, J. A. C.; et al., 91a:93035 and 91m:90068
- Höpfner, Reinhard (with Jacod, Jean; Ladelli, Lucia) Local asymptotic normality and mixed normality for Markov statistical models. 91h:62035
- Ichenko, G. I. Decomposable statistics in an inverse occupancy problem. 91m:60022
- Jacod, Jean (with Mano, Pascal) Une évaluation de la distance entre les lois d'une semimartingale et d'un processus à accroissements indépendants. (English summary) [An estimate of the distance between the laws of a semimartingale and of a process with independent increments] 91d:60006
 — see also Höpfner, Reinhard; et al., 91h:62035
- Janssen, Arnold (with Mason, David M.) On the rate of convergence of sums of extremes to a stable law. 91h:60045
- Janssen, Paul (with Veraverbeke, Noël; Serfling, Robert J.) U -statistics on Winsorized and trimmed samples. 91j:62060
- Jin, Xing (with Wang, Rong Xin) On the speed of convergence for the queue length process of the $GI/G/k$ system in heavy traffic. 91m:60168
- Karr, Alan F. see Zucker, David M., 91e:62108
- Kasitskaya, E. I. see Knopov, P. S., 91e:62151
- Keane, Michael see Resing, J. A. C.; et al., 91a:93035 and 91m:90068
- Kelly, Frank P. see Sazotika, Władysław, 91h:60106
- Kennedy, Douglas P. (with Kertz, Robert P.) The asymptotic behavior of the reward sequence in the optimal stopping of i.i.d. random variables. 91m:60077
- Kertz, Robert P. see Kennedy, Douglas P., 91m:60077
- Key, Eric S. A probabilistic approach to a conjecture of Ramanujan. 91d:11100
- Khanin, A. G. An estimate for the rate of convergence in the central limit theorem for mean-square measure of quality of the S -statistic of a density. (Russian) 91h:62041
- Khashimov, Sh. A. Asymptotic properties of functions of spacings. 91e:62128
- Khusanbaev, Ya. M. The Poisson theorem for combinatorial sums. (Russian) 91d:60019
- Kikuchi, Yasuhiro (with Aizawa, Yōji) Anomalous convergence of the time average in semi-Markovian chaotic dynamics. (Not in MR)
- Knopov, P. S. (with Kasitskaya, E. I.) Asymptotic properties of least-square estimates of Gaussian regression for random fields. 91d:62151
- Kokic, P. N. A Berry-Esseen bound for the ratio estimator. 91d:62011
- Kolassa, John E. (with McCullagh, Peter) Edgeworth series for lattice distributions. 91h:62036
- Korolyuk, V. S. (with Svishchuk, A. V.) Semi-Markov random evolutions—phase aggregation and applications. 91e:60185
 — (with Svishchuk, A. V.) A central limit theorem for inhomogeneous semi-Markov random evolutions. 91h:60071
 — Central limit theorem for semi-Markov random evolutions. 91a:60230
 — (with Borovskikh, Yu. V.) UH -statistics. 91c:60018
 — (with Borovskikh, Yu. V.) Rate of convergence in the central limit theorem for UH -statistics. (Russian) 91m:60014
- Kudlaev, E. M. Conditions for the asymptotic normality of decomposable statistics with contiguous alternatives. (Russian) (see 91h:60003)
- Summation of some dependent random variables with values in locally compact abelian groups. 91a:60018
- Kulnich, G. L. see Almazov, M., 91h:60153
- Lacey, Michael T. (with Philipp, Walter) A note on the almost sure central limit theorem. 91c:60100
- Ladelli, Lucia see Höpfner, Reinhard; et al., 91h:62035
- Lagodowski, Z. A. (with Rychlik, Zdzisław) Weak convergence of sequences of random elements with multidimensional random indices. 91h:60133
- Lamberton, Damien (with Pages, Gilles) Sur l'approximation des réduites. (English summary) [On the approximation of réduites] 91j:60081
- Lazrieva, N. L. (with Torondzhadze, T. A.) Asymptotic properties of an M -estimate in a general statistical experiment scheme. (Russian) 91h:62031
- Ledoux, Michel (with Talagrand, Michel) Comparison theorems, random geometry and some limit theorems for empirical processes. 91c:60036
- Lee, Tsong-Yow Conditioned limit theorems of stopped critical branching Bessel processes. 91g:60099
 — Conditional limit distributions of critical branching Brownian motions. 91m:60154
- Letta, Giorgio Sur les théorèmes de Hewitt-Savage et de de Finetti. [On the Hewitt-Savage and de Finetti theorems] 91h:60030
- Li, Cap Duk (with Han, Guang Rong) Asymptotic distribution of the dynamic stochastic approximation process. (Korean. English summary) (Not in MR)
- Lil, Keh Shie (with Rosenblatt, Murray) Asymptotic normality of cumulant spectral estimates. 91j:62137
- Lotov, V. I. On the asymptotics of distributions in problems with two boundaries for random walks defined on a Markov chain. (Russian) 91e:60196
- Major, Péter see Bleher, P. M., (91j:60003)
- Malinovskii, V. K. Integral and local limit theorems for recurrent Markov renewal processes. (Russian) 91m:60161
- Mamator, Kh. M. Estimation of the Kolmogorov distance between (one-dimensional) distributions of stochastic integrals. (Russian) 91c:60072
- Mano, Pascal see Jacod, Jean, 91d:60006
- Mantavilius, Eugenijus A nonuniform estimate in the central limit theorem for additive functions. 91c:11046
- Marcus, Michael B. see Giné, Evarist; et al., 91m:60013
- Masol, V. I. Asymptotic behavior of some statistics of a $(0, 1)$ -vector. (Russian) 91h:60029
 — Random binary sequences with a given number of steps. 91e:60031
- Mason, David M. see Colrög, Sándor, 91a:62044; Janssen, Arnold, 91h:60045 and Deheuvels, Paul, 91j:60055
- Matveichuk, S. A. (with Petunin, Yu. I.) Generalized Bernoulli schemes that arise in order statistics. I. 91j:62056
- Mazhuga, Yu. I. Estimates for the asymptotics of Markovian times in terms of the potential of a nonterminating Markov process. (Russian) 91h:60080
- McCullagh, Peter see Kolassa, John E., 91h:62036
- Mieks, Joachim see Pham Dinh Tuan; et al., 91g:62033
- Mukhopadhyay, Nitish see Vik, G., 91h:62170
- Nezorev, V. B. Records: four representations and ten problems. (Russian) 91c:60067
- Nguyen Bac Van On the statistical analysis of a random number of observations. 91e:62212
- Nikulin, M. S. A variant of the generalized omega-square statistic. (Russian) 91h:62036
- Nummelin, Esa A conditional weak law of large numbers. 91f:60057
- Obretenov, A. On the rate of convergence for the extreme value in the case of IFR-distributions. 91e:60254
- Oelschläger, Karl Limit theorems for age-structured populations. 91h:60117
- Ohring, Peter A central limit theorem on Heisenberg type groups. 91m:60019
- Olsher, G. J. see Resing, J. A. C.; et al., 91a:93035 and 91m:90068
- Pages, Gilles see Lambertson, Damien, 91j:60081

- Pan, Jin Zhu A theorem on weak convergence of sequences of multivariate distribution functions. (Chinese. English summary) **91i:60006**
- Pancheva, E. I. Self-decomposable distributions for maxima of independent random vectors. **91b:60014**
- Papastavridis, Stavros G. see Chrysaphinou, Ourania, **91i:60150**
- Paulauskas, Vyngantas (with Stiewe, Ch.) On the central limit theorem in $D[0, 1]$ and $D([0, 1], H)$. **91m:60015**
- Pavlov, A. I. Limit distribution of a number of cycles of a class of permutations. (Russian) (see **91j:60002**)
- Pemantle, Robin A time-dependent version of Pólya's urn. **91i:60030**
- Petunin, Yu. I. see Matveichuk, S. A., **91j:62056**
- Pham Dinh Tuan (with Möcks, Joachim; Sroka, Lothar) Asymptotic normality of double-indexed linear permutation statistics. **91g:62033**
- Philipp, Walter see Lacey, Michael T., **91e:60100**
- Pitersburg, V. I. A remark on the strong invariance principle for the shot effect process. (Russian) **91m:60087**
- Pitts, Susan M. see Grübel, Rudolf, **91f:60146**
- Protasov, A. M. see Vasil'ev, A. A., (**91b:60003**)
- Puri, Madan Lal see Harel, Michel, **91a:60006** and **91c:60003**
- Račkas, Alfredas On the martingale central limit theorem in Banach spaces. **91e:60019**
- Ragimov, F. G. A local limit theorem for the time of crossing of nonlinear boundaries. (Russian. English and Azerbaijani summaries) **91a:60125**
- Resing, J. A. C. (with de Vries, R. E.; Hooghiemstra, G.; Keane, Michael; Olsher, G. J.) Asymptotic behavior of random discrete event systems. **91a:93035**
- (with de Vries, R. E.; Hooghiemstra, G.; Keane, Michael; Olsher, G. J.) Asymptotic behavior of random discrete event systems. **91m:90068**
- Rosenblatt, Murray see Li, Keh Shin, **91j:62137**
- Rozovskiĭ, L. V. Probabilities of large deviations of sums of independent random variables with a common distribution function that belongs to the domain of attraction of a normal law. **91i:60078**
- Rychlik, Zdzisław see Łagodowski, Z. A., **91i:60133**
- Senator, V. V. On the estimate of the rate of convergence in the central limit theorem in Hilbert space. **91k:60012**
- Sen Roy, S. see Basu, A. K., **91j:62127**
- Seoh, Mansup Berry-Esseen-type bounds for signed linear rank statistics with a broad range of scores. **91j:62058**
- Serfling, Robert J. see Janssen, Paul; et al., **91j:62060**
- Shimura, Takaaki The strict domain of attraction of strictly stable law with index 1. **91m:60032**
- Šilvestrov, D. S. see Didkovskii, I. R., **91b:50059**
- Sinai, Ya. G. Limit theorems for multiple trigonometric Weyl sums. (Russian) **91e:11092** (Smith, Laurel A.) see Harel, Arie, **91d:60163**
- Sointsev, S. A. see Buldygin, V. V., **91i:60013**
- Soria, Michèle see Flajolet, Philippe, **91c:05012**
- Sroka, Lothar see Pham Dinh Tuan; et al., **91g:62033**
- Stadje, Wolfgang A nearly degenerate random variable occurring in an occupancy problem. **91d:60022**
- Steinbach, Josef see Giebling, R., **91j:60062**
- Stiewe, Ch. see Paulauskas, Vyngantas, **91m:60015**
- Sviridenko, M. N. A martingale approach to limit theorems for semi-Markov processes. **91b:60072**
- Svishchuk, A. V. A martingale approach to a central limit theorem in an averaging scheme for semi-Markov random evolutions. (Russian) **91e:60256**
- see also Korolyuk, V. S., **91b:60071** and **91c:60185**
- Sweeting, T. J. On conditional weak convergence. **91a:60008**
- Szczotka, Władysław (with Kelly, Frank P.) Asymptotic stationarity of queues in series and the heavy traffic approximation. **91k:60106**
- Talagrand, Michel see Ledoux, Michel, **91c:60036**
- Tanemura, Hideki Certain random motion of a ball colliding with infinite particles of jump type. **91a:60279**
- Todorovic, P. An extremal problem arising in soil erosion modeling. **91h:62022**
- Torondzhadze, T. A. see Lazrieva, N. L., **91k:62031**
- Uflyanov, Vladimir Vasil'evich Nonuniform bounds on the error of the normal approximation in H . **91c:60013**
- Vasil'ev, A. A. (with Protasov, A. M.) Distribution of linear decomposable statistics. (Russian) (see **91b:60003**)
- Veraverbeke, Noël see Janssen, Paul; et al., **91j:62060**
- Vik, G. (with Mukhopadhyay, Nitika) Triple sampling to construct fixed-width confidence intervals for estimable parameters based on U -statistics. (Italian summary) **91b:62170**
- Votitshek, A. V. Functional convergence of numerical stochastic models and estimates. (see **91m:65003**)
- de Vries, R. E. see Resing, J. A. C.; et al., **91a:93035** and **91m:90068**
- Vu Viet Yen Strong convergence of two-parameter vector-valued martingales and martingales in the limit. **91i:60019**
- Wang, Kong Ming see Ellis, Richard S., **91m:82023**
- Wang, Rong Xin see Jin, Xing, **91m:60168**
- Weissman, I. see de Haan, Laurens, (**91j:60004**)
- Wu, Tie-Jian L_1 nonuniform central limit bounds for generalized rank statistics. **91d:62063**
- Yamada, Keigo Limit theorems for jump shock models. **91d:60115**
- Yukich, J. E. Optimal matching and empirical measures. **91b:60005**
- Zaitsev, A. Yu. On the approximation of convolutions of multidimensional symmetric distributions by accompanying laws. (Russian) **91j:60028**
- Zalenskii, B. A. Accuracy of Gaussian approximation in Banach spaces. **91e:60021**
- Zanzotto, Pio Andrea On the stability of stochastic differential equations "with memory". (Italian summary) **91m:60119a**
- A stability theorem for a class of stochastic differential equations "with memory". (Italian summary) **91m:60119b**
- Zheng, Zu Kang The uniform convergence of the sum of independent random variables. **91a:60127**
- Zinn, Joel see Giné, Evarist; et al., **91m:60013**
- Zucker, David M. (with Karr, Alan F.) Nonparametric survival analysis with time-dependent covariate effects: a penalized partial likelihood approach. **91e:62108**

60F10 Large deviations

- Accardi, Luigi (with Olla, Stefano) Large deviation for stationary processes. (Italian summary) **91e:60086**
- de Acosta, Alejandro D. Large deviations for empirical measures of Markov chains. **91j:60051**
- Aleksevičienė, Aldona Large deviations for linear combinations of order statistics. (Russian. English and Lithuanian summaries) **91e:60087**
- Probabilities of large deviations for U -statistics and von Mises functionals. **91i:60073**
- Alsmeyer, Gerold Convergence rates in the law of large numbers for martingales. **91k:60035**
- Amosova, N. N. Narrow zones of local normal attraction. **91i:60074**
- Arkhangelskii, A. N. Lower asymptotic relationships for large deviation probabilities. **91c:60088**
- Lower bounds for the probabilities of large deviations of sums of independent random variables. **91b:60022**
- Basalykas, Alfredas (with Plukšas, A. E.; Statulevičius, Vytautas) Theorems of large deviations for multinomial forms and multiple stochastic integrals. (see **91j:60003**)
- Bentkus, Vidmantas-Kastytis Jurgis (with Zitkis, Ricardas) Probabilities of large deviations for L -statistics. **91m:60048**
- Bolthausen, Erwin Maximum entropy principles for Markov processes. **91m:60049**
- Borovkov, A. A. (with Mogul'skii, A. A.) On probabilities of small deviations for random processes. (Russian) **91c:60089**
- Burton, Robert M., Jr. (with Dehling, Herold) Large deviations for some weakly dependent random processes. **91f:60056**
- Chen, Mu Fa (with Lu, Yun Gang) Large deviations for Markov chains. **91i:60075**
- Chernykh, S. I. see Maslov, V. P., (**91j:60003**)
- Dagupta, Ratan Nonuniform rates of convergence to normality for strong mixing processes. **91h:60037**
- Dawson, Donald A. (with Gärtner, Jürgen) Large deviations and long-time behavior of stochastic particle systems. (see **91j:60003**)
- see also Rémillard, Bruno, **91g:60039**
- Dehling, Herold see Burton, Robert M., Jr., **91f:60056**
- Deuschel, Jean-Dominique (with Stroock, Daniel W.) A function space large deviation principle for certain stochastic integrals. **91e:60090**
- Doer, F. Kh. The strong law of large numbers for regular methods of summation of random variables. (Russian) **91a:60076**
- Dupuis, Paul (with Kushner, Harold J.) Stochastic approximation and large deviations: upper bounds and w.p.1 convergence. **91a:60077**
- see also Kushner, Harold J., (**91j:60003**)
- Ellis, Richard S. (with Wyner, Aaron D.) Uniform large deviation property of the empirical process of a Markov chain. **91d:60066**
- Gärtner, Jürgen see Dawson, Donald A., (**91j:60003**)
- Godovarnik, V. V. see Vinogradov, V. V., **91c:60096**
- Hoesman, Craig see Sind, Eric, **91c:60094**
- Inglot, Tadeusz (with Ledwina, Teresa) On probabilities of excessive deviations for Kolmogorov-Smirnov, Cramér-von Mises and chi-square statistics. **91i:60076**
- Ismatullayev, Sh. A. see Sirazhdinov, S. Kh.; et al., **91e:60093**
- Jain, Nareesh C. Large deviation lower bounds for additive functionals of Markov processes. **91c:60037**
- Kifer, Yuri A discrete-time version of the Wentzell-Freidlin theory. **91i:60077**
- Large deviations in dynamical systems and stochastic processes. **91e:60091**
- Kushner, Harold J. (with Dupuis, Paul) Large deviations estimates for systems with small (wideband) noise effects and applications to stochastic systems and communication theory. (see **91j:60003**)
- see also Dupuis, Paul, **91a:60077**
- Ledwina, Teresa see Inglot, Tadeusz, **91i:60076**
- Lu, Yun Gang see Chen, Mu Fa, **91i:60075**
- Malinovsky, V. K. Limit theorems for Harris Markov chains. II. **91e:60092**
- Maslov, V. P. (with Chernykh, S. I.) Global exact asymptotics of large deviations probabilities for diffusion and jump processes. (see **91j:60003**)
- Mei, Guo Ping (with Tan, Guang Xing) Large deviations of partial sums of independent random variables. (Chinese) (Not in MR)
- Mel'nikov, A. V. Probabilities of "large deviations" for multidimensional martingales. (Not in MR)
- Mirakshmedov, Sh. A. see Sirazhdinov, S. Kh.; et al., **91e:60093**
- Misevilius, G. On large deviations for a sum of type $\sum f(T^i)$. (Russian summary) (Not in MR)
- Mogul'skii, A. A. see Borovkov, A. A., **91c:60089**
- Morrow, Gregory J. (with Sawyer, Stanley) Large deviation results for a class of Markov chains arising from population genetics. **91d:60067**
- Mustafa, C. K. Weak convergence of residual median process for dependent or randomly censored samples. **91a:60078**
- Nummela, Esa A conditional weak law of large numbers. **91f:60057**
- Large deviations for functionals of stationary processes. **91j:60052**
- Ōkura, Hiroaki On the Donsker-Varadhan theory and its applications. (see **91j:60003**)
- Olla, Stefano see Accardi, Luigi, **91e:60086**
- Oodaira, Hiroshi Freidlin-Wentzell type estimates for a class of self-similar processes represented by multiple Wiener integrals. **91g:60038**
- Ostrovskii, E. I. Refining S. N. Bernstein's inequality. **91j:60053**
- Plukšas, A. E. see Basalykas, Alfredas; et al., (**91j:60003**)
- Rémillard, Bruno (with Dawson, Donald A.) Laws of the iterated logarithm and large deviations for a class of diffusion processes. (French summary) **91g:60039**
- Riauba, B. Large deviations of stationary random variables with strong mixing. (Russian. English and Lithuanian summaries) **91d:60068**
- Rozovskiĭ, L. V. Probabilities of large deviations of sums of independent random variables with a common distribution function that belongs to the domain of attraction of a normal

- law. 91f:60078
 Sawyer, Stanley *see* Morrow, Gregory J., 91d:60067
 Singh, Kesar Large deviations for noncentral t -statistics. 91j:60054
 Sirazhdinov, S. Kh. (with Mirakhmedov, Sh. A.; Ismatullaev, Sh. A.) Probabilities of large deviations for randomized decomposable statistics in a multinomial scheme. 91e:60093
 Shud, Eric (with Hoosman, Craig) Moderate- and large-deviation probabilities in actuarial risk theory. 91e:60094
 Statulevicius, Vytautas *see* Basalykas, Alfredas; et al., (91j:60063)
 Stroock, Daniel W. *see* Deuschel, Jean-Dominique, 91e:60090
 Tan, Guang Xing *see* Mei, Gao Ping, (Not in MR)
 Timashev, A. N. Multidimensional local theorems on large deviations in an equiprobable allocation scheme. (Russian) 91m:60050
 Tuftebaev, N. A. Probabilities of large deviations for sums of independent random vectors. (Russian) 91e:60095
 Veretenikov, A. Yu. On the theory of large deviations and on the spectral radius of positive integral operators. (Russian) (see 91g:60065)
 Vinogradov, V. V. (with Godovan'chuk, V. V.) Large deviations of sums of independent random variables without several maximal terms. 91e:60096
 Wyner, Aaron D. *see* Ellis, Richard S., 91d:60066
 Yao, Qi Wei Large deviations for the boundary crossing probabilities of some random fields. 91a:60079
 Zitikis, Rikardas *see* Bentkus, Vidmantas-Kastytis Jurgio, 91m:60048

Items with secondary classifications in 60F10

- Alzawa, Yoji Nonstationary chaos revisited from large deviation theory. 91k:82038
 Anantharam, Venkatesh A large deviations approach to error exponents in source coding and hypothesis testing. 91c:94015
 Barbour, A. D. (with Jensen, Jens Ledet) Local and tail approximations near the Poisson limit. 91a:60057
 Ben Arous, Gérard Methods de Laplace et de la phase stationnaire sur l'espace de Wiener. (English summary) [The Laplace and stationary phase methods on Wiener space] 91h:60070
 Benitz, Gerald R. (with Bucklew, James A.) Large deviation rate calculations for nonlinear detectors in Gaussian noise. 91b:94014
 Bolthausen, Erwin (with Schmock, Uwe) On the maximum entropy principle for uniformly ergodic Markov chains. 91c:60081
 Broniatowski, Michel (with Fuchs, Aimé) Comportement comparé de la loi des moyennes et des minimums de v.a. indépendantes équidistribuées. (English summary) [Laws of random variables whose mean and minimum behavior are similar] 91c:60015
 Bucklew, James A. (with Ney, Peter; Sadowsky, John S.) Monte Carlo simulation and large deviations theory for uniformly recurrent Markov chains. 91m:60124
 — *see also* Benitz, Gerald R., 91b:94014 and Sadowsky, John S., 91b:94017
 Chiang, Tsu Shu (with Chow, Yun Shyong) A limit theorem for a class of inhomogeneous Markov processes. 91g:60087
 Chow, Pao Liu (with Menaldi, José-Luis) Exponential estimates in exit probability for some diffusion processes in Hilbert spaces. 91e:60176
 Chow, Yun Shyong *see* Chiang, Tsu Shu, 91g:60087
 Cutland, Nigel J. An action functional for Lévy Brownian motion. 91e:60132
 Dasgupta, Ratan Some further results on nonuniform rates of convergence to normality. 91j:60036
 Day, Martin Large deviations results for the exit problem with characteristic boundary. 91k:60062
 Dorlas, T. C. (with Lewis, John Trevor; Pulé, J. V.) The Yang-Yang thermodynamic formalism and large deviations. 91m:82005
 Dupuis, Paul (with Ishii, Hitoshi; Sonner, H. Mete) A viscosity solution approach to the asymptotic analysis of queueing systems. 91g:35046
 Dzundza, A. I. The probability of large deviations in a stochastic variational problem. (Russian) (see 91k:60003)
 Freidlin, Mark Random perturbations of infinite-dimensional dynamical systems. (see 91j:60003)
 Fuchs, Aimé *see* Broniatowski, Michel, 91c:60015
 Galves, Antonio (with Schmitt, Bruno V.) Occurrence times of rare events for mixing dynamical systems. (French summary) 91m:58091
 Gandolfi, Alberto Uniqueness of the infinite cluster for stationary Gibbs states. 91c:60142
 Griego, Richard J. (with Korzeniowski, Andrzej) Asymptotics for certain Wiener integrals associated with higher order differential operators. 91c:35161
 Guo, Lei (with Huang, Da Wei; Hannan, E. J.) On ARX(∞) approximation. 91g:62070
 Hannan, E. J. *see* Guo, Lei; et al., 91g:62070
 He, Ying Hui Intervals of uniform convergence for probabilities of large deviations of simple linear rank statistics. (Chinese. English summary) 91d:62057
 Höglund, Thomas *see* Robinson, John; et al., 91f:60069
 Holst, Lars *see* Robinson, John; et al., 91f:60069
 Huang, Da Wei *see* Guo, Lei; et al., 91g:62070
 Ishii, Hitoshi *see* Dupuis, Paul; et al., 91g:35046
 Jennings, Linda W. *see* Young, Dean Max; et al., 91e:60055
 Jensen, Jens Ledet *see* Barbour, A. D., 91a:60057
 Jona-Lasinio, G. (with Mitter, P. K.) Large deviation estimates in the stochastic quantization of ϕ_2^4 . 91f:81094
 Kifer, Yuri * Random perturbations of dynamical systems. 91e:58159
 Kipnis, C. (with Olla, Stefano; Varadhan, S. R. S.) Hydrodynamics and large deviation for simple exclusion processes. 91h:60115
 Korzeniowski, Andrzej On diffusions that cannot escape from a convex set. 91c:60101
 — *see also* Griego, Richard J., 91c:35161
 Kourouklis, Stavros A relation between the Chernoff index and the Pitman efficacy. 91f:62042
 Lewis, John Trevor *see* Dorlas, T. C.; et al., 91m:82005
 Lopes, Artur O. An analogy of the charge distribution on Julia sets with the Brownian motion. 91a:58141
 — Entropy and large deviation. 91m:58092

- Mason, David M. An extended version of the Erdős-Rényi strong law of large numbers. 91a:60082
 McDiarmid, C. J. H. On the method of bounded differences. 91e:05077
 Meerkov, Semyon M. (with Runolfsson, T.) Theory of residence time control by output feedback. 91b:93182
 Melamed, I. A. Limit theorems in the set-up of summation of a random number of independent identically distributed random variables. 91d:60060
 — A local limit theorem for densities and large deviations of sums of a random number of random variables. 91e:60074
 Menaldi, José-Luis *see* Chow, Pao Liu, 91e:60176
 Mitter, P. K. *see* Jona-Lasinio, G., 91f:81094
 Ney, Peter *see* Bucklew, James A.; et al., 91m:60124
 Olla, Stefano *see* Kipnis, C.; et al., 91h:60115
 Pulé, J. V. *see* Dorlas, T. C.; et al., 91m:82005
 Quine, M. P. *see* Robinson, John; et al., 91f:60069
 Robinson, John (with Höglund, Thomas; Holst, Lars; Quine, M. P.) On approximating probabilities for small and large deviations in \mathbb{R}^d . 91f:60069
 Runolfsson, T. *see* Meerkov, Semyon M., 91b:93182
 Sadowsky, John S. (with Bucklew, James A.) On large deviations theory and asymptotically efficient Monte Carlo estimation. 91b:94017
 — *see also* Bucklew, James A.; et al., 91m:60124
 Schmitt, Bruno V. *see* Galves, Antonio, 91m:58091
 Schmock, Uwe Convergence of the normalized one-dimensional Wiener sausage path measures to a mixture of Brownian taboo processes. 91e:60231
 — *see also* Bolthausen, Erwin, 91c:60081
 Schneemeier, Wilhelm Weak convergence and Glivenko-Cantelli results for empirical processes of U -statistic structure. 91d:60083
 Seaman, John W., Jr. *see* Young, Dean Max; et al., 91e:60055
 Shao, Qi Man Complete convergence of ρ -mixing sequences. (Chinese) 91h:60035
 Sonner, H. Mete *see* Dupuis, Paul; et al., 91g:35046
 Stryunov, A. M. The probability of large deviations for the number of cells that contain r particles in a multinomial allocation scheme. (Russian) 91d:60023
 Varadhan, S. R. S. *see* Kipnis, C.; et al., 91h:60115
 Wu, Tie-Jian Contiguous alternatives which preserve Cramér-type large deviations for a general class of statistics. 91k:62046
 Young, Dean Max (with Seaman, John W., Jr.; Jennings, Linda W.) Kolmogorov inequalities for a class of continuous unimodal random variables with bounded support. 91e:60055
 Zabczyński, Jerzy Symmetric solutions of semilinear stochastic equations. 91a:60161
 Zaleski, B. A. Accuracy of Gaussian approximation in Banach spaces. 91e:60021
 — Probabilities of large deviations in a Hilbert space. 91h:60008

60F15 Strong theorems

- Adler, André On complete convergence of the sum of a random number of random variables. 91a:60080
 — A note on the almost sure limiting behavior of the maximum of a sequence of partial sums. 91c:60030
 — On the nonexistence of a law of the iterated logarithm for weighted sums of identically distributed random variables. 91f:60079
 Akulov, G. V. A limit theorem of the law of large numbers type for random determinants. (Russian) 91f:60080
 Arratia, Richard (with Waterman, Michael S.) The Erdős-Rényi strong law for pattern matching with a given proportion of mismatches. 91c:60031
 Beltrami, Jan (with Deheuvels, Paul) On the approximation of P-P and Q-Q plot processes by Brownian bridges. 91f:60081
 Berred, Mohamed Lois du logarithme itéré pour les valeurs extrêmes des distributions appartenant au domaine d'attraction de la loi de Gumbel. (English summary) [Laws of iterated logarithm for extremes belonging to the domain of attraction of the Gumbel distribution] 91d:60069
 — Laws of iterated logarithm for extremes belonging to the domains of attraction of the Fréchet and Weibull distributions. (French summary) 91d:60070
 Bingham, N. H. Moving averages. 91c:60032
 — (with Stadtmüller, Ulrich) Jakimovski methods and almost-sure convergence. 91f:60082
 Borovskikh, Yu. V. An estimate for the rate of convergence in the laws of large numbers for U -statistics. (Russian) 91f:60058
 Broniatowski, Michel (with Weber, Michel Jean Georges) Lois fortes des grands nombres pour des sommes de valeurs extrêmes. (English summary) [Strong laws of large numbers for sums of extreme values] 91d:60071
 Burg, Th. (with Drmota, Michael; Tichy, Robert F.) Some new results in summability theory. 91m:60051
 Chen, Jia Hua *see* Shi, Xi Quan; et al., 91f:60059
 Chen, Xi Ru (with Wu, Yue Hua) Strong law for mixing sequence. 91c:60033
 Chen, Zhao Gao An extension of Lai and Wei's law of the iterated logarithm with applications to time series analysis and regression. 91c:60097
 Christakos, Tassos C. Rate of convergence in the strong law of large numbers for U -statistics based on a multidimensionally indexed array of random variables. 91d:60072
 Darwich, Abdul Raouf Une loi du logarithme itéré pour les martingales locales multidimensionnelles et son application en régression linéaire stochastique. (English summary) [A law of iterated logarithm for càdlàg vector local martingales and its application in multiple linear regression] 91d:60073
 Deheuvels, Paul (with Steinebach, Josef) On the sample path behavior of the first passage time process of a Brownian motion with drift. (French summary) 91f:60083
 — (with Mason, David M.) Bahadur-Kiefer-type processes. 91f:60055
 — (with Mason, David M.) Nonstandard functional laws of the iterated logarithm for tail empirical and quantile processes. 91f:60056
 — (with Häusler, Erich; Mason, David M.) On the almost sure behaviour of sums of extreme values from a distribution in the domain of attraction of a Gumbel law. (French summary) 91b:60023
 — *see also* Beltrami, Jan, 91f:60081

- Divanji, G. (with Vasudeva, R.) Tail behaviour of distributions in the domain of partial attraction and some related iterated logarithm laws. 91f:60084
- Drnosta, Michael *see* Burg, Th.; et al., 91f:60051
- Einmahl, John H. J. (with Mason, David M.) Almost sure behaviour of weighted empirical processes in the tails. (see 91f:60004)
- (with Mason, David M.) A unifying approach to functional laws of the iterated logarithm and Glivenko-Cantelli theorems for weighted empirical processes. 91f:60085
- On the standardized empirical process. 91f:60098
- Einmahl, Uwe (with Mason, David M.) Darling-Erdős theorems for martingales. 91f:60099
- Erdős, Paul (with Révész, Pál) A new law of iterated logarithm. 91m:60052
- Farhane, Lotfi Lois limites fortes pour le k -ième espacement maximal. (English summary) [Strong limit laws for the k th maximal spacing] 91h:60024
- Feng, Ci Huang Erratum to: "A necessary and sufficient condition for the validity of the strong law of large numbers" [J. Math. Res. Exposition 6 (1986), no. 3, 88; MR 89c:60037] by S. L. Fu. (Chinese. English summary) 91f:60059
- (Fu, Shun Liang) *see* Feng, Ci Huang, 91f:60059
- Gantert, Nina Laws of large numbers for the annealing algorithm. 91f:60086
- Girko, V. L. Limit theorems for distributions of eigenvalues of random symmetric matrices. 91d:60074
- Gouet, Radu A martingale approach to strong convergence in a generalized Pólya-Eggenberger urn model. 91d:60075
- Griffin, Philip S. (with Kuelbs, James D.) Self-normalized laws of the iterated logarithm. 91f:60036
- Grill, Karl Upper classes for the increments of the fractional Wiener process. 91k:60037
- Gu, Ming Gao² (with Lai, Tze Leung) Functional laws of the iterated logarithm for the product-limit estimator of a distribution function under random censorship or truncation. 91c:60034
- Gut, Allan Limit points of sample maxima. 91d:60076
- Häusler, Erich *see* Deheuvels, Paul; et al., 91b:60023
- Hahn, Marjorie G. (with Kuelbs, James D.; Weiner, Daniel C.) A universal law of the iterated logarithm for trimmed and censored sums. 91a:60081
- Hall, Peter Gavin On the law of the logarithm for density estimators. 91h:60038
- Hong, Sheng Yan Some law of the iterated logarithm type results for oscillation moduli of the uniform empirical process. 91f:60060
- Horváth, Lajos Strong laws and limit theorems for local time of Markov processes. 91f:60087
- Hu, Tien Chung (with Móricz, Ferenc; Taylor, Robert Lee) Strong laws of large numbers for arrays of rowwise independent random variables. 91f:60061
- Huggins, R. M. The other law of the iterated logarithm for martingales. 91c:60035
- Kazanchyan, T. P. K. L. Chung's theorem for a scheme of series of independent random variables. (Russian. English and Armenian summaries) 91b:60025
- The law of the iterated logarithm in Chung form for stationary sequences of random variables. 91k:60038
- Kong, Fan Chao Convergence rates in the strong law for unbounded mixing sequences. (Chinese) 91f:60057
- Kuchkarov, Ya. Kh. The strong law of large numbers for dependent random variables. (Russian. Uzbek summary) 91k:60039
- Kuelbs, James D. *see* Hahn, Marjorie G.; et al., 91a:60081 and Griffin, Philip S., 91f:60036
- Lacey, Michael T. (with Philipp, Walter) A note on the almost sure central limit theorem. 91f:60100
- Lai, Tze Leung *see* Gu, Ming Gao², 91c:60034
- Ledoux, Michel (with Talagrand, Michel) Comparison theorems, random geometry and some limit theorems for empirical processes. 91c:60036
- Li, De Li The rate of convergence on the law of the iterated logarithm. 91k:60040
- Lia, Zheng Yan Inferior limits for increments of partial sums. (Chinese) 91f:60058
- Lia, Wen Relative entropy densities and a class of limit theorems of the sequence of m -valued random variables. 91f:60088
- An analytic technique to prove Borel's strong law of large numbers. (Not in MR)
- Martikainen, A. I. Fluctuations of a random argument of a Wiener process in the Skorokhod representation. (Russian) 91f:60101
- One-sided versions of the strong law of large numbers. 91e:60102
- Mason, David M. An extended version of the Erdős-Rényi strong law of large numbers. 91a:60082
- *see also* Deheuvels, Paul; et al., 91b:60023; Einmahl, Uwe, 91e:60099; Einmahl, John H. J., 91f:60085; Deheuvels, Paul, 91f:60055; 91f:60056 and Einmahl, John H. J., (91f:60004)
- McConnell, Terry R. (with Rieders, Eric) The two-parameter strong law for partially exchangeable arrays. 91d:60077
- Mikosch, T. Almost sure behavior of tail series in functional spaces. 91e:60103
- Molchanov, I. S. Empirical associated functionals and their application to the analysis of stable random sets and processes. 91k:60041
- Móricz, Ferenc Strong limit theorems for quasi-orthogonal random fields. 91a:60083
- *see also* Hu, Tien Chung; et al., 91f:60061
- Mukerjee, Hari A strong law of large numbers for nonparametric regression. 91f:60062
- Nayak, S. S. On the moments of the number of boundary crossings of sample extremes. 91e:60104
- Nechir, Abdel Hakim Sur le comportement asymptotique des combinaisons linéaires de statistiques d'ordre extrêmes issues d'une distribution appartenant au domaine d'attraction de la loi de Gumbel. (English summary) [On the asymptotic behavior of linear combinations of extreme order statistics from a distribution in the domain of attraction of a Gumbel law] 91m:60053
- Lois du logarithme itéré pour des combinaisons linéaires des valeurs extrêmes des distributions appartenant au domaine d'attraction de la loi de Gumbel. (English summary) [Laws of the iterated logarithm for linear combinations of extreme order statistics belonging to the domain of attraction of a Gumbel distribution] 91m:60054
- Norvaiša, Rimas A remark on some results on stability for empirical processes. 91f:60089
- Peligrad, Magda The r -quick version of the strong law for stationary ϕ -mixing sequences. 91k:60042
- Pemantle, Robin When are touchpoints limits for generalized Pólya urns? 91k:60043
- Philipp, Walter *see* Lacey, Michael T., 91f:60100
- Pruitt, William E. The rate of escape problem for a class of random walks. 91c:60037
- Révész, Pál *see* Erdős, Paul, 91m:60052
- Rieders, Eric *see* McConnell, Terry R., 91d:60077
- Rothmann, Mark D. *see* Russo, Ralph P., 91d:60078
- Russo, Ralph P. (with Rothmann, Mark D.) Maximal divergent uniform spacings. 91d:60078
- Schatte, Peter On uniform versions of the strong law of large numbers. 91a:60084
- Sherrashidze, T. L. Multidimensional analogues of an alternative of P. Lévy. (Russian) 91f:60090
- Shi, Xi Quan¹ (with Wu, C.-F. J.; Chen, Jia Hua) Weak and strong representations for quantile processes from finite populations with application to simulation size in resampling inference. (French summary) 91f:60059
- Shi, Zhan Loi du logarithme itéré pour le processus empirique associé aux U -statistiques. (English summary) [The law of iterated logarithm for the empirical process of U -statistic structure] 91d:60079
- Spătaru, Aurel Strengthening the Hsu-Robbins-Erdős theorem. 91m:60055
- Stadtmüller, Ulrich *see* Bingham, N. H., 91f:60082
- Steinbach, Josef *see* Deheuvels, Paul, 91f:60083
- Su, Chun On convergence of tail probability series in law of large numbers. 91f:60091
- Talagrand, Michel *see* Ledoux, Michel, 91c:60036
- Tanny, D. A new proof of the strong law without first moment. 91a:60085
- Taylor, Robert Lee *see* Hu, Tien Chung; et al., 91f:60061
- Tichy, Robert F. *see* Burg, Th.; et al., 91m:60051
- Trautner, Rolf A new proof of the Komlós-Révész theorem. 91d:60080
- Vasudeva, R. *see* Divanji, G., 91f:60084
- Waterman, Michael S. *see* Arratia, Richard, 91c:60031
- Weber, Michel Jean Georges *see* Broniatowski, Michel, 91d:60071
- Weiner, Daniel C. *see* Hahn, Marjorie G.; et al., 91a:60081
- Wu, C.-F. J. *see* Shi, Xi Quan¹; et al., 91f:60059
- Wu, Yue Hua *see* Chen, Xi Ru, 91c:60033
- Wu, Zong Qi A necessary and sufficient condition for the strong law of large numbers. (Chinese. English summary) 91f:60040
- Yu, Kai Fun On the uniform integrability and almost sure convergence of weighted sums. 91f:60092
- Zhulenev, S. V. Some remarks on the method of exponential estimates. (Russian) (see 91f:60002)
- The law of the iterated logarithm in the finite-dimensional case. (Russian) 91m:60056

Items with secondary classifications in 60F15

- Aaronson, Jon (with Denker, Manfred) Lower bounds for partial sums of certain positive stationary processes. 91e:28012
- (with Denker, Manfred) Upper bounds for ergodic sums of infinite measure preserving transformations. 91k:28018
- de Acosta, Alejandro D. (with Ledoux, Michel) On the identification of the limits in the law of the iterated logarithm in Banach spaces. 91f:60011
- Adler, André (with Rosalsky, Andrew) On the Chow-Robbins "fair" games problem. 91e:60057
- Alexander, Kenneth S. Unusual cluster sets for the LIL sequence in Banach space. 91a:60013
- (with Talagrand, Michel) The law of the iterated logarithm for empirical processes on Vapnik-Cervonenkis classes. 91c:60011
- Alt, Jean-Christian Une forme générale de la loi forte des grands nombres pour des variables aléatoires vectorielles. [A general form of the strong law of large numbers for vector-valued random variables] 91a:60014
- Anděl, Jiří (with Dupač, Václav) An extension of the Borel lemma. 91a:60092
- Balder, Erik J. Unusual applications of a.e. convergence. 91f:28002
- Beirlant, Jan (with Einmahl, John H. J.) Bahadur-Kiefer theorems for the product-limit process. 91k:60027
- Berkes, István (with Dehling, Herold) Almost sure and weak invariance principles for random variables attracted by a stable law. 91a:60045
- Bilmlinger, M. (with Drnosta, Michael; Tichy, Robert F.) A uniform law of the iterated logarithm for Brownian motion on compact Riemannian manifolds. 91f:60232
- Carbon, Michel Sur la convergence uniforme presque complète de quelques paramètres fonctionnels dans le cadre de processus multivariés fortement mélangés et non nécessairement bornés. (English summary) [On the almost complete uniform convergence of some functional parameters of strongly mixing multivariate and not necessarily bounded processes] 91b:62194
- Chai, Gen Xiang Consistency of nearest-neighbor density estimates of stationary processes. (Chinese) 91f:62043
- Christofides, Tassos C. (with Serfling, Robert J.) Maximal inequalities for multidimensionally indexed submartingale arrays. 91f:60119
- (with Serfling, Robert J.) Maximal inequalities and convergence results for generalized U -statistics. 91f:60137
- Daffer, Pete (with Schioppa-Kratina, Ioana) L^1 -tightness and the law of large numbers in $D(R)$. (French summary) 91d:60010
- Davis, Mark H. A. *see* Hemerly, E. M., 91e:62235
- Dehling, Herold *see* Berkes, István, 91a:60045
- Denker, Manfred *see* Aaronson, Jon, 91e:28012 and 91k:28018
- Derrvy, Luc (with Györfi, László) No empirical probability measure can converge in the total variation sense for all distributions. 91f:62089
- Drnosta, Michael *see* Bilmlinger, M.; et al., 91f:60232
- Dupač, Václav *see* Anděl, Jiří, 91a:60092
- Eberlein, Ernst Almost sure invariance principles for generalizations of martingales. (see 91f:60003)
- Strong approximation of continuous time stochastic processes. 91c:60041
- Egorov, V. A. Functional law of the iterated logarithm for ordered sums. 91m:60058
- Einmahl, John H. J. *see* Beirlant, Jan, 91k:60027
- Elton, John H. A multiplicative ergodic theorem for Lipschitz maps. 91a:47010
- Evans, Steven N. Rescaling the vacancy of a Boolean coverage process. 91d:60024
- Fan, Ai Hua A simplification principle and its applications. (Chinese) 91a:60093

- Gaposhkin, V. F. Series of block-orthogonal and block-independent systems. 91k:42032
- Giebling, R. (with Steinebach, Josef) Invariance principles for compound renewal processes with applications. 91j:60062
- Gijbels, Irène (with Veraverbeke, Noël) Sequential fixed-width confidence intervals for quantiles in the presence of censoring. 91b:62168
- Gut, Allan Cumulative shock models. 91j:60143
- Convergence rates for record times and the associated counting process. 91m:60041
- Györfi, László see Devroye, Luc, 91f:62089
- Haiman, George (with Puri, Madan Lal) A strong invariance principle concerning the J -upper order statistics for stationary m -dependent sequences. 91m:62084
- Haughton, Dominique Size of the error in the choice of a model to fit data from an exponential family. 91b:62072
- Hemerly, E. M. (with Davis, Mark H. A.) Strong consistency of the PLS criterion for order determination of autoregressive processes. 91e:62235
- Hoesman, Craig see Slud, Eric, 91e:60094
- Hong, Sheng Yan Laws of the iterated logarithm for nearest-neighbor density estimators. (Chinese) 91d:62044
- Some results on increments of Gaussian processes. (Chinese) 91j:60070
- Kasitskaya, E. I. see Knopov, P. S., 91d:62151
- Knopov, P. S. (with Kasitskaya, E. I.) Asymptotic properties of least-square estimates of Gaussian regression for random fields. 91d:62151
- Kováč, V. A. Convergence to zero of Gaussian sequences, and the asymptotic behavior of solutions of stochastic recurrence equations. (Russian) 91b:60105
- Lapeyre, Bernard (with Pages, Gilles; Sab, Karam) Sequences with low discrepancy—generalisation and application to Robbins-Monro. 91b:11075
- Le Breton, Alain (with Musiela, M.) Order of convergence of regression parameter estimates in models with infinite variance. 91a:62170
- Ledoux, Michel (with Talagrand, Michel) Some applications of isoperimetric methods to strong limit theorems for sums of independent random variables. 91b:60016
- see also Acosta, Alejandro D., 91b:60011
- Lin, Zheng Yan The increments of partial sums of a dependent sequence when the moment generating functions do not exist. 91d:60096
- Laws of large numbers for weighted sums of random variables and random elements. 91b:60049
- Madrecki, Andrzej On the p -Lévy-Baxter property and its applications. 91a:60190
- Mikosek, T. The rate of convergence in the functional central limit theorem for random quadratic forms with some applications to the law of the iterated logarithm. 91d:60061
- Melchior, I. S. Characterization of universal classes in the Glivenko-Cantelli theorem for random closed sets. 91a:60019
- Mériz, Ferenc (with Taylor, Robert Lee) Strong laws of large numbers for arrays of orthogonal random variables. 91a:60020
- Musiela, M. see Le Breton, Alain, 91a:62170
- Nguyen Duy Tién (with Nguyen Van Hung) On the convergence of weighted sums of martingale differences. 91b:60097b
- see also Nguyen Van Hung, 91b:60097a
- Nguyen Van Hung (with Nguyen Duy Tién) On the convergence of weighted sums of martingale differences. 91b:60097a
- see also Nguyen Duy Tién, 91b:60097b
- Niculescu, Florentina-Rodica On asymptotic behaviour of two-sided stopping rules. 91d:60063
- Ornstein, Donald S. (with Weiss, Benjamin) How sampling reveals a process. 91b:60041
- Pages, Gilles see Lapeyre, Bernard; et al., 91b:11075
- Pemantle, Robin A time-dependent version of Pólya's urn. 91b:60030
- Przytycki, Feliks On the law of iterated logarithm for Bloch functions. 91f:30044
- Puri, Madan Lal see Haiman, George, 91m:62084
- Révész, Pál Simple symmetric random walk in Z^d . 91c:60085
- Rosalsky, Andrew see Adler, André, 91e:60057
- Sab, Karam see Lapeyre, Bernard; et al., 91b:11075
- Schiopu-Kratina, Ioana see Daffer, Pete, 91d:60010
- Schneemeier, Wilhelm Weak convergence and Glivenko-Cantelli results for empirical processes of U -statistic structure. 91b:60083
- Serfling, Robert J. see Christofides, Tasos C., 91b:60137 and 91b:60119
- Slud, Eric (with Hoesman, Craig) Moderate- and large-deviation probabilities in actuarial risk theory. 91e:60094
- Seitsev, S. A. On almost sure stability of the solutions of stochastic recurrent equations. 91a:60108
- Steinebach, Josef see Giebling, R., 91j:60062
- Talagrand, Michel see Alexander, Kenneth S., 91c:60011 and Ledoux, Michel, 91b:60016
- Taylor, Robert Lee see Mériz, Ferenc, 91a:60020
- Ticky, Robert F. see Bühlmann, M.; et al., 91b:60232
- Utev, S. A. Sums of ϕ -mixing random variables. (Russian) 91g:60043
- Vasudeva, R. Functional laws of the iterated logarithm for bivariate sums. 91b:60028
- Veraverbeke, Noël see Gijbels, Irène, 91b:62168
- Voit, Michael A law of the iterated logarithm for a class of polynomial hypergroups. 91b:60016
- Weiss, Benjamin see Ornstein, Donald S., 91b:60041
- You, Lin Feng The law of the iterated logarithm for spectral estimates of white noise. (Chinese. English summary) 91f:62156
- Yu, Kai Fan Complete convergence of weighted sums of martingale differences. 91g:60057
- Yukich, J. E. Optimal matching and empirical measures. 91b:60005
- A note on limit theorems for perturbed empirical processes. 91e:60020
- Zapala, August Michał Marcinkiewicz-Zygmund law of large numbers in vector spaces. 91e:60022
- Antonyan, A. A. Weak convergence of a class of semimartingales and of solutions of stochastic differential equations. (Russian) (see 91g:60005)
- Athreya, K. B. Bootstrap of the mean in the infinite variance case. (see 91j:60004)
- Babbal, Beate Invariance principles for U -statistics and von Mises functionals. 91a:60086
- Barbour, A. D. Stein's method for diffusion approximations. 91d:60081
- Basu, Sujit K. (with Roy, Dilip) A functional limit theorem for attraction to the Wiener measure: the case of stationary ϕ -mixing random variables with infinite variance. 91e:60105
- Bondarev, B. V. (with Shurko, I. L.) Diffusion approximation in probability of random fields with independent increments. (Russian. English summary) 91j:60060
- Borisov, I. S. Rates of convergence in the invariance principle for empirical measures. (see 91j:60004)
- Borovkov, A. A. (with Sakhanenko, A. I.) On accuracy of approximation in invariance principle. (see 91j:60003)
- Bretagnolle, J. (with Massart, P.) Hungarian constructions from the nonasymptotic viewpoint. 91b:60026
- Brusilovskii, I. L. see Silvestrov, D. S., 91a:60090
- Chikin, D. O. A functional limit theorem for stationary processes: a martingale approach. 91e:60106
- Chow, Yun Shyong A limit theorem for pattern synthesis in image processing. 91k:60044
- Coquet, François Processus de Hellinger des processus ponctuels. (English summary) [Hellinger processes of point processes] 91g:60041
- De Masi, A. (with Ferrari, Pablo Augusto; Goldstein, Sheldon; Wick, W. David) An invariance principle for reversible Markov processes. Applications to random motions in random environments. 91e:60107
- Dufresne, Daniel Weak convergence of random growth processes with applications to insurance. 91b:60108
- Eberlein, Ernst Almost sure invariance principles for generalizations of martingales. (see 91j:60003)
- Egorov, V. A. Functional law of the iterated logarithm for ordered sums. 91m:60058
- Eloranta, Kari α -congruence for Markov processes. 91b:60093
- Fernández, Begona Markov properties of the fluctuation limit of a particle system. 91a:60094
- Ferrari, Pablo Augusto see De Masi, A.; et al., 91e:60107
- Glinzler, Peter (with Schneemeier, Wilhelm) On functional limit theorems for a class of stochastic processes indexed by pseudo-metric parameter spaces (with applications to empirical processes). 91j:60061
- Giebling, R. (with Steinebach, Josef) Invariance principles for compound renewal processes with applications. 91j:60062
- Gind, Evarist (with Zinn, Joel) Bootstrapping general empirical measures. 91g:60042
- Goldstein, Sheldon see De Masi, A.; et al., 91e:60107
- Götze, Friedrich Approximations in functional limit theorems. (see 91j:60003)
- Hansen, Jennie C. A functional central limit theorem for the Ewens sampling formula. 91b:60027
- Harel, Michel (with Puri, Madan Lal) Weak invariance of generalized U -statistics for nonstationary absolutely regular processes. 91e:60109
- Horváth, Lajos A note on the rate of Poisson approximation of empirical processes. 91b:60059
- Jakubowski, Jacek The functional law of the iterated logarithm for weakly multiplicative systems. 91e:60110
- Janson, Svante A functional limit theorem for random graphs with applications to subgraph count statistics. 91b:60095
- Kohatsu-Higa, Arturo Weak convergence of a sequence of stochastic processes related with U -statistics. 91m:60060
- Kotelenez, Peter A stochastic reaction-diffusion model. 91a:60087
- Koul, Hira L. (with Levental, Shlomo) Weak convergence of the residual empirical process in explosive autoregression. 91c:60039
- Krishnaiah, Y. S. R. (with Rao, M. Sudhakara) A note on weak convergence of empirical processes based on mixing random variables subject to perturbation and scale factors. 91c:60040
- Lacey, Michael T. Laws of the iterated logarithm for partial sum processes indexed by functions. 91a:60088
- Levental, Shlomo see Koul, Hira L., 91c:60039
- Massart, P. see Bretagnolle, J., 91b:60026
- Matula, Przemysław (with Rychlik, Zdzisław) The invariance principle for nonstationary sequences of associated random variables. (French summary) 91j:60063
- Morrow, Gregory J. (with Silverstein, Martin L.) Two parameter extension of an observation of Poincaré. 91a:60089
- Mukhametov, A. K. An invariance principle for mixing random fields. (Russian) (see 91j:60010)
- Oliveira, Paulo Eduardo Invariance principles in $L^2[0, 1]$. 91m:60061
- Poleschuk, O. M. Convergence of a conditional random walk to a Brownian bridge. 91e:60111
- Pollard, David Asymptotics via empirical processes. 91e:60112
- Puri, Madan Lal see Harel, Michel, 91e:60109
- Rama Krishnaiah, Y. S. see Rao, M. Sudhakara, 91b:60063
- Rao, M. Sudhakara (with Rama Krishnaiah, Y. S.) Weak convergence of empirical processes of strong mixing sequences under estimation of parameters. 91b:60063
- see also Krishnaiah, Y. S. R., 91b:60040
- Roy, Dilip see Basu, Sujit K., 91e:60105
- Rychlik, Zdzisław see Matula, Przemysław, 91j:60063
- Sakhanenko, A. I. On the accuracy of normal approximation in the invariance principle. (Russian) 91d:60082
- see also Borovkov, A. A., (91j:60003)
- Schneemeier, Wilhelm Weak convergence and Glivenko-Cantelli results for empirical processes of U -statistic structure. 91b:60083
- see also Glinzler, Peter, 91j:60061
- Shurko, I. L. see Bondarev, B. V., 91j:60060
- Silverstein, Martin L. see Morrow, Gregory J., 91a:60089
- Silvestrov, D. S. (with Brusilovskii, I. L.) An invariance principle for sums of stationarity

60F17 Functional limit theorems; invariance principles

- connected random variables satisfying a uniform strong mixing condition with a weight. 91a:60090
- Steinbach, Josef *see* Gießing, R. 91a:60062
- Turmanov, R. T. Estimates for the rate of convergence in the functional law of large numbers for a sequence of semiregenerative processes. (Russian) 91a:60064
- Utev, S. A. Sums of ϕ -mixing random variables. (Russian) 91g:60043
- Vasudeva, R. Functional laws of the iterated logarithm for bivariate sums. 91b:60028
- Wick, W. David *see* De Masi, A.; et al. 91a:60107
- Yoshihara, Ken-ichi Conditional empirical processes defined by ϕ -mixing sequences. 91a:60091
- Zinn, Joel *see* Giné, Evarist, 91g:60042
- Items with secondary classifications in 60F17
- Alex, Michael (with Steinbach, Josef) Invariance principles in queueing theory. 91a:60156
- Arató, N. M. On the speed of convergence for critical Galton-Watson processes. 91a:60140
- Avram, Florin (with Taqqu, Murad S.) Probability bounds for M -Skorohod oscillations. 91c:60002
- Bally, Vlad Approximation for the solutions of stochastic differential equations. III. Jointly weak convergence. 91j:60103
- Basu, A. K. A functional central limit theorem for Banach space valued dependent variables and a log log law. 91c:60017
- Beirlant, Jan (with Einmahl, John H. J.) Bahadur-Kiefer theorems for the product-limit process. 91k:60027
- Berger, Erich An almost sure invariance principle for stationary ergodic sequences of Banach space valued random variables. 91c:60012
- Bhattacharya, Rabi N. (with Ramasubramanian, S.) On the central limit theorem for diffusions with almost periodic coefficients. 91f:60131
- Bingham, N. H. Moving averages. 91c:60032
- Borison, I. S. Approximation of distributions of smooth functionals of sums of independent random elements in Banach spaces. (Russian) 91d:60008
- Borovikov, V. P. Functional limit theorems for additive spacing and frequency statistics. (Russian) (see 91b:60003)
- Borovkov, A. A. (with Mogul'skii, A. A.) On probabilities of small deviations for random processes. (Russian) 91e:60089
- Csörgő, Miklós (with Horváth, Lajos) Asymptotic tail behavior of uniform multivariate empirical processes. 91a:60058
- Csörgő, Sándor (with Mason, David M.) Bootstrapping empirical functions. 91a:62044
- (with Welsh, A. H.) Testing for exponential and Marshall-Olkin distributions. 91g:62019
- Cutland, Nigel J. The Brownian bridge as a flat integral. 91a:60207
- Daffer, Pete (with Schioppa-Kratina, Ioana) L^1 -tightness and the law of large numbers in $D(\mathbb{R})$. (French summary) 91d:60010
- Dawson, Donald A. *see* Rémillard, Bruno, 91g:60039
- Deheuvels, Paul (with Mason, David M.) Bahadur-Kiefer-type processes. 91j:60055
- Dehling, Herold (with Denker, Manfred; Woyczyński, Wojbor A.) Resampling U -statistics using p -stable laws. 91b:62059
- Denker, Manfred *see* Dehling, Herold; et al. 91b:62059
- Donati-Martin, C. Le problème de Buffon-Synge pour une corde. (English summary) [The Buffon-Synge problem for a string] 91j:60018
- Einmahl, John H. J. *see* Beirlant, Jan, 91k:60027
- Fierro, Radl Domains of attraction for semi-martingales taking values in the tempered distributions space. 91d:60005
- Gill, Richard D. Non- and semi-parametric maximum likelihood estimators and the von Mises method. I. 91d:62042
- Giraldis, L. A central limit theorem for polynomial forms. I. 91c:60026
- A central limit theorem for polynomial forms. II. 91m:60040
- Gizbrekht, N. V. On the invariance principle for a sum of random variables that are defined on a homogeneous Markov chain. 91f:60115
- Grigelionis, B. (with Mikulevičius, Remigius) Functional limit theorems in queueing theory. (Russian) (see 91g:60005)
- Gu, Ming Gao² (with Lai, Tze Leung) Functional laws of the iterated logarithm for the product-limit estimator of a distribution function under random censorship or truncation. 91c:60034
- Häusser, Erich On the rate of convergence in ordinary and functional central limit theorems for martingales. (see 91j:60003)
- Horváth, Lajos Strong laws and limit theorems for local time of Markov processes. 91i:60087
- *see also* Csörgő, Miklós, 91b:60058
- Kallianpur, G. (with Pérez-Abreu, V.) Weak convergence of solutions of stochastic evolution equations on nuclear spaces. 91a:60165
- Kazanchyan, T. P. The law of the iterated logarithm in Chung form for stationary sequences of random variables. 91k:60038
- Kelly, Frank P. *see* Szczołka, Władysław, 91k:60106
- Kharkova, M. V. Weak convergence of a sequence of Markov chains to a diffusion process. (Ukrainian. Russian summary) 91f:60134
- Kim, Jeankyung (with Pollard, David) Cube root asymptotics. 91f:62059
- Kolchinskii, V. I. Convergence of empirical measures. (Russian) 91h:60007
- Kushner, Harold J. *see* Martins, Luiz Felipe, 91k:60102
- Lai, Tze Leung *see* Gu, Ming Gao², 91c:60034
- Leipus, R. Functional limit theorems for rank statistics in a "change point" problem. (Russian. English and Lithuanian summaries) 91d:62063
- Levin, V. L. (with Rachev, Svetlozar T.) New duality theorems for marginal problems with some applications in stochasticity. 91d:60004
- Leyens, R. M. Testing distributions in large numbers of small samples. 91b:62133
- Major, Péter A note on the approximation of the uniform empirical process. 91b:60029
- Makhsu, S. Ya. Convergence of solutions of stochastic equations. (Russian) (see 91g:60005)
- Mamaev, Kh. M. A random time change and the weak convergence of stochastic integrals. (Russian) (Not in MR)
- Martins, Luiz Felipe (with Kushner, Harold J.) Routing and singular control for queueing networks in heavy traffic. 91k:60102
- Mason, David M. *see* Csörgő, Sándor, 91a:62044 and Deheuvels, Paul, 91j:60055

- Mikulevičius, Remigius *see* Grigelionis, B., 91g:60005
- Mogul'skii, A. A. *see* Borovkov, A. A., 91e:60089
- Molchanov, I. S. Characterization of universal classes in the Glivenko-Cantelli theorem for random closed sets. 91a:60019
- Pérez-Abreu, V. *see* Kallianpur, G., 91a:60165
- Pollard, David *see* Kim, Jeankyung, 91f:62059
- (Prüstgaard, Jens) *see* Gill, Richard D., 91d:62042
- Rachev, Svetlozar T. *see* Levin, V. L., 91d:60004
- Ramachandran, K. M. *see* Yin, Gang George, 91m:60121
- Rama Krishnaiah, Y. S. *see* Rao, M. Sathakara, 91d:62061
- Ramasubramanian, S. *see* Bhattacharya, Rabi N., 91f:60131
- Rao, M. Sathakara (with Rama Krishnaiah, Y. S.) Weak convergence of signed processes under strong mixing. 91d:62061
- Rémillard, Bruno (with Dawson, Donald A.) Laws of the iterated logarithm and large deviations for a class of diffusion processes. (French summary) 91g:60039
- Samur, Jorge D. A functional central limit theorem in Diophantine approximation. 91g:11087
- Schioppa-Kratina, Ioana *see* Daffer, Pete, 91d:60010
- Shao, Qi Man On the invariance principle for p -mixing sequences of random variables. 91g:60034
- Shiryayev, A. N. Fundamental principles of martingale methods in functional limit theorems. (Russian) 91g:60035
- Střevštr, D. S. Conditions for the convergence in the J -topology of accumulation processes with semi-Markov switchings. (Russian. English summary) 91f:60155
- Steinbach, Josef *see* Alex, Michael, 91a:60156
- Stoll, Andreas Invariance principles for Brownian intersection local time and polymer measures. 91g:82051
- Szczołka, Władysław (with Kelly, Frank P.) Asymptotic stationarity of queues in series and the heavy traffic approximation. 91k:60106
- Taqqu, Murad S. *see* Avram, Florin, 91c:60002 and Terria, Norma, 91j:60049
- Terria, Norma (with Taqqu, Murad S.) A noncentral limit theorem for quadratic forms of Gaussian stationary sequences. 91j:60049
- Venttsel', A. D. Refinement of a functional central limit theorem for stationary processes. 91d:60091
- Wei, C. Z. (with Winnicki, J.) Some asymptotic results for the branching process with immigration. 91c:60109
- (Wellner, Jon A.) *see* Gill, Richard D., 91d:62042
- Welsh, A. H. *see* Csörgő, Sándor, 91g:62019
- Winnicki, J. *see* Wei, C. Z., 91c:60109
- Woyczyński, Wojbor A. *see* Dehling, Herold; et al., 91b:62059
- Yin, Gang George (with Ramachandran, K. M.) A differential delay equation with wideband noise perturbations. 91m:60121
- Ying, Zhiliang Nonlinear stochastic approximation procedures for L_p loss functions. 91m:62153
- Yakich, J. E. A note on limit theorems for perturbed empirical processes. 91e:60020

60F20 Zero-one laws

- Anděl, Jiří (with Dupač, Václav) An extension of the Borel lemma. 91a:60092
- Berbee, H. C. P. (with den Hollander, W. Th. F.) Tail triviality for sums of stationary random variables. 91b:60096
- Dupač, Václav *see* Anděl, Jiří, 91a:60092
- Fan, Ai Hua A simplification principle and its applications. (Chinese) 91a:60093
- den Hollander, W. Th. F. *see* Berbee, H. C. P., 91b:60096

Items with secondary classifications in 60F20

- Yan, Zhi Bin *see* Zhao, Da Gang², (Not in MR)
- Zhao, Da Gang² (with Yan, Zhi Bin) A left infinitely near 0-1 law for Brownian motion. (Chinese) (Not in MR)

60F25 L^p -limit theorems

- Csörgő, Miklós (with Horváth, Lajos) On the distributions of L_p norms of weighted quantile processes. (French summary) 91m:60062
- Horváth, Lajos *see* Csörgő, Miklós, 91m:60062
- Liese, Friedrich Studentization of U -statistics of stationary uniformly strongly mixing processes. 91j:60064
- Nakata, Tameichi Precise order of magnitude in the L_p local limit theorem. 91g:60044
- Nguyễn Duy Tián (with Nguyễn Văn Hùng) On the convergence of weighted sums of martingale differences. 91b:60097b
- *see also* Nguyễn Văn Hùng, 91b:60097a
- Nguyễn Văn Hùng (with Nguyễn Duy Tián) On the convergence of weighted sums of martingale differences. 91b:60097a
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- Boughton, B. A. *see* DeLaurentis, J. M., 91d:34056
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- Gut, Allan Convergence rates for record times and the associated counting process. 91m:60041
- Oliveira, Paulo Eduardo Invariance principles in $L^2[0, 1]$. 91m:60061
- Sunklodas, Jonas An estimate for a bounded Lipschitz metric for sums of weakly dependent random variables. 91a:60071

60F99 None of the above, but in this section

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- Coelho, Zaqueu (with Parry, William) Central limit asymptotics for shifts of finite type. 91f:60065
- Fakusovich, I. Yu. Limiting behaviour of the sum of i.i.d. random variables and its terms of greatest moduli in the case of logarithmic type (tail) function. 91d:60084
- Finkelstein, Mark (with Tucker, Howard G.) A law of small numbers for a mutation process. 91a:60094
- Freimer, Marshall (with Kollia, Georgia D.; Mudholkar, Govind S.; Lin, C. Thomas) Extremes, extreme spacings and outliers in the Tukey and Weibull families. 91f:60066
- Gulinskii, O. V. see Veretennikov, A. Yu. 91e:60115
- Hsing, Taiien Extreme value theory for multivariate stationary sequences. 91a:60095
- Höslér, Jörg Multivariate extreme values in stationary random sequences. 91j:60065
- Klebanov, L. B. (with Melamed, I. A.; Rachev, Svetlozar T.) On the products of a random number of random variables in connection with a problem from mathematical economics. 91i:60098
- Kollia, Georgia D. see Freimer, Marshall; et al. 91f:60066
- Kuczma, Marcin E. A very elementary proof of a probabilistic limit relation. (Not in MR)
- Li, Ji Tao A note on essential convergence of partially ordered stochastic processes. (Chinese. English summary) 91e:60113
- Lin, C. Thomas see Freimer, Marshall; et al. 91f:60066
- Liu, Wen Information conditions for a class of limit theorems for the sequence of m -valued random variables. 91g:60045
- Major, Péter A note on the approximation of the uniform empirical process. 91b:60029
- Melamed, I. A. see Klebanov, L. B.; et al. 91i:60098
- Mérol, Tamás F. On the waiting time till each of some given patterns occurs as a run. 91m:60064
- Mudholkar, Govind S. see Freimer, Marshall; et al. 91f:60066
- Nakonechnyi, A. N. Probability-theoretic generalization of the second Lyapunov method. (Russian. English summary) 91e:60114
- Parry, William see Coelho, Zaqueu. 91f:60065
- Práková, Zuzana Sampling from a finite set of random variables: the Berry-Esseen bound for the Studentized mean. 91j:60066
- Rachev, Svetlozar T. see Klebanov, L. B.; et al. 91i:60098
- Schatte, Peter On the stochastic behaviour of the floating point mantissas of sums. (German and Russian summaries) 91m:60065
- Tucker, Howard G. see Finkelstein, Mark. 91a:60094
- Veretennikov, A. Yu. (with Gulinskii, O. V.) The mixing rate and the averaging principle for recursive stochastic procedures. 91e:60115

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- Arnold, Ludwig (with San Martín, Luiz) A multiplicative ergodic theorem for rotation numbers. 91d:58127
- Biden, Edmund N. see Olshen, Richard A.; et al. 91b:62122
- Buldygin, V. V. (with Solntsev, S. A.) Criteria for sums of independent random summands with operator normalizations to be almost surely fundamental. (Russian) 91j:60012
- de la Cal, Jesús Probabilistic methods in the theory of approximation of continuous functions. (Spanish) (see 91m:60014)
- Chauvin, Brigitte (with Rouault, Alain) A stochastic simulation for solving scalar reaction-diffusion equations. 91d:65009
- Dahlhaus, Rainer Efficient parameter estimation for self-similar processes. 91f:62142
- Deyro, Luc Coupled samples in simulation. 91f:62037
- Girko, V. L. (with Stepankova, I. V.) An estimate for the Stieltjes transform of spectral functions of singular eigenvalues. 91j:62021
- Green, Timothy A. Asymptotic enumeration of generalized Latin rectangles. 91b:05042a
- Erratum: "Asymptotic enumeration of generalized Latin rectangles". 91b:05042b
- Guggenheimer, Heinrich W. Limit theorems for Dempster composition in probabilistic logic. (Russian summary) 91b:03049
- Gyöngy, I. The approximation of stochastic partial differential equations and applications in nonlinear filtering. 91d:60144
- Harris, Bernard Poisson limits for generalized random allocation problems. 91a:60033
- Hitzentka, Paweł Best constant in the decoupling inequality for nonnegative random variables. 91d:60104
- Juhász, Ferenc On the characteristic values of nonsymmetric block random matrices. 91d:15042
- Karobli, A. (with Sillescu, R.) Approximation of the density of the distribution of sums of independent random variables. 91j:62022
- King, Alan J. Generalized delta theorems for multivalued mappings and measurable selections. 91k:60097
- Lauermann, Monika On asymptotic inequalities in discrete time controlled linear systems. 91b:93179
- Liu, Li (with Mueller, Carl) On the extinction of measure-valued critical branching Brownian motion. 91d:60117
- Mayer-Wolf, Eduardo The Cramér-Rao functional and limiting laws. 91m:60008
- Mick, Laurent Recuit simulé sur \mathbb{R}^n . [Simulated annealing on \mathbb{R}^n] 91d:60189
- Mueller, Carl see Liu, Li. 91d:60117
- Olshen, Richard A. (with Biden, Edmund N.; Wyatt, Marilyn P.; Sutherland, David H.) Gait analysis and the bootstrap. 91b:62122
- Pastur, L. A. A limit theorem for sums of exponentials. 91a:28008
- Plachky, Detlef A simple characterization of almost uniform convergence by stochastic convergence. 91e:28003
- Rachev, Svetlozar T. (with Rüschendorf, Ludger) A counterexample to a.s. constructions. 91f:60066
- Rouault, Alain see Chauvin, Brigitte. 91d:65009
- Rüschendorf, Ludger see Rachev, Svetlozar T. 91f:60066
- Ruzhich, N. A. Limit properties of functionals on irregular semi-Markovian processes. 91d:60221
- San Martín, Luiz see Arnold, Ludwig. 91d:58127
- Seidler, Jan (with Vrkoč, Ivo) An averaging principle for stochastic evolution equations. (Russian and Czech summaries) 91b:60160
- Shao, Qi Man On the complete convergence for randomly selected sequences. 91i:60071

- Shur, M. G. On limit theorems for ratios generated by random walks in homogeneous spaces. II. 91d:60165
- Erratum: "On limit theorems for ratios generated by random walks in homogeneous spaces. II" [Teor. Veroyatnost. i Primenen. 34 (1989), no. 3, 516–527; MR 91d:60165]. (Russian) (Not in MR)
- Sillesscu, R. see Karobli, A. 91j:62022
- Solntsev, S. A. see Buldygin, V. V. 91j:60012
- Stepankova, I. V. see Girko, V. L. 91j:62021
- Sun, Xing Ming On the rate of convergence of the Feller-Trotter probability type operator for functions of bounded variation. (Chinese summary) 91f:41020
- Sutherland, David H. see Olshen, Richard A.; et al. 91b:62122
- Trakhsina, I. P. A note on stability of the Cramér theorem on the group $\mathbb{R} \times \mathbb{Z}_2$. 91b:60012
- Vrkoč, Ivo see Seidler, Jan. 91b:60160
- Wyatt, Marilyn P. see Olshen, Richard A.; et al. 91b:62122
- Xiao, Yi Min Some properties of random Legendre series. (Chinese) 91a:33009

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60Gxx Stochastic processes

Items with secondary classifications in 60Gxx

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- Doob, J. L. ★ Stochastic processes. 91d:60002
- (Gankrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 91i:60002a and 91i:60003
- Krylov, N. V. see Anulova, S. V.; et al. 91f:60002b
- Liptser, R. Sh. see Anulova, S. V.; et al. 91f:60002b
- Shiryayev, A. N. see Anulova, S. V.; et al. 91f:60002b
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60G05 Foundations of stochastic processes

- Becker, Richard Edouard Sur la séparabilité et la continuité des fonctions aléatoires. (English summary) [On the separability and continuity of random functions] 91a:60096
- Eberlein, Ernst Strong approximation of continuous time stochastic processes. 91c:60041
- Goswami, Asis K. On a conjecture of F. B. Knight. Two characterization results related to prediction processes. 91m:60066
- Hoover, Douglas N. Adapted distribution. (see 91j:60003)
- Krée, Paul Stochastic analysis, mathematical structures and distributions methods. (see 91a:60025)
- Postelnicu, Viorica Multivariate positive dependent random processes. 91j:60067
- Smirnov, S. N. see Sverchkov, M. Yu. 91b:60099
- Strittmatter, Wolfram Measures of dependence for processes in metric spaces. 91a:60097
- Sverchkov, M. Yu. (with Smirnov, S. N.) Maximal coupling for processes in $D[0, \infty)$. 91b:60099
- Wamsch, Gerhard Verallgemeinerung des Fundamentalsatzes von Kolmogoroff. [Generalization of Kolmogorov's fundamental theorem] 91a:60098
- Zhang, Xing Wu The local comparability of σ -domain families and the Vitali condition. (Chinese) 91b:60100

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- Doyle, Peter G. (with Shepp, Larry A.) Tracking a Wiener process with a process of finite energy. 91a:60208
- Ganikhodzaev, N. N. Averages of quadratic stochastic processes. (Russian) 91b:60079
- Garuccio, Augusto (with Gutkowski, D.) Comparison between local Kolmogorovian models and Bell's inequality. 91b:81011
- Gutkowski, D. see Garuccio, Augusto. 91b:81011
- Piccolini, Mauro A generalization of Wahba's theorem on the equivalence between spline smoothing and Bayesian estimation. 91b:93173
- Pintacuda, Nicolò On Doob's measurability lemma. (Italian. English summary) 91b:28005
- Shepp, Larry A. see Doyle, Peter G. 91a:60208

60G07 General theory of processes

- Aznima, J. (with Hamza, K.) La propriété de représentation prévisible dans la filtration naturelle d'un ensemble régénératif. [The property of predictable representation in the natural filtration of a regenerative set] 91d:60085
- Bouleau, Nicolas (with Hirsch, Francis) Sur une extension du théorème de Girsanov. (English summary) [On an extension of Girsanov's theorem] 91d:60086
- Dinculeanu, Nicolae Vector-valued stochastic processes. V. Optional and predictable variation of stochastic measures and stochastic processes. 91d:60088

— Vector-valued stochastic processes. IV. Integral representation of linear operations on spaces of stochastic processes. 91d:60087

Hamza, K. *see* Azéma, J., 91d:60085

He, Sheng Wu (with Wang, Jia Gang) Chaos decomposition and property of predictable representation. 91h:60039

Hirsch, Francis *see* Boulean, Nicolas, 91d:60086

Jacks, S. D. A note on the good lambda inequalities. 91c:60042

Ransford, T. J. Predictable sets and set-valued processes. 91m:60067

Wang, Jia Gang *see* He, Sheng Wu, 91h:60039

Items with secondary classifications in 60G07

Barlow, Martin T. (with Pitman, Jim W.; Yor, Marc) On Walsh's Brownian motions. 91a:60204

Benabdallah, M. (with Mastrangelo, M.; Ouknine, Y.) Remarques sur les temps locaux. (English summary) [Remarks on local times] 91i:60122

Coquet, François Modèles statistiques et systèmes standards de processus de vraisemblance. (English summary) [Statistical models and standard systems of likelihood processes] 91d:62003

Dinculeanu, Nicolae Vector valued stochastic processes. III. Projections and dual projections. 91c:60013

Imkeller, Peter Regularity and integrator properties of variation processes of two-parameter martingales with jumps. 91a:60120

Mastrangelo, M. *see* Benabdallah, M.; et al., 91i:60122

Ouknine, Y. *see* Benabdallah, M.; et al., 91i:60122

Pitman, Jim W. *see* Barlow, Martin T.; et al., 91a:60204

Schwartz, Laurent Quelques propriétés de la tribu accessible; les discontinuités d'un processus croissant intégrable et les discontinuités de sa projection prévisible duale. [Some properties of the accessible tribe: the discontinuities of an integrable growth process and the discontinuities of its dual predictable projection] 91c:60053

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Yor, Marc *see* Barlow, Martin T.; et al., 91a:60204

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Hoover, Douglas N. Tail fields of partially exchangeable arrays. 91a:60099

Kallenberg, Olav General Wald-type identities for exchangeable sequences and processes. 91c:60116

Letta, Giorgio Sur les théorèmes de Hewitt-Savage et de de Finetti. [On the Hewitt-Savage and de Finetti theorems] 91b:60030

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Pratelli, Luca La loi des grands nombres pour une suite échangeable. [The law of large numbers for an exchangeable sequence] 91c:60080

Rieders, Eric *see* McConnell, Terry R., 91d:60077

Wolfe, Douglas A. *see* Dean, Angela M., 91d:60200

Yang, Yong Xin The joint asymptotic distributions of upper and lower extremes in exchangeable sequences. (Chinese. English summary) 91c:60029

60G10 Stationary processes

Albin, J. M. P. On extremal theory for stationary processes. 91c:60117

Alekseev, V. A. Symmetry properties of higher spectral densities of a multidimensional stationary random process. (Russian) (see 91k:60003)

Al-Osh, M. A. *see* Alzaid, Abdulhamid A., 91i:60101

Alzaid, Abdulhamid A. (with Al-Osh, M. A.) An integer-valued p th-order autoregressive structure (INAR(p)) process. 91b:60101

Anděl, Jiří (with Gómez, María; Vega, Carlos) Stationary distribution of some nonlinear AR(1) processes. 91a:60100

— On nonlinear models for time series. 91f:60067

Arnold, Barry C. (with Hallett, J. Terry) A characterization of the Pareto process among stationary stochastic processes of the form $X_n = c \min(X_{n-1}, Y_n)$. 91b:60102

Bosq, Denis Propriétés des opérateurs de covariance empiriques d'un processus stationnaire hilbertien. (English summary) [Properties of empirical covariance operators for a Hilbertian stationary process] 91f:60068

Bradley, Richard C. On p -mixing except on small sets. 91m:60068

Cambanis, Stamatis (with Maejima, Makoto) Two classes of self-similar stable processes with stationary increments. 91b:60040

Dominguez, Marisela Rate of convergence of the maximal correlation coefficient in the continuous case. 91m:60069

Gómez, María *see* Anděl, Jiří; et al., 91a:60100

Hajduk-Chmielewska, Grażyna A sufficient condition for the Wold-Cramér concordance of Banach-space-valued stationary processes. 91f:60069

Hallett, J. Terry *see* Arnold, Barry C., 91b:60102

He, Sheng Wu (with Wang, Jia Gang) On embedding a discrete-parameter ARMA model in a continuous-parameter ARMA model. 91a:60101

Kozachenko, Yu. V. (with Pashko, A. A.) Modeling Gaussian stationary random processes that can be represented in the form of stochastic integrals. (Russian) (see 91g:65009)

Lasser, R. (with Leitner, M.) Stochastic processes indexed by hypergroups. I. 91f:60070

Leitner, M. *see* Lasser, R., 91f:60070

Leonenko, N. N. (with Yadrenko, M. I.) Some unsolved problems in analysis and probability theory. (Russian) 91a:60102

Lai, Jian A note on causality and invertibility of a general bilinear time series model. 91d:60089

Maejima, Makoto *see* Cambanis, Stamatis, 91b:60040

Makagon, A. (with Salehi, H.) Notes on infinite-dimensional stationary sequences. 91i:60103

— (with Mandrekar, V.) On complex operator-valued O-U processes, T -positivity, and innovations of Okabe and Masani. 91d:60090

Mandrekar, V. *see* Makagon, A., 91d:60090

Mathew, George (with McCormick, William P.) Complete Poisson convergence result for a strongly dependent stationary Gaussian sequence. 91i:60104

McCormick, William P. *see* Mathew, George, 91i:60104

Mitchell, Toby J. (with Morris, Max; Ylvisaker, Donald) Existence of smoothed stationary processes on an interval. 91f:60071

Morris, Max *see* Mitchell, Toby J.; et al., 91f:60071

Okabe, Yasunori On a stochastic difference equation for the multi-dimensional weakly stationary process with discrete time. 91b:60031

Ornstein, Donald S. (with Weiss, Benjamin) How sampling reveals a process. 91h:60041

Pashko, A. A. *see* Kozachenko, Yu. V., (91g:65009)

Pogány, Tibor K. Hilbert-space of a class of multidimensional stochastic processes. (Serbo-Croatian summary) 91b:60032

Qiu, Yu Guang On a theorem of M. Rosenblatt. (Chinese. English summary) 91k:60045

Robertson, James B. (with Simons, Stephen) A de Finetti theorem for a class of pairwise independent stationary processes. (see 91j:60003)

— A two state pairwise independent stationary process for which X_1, X_2, X_3 is dependent. 91f:60072

Rubinstein, B. A. A one-sided nonlinear Wold representation of random processes that are stationary in the strict sense. (Russian) (see 91j:60010)

Salehi, H. *see* Makagon, A., 91i:60103

Semakov, S. L. The probability of the first hitting of a level by a component of a multidimensional process on a prescribed interval under restrictions on the remaining components. 91a:60103

Simons, Stephen *see* Robertson, James B., (91j:60003)

Talagrand, Michel Characterization of almost surely continuous 1-stable random Fourier series and strongly stationary processes. 91c:60118

Terlik, Gy. An approximate Wiener-series expansion and a condition of stationarity for some quadratic time series models. 91g:60046

Vega, Carlos *see* Anděl, Jiří; et al., 91a:60100

Venttef, A. D. Refinement of a functional central limit theorem for stationary processes. 91d:60091

Wang, Jia Gang *see* He, Sheng Wu, 91a:60101

Weiss, Benjamin *see* Ornstein, Donald S., 91h:60041

Yadrenko, M. I. *see* Leonenko, N. N., 91a:60102

Ylvisaker, Donald *see* Mitchell, Toby J.; et al., 91f:60071

Items with secondary classifications in 60G10

Aaronson, Jon (with Denker, Manfred) Lower bounds for partial sums of certain positive stationary processes. 91c:28012

Accardi, Luigi (with Olla, Stefano) Large deviation for stationary processes. (Italian summary) 91c:60086

Adler, Robert J. (with Cambanis, Stamatis; Samorodnitsky, Gennady) On stable Markov processes. 91d:60167

Antoszewski, Z. The asymptotics of an estimate for the spectral function of a stationary sequence. 91m:62170

Babbal, Beate Invariance principles for U -statistics and von Mises functionals. 91a:60086

Berger, Erich An almost sure invariance principle for stationary ergodic sequences of Banach space valued random variables. 91i:60012

Bhansali, R. J. Estimation of the moving-average representation of a stationary process by autoregressive model fitting. 91a:62136

Binkowski, M. An example of a weak Bernoulli process which is not finitary. 91h:28014

Bouaziz, Malek Représentation intégrale de la trace d'un produit de matrices de Toeplitz finies et applications. (English summary) [Integral representation of the trace of a product of finite Toeplitz matrices and applications] 91j:42011

Boudou, Alain (with Dauxois, Jacques) Analyses de mesures aléatoires; application aux séries stationnaires. (English summary) [Analysis of random measures; applications to stationary series] 91b:62117

Bradley, Richard C. On the boundary of the central limit theorem for stationary p -mixing sequences. (see 91j:60004)

Brusilovskii, I. L. *see* Silvestrov, D. S., 91a:60090

Cambanis, Stamatis *see* Adler, Robert J.; et al., 91d:60167

Cheng, Qian Sheng Maximum standardized cumulant deconvolution of non-Gaussian linear processes. 91m:62160

Chkida, D. O. A functional limit theorem for stationary processes: a martingale approach. 91c:60106

Cotlar, Mischa (with Sadosky, Cora) Nonlinear lifting theorems, integral representations and stationary processes in algebraic scattering systems. 91b:47014

Dahlhaus, Rainer Nonparametric spectral analysis with missing observations. 91h:62195

Dauxois, Jacques *see* Boudou, Alain, 91b:62117

Davidowicz, Antoni Leon On the positivity of an invariant measure on open nonempty sets. 91c:58093

Dégérine, Serge Canonical partial autocorrelation function of a multivariate time series. 91j:62128

Denker, Manfred *see* Aaronson, Jon, 91c:28012

Feuerverger, Audrey An efficiency result for the empirical characteristic function in stationary time-series models. (French summary) 91j:62129

Fritzsche, Bernd (with Kirstein, Bernd) On problems with incomplete covariance information. 91h:47019

Gaspovskii, V. F. An estimate for the moments of weighted sums of mixing processes. 91a:60062

Graltis, L. A central limit theorem for polynomial forms. I. 91c:60026

Griñ, A. G. On a paper of Magda Peligrad. (Russian) (see 91a:60006)

- Guyon, Xavier (with León R., José Rafael) Convergence en loi des H -variations d'un processus gaussien stationnaire sur \mathbb{R} . (English summary) [Convergence in law of the H -variations of a stationary Gaussian process in \mathbb{R}] 91d:60053
- de Haan, Laurens (with Resnick, Sidney I.; Rootzén, Holger; de Vries, Casper G.) Extremal behaviour of solutions to a stochastic difference equation with applications to ARCH processes. 91g:60029
- Holst, Lars (with Janson, Svante) Poisson approximation using the Stein-Chen method and coupling: number of exceedances of Gaussian random variables. 91f:60062
- Hsing, Taiien Extreme value theory for multivariate stationary sequences. 91a:60095
- On a loss of memory property of the maximum. 91m:60093
- Höfer, Jörg Multivariate extreme values in stationary random sequences. 91j:60065
- Isakova, G. A. Estimates for higher spectral densities of stationary processes with Gaussian smoothing. I. (Russian. English summary) 91b:62196a
- Estimates for higher spectral densities of stationary processes with Gaussian smoothing. II. (Russian. English summary) 91b:62196b
- Janson, Svante see Holst, Lars, 91f:60062
- Kakihara, Yūichirō see Molnár, Lajos, 91b:46082
- Kallianpur, G. (with Miamee, A. G.; Niemi, Hannu) On the prediction theory of two-parameter stationary random fields. 91k:60048
- Karlsen, Haas Arnfam Existence of moments in a stationary stochastic difference equation. 91d:62140
- Kazanchyan, T. P. The law of the iterated logarithm in Chung form for stationary sequences of random variables. 91k:60038
- Kim, Peter T. Estimation of product moments of a stationary stochastic process with application to estimation of cumulants and cumulant spectral densities. (French summary) 91a:62256
- Kirstein, Bernd see Fritzsche, Bernd, 91h:47019
- Konstantopoulos, Panagiotis (with Walrand, Jean) Stationary [Stationarity] and stability of fork-joint networks. 91a:60249
- Kuznetsova, O. M. Orthogonal decomposition of a homogeneous and isotropic random field on a Hilbert space. (Russian) 91j:60095
- León R., José Rafael see Guyon, Xavier, 91d:60053
- LePage, Raoul Conditional moments for coordinates of stable vectors. 91f:60046
- Leubaton, Philippe Non-full-rank causal approximations of full-rank multivariate stationary processes with rational spectrum. 91f:93119
- Lee, Shou Jun On the germ-Markov property of the generalized N -parameter Ornstein-Uhlenbeck process. 91d:60120
- Miamee, A. G. see Kallianpur, G.; et al., 91k:60048
- Misériluz, G. On large deviations for a sum of type $\sum f(T^i t)$. (Russian summary) (Not in MR)
- Molnár, Lajos (with Kakihara, Yūichirō) A remark on Hilbert-Schmidt operator valued c.g.o.s. measures. 91h:46082
- Niemi, Hannu see Kallianpur, G.; et al., 91k:60048
- Nummelin, Esa Large deviations for functionals of stationary processes. 91j:60052
- Olla, Stefano see Accardi, Luigi, 91g:60086
- Peligrad, Magda The r -quick version of the strong law for stationary ϕ -mixing sequences. 91k:60042
- Peller, V. V. Hankel operators and multivariate stationary processes. 91m:47034
- Resnick, Sidney I. see de Haan, Laurens; et al., 91g:60029
- Rianha, B. Large deviations of stationary random variables with strong mixing. (Russian. English and Lithuanian summaries) 91d:60068
- Rootzén, Holger see de Haan, Laurens; et al., 91g:60029
- Sadosky, Cora see Cotlar, Mischa, 91b:47014
- Samorodnitsky, Gemady see Adler, Robert J.; et al., 91d:60167
- Savvri, Zoltán Definierbare Funktionen auf Gruppen. [Definitizable functions on groups] 91g:43005
- Seghier, Abdellatif Extension de fonctions de type positif. Cas multidimensionnel. Application à un problème de phases en cristallographie. (English summary) [Extension of positive-type functions. Multidimensional case. Application to a phase problem in crystallography] 91h:42012
- Shao, Qi Man On the invariance principle for ρ -mixing sequences of random variables. 91g:60034
- Střevostov, D. S. (with Brusilovskii, I. L.) An invariance principle for sums of stationarily connected random variables satisfying a uniform strong mixing condition with a weight. 91a:60090
- Soler, V. N. The canonical correlation operator and relatively regular processes. (Russian) 91f:60111
- Strittmatter, Wolfram Measures of dependence for processes in metric spaces. 91a:60097
- Tamny, D. A new proof of the strong law without first moment. 91a:60085
- Treiff, S. R. Geometric methods in spectral theory of vector-valued functions: some recent results. 91j:47036
- de Valk, V. A problem on 0-1 matrices. 91b:15013
- de Vries, Casper G. see de Haan, Laurens; et al., 91g:60029
- Walrand, Jean see Konstantopoulos, Panagiotis, 91a:60249
- Xie, Sheng Rong Expected number of upcrossings and maxima for strictly stationary harmonic processes. (Chinese. English summary) 91a:60110
- Yoshihara, Ken-ichi Conditional empirical processes defined by ϕ -mixing sequences. 91a:60091
- 60G12 General second-order processes**
- Bokor, J. (with Tanyi, M.; Terdik, Gy.) Forward and backward Markovian state space models of second order process. 91c:60043
- Houdré, Christian Stochastic processes as Fourier integrals and dilation of vector measures. 91j:60068
- Hurd, H. L. Representation of strongly harmonizable periodically correlated processes and their covariances. 91d:60092
- Ivković, Zoran A. Discrete approximation in the innovation theory of second-order continuous processes. 91f:60073
- Miamee, A. G. Spectral dilation of $L(B, H)$ -valued measures and its application to stationary dilation for Banach space valued processes. 91k:60046
- Michálek, Jiří Multidimensional random processes with normal covariances. 91g:60047
- Plucińska, Agnieszka On the property of the memory of stochastic processes with the linear regression. (Russian summary) 91d:60093
- Some properties of stochastic processes with linear regression. 91e:60119
- Rao, M. M. A view of harmonizable processes. 91m:60070
- Szabowski, Paweł J. Can the first two conditional moments identify a mean square differentiable process? 91f:60074
- Tanyi, M. see Bokor, J.; et al., 91c:60043
- Terdik, Gy. see Bokor, J.; et al., 91c:60043
- Zaer, N. M. Representation of mixed cumulants by higher covariances. (Russian. English summary) 91e:60120
- Items with secondary classifications in 60G12**
- Bass, Jean Fonctions de corrélation des fonctions pseudo-aléatoires. (English summary) [Correlation functions of pseudorandom functions] 91g:60062
- Borovkov, A. A. (with Mogul'skii, A. A.) On probabilities of small deviations for random processes. (Russian) 91e:60089
- Cambanis, Stamatis see Masry, Elias, 91b:65004
- Cavazzana, Angelo (with Pavon, Michele) Principal component analysis for multivariate stochastic processes. 91f:60080
- Dorogovtsev, A. A. Superposition of random mappings in a Hilbert space. 91a:60170
- Houdré, Christian Harmonizability, V -boundedness, $(2, p)$ -boundedness of stochastic processes. 91g:60052
- Ivković, Zoran A. Nonlinear time-domain analysis of Gaussian processes. 91a:60104
- Kowalski, Aleksander (with Szynal, Dominik) An optimal prediction in general ARMA models. 91c:60132
- Lukic, M. N. Rademacher-Walsh functions and the spectral type of Hermite polynomial of a Wiener process. (Serbo-Croatian summary) 91d:60119
- Makagon, A. (with Mandrekar, V.) The spectral representation of stable processes: harmonizability and regularity. 91j:60076
- Mandrekar, V. see Makagon, A., 91j:60076
- Masry, Elias (with Cambanis, Stamatis) Trapezoidal Monte Carlo integration. 91b:65004
- Miamee, A. G. (with Pourahmadi, Mohsen) Degenerate multivariate stationary processes: basicity, past and future, and autoregressive representation. 91b:62185
- Mogul'skii, A. A. see Borovkov, A. A., 91e:60089
- Pavon, Michele see Cavazzana, Angelo, 91f:60080
- Pogány, Tibor K. An approach to the sampling theorem for continuous time processes. 91f:62155
- Pourahmadi, Mohsen see Miamee, A. G., 91b:62185
- Rao, M. M. Bimeasures and harmonizable processes (analysis, classification, and representation). 91a:60134
- Sowell, Fallaw The fractional unit root distribution. 91g:62072
- Szynal, Dominik see Kowalski, Aleksander, 91c:60132
- Wol, Janusz Singular integrals and second-order stationary sequences. 91c:47060
- 60G15 Gaussian processes**
- Berzin, Corinne Convergence de mesures géométriques normalisées d'ensembles de niveau des surfaces aléatoires vers le temps local. (English summary) [Convergence to local time of normalized geometric measures of level sets of random fields] 91f:60075
- Breitung, Karl The duration of outcrossings of Gaussian vector processes. (see 91f:90005)
- Deo, C. M. A functional central limit theorem for the quadratic variation of a class of Gaussian random fields. (French summary) 91c:60044
- Durbán, James First passage densities of Gaussian and point processes to general boundaries with special reference to Kolmogorov-Smirnov tests when parameters are estimated. (see 91j:60004)
- Evans, Steven N. Local field Gaussian measures. 91e:60121
- Fernique, Xavier Régularité de fonctions aléatoires gaussiennes stationnaires à valeurs vectorielles. [Regularity of vector-valued stationary Gaussian random functions] 91b:60033
- Régularité de fonctions aléatoires gaussiennes à valeurs vectorielles. (English summary) [Regularity of vector-valued Gaussian random functions] 91b:60047
- Ginovyan, M. S. Distribution of quadratic functionals of a stationary Gaussian process. (Russian. Armenian summary) 91j:60069
- Hong, Sheng Yan Some results on increments of Gaussian processes. (Chinese) 91j:60070
- Höfer, Jörg First zeros of empirical characteristic functions and extreme values of Gaussian processes. 91m:60071
- Ivković, Zoran A. Nonlinear time-domain analysis of Gaussian processes. 91a:60104
- A nonlinear order of the Markov process. (Serbo-Croatian summary) (Not in MR)
- Konakov, V. D. Maximal deviations of Gaussian processes and empirical density functions. (see 91j:60004)
- Koval', V. A. Convergence to zero of Gaussian sequences, and the asymptotic behavior of solutions of stochastic recurrence equations. (Russian) 91b:60105
- Comparison principles for multidimensional Gaussian Markov and Gaussian m -Markov sequences. (Russian) 91m:60072
- Lacey, Michael T. A remark on the multiparameter law of the iterated logarithm. 91a:60105
- Lefebvre, Marie First-passage densities of controlled Gaussian processes. (French summary) 91a:60106
- Leonenko, N. N. Limit theorems for sojourn measures in domains of vector Gaussian random fields. 91j:60071
- Lifshits, M. A. The oscillation and a lower bound for the distribution of the maximum of a Gaussian field. (Russian) 91m:60073
- Malevich, T. L. A necessary condition for the finiteness of the moments of the number of zeros of a certain stationary Gaussian process. (Russian) 91c:60045
- Michálek, Jiří Asymptotic Rényi's rate of Gaussian processes. (Russian summary) 91c:60122

- Mikushin, V. I. (with Ostrovskii, E. I.) Estimates for the distribution of the maximum of discontinuous random fields. **91a:60107**
- Mountford, T. S. Uniform dimension results for the Brownian sheet. **91e:60123**
- Nosko, V. P. High-level excursions of Gaussian fields: a geometrical approach based on convexity. (see **91j:60004**)
- Ortega, Joaquín Sur la variation des processus gaussiens. (English summary) [On the variation of Gaussian processes] **91e:60124**
- Ostrovskii, E. I. see Mikushin, V. I., **91a:60107**
- Pashko, A. A. Modeling stationary Gaussian random processes. (Russian) **91e:60125**
- An estimate for the level-crossing probability for Gaussian random series. **91b:60106**
- Picconi, Mauro (with Roma, Massimo) Stochastic regularization of linear equations and the realization of Gaussian fields. **91g:60048**
- Rainal, A. J. Passage times of Gaussian noise crossing a time-varying boundary. (Not in MR)
- Roma, Massimo see Picconi, Mauro, **91g:60048**
- Samorodnitsky, Gennady Local moduli of continuity for some classes of Gaussian processes. **91h:60042**
- Sidorowicz, Józef The structure of the conditional process \tilde{w} , with diffraction on the angle with a transfer from point x to point y in a short time t . **91b:60107**
- Solntsev, S. A. On almost sure stability of the solutions of stochastic recurrent equations. **91a:60108**
- An upper limit for Gaussian sequences and the sample continuity of a Gaussian Markov process. **91b:60034**
- Zayats, V. V. Application of comparison theorems in a problem in mathematical statistics. (Russian) **91f:60076**
- Items with secondary classifications in 60G15
- Albin, J. M. P. On extremal theory for stationary processes. **91e:60117**
- Avniel, Y. B. see Mitter, Sanjoy K., **91b:47023**
- Bentkus, Vidmantas-Kastytis Jurgis Smooth approximations of the norm and differentiable functions with bounded support in the Banach space l_p^∞ . **91k:46039**
- Berman, Simeon M. A central limit theorem for extreme sojourn times of stationary Gaussian processes. **91f:60044**
- Borell, Christer Analytic and empirical evidences of isoperimetric processes. **91m:60094**
- Bulygin, V. V. (with Solntsev, S. A.) ★ Функциональные методы в задачах суммирования случайных величин. (Russian) [Functional methods in problems of the summation of random variables] **91b:60013**
- (with Zayats, V. V.) Asymptotic properties of estimates for correlation functions of stationary Gaussian processes in spaces of continuous functions. (Russian) **91e:62219**
- Bulycheva, O. G. (with Venttsel', A. D.) Differentiability of expected values of functionals of the Wiener process. **91d:60168**
- Chen, Xiong Hausdorff dimensions of graph sets and image sets of two-parameter Ornstein-Uhlenbeck processes. (Chinese) **91d:60094**
- Chikin, D. O. A functional limit theorem for stationary processes: a martingale approach. **91e:60106**
- Chung, Dong Myung (with Kang, Soon Ja) Evaluation of some conditional abstract Wiener integrals. **91f:46062**
- Fierro, Raúl Existence and uniqueness of a martingale problem in $D(\mathbb{R}_+, \mathcal{M})$. **91d:60003**
- Foutz, Robert V. see Jensen, D. R., **91h:60059**
- Grill, Karl Upper classes for the increments of the fractional Wiener process. **91k:60037**
- Holst, Lars (with Janson, Svante) Poisson approximation using the Stein-Chen method and coupling: number of exceedances of Gaussian random variables. **91b:60062**
- Höfer, Jörg Extreme values and high boundary crossings of locally stationary Gaussian processes. **91j:60044**
- Iscove, I. (with Marcus, Michael B.; McDonald, David R.; Talagrand, Michel; Zinn, Joel) Continuity of l^2 -valued Ornstein-Uhlenbeck processes. **91h:60064**
- (with McDonald, David R.) Induced Dirichlet forms and capacity inequalities. **91i:31008**
- Janson, Svante see Holst, Lars, **91b:60062**
- Jensen, D. R. (with Foutz, Robert V.) The structure and analysis of spherical time-dependent processes. **91h:60059**
- Kang, Soon Ja see Chung, Dong Myung, **91f:46062**
- Kim, Jeankyung (with Pollard, David) Cube root asymptotics. **91f:62059**
- Kozachenko, Yu. V. (with Pashko, A. A.) Modeling Gaussian stationary random processes that can be represented in the form of stochastic integrals. (Russian) (see **91g:65009**)
- Lacey, Michael T. Limit laws for local times of the Brownian sheet. **91j:60131**
- Ledoux, Michel A note on large deviations for Wiener chaos. **91b:60017**
- Lee, Ke Seung White noise approach to Gaussian random fields. **91b:60134**
- Leonenko, N. N. (with Yadrenko, M. I.) Some unsolved problems in analysis and probability theory. (Russian) **91a:60102**
- (with Sabirov, Sh. O.) Spherical measures for exceeding a level for random fields of chi-square type. (Russian) **91e:60066**
- Sojourns of multidimensional Gaussian random fields with dependent components. **91e:60072**
- (with Parkhomenko, V. N.) Measures for a sojourn of a vector Gaussian field with strong dependence between components. (Russian. English summary) **91e:60155**
- (with Parkhomenko, V. N.) Asymptotic normality of a functional of geometric type of a Gaussian random field. (Russian) **91j:60096**
- Li, Ker-Chau (with Ylvisaker, Donald) Another look at adaptation on the average. **91e:62245**
- Lindgren, Georg (with Rychlik, Igor) Rain flow cycle distributions for fatigue life prediction under Gaussian load processes. (see **91j:60004**)
- Lukic, M. N. Rademacher-Walsh functions and the spectral type of Hermite polynomial of a Wiener process. (Serbo-Croatian summary) **91d:60119**
- Marcus, Michael B. Some bounds for the expected number of level crossings of symmetric harmonizable p -stable processes. **91e:60128**
- see also Iscoe, I.; et al., **91h:60064**
- McDonald, David R. see Iscoe, I.; et al., **91h:60064** and **91i:31008**
- Mitchell, Toby J. (with Morris, Max; Ylvisaker, Donald) Existence of smoothed stationary processes on an interval. **91f:60071**
- Mitter, Sanjoy K. (with Avniel, Y. B.) Scattering theory, unitary dilations and Gaussian processes. **91b:47023**
- Morris, Max see Mitchell, Toby J.; et al., **91f:60071**
- Nualart, David (with Üstünel, Ali Süleyman; Zakai, Moshe) Some remarks on independence and conditioning on Wiener space. **91k:60070**
- Ossiander, Mina (with Waymire, Edward C.) Certain positive-definite kernels. **91a:60132**
- Ostrovskii, E. I. A Banach-space-valued noncentral limit theorem and its application. (Russian) **91j:60046**
- Pap, Gyula Analog of heat equation for Gaussian measure of a ball in Hilbert space. **91m:60011**
- Parkhomenko, V. N. see Leonenko, N. N., **91e:60155** and **91j:60096**
- Pashko, A. A. see Kozachenko, Yu. V., **(91g:65009)**
- Pollard, David Asymptotics via empirical processes. **91e:60112**
- see also Kim, Jeankyung, **91f:62059**
- Ren, Jia Gang Topologie p -fine sur l'espace de Wiener et théorème des fonctions implicites. (English summary) [p -fine topology on Wiener space and an implicit-function theorem] **91m:60101**
- Richter, Matthias Approximation of Gaussian random elements and relative approximation criteria. **91j:60010**
- Rychlik, Igor see Lindgren, Georg, **(91j:60004)**
- Sabirov, Sh. O. see Leonenko, N. N., **91e:60066**
- Semakov, S. L. The probability of the first hitting of a level by a component of a multidimensional process on a prescribed interval under restrictions on the remaining components. **91a:60103**
- Solntsev, S. A. see Bulygin, V. V., **91b:60013**
- Talagrand, Michel see Iscoe, I.; et al., **91h:60064**
- Taqqu, Murad S. see Terrin, Norma, **91j:60049**
- Terrin, Norma (with Taqqu, Murad S.) A noncentral limit theorem for quadratic forms of Gaussian stationary sequences. **91j:60049**
- Üstünel, Ali Süleyman see Nualart, David; et al., **91k:60070**
- Venttsel', A. D. see Bulycheva, O. G., **91d:60168**
- Waymire, Edward C. see Ossiander, Mina, **91a:60132**
- Wong, Eugene (with Zakai, Moshe) Isotropic Gauss-Markov currents. **91a:60135**
- Yadrenko, M. I. see Leonenko, N. N., **91e:60102**
- Ylvisaker, Donald see Li, Ker-Chau, **91e:62245** and Mitchell, Toby J.; et al., **91f:60071**
- Žak, Tomaz A formula for the density of the norm of stable random vectors in Hilbert spaces. **91k:60010**
- Zakai, Moshe see Wong, Eugene, **91a:60135** and Nualart, David; et al., **91k:60070**
- Zapala, August Michal Brownian sheets in a locally pseudocovex metric linear space. **91d:60007**
- Zayats, V. V. see Bulygin, V. V., **91e:62219**
- Zinn, Joel see Iscoe, I.; et al., **91h:60064**

60G17 Sample path properties

- Berman, Simeon M. Measure of the multiple self-intersection set of a Markov process. **91m:60074**
- Bézandry, Paul Hubert (with Fernique, Xavier) Analyse de fonctions aléatoires peu régulières sur $[0, 1]$. (English summary) [Analysis of some badly regular random functions on $[0, 1]$] **91e:60126**
- Boletín, V. V. Theory of extremes and its applications to mechanics of solids and structures. (see **91j:60004**)
- Breitung, Karl Asymptotic methods for boundary crossings of vector processes. (see **91j:60004**)
- Bulygin, V. V. (with Yarovaia, N. V.) Cumulant conditions for the continuity of random processes. (Russian. English summary) **91e:60127**
- Chen, Xiong Hausdorff dimensions of graph sets and image sets of two-parameter Ornstein-Uhlenbeck processes. (Chinese) **91d:60094**
- Csáki, Endre (with Csörgő, Miklós) Fernique type inequalities for not necessarily Gaussian processes. **91e:60072**
- Csörgő, Miklós (with Lin, Zheng Yan) On moduli of continuity for Gaussian and l^2 -norm squared processes generated by Ornstein-Uhlenbeck processes. **91j:60073**
- see also Csáki, Endre, **91j:60072**
- Fernique, Xavier see Bézandry, Paul Hubert, **91e:60126**
- Hsieh, Nan Jul A note on local times of stochastic processes. **91d:60095**
- Kamae, Teturo (with Keane, Michael) A class of deterministic self-affine processes. **91i:60108**
- Keane, Michael see Kamae, Teturo, **91i:60108**
- Lin, Zheng Yan The increments of partial sums of a dependent sequence when the moment generating functions do not exist. **91d:60096**
- see also Csörgő, Miklós, **91j:60073**
- Lyridis, Dimitrios V. see Perakis, Anastassios N., (Not in MR)
- Marcus, Michael B. Some bounds for the expected number of level crossings of symmetric harmonizable p -stable processes. **91e:60128**
- Mountford, T. S. An extension of a result of Komatsu and Takashima. **91f:60077**
- Double points and the Ornstein-Uhlenbeck process on Wiener space. **91h:60043**
- Limiting behaviour of the occupation of wedges by complex Brownian motion. **91c:60046**
- Nolan, John P. Continuity of symmetric stable processes. **91d:60097**
- Omarov, S. O. Interpolation representation for a class of random fields. (Russian. English and Azerbaijani summaries) **91g:60049**
- Perakis, Anastassios N. (with Lyridis, Dimitrios V.) Level crossing probabilities for multipath acoustic processes with bimodal spectra. (Not in MR)
- Perkins, Edwin A. Polar sets and multiple points for super-Brownian motion. **91i:60109**
- Rajeev, B. On semi-martingales associated with crossings. **91j:60074**
- Rogers, L. C. G. Multiple points of Markov processes in a complete metric space. **91d:60098**
- Rosinski, Jan On path properties of certain infinitely divisible processes. **91g:60050**
- Rychlik, Igor New bounds for the first passage, wave-length and amplitude densities. **91j:60051**
- Takashima, Keizo A remark on zero-one laws for ergodic self-similar processes. **91j:60075**

- Talagrand, Michel. On subsets of L^p and p -stable processes. (French summary) 91c:60047
 — Sample boundedness of stochastic processes under increment conditions. 91f:60078
 Tarteilade, V. I. Vector valued Fourier series and sample continuity of random processes. 91a:60109
 Xie, Sheng Rong. Expected number of upcrossings and maxima for strictly stationary harmonic processes. (Chinese. English summary) 91a:60110
 Yarovaia, N. V. *see* Buldygin, V. V., 91c:60127

Items with secondary classifications in 60G17

- Albin, J. M. P. On extremal theory for stationary processes. 91c:60117
 Arnold, Barry C. (with Hallett, J. Terry). A characterization of the Pareto process among stationary stochastic processes of the form $X_n = c \min(X_{n-1}, Y_n)$. 91f:60102
 Bassan, Bruno. *see* Orsingher, Enzo, 91f:60091
 Becker, Richard Edouard. Sur la séparabilité et la continuité des fonctions aléatoires. (English summary) [On the separability and continuity of random functions] 91a:60096
 Berezikovskii, A. M. (with Makhnovskii, Yu. A.; Suris, R. A.). Wiener sausage volume moments. 91c:60107
 Bertoin, Jean. Hausdorff dimension of the level sets for self-affine functions. 91h:28009
 — Excursions of a $BES_0(d)$ and its drift term ($0 < d < 1$). 91c:60229
 Berzin, Corinne. Convergence de mesures géométriques normalisées d'ensembles de niveau des surfaces aléatoires vers le temps local. (English summary) [Convergence to local time of normalized geometric measures of level sets of random fields] 91f:60075
 Breitung, Karl. The duration of outcrossings of Gaussian vector processes. (see 91f:90005)
 Brooks, J. K. (with Dinculeanu, Nicolae). Regularity and the Doob-Meyer decomposition of abstract quasimartingales. 91f:60084
 Buldygin, V. V. (with Solntsev, S. A.). *Функциональные методы в задачах суммирования случайных величин. (Russian) [Functional methods in problems of the summation of random variables] 91f:60013
 Burdzy, Krzysztof (with San Martin, Jaime). Curvature of the convex hull of planar Brownian motion near its minimum point. 91c:60233
 — On nonincrease of Brownian motion. 91c:60234
 — (with Lawler, Gregory F.). Nonintersection exponents for Brownian paths. II. Estimates and applications to a random fractal. 91g:60097
 — (with Lawler, Gregory F.). Nonintersection exponents for Brownian paths. I. Existence and an invariance principle. 91g:60096
 Chen, Bin. How small are the (H-R) increments of the local time of a Wiener process? (Chinese. English summary) 91f:60140
 Deheuvels, Paul (with Steinebach, Josef). On the sample path behavior of the first passage time process of a Brownian motion with drift. (French summary) 91f:60083
 Dinculeanu, Nicolae. *see* Brooks, J. K., 91f:60084
 Durbin, James. First passage densities of Gaussian and point processes to general boundaries with special reference to Kolmogorov-Smirnov tests when parameters are estimated. (see 91j:60004)
 Erdős, Paul (with Révész, Pál). A new law of iterated logarithm. 91m:60052
 Fernique, Xavier. Régularité de fonctions aléatoires gaussiennes à valeurs vectorielles. (English summary) [Regularity of vector-valued Gaussian random functions] 91h:60047
 Fitzsimmons, P. J. (with Port, Sidney C.). Local times, occupation times, and the Lebesgue measure of the range of a Lévy process. 91f:60125
 Ghaleb, Al-Madani M. On continuity of the sample function of Gaussian random vector field on the Hilbert space. (Turkish summary) 91h:60053
 — On the modulus continuity of random vector fields. (Turkish summary) (Not in MR)
 Gut, Allan. Limit points of sample maxima. 91d:60076
 Hallett, J. Terry. *see* Arnold, Barry C., 91f:60102
 Hanson, David Lee (with Russo, Ralph P.). Some "lim inf" results for increments of a Wiener process. 91f:60141
 Hong, Sheng Yan. Some law of the iterated logarithm type results for oscillation moduli of the uniform empirical process. 91f:60060
 Iscoe, I. (with Marcus, Michael B.; McDonald, David R.; Talagrand, Michel; Zinn, Joel). Continuity of ℓ^2 -valued Ornstein-Uhlenbeck processes. 91h:60064
 — (with McDonald, David R.). Induced Dirichlet forms and capacity inequalities. 91h:31008
 Kent, John T. Continuity properties for random fields. 91f:60089
 Kishimoto, Kazuo. Analytical expression of the expectation of a scale dependent "length" of a path of Brownian motion with drift. 91a:60212
 Kono, Norio. Recent development on random fields and their sample paths. I. Sample path continuity of random fields. 91m:60091
 Kuznetsova, O. M. Local times and the unboundedness of sample functions of random fields on a measurable space. (Ukrainian. Russian summary) 91f:60090
 Lacey, Michael T. Large deviations for the maximum local time of stable Lévy processes. 91h:60085
 Lawler, Gregory F. *see* Burdzy, Krzysztof, 91g:60096 and 91g:60097
 Le Gall, Jean-François. Some intersection properties of Brownian paths and random walks. (see 91j:60003)
 Leonenko, N. N. Sojourns of multidimensional Gaussian random fields with dependent components. 91c:60072
 Makhnovskii, Yu. A. *see* Berezikovskii, A. M.; et al., 91c:60107
 Marcus, Michael B. *see* Iscoe, I.; et al., 91h:60064
 McDonald, David R. *see* Iscoe, I.; et al., 91h:60064 and 91h:31008
 Molchanov, I. S. Empirical associated functionals and their application to the analysis of stable random sets and processes. 91k:60041
 Mountford, T. S. Uniform dimension results for the Brownian sheet. 91c:60123
 Nolan, John P. Local nondeterminism and local times for stable processes. 91h:60060
 Noska, V. P. High-level excursions of Gaussian fields: a geometrical approach based on convexity. (see 91j:60004)
 Oodaira, Hiroshi. Freidlin-Wentzell type estimates for a class of self-similar processes represented by multiple Wiener integrals. 91g:60038
 Orsingher, Enzo (with Bassan, Bruno). On the comparison of the distribution of the supremum of random fields represented by stochastic integrals. 91f:60091
 Ortega, Joaquín. Sur la variation des processus gaussiens. (English summary) [On the variation of Gaussian processes] 91c:60124
 Petrushevski, Lilyana. The equivalence of a process of diffusion type in a Hilbert space and a Wiener process. (Russian) 91c:60049
 Port, Sidney C. *see* Fitzsimmons, P. J., 91f:60125
 Reimers, M. Hyperfinite methods for multidimensional stochastic processes. (see 91j:60003)
 Révész, Pál. *see* Erdős, Paul, 91m:60052
 Rothmann, Mark D. *see* Russo, Ralph P., 91d:60078
 Russo, Ralph P. (with Rothmann, Mark D.). Maximal divergent uniform spacings. 91d:60078
 — *see also* Hanson, David Lee, 91f:60141
 Samorodnitsky, Gennady. Local moduli of continuity for some classes of Gaussian processes. 91h:60042
 San Martin, Jaime. *see* Burdzy, Krzysztof, 91c:60233
 Schmidt, Wolfgang Michael. On semimartingale diffusions and stochastic differential equations. 91d:60192
 Solntsev, S. A. An upper limit for Gaussian sequences and the sample continuity of a Gaussian Markov process. 91h:60034
 — *see also* Buldygin, V. V., 91c:60013
 Steinebach, Josef. *see* Deheuvels, Paul, 91f:60083
 Suris, R. A. *see* Berezikovskii, A. M.; et al., 91c:60107
 Talagrand, Michel. Characterization of almost surely continuous 1-stable random Fourier series and strongly stationary processes. 91c:60118
 — *see also* Iscoe, I.; et al., 91h:60064
 Wee, In Suk. Lower functions for asymmetric Lévy processes. 91f:60126
 Zeitouni, Ofer. On the Onsager-Machlup functional of diffusion processes around non- C^2 -curves. 91c:60095
 Zinn, Joel. *see* Iscoe, I.; et al., 91h:60064

60G20 Generalized stochastic processes

- Kuo, Hui-Hsiung. The Fourier transform in white noise calculus. 91d:60099
 Lozanov-Crenković, Z. (with Pilipović, Stevan). Generalized random processes on the Zemanian space \mathcal{J} . 91f:60079
 Pilipović, Stevan. *see* Lozanov-Crenković, Z., 91f:60079
 Pomomarenko, A. I. Generalized strongly harmonizable random fields in normed spaces. (Russian) 91f:60110
 Solov, V. N. The canonical correlation operator and relatively regular processes. (Russian) 91f:60111
 Yokoi, Yoshitaka. Positive generalized white noise functionals. 91m:60075
- Items with secondary classifications in 60G20
- Adler, Robert J. (with Epstein-Feldman, Raisa; Lewin, Marica). Intersection local times for infinite systems of Brownian motions and for the Brownian density process. 91m:60144
 Alberverio, Sergio (with Hida, Takeyuki; Potthoff, J.; Streit, Ludwig). The vacuum of the Heegh-Krohn model as a generalized white noise functional. 91c:81053
 Arató, N. M. Quadratic functionals of generalized Gaussian random fields. 91d:60118
 Brooks, J. K. (with Dinculeanu, Nicolae). Regularity and the Doob-Meyer decomposition of abstract quasimartingales. 91f:60084
 Bui Kho'i-Dam. BMO-sequences and amarts. 91d:60108
 Dawson, Donald A. (with Gorostiza, Luis G.). Generalized solutions of stochastic evolution equations. 91h:60060
 Dinculeanu, Nicolae. Vector valued stochastic processes. III. Projections and dual projections. 91c:60013
 — *see also* Brooks, J. K., 91f:60084
 Dorogovtsev, A. A. Superposition of random mappings in a Hilbert space. 91a:60170
 Epstein-Feldman, Raisa. *see* Adler, Robert J.; et al., 91m:60144
 Fierro, Raúl. Central limit theorems for local martingales taking values in the space of tempered distributions. 91k:60029
 — Domains of attraction for semi-martingales taking values in the tempered distributions space. 91d:60005
 Gorostiza, Luis G. *see* Dawson, Donald A., 91h:60060
 Hida, Takeyuki (with Potthoff, J.; Streit, Ludwig). Energy forms and white noise analysis. 91c:81038
 — Infinite-dimensional rotation group and unitary group. 91a:60210
 — Functionals of Brownian motion. 91h:60205
 — *see also* Alberverio, Sergio; et al., 91c:81053
 Kallianpur, G. (with Pérez-Abreu, V.). Weak convergence of solutions of stochastic evolution equations on nuclear spaces. 91a:60165
 Kuo, Hui-Hsiung. Stochastic partial differential equations of generalized Brownian functionals. 91h:60049
 Lehtinen, Markku S. (with Päivärinta, Lassi; Somersalo, Erkki). Linear inverse problems for generalised random variables. 91g:65129
 Lewin, Marica. *see* Adler, Robert J.; et al., 91m:60144
 Liese, Friedrich. Studentization of U -statistics of stationary uniformly strongly mixing processes. 91j:60064
 Päivärinta, Lassi. *see* Lehtinen, Markku S.; et al., 91g:65129
 Pérez-Abreu, V. *see* Kallianpur, G., 91a:60165
 Piccinini, Mauro (with Roma, Massimo). Stochastic regularization of linear equations and the realization of Gaussian fields. 91g:60048
 Potthoff, J. *see* Alberverio, Sergio; et al., 91c:81053 and Hida, Takeyuki; et al., 91c:81038
 Roma, Massimo. *see* Piccinini, Mauro, 91g:60048
 Somersalo, Erkki. *see* Lehtinen, Markku S.; et al., 91g:65129
 Streit, Ludwig. *see* Alberverio, Sergio; et al., 91c:81053 and Hida, Takeyuki; et al., 91c:81038
 Takenaka, Shigeo. A linear filtering problem using Radon transform. 91g:44005
 Tempelman, A. A. (with Zaly, Albertas). The structure and evolution of Gaussian fields connected in a Markov chain. (Russian) 91h:60136
 Yaa, Jia An. Generalizations of Gross' and Minlos' theorems. 91c:28011
 — Sur la transformée de Fourier de H. H. Kuo. [On H. H. Kuo's Fourier transform] 91c:60187
 Zaly, Albertas. *see* Tempelman, A. A., 91h:60136

Zhang, Weijian Analytical analysis of a stochastic partial differential equation. 91b:60161

60G25 Prediction theory [see also 62M20]

- Basu, A. K. (with Sen Roy, S.) On asymptotic prediction problems for autoregressive models with explosive and other roots. 91d:60100
- Borodin, S. N. (with Khametov, V. M.) Optimal linear interpolation of sequences that are determined recursively with random coefficients. (Russian) (see 91b:60003)
- Budinsky, Petr On the equivalence of two methods for interpolation. 91e:60129
- Cavazzana, Angelo (with Pavon, Michele) Principal component analysis for multivariate stochastic processes. 91f:60080
- Dominguez, Marisela The spectral density of a completely regular multivariate continuous time process. 91e:60130
- A matricial extension of the Helson-Sarason theorem and a characterization of some multivariate linearly completely regular processes. 91e:60131
- Houdré, Christian Harmonizability, V -boundedness, $(2, p)$ -boundedness of stochastic processes. 91g:60052
- Jiang, Ze Pei The prediction theory of stationary random fields. II. Nonsymmetrical half-plane prediction. 91b:60035b
- The prediction theory of stationary random fields. I. Half-plane prediction. (Chinese. English summary) 91b:60035a
- Kallianpur, G. (with Mamee, A. G.; Niemi, Hannu) On the prediction theory of two-parameter stationary random fields. 91b:60048
- Khametov, V. M. see Borodin, S. N., (91b:60003)
- Kowalski, Aleksander (with Szytnal, Dominik) An optimal prediction in general ARMA models. 91e:60132
- Makagon, A. (with Mandrekar, V.) The spectral representation of stable processes: harmonizability and regularity. 91j:60076
- Mandrekar, V. see Makagon, A., 91j:60076
- Mamee, A. G. see Kallianpur, G. et al., 91b:60048
- Moklyachuk, M. P. Minimax extrapolation of random processes for models of s -impurity. (Russian) 91e:60112
- Minimax extrapolation and autoregression-moving average processes. 91a:60111
- Niemi, Hannu see Kallianpur, G. et al., 91b:60048
- Pavon, Michele see Cavazzana, Angelo, 91f:60080
- Pourahmadi, Mohsen On the convergence of finite linear predictors of stationary processes. 91b:60036
- Sen Roy, S. see Basu, A. K., 91d:60100
- Szytnal, Dominik see Kowalski, Aleksander, 91e:60132
- Takeuchi, Yoshiaki On the decompositions of observations with non-Gaussian additive noise and their innovations processes. (see 91f:3002)

Items with secondary classifications in 60G25

- Apitzsch, W. (with Fritzsche, Bernd; Kirstein, Bernd) A Schur analysis approach to maximum distance problems in Hilbert space and prediction. 91k:47173
- Corsten, L. C. A. Interpolation and optimal linear prediction. 91c:62086a
- Corrigenda: "Interpolation and optimal linear prediction". 91c:62086b
- Davis, Richard Alan (with Resnick, Sidney I.) Basic properties and prediction of max-ARMA processes. 91g:62069
- Fritzsche, Bernd (with Kirstein, Bernd) A correlation-theoretical interpretation of Schur analysis. 91i:15016
- see also Apitzsch, W.; et al., 91k:47173
- Goldman, André Techniques biharmoniques pour l'étude du mouvement brownien de P. Lévy à trois paramètres. (English summary) [Biharmonic techniques for studying P. Lévy's three-parameter Brownian motion] 91e:60153
- Goswami, Asis K. On a conjecture of F. B. Knight. Two characterization results related to prediction processes. 91m:60066
- Grecksch, W. A prediction problem for a time discrete parabolic Itô equation. 91b:60066
- Houdré, Christian Factorization algorithms and nonstationary Wiener filtering. 91m:62171
- Ivković, Zoran A. A nonlinear order of the Markov process. (Serbo-Croatian summary) (Not in MR)
- Jiang, Ze Pei The prediction theory of stationary random field. III. Four-fold Wold decompositions. (Not in MR)
- Kirstein, Bernd see Fritzsche, Bernd, 91i:15016 and Apitzsch, W.; et al., 91k:47173
- Loubaton, Philippe Champs stationnaires au sens large sur Z^2 : propriétés structurelles et modèles paramétriques. (English summary) [Wide-sense stationary processes on Z^2 : structural properties and parametric models] 91b:60041
- Makagon, A. (with Salehi, H.) Notes on infinite-dimensional stationary sequences. 91i:60103
- Moklyachuk, M. P. Minimax filtering of stationary sequences with white noise. (Russian) 91m:60076
- Neval, Paul Research problems in orthogonal polynomials. 91m:42023
- Pogány, Tibor K. Hilbert-space of a class of multidimensional stochastic processes. (Serbo-Croatian summary) 91b:60032
- Resnick, Sidney I. see Davis, Richard Alan, 91g:62069
- Salehi, H. see Makagon, A., 91i:60103
- Shigema, Hiroshi On a characterization of autoregressive moving average processes by the canonical structure between past and future spaces. 91a:62248
- Soler, V. N. The canonical correlation operator and relatively regular processes. (Russian) 91i:60111

60G30 Continuity and singularity of induced measures

- Cambanis, Stamatis see Marques, Mauro, 91b:60044
- Demenin, A. N. (with Diesperova, M. M.) Limit relations for densities of probability measures that correspond to solutions of linear differential equations with random coefficients. (Russian) 91e:60133
- Diesperova, M. M. see Demenin, A. N., 91e:60133
- Evans, Steven N. (with Perkins, Edwin A.) Absolute continuity results for superprocesses with some applications. 91b:60049

- Gan, Shi Xin A note on the equivalence of two probability measures on a stopping time σ -algebra. (Chinese. English summary) 91a:60112
- Krasnitski, S. M. Conditions for the equivalence of distributions of Gaussian homogeneous fields. 91f:60081
- Marques, Mauro (with Cambanis, Stamatis) Admissible and singular translates of stable processes. 91b:60044
- Perkins, Edwin A. see Evans, Steven N., 91b:60049
- Petrushkevski, Liliyana On the equivalence of a class of random processes in a Hilbert space and a Wiener process. (Russian) 91e:60048
- The equivalence of a process of diffusion type in a Hilbert space and a Wiener process. (Russian) 91e:60049
- Sokhadze, G. A. Absolute continuity of distributions of solutions of equations with random noise. (Russian) (see 91g:60005)
- Taraskin, A. F. Asymptotic behavior of the likelihood ratio for semimartingales. (Russian) (see 91g:60005)
- Thelen, Brian J. Fisher information and dichotomies in equivalence/contiguity. 91b:60045
- Items with secondary classifications in 60G30
- Araújo, N. M. Quadratic functionals of generalized Gaussian random fields. 91d:60118
- Jacod, Jean Martingale problems, absolute continuity and contiguity. 91c:60055
- Kusuoka, Shigeo Dirichlet forms on fractals and products of random matrices. 91m:60142
- Léandre, Rémi (with Russo, Francesco) Estimation de Varadhan pour des diffusions à deux paramètres. (English summary) [Varadhan's estimate for two-parameter diffusions] 91e:60164
- Lia, Wen (with Tomkins, R. J.; Wang, Chung-Lie) Generalized expansions of real numbers and their probabilistic properties. 91i:1099
- Mazziotto, G. (with Millet, Annie) Absolute continuity of the law of an infinite-dimensional Wiener functional with respect to the Wiener probability. 91m:60100
- Millet, Annie see Mazziotto, G., 91m:60100
- Naraghi-Pour, Morteza (with Neuhoff, David L.) On the continuity of the stationary state distribution of DPCM. 91j:94007
- Neuhoff, David L. see Naraghi-Pour, Morteza, 91j:94007
- Russo, Francesco see Léandre, Rémi, 91e:60164
- Tomkins, R. J. see Lia, Wen; et al., 91i:1099
- Wang, Chung-Lie see Lia, Wen; et al., 91i:1099

60G35 Applications (signal detection, filtering, etc.)

[see also 62M20, 93E10, 93E11, 94Axx]

- Antonelli, Peter L. Filtering the n -dimensional logistic growth model. 91k:60050
- Cipra, Tomáš Note on approximate non-Gaussian filtering with nonlinear observation relation. 91j:60077
- Grichenko, S. T. (with Tarankova, N. D.) Optimal reconstruction of a piecewise-stationary sequence of binary symbols. (Russian) (see 91j:60002)
- Hall, Peter Gavin Optimal convergence rates in signal recovery. 91e:60134
- Jacod, Jean Une application de la topologie d'Emery: le processus information d'un modèle statistique filtré. [An application of Emery's topology: the information process of a filtered statistical model] 91a:60113
- Krot, A. M. Spectral analysis of a class of nonstationary random processes in discrete biorthogonal bases. (Not in MR)
- Kurth, Petra (with Zachiesche, Hans-Ulrich) Ein heuristisches Verfahren zur Filtration von Ito-Prozessen. [A heuristic method for the filtering of Ito processes] (Not in MR)
- Moklyachuk, M. P. Minimax filtering of stationary sequences with white noise. (Russian) 91m:60076
- Rosenblatt, Murray A note on maximum entropy. 91f:60082
- Tarankova, N. D. see Grichenko, S. T., (91j:60002)
- Trần Hùng Thao Optimal state estimation for a stochastic dynamical system from point process observations. 91i:60113
- Zachiesche, Hans-Ulrich see Kurth, Petra, (Not in MR)
- Items with secondary classifications in 60G35
- Aslanis, James T. see Kasturia, Sanjay; et al., 91i:94005
- Basar, Tamer see Başar, Tamer, 91g:94008
- Basar, Tamer (with Başar, Tamer) Minimax causal transmission of Gaussian stochastic processes over channels subject to correlated jamming. 91g:94008
- Belar'kii, V. Z. On the calculation of an autocorrelation function of the random relief of a film surface. 91c:82070
- Bobrovsky, B. Z. see Yash, I.; et al., 91i:93115
- Bulychev, Yu. G. The method of first integrals in nonlinear filtering problems. (Not in MR)
- Cheng, Qian Sheng Minimum entropy deconvolution of one- and multi-dimensional non-Gaussian linear random processes. 91i:94018
- Chitashvili, R. Ya. see Teronzhadze, T. A., (91g:60005)
- Cioffi, John M. see Kasturia, Sanjay; et al., 91i:94005
- Cipra, Tomáš Some problems of exponential smoothing. (Russian and Czech summaries) 91c:62081
- Cohen de Lara, M. (with Levine, Jean) Deterministic feedback linearization, Girsanov transformations and finite-dimensional filters. 91b:93033
- Duda, Zdzisław see Gessing, Ryszard, 91i:93108
- Dzhamburiya, L. G. see Glonti, O. A., (91g:94005)
- Elimov, E. V. (with Kazakov, I. E.) Optimal filtering in random-structure dynamic systems with a meter controlled by an indicator. 91m:93128
- Elliot, Robert James Filtering with a small nonlinear term in the signal. 91e:93088
- Florincher, Patrick Nonlinear filtering with dependent noises. The case of unbounded coefficients. 91i:93106
- Fuchs, Jean-Jacques Structure and order estimation of multivariable stochastic processes. 91h:93065
- Gessing, Ryszard (with Duda, Zdzisław) Two-level stochastic LQ control problem for a dynamic system. 91i:93108
- Glonti, O. A. Nonlinear filtering of random processes and optimal signal transmission over a channel with "noisy" feedback. (Russian) 91f:94002

- (with Dzhamhuriya, L. G.) Optimal transmission of "television type" Gaussian signals through a noiseless feedback channel. 91j:94005
- Gyöngy, I. The stability of stochastic partial differential equations. II. 91c:60178
- Hennin, A. J. On the stochastic differential equations of filtering theory. 91f:93098
- On the stochastic differential equations of filtering theory. 91f:93109
- Houdré, Christian Harmonizability, V -boundedness, $(2, p)$ -boundedness of stochastic processes. 91g:60052
- Huang, Hui ★ Optimal control of piecewise continuous stochastic processes. 91i:93123
- Ihara, Shunsuke Capacity of mismatched Gaussian channels with and without feedback. 91c:94011
- Kasturia, Sanjay (with Aslanis, James T.; Cioffi, John M.) Vector coding for partial response channels. 91f:94005
- Kazakov, I. E. see Efimov, E. V., 91m:93128
- Klin, Yu. V. An approach to suboptimal filtering in applied problems of information processing. 91m:93130
- Levin, Boris R. ★ Теоретические основы статистической радиотехники. (Russian) [Theoretical foundations for statistical radio engineering] 91a:94002
- Levine, Jean see Cohen de Lara, M., 91b:93033
- Piccioni, Mauro On the asymptotic behaviour of the predictor of a binary Markov chain. (Italian summary) 91m:60130
- (with Roma, Massimo) Stochastic regularization of linear equations and the realization of Gaussian fields. 91g:60048
- Roma, Massimo see Piccioni, Mauro, 91g:60048
- Rosenblatt, Murray Non-Gaussian sequences and deconvolution. (see 91j:60004)
- Schuss, Z. see Yaesh, I.; et al., 91i:93115
- Shafir, M. L. see Shaikhet, L. E., 91c:93075
- Shaikhet, L. E. (with Shafir, M. L.) Linear filtering of solutions of stochastic integral equations in non-Gaussian case. (Russian summary) 91c:93075
- Skorokhod, A. V. Probability. Applied aspects. (Russian) (see 91i:60003)
- Takenaka, Shigeo A linear filtering problem using Radon transform. 91g:44005
- Torondzhadze, T. A. (with Chitsashvili, R. Ya.) Innovation processes for semimartingales. (Russian) (see 91g:60005)
- Tran Hing Thao Optimal state estimation for a stochastic dynamical system from point process observations. 91j:93104
- Voisin, A. A. Problems on the filtering of jump-like processes with independent increments in a random environment. (Russian) 91d:60179
- Yaesh, I. (with Bobrovsky, B. Z.; Schuss, Z.) Asymptotic analysis of the optimal filtering problem for two-dimensional diffusions measured in a low noise channel. 91i:93115
- Yin, Gang George Asymptotic properties of an adaptive beam former algorithm. 91h:93000

60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15, 90D60]

- Alsmeyer, Gerold (with Irlé, Albrecht) Optimal strategies for discovering new species in continuous time. 91c:60050
- Barbaini, Franco Optimal stopping in favorable games. (Italian. English summary) 91i:60114
- Bruss, F. Thomas (with Samuels, Stephen M.) Conditions for quasi-stationarity of the Bayes rule in selection problems with an unknown number of rankable options. 91f:60083
- Consul, P. C. see Kamoye, Kiya Felix, 91c:60135
- Dalang, Robert C. Randomization in the two-armed bandit problem. 91g:60053
- DeBlassie, R. Dante The first exit time of a two-dimensional symmetric stable process from a wedge. 91j:60078
- Dubins, L. (with Maitra, A.; Purves, R.; Sudderth, W.) Measurable, nonleavable gambling problems. 91d:60101
- El Karoui, Nicole (with Karatzas, Ioannis) Integration of the optimal risk in a stopping problem with absorption. 91b:60046
- Hill, T. P. (with Kennedy, Douglas P.) Prophet inequalities for parallel processes. 91c:60051
- (with Kennedy, Douglas P.) Optimal stopping problems with generalized objective functions. 91j:60079
- Huang, Wen Tao (with Wang, Ch'ing Yün) On some optimal stopping and its applications to some statistical inferences. 91c:60051
- Irlé, Albrecht see Alsmeyer, Gerold, 91c:60050
- Jensen, Uwe Monotone stopping rules for stochastic processes in a semimartingale representation with applications. 91a:60114
- Jones, Martin Prophet inequalities for cost of observation stopping problems. 91j:60080
- Kamoye, Kiya Felix (with Consul, P. C.) A stochastic urn model for the generalized negative binomial distribution. 91c:60135
- Karatzas, Ioannis see El Karoui, Nicole, 91b:60046
- Kazamaki, Norihiko A remark on the class of martingales with bounded quadratic variation. 91c:60052
- Kennedy, Douglas P. (with Kertz, Robert P.) The asymptotic behavior of the reward sequence in the optimal stopping of i.i.d. random variables. 91m:60077
- see also Hill, T. P., 91j:60079 and 91k:60051
- Kertz, Robert P. see Kennedy, Douglas P., 91m:60077
- Klass, Michael J. Uniform lower bounds for randomly stopped Banach space valued random sums. 91b:60115
- Lamberton, Damien (with Pagès, Gilles) Sur l'approximation des réduites. (English summary) [On the approximation of reduites] 91j:60081
- Maitra, A. (with Purves, R.; Sudderth, W.) Leavable gambling problems with unbounded utilities. 91g:60054
- see also Dubins, L.; et al., 91d:60101
- Majumdar, A. A. K. Optimal stopping for some one-person sequential games: probability maximizing approach. 91f:60116
- Optimal stopping based on success or failure run. 91a:60115
- Mosticins, Michael G. Utility functions which ensure the adequacy of stationary strategies. 91h:60047
- Novikov, A. A. On the first exit time of an autoregressive process beyond a level and an application to the "change-point" problem. 91i:60117
- Øksendal, Bernt The high contact principle in optimal stopping and stochastic waves. 91h:60048
- Pagès, Gilles see Lamberton, Damien, 91j:60081
- Pfeifer, Dietmar Extremal processes, secretary problems and the $1/e$ law. 91c:60136
- Porosiński, Z. Optimal stopping of a random length sequence of maxima over a random barrier. 91g:60055
- Purves, R. see Dubins, L.; et al., 91d:60101 and Maitra, A.; et al., 91g:60054
- Ramsay, Colin M. On a fundamental identity for stopping times and its application to risk theory. 91j:60082
- Sakaguchi, Minoru Two-population secretary problems. 91i:60118
- Samuels, Stephen M. see Bruss, F. Thomas, 91f:60083
- Scherwentke, P. Best choice problem for discrete random variables. 91a:60116
- Schwartz, Laurent Quelques propriétés de la tribu accessible; les discontinuités d'un processus croissant intégrable et les discontinuités de sa projection prévisible duale. [Some properties of the accessible tribe: the discontinuities of an integrable growth process and the discontinuities of its dual predictable projection] 91c:60053
- Stettner, Lukasz On some stopping and impulsive control problems with a general discount rate criterion. 91j:60083
- Sudderth, W. see Dubins, L.; et al., 91d:60101 and Maitra, A.; et al., 91g:60054
- Wang, Ch'ing Yün see Huang, Wen Tao, 91c:60051
- Wang, Zhen Peng Expectation of stopped uniform martingales and convergence of MILS and GFTS. 91j:60084
- Items with secondary classifications in 60G40
- Ano, Katsunori Bilateral secretary problem recognizing the maximum or the second maximum of a sequence. 91h:90235
- Banjerić, Dragan On order statistics in waiting time for runs in Markov chains. 91f:60015
- Ben-Israel, Adi (with Fläm, Sjur D.) A bisection/successive approximation method for computing Gittins indices. (German summary) 91i:90078
- Boulean, Nicolas (with Lamberton, Damien) Residual risks and hedging strategies in Markovian markets. 91h:90023
- Bruss, F. Thomas Une note sur des inégalités pour l'espérance de variables aléatoires majorées ou minorées. (English summary) [A note on inequalities for the expectation of truncated or bounded random variables] 91k:60023
- Collins, E. J. see McNamara, J. M., 91i:90005
- Diaconis, Persi (with Fill, James Allen) Strong stationary times via a new form of duality. 91m:60127
- Enns, E. G. (with Ferenstein, E. Z.) A competitive best-choice problem with Poisson arrivals. 91i:90082
- Ferenstein, E. Z. see Enns, E. G., 91i:90082
- Fill, James Allen see Diaconis, Persi, 91m:60127
- Fitzsimmons, P. J. On ordered stopping times of a Markov process. 91h:60077
- Fläm, Sjur D. see Ben-Israel, Adi, 91i:90078
- Glazebrook, K. D. (with Owen, R. W.) New results for generalized bandit problems. 91k:90215
- Gut, Allan Converse results for existence of moments for stopped random walks. (see 91j:60004)
- Harrison, Victor (with Smirnov, S. N.) Jonction maximale en distribution dans le cas markovien. (English summary) [Maximal distributional junction in the Markov case] 91g:60079
- He, Sheng Wu (with Wang, Jia Gang) On the optimal parking problem. (Chinese summary) 91g:90062
- Huang, Chi-fu (with Li, Lode) Continuous time stopping games with monotone reward structures. 91g:90222
- Jensen, Uwe A general replacement model. (German summary) 91k:90068
- Kallenberg, Olav General Wald-type identities for exchangeable sequences and processes. 91c:60116
- Karatzas, Ioannis Optimization problems in the theory of continuous trading. 91g:90057
- Kennedy, Douglas P. (with Kertz, Robert P.) Limit theorems for threshold-stopped random variables with applications to optimal stopping. 91c:60065
- Kertz, Robert P. see Kennedy, Douglas P., 91c:60065
- Klein Hanefeld, L. A. (with Pittenger, A. O.) Escape time for a random walk from an orthant. 91i:60177
- Kramer, Morrey (with Starr, Norman) Optimal stopping in a size dependent search. 91m:62152
- Lamberton, Damien see Boulean, Nicolas, 91h:90023
- Laukmanová, Monika On asymptotic inequalities in discrete time controlled linear systems. 91h:93179
- Li, Lode see Huang, Chi-fu, 91g:90222
- McNamara, J. M. (with Collins, E. J.) The job search problem as an employer-candidate game. 91i:90005
- Nair, M. Gopalan Random space change for multiparameter point processes. 91h:60051
- Niculescu, Florentina-Rodica On asymptotic behaviour of two-sided stopping rules. 91d:60053
- Owen, R. W. see Glazebrook, K. D., 91k:90215
- Parthasarathy, Kalyanapuram Rangachari (with Sinha, Kalyan B.) Stop times in Fock space stochastic calculus. (see 91j:60003)
- Piccioni, Mauro (with Ramponi, A.) Stopping rules for the multistart method when different local minima have different function values. 91h:90102
- Pittenger, A. O. see Klein Hanefeld, L. A., 91i:60177
- Potter, M. J. M. (with Zuckerman, Dror) Optimal R & D programs in a random environment. 91j:90001
- Ramponi, A. see Piccioni, Mauro, 91h:90102
- Salov, G. I. An equation for the a posteriori probability of the existence of "disorder" in a sequence of dependent random variables, and the detection of the time of the appearance of "disorder" that is optimal in the sense of Shiryaev. 91d:62129
- Shih, C. T. Ordered Skorokhod stopping for a sequence of measures. 91h:60078
- Sinha, Kalyan B. see Parthasarathy, Kalyanapuram Rangachari, (91j:60003)
- Smirnov, S. N. see Harrison, Victor, 91g:60079

Stadje, Wolfgang Optimal stopping in a cumulative damage model. (German summary) (Not in MR)

Starr, Norman *see* Kramer, Morrey, 91m:62152

Wang, Jia Gang *see* He, Sheng Wu, 91g:90062

Zuckerman, Dror *see* Posner, M. J. M., 91j:90001

60G42 Martingales with discrete parameter

- Burkholder, Donald L. On the number of escapes of a martingale and its geometrical significance. 91c:60054
- Christofides, Tasos C. (with Serfling, Robert J.) Maximal inequalities for multidimensionally indexed submartingale arrays. 91i:60119
- (with Serfling, Robert J.) Maximal inequalities and convergence results for generalized U -statistics. 91e:60137
- Dzhaparidze, K. (with Valkeila, E.) On the Hellinger type distances for filtered experiments. 91d:60102
- Fan, Ai Hua Sur quelques processus de naissance et de mort. (English summary) [On some birth and death processes] 91d:60103
- Hiltzenko, Paweł Best constant in the decoupling inequality for nonnegative random variables. 91d:60104
- Imkeller, Peter On inequalities for two-parameter martingales. 91a:60117
- Kertz, Robert P. (with Röslér, Uwe) Martingales with given maxima and terminal distributions. 91g:60056
- Monroe, Itrel Null sets of singular martingales. 91a:60118
- Nualart, David Martingales and their applications: a historical perspective. (Catalan) 91d:60105
- Röslér, Uwe *see* Kertz, Robert P., 91g:60056
- Sato, Hiroshi Uniform integrability of an additive martingale and its exponential. 91i:60120
- Serfling, Robert J. *see* Christofides, Tasos C., 91e:60137 and 91i:60119
- Valkeila, E. *see* Dzhaparidze, K., 91d:60102
- Wang, Gang Sharp maximal inequalities for conditionally symmetric martingales and Brownian motion. 91i:60121
- Yu, Kai Fun Complete convergence of weighted sums of martingale differences. 91g:60057
- Zhao, Xing Qiu The strong law of large numbers for B -valued martingales. (Chinese. English summary) 91j:60085

Items with secondary classifications in 60G42

- Alsmeyer, Gerold Convergence rates in the law of large numbers for martingales. 91k:60035
- Antipa, Adrian Doob's inequality for rearrangement-invariant function spaces. 91m:46036
- Berger, Erich An almost sure invariance principle for stationary ergodic sequences of Banach space valued random variables. 91i:60012
- Bolthausen, Erwin A note on the diffusion of directed polymers in a random environment. 91a:60270
- Davis, Burgess Reinforced random walk. 91a:60179
- Davis, William J. (with Ghossoub, N.; Johnson, William B.; Kwapień, Stanisław; Maurey, B.) Weak convergence of vector valued martingales. 91i:60014
- Dinh Quang Lu Decompositions and limits for martingale-like sequences in Banach spaces. 91c:60060
- Einmahl, Uwe (with Mason, David M.) Darling-Erdős theorems for martingales. 91c:60099
- Ghossoub, N. (with Maurey, B.) Plurisubharmonic martingales and barriers in complex quasi-Banach spaces. (French summary) 91g:46003
- *see also* Davis, William J.; et al., 91i:60014
- Gouet, Rasil A martingale approach to strong convergence in a generalized Pólya-Eggenberger urn model. 91d:60075
- Häusler, Erich On the rate of convergence in ordinary and functional central limit theorems for martingales. (see 91j:60003)
- Hiltzenko, Paweł On a conjecture of J. Zinn. 91c:60012
- Huggins, R. M. The other law of the iterated logarithm for martingales. 91c:60035
- Johnson, William B. *see* Davis, William J.; et al., 91i:60014
- Kir'yanova, L. V. (with Rotar', V. I.) The rate of convergence in a central limit theorem for a martingale. (Russian) (see 91j:60002)
- Klein Haneveld, L. A. (with Pittenger, A. O.) Escape time for a random walk from an orbant. 91i:60177
- Kwapień, Stanisław (with Woyczyński, Wojbor A.) Tangent sequences of random variables: basic inequalities and their applications. 91c:60020
- *see also* Davis, William J.; et al., 91i:60014
- Lauimanová, Monika On asymptotic inequalities in discrete time controlled linear systems. 91b:93179
- Lia, Pei De Martingale inequalities and convexity and smoothness of Banach spaces. (Chinese) 91e:46020
- Mason, David M. *see* Einmahl, Uwe, 91c:60099
- Maurey, B. *see* Ghossoub, N., 91g:46003 and Davis, William J.; et al., 91i:60014
- McConnell, Terry R. Decoupling and stochastic integration in UMD Banach spaces. 91i:60010
- McDiarmid, C. J. H. On the method of bounded differences. 91e:85077
- Nguyễn Duy Tiển (with Nguyễn Văn Hùng) On the convergence of weighted sums of martingale differences. 91i:60097b
- *see also* Nguyễn Văn Hùng, 91i:60097a
- Nguyễn Văn Hùng (with Nguyễn Duy Tiển) On the convergence of weighted sums of martingale differences. 91i:60097a
- *see also* Nguyễn Duy Tiển, 91i:60097b
- Norvaiša, Rimantas A central limit theorem for weighted martingales with applications. 91e:60054
- Pemantle, Robin When are touchpoints limits for generalized Pólya urns? 91k:60043
- Pittenger, A. O. *see* Klein Haneveld, L. A., 91i:60177
- Przytycki, Feliks On the law of iterated logarithm for Bloch functions. 91f:30044
- Rackauskas, Alfredas On the martingale central limit theorem in Banach spaces. 91c:60019

Rhee, WanSoo T. A concentration inequality for maximum matching size in random graphs. 91i:60032

Rotar', V. I. *see* Kir'yanova, L. V., (91j:60002)

Sørensen, Michael On quasi likelihood for semimartingales. 91j:62124

Va Viet Yen Strong convergence of two-parameter vector-valued martingales and martingales in the limit. 91i:60019

Wang, Zhen Peng Expectation of stopped uniform amarts and convergence of MILS and GFTS. 91j:60084

Weisz, F. Martingale Hardy spaces for $0 < p \leq 1$. 91d:60107

Woyczyński, Wojbor A. *see* Kwapień, Stanisław, 91c:60020

Zhulenev, S. V. The law of the iterated logarithm in the finite-dimensional case. (Russian) 91m:60056

60G44 Martingales with continuous parameter

- Al-Hussaini, Ata N. (with Elliott, Robert James) Markov bridges and enlarged filtrations. (French summary) 91c:60138
- Arjas, Elja Survival models and martingale dynamics. 91k:60052
- Azéma, J. (with Yor, Marc) Étude d'une martingale remarquable. [Study of a remarkable martingale] 91c:60139
- Benabdallah, M. (with Mastrangelo, M.; Ouknine, Y.) Remarques sur les temps locaux. (English summary) [Remarks on local times] 91i:60122
- Chitashvili, R. Ya. *see* Torondzhadze, T. A., (91g:60005)
- Edwards, David Albert A note on stochastic integrators. 91d:60106
- Elliott, Robert James *see* Al-Hussaini, Ata N., 91c:60138
- Emery, M. On the Azéma martingales. 91c:60140
- Sur les martingales d'Azéma (suite). [On Azéma martingales (continued)] 91m:60078
- Gal'chuk, L. I. The Lenglart and the Burkholder-Davis-Gundy inequalities for optional martingales. (Russian) 91m:60079
- Gasparyan, K. V. Sufficient conditions for the uniform integrability of exponential martingales. (Russian. Armenian summary) 91c:60143
- Gushchin, A. A. Inequalities of Rao-Cramér type on a space with a filtration. 91a:60119
- Imkeller, Peter Regularity and integrator properties of variation processes of two-parameter martingales with jumps. 91a:60120
- Jacod, Jean Martingale problems, absolute continuity and contiguity. 91c:60055
- Kazamaki, Norihiko Exponential martingales and H^1 . 91a:60121
- Kikuchi, M. The best estimation of a ratio inequality for continuous martingales. 91k:60053
- Küchler, Uwe (with Rebolledo, Rolando) Continuous local martingales, local times and scale processes. 91c:60144
- Mastrangelo, M. *see* Benabdallah, M.; et al., 91i:60122
- Meyer, Paul-André Équations de structure des martingales et probabilités quantiques. [Structure equations of martingales and quantum probabilities] 91c:60141
- Construction de solutions d'"équations de structure". [Construction of solutions of "structure equations"] 91c:60142
- Mishura, Yu. S. Transformations of martingale fields with a change of the probability measure. 91c:60037
- Nguyen Minh Duc (with Nualart, David; Sanz, Marta) Planar semimartingales obtained by transformations of two-parameter martingales. 91c:60056
- Nualart, David (with Sanz, Marta; Zakai, Moshe) On the relations between increasing functions associated with two-parameter continuous martingales. 91c:60145
- *see also* Nguyen Minh Duc; et al., 91c:60056
- Ouknine, Y. *see* Benabdallah, M.; et al., 91i:60122
- Rajeev, B. On sojourn times of martingales. 91i:60124
- Rebolledo, Rolando Maximum entropy selection of solutions to ill-posed martingale problems. (see 91j:60004)
- *see also* Küchler, Uwe, 91c:60144
- Sanz, Marta *see* Nguyen Minh Duc; et al., 91c:60056 and Nualart, David; et al., 91c:60145
- Stoniński, Leszek Some remarks on approximation of predictable characteristics of processes with filtrations. (see 91j:60003)
- Smirnov, S. N. *see* Sverchkov, M. Yu., 91c:60057
- Stricker, Christophe Arbitrage et lois de martingale. (English summary) [Arbitrage and martingale laws] 91m:60080
- Valeurs prises par les martingales locales positives continues à un instant donné. (English summary) [Values taken by continuous positive local martingales at a given moment] 91h:60049
- Sverchkov, M. Yu. (with Smirnov, S. N.) A representation for supermartingales. 91c:60057
- Torondzhadze, T. A. (with Chitashvili, R. Ya.) Innovation processes for semimartingales. (Russian) (see 91g:60005)
- Trofimov, E. I. L^2 -construction of distributions and a martingale problem. 91m:60081
- Yaa, Jia An Correction to: "A formula for local times of semimartingales" [Dongbei Shuxue 1 (1985), no. 2, 138–140; MR 87i:60043]. 91i:60123
- Yor, Marc *see* Azéma, J., 91c:60139
- Zakai, Moshe *see* Nualart, David; et al., 91c:60145

Items with secondary classifications in 60G44

- Antonyan, A. A. Weak convergence of a class of semimartingales and of solutions of stochastic differential equations. (Russian) (see 91g:60005)
- Barlow, Martin T. (with Pitman, Jim W.; Yor, Marc) On Walsh's Brownian motions. 91a:60204
- Bertoin, Jean Sur une intégrale pour les processus à α -variation bornée. (English summary) [On an integral for processes with bounded α -variation] 91g:60065
- Une construction des processus de Lévy à l'aide de la "martingale d'Azéma". (English summary) [A construction of Lévy processes based on Azéma's martingale] 91d:60174
- Bouleau, Nicolas Autour de la variance comme forme de Dirichlet: filtrations et résolutions de l'identité, contractions et BMO, espérances conditionnelles et principe complet du maximum. (English summary) [Variance as a Dirichlet form: filtrations and resolutions of the identity, contractions and BMO, conditional expectations and the complete maximum principle] 91g:31004

- Chikina, D. O. A functional limit theorem for stationary processes: a martingale approach. 91c:60106
- Dassios, A. (with Embrechts, P.) Martingales and insurance risk. 91h:62096
- Dawson, Donald A. (with Gorostiza, Luis G.) Generalized solutions of stochastic evolution equations. 91h:60060
- Embrechts, P. see Dassios, A., 91h:62096
- Fan, Ai Hua ★ Décompositions de mesures et recouvrements aléatoires. (French) [Decompositions of measures and random coverings] 91c:60009
- Feigin, P. D. Semimartingale convergence theory and conditional inference for stochastic processes. (see 91j:60004)
- Fierro, Raúl Domains of attraction for semi-martingales taking values in the tempered distributions space. 91d:60005
- Existence and uniqueness of a martingale problem in $D(\mathbb{R}, \mathcal{D})$. 91d:60003
- Fleming, Thomas R. see Therasse, Terry M.; et al., 91c:62241
- Gorostiza, Luis G. see Dawson, Donald A., 91h:60060
- Grambsch, Patricia M. see Therasse, Terry M.; et al., 91c:62241
- Ibarrola, Pilar (with Vélez Ibarrola, Ricardo) Invariance in decision processes with continuous observations. 91c:62003
- Jelis, Maria On compact Itô's formulas for martingales of m_t^d . 91h:60054
- Kallianpur, G. (with Mitoma, I.; Wolpert, R. L.) Diffusion equations in duals of nuclear spaces. 91c:60167
- Karandikar, Rajeeva L. On Métivier-Pellaumail inequality, Emery topology and pathwise formulae in stochastic calculus. 91c:60146
- Karatzas, Ioannis Optimization problems in the theory of continuous trading. 91g:90057
- (with Leheczy, John P.; Shreve, Steven E.; Xu, Gan-Lin) Optimality conditions for utility maximization in an incomplete market. 91h:90031
- Kazamaki, Norihiko A remark on the class of martingales with bounded quadratic variation. 91c:60052
- Kennedy, Joanne (with Williams, David) Probabilistic factorization of a quadratic matrix polynomial. 91c:60211
- Kertz, Robert P. (with Röslér, Uwe) Martingales with given maxima and terminal distributions. 91g:60056
- Kohatsu-Higa, Arturo Weak convergence of a sequence of stochastic processes related with U -statistics. 91m:60060
- Krylov, N. V. Some estimates from stochastic analysis. (Russian) 91m:60096
- Lebedev, V. A. Stochastic integrals with respect to semimartingale random measures. (Russian) (see 91g:60005)
- Stochastic integration with respect to semimartingale random measures. 91c:60162
- Le Breton, Alain (with Musiela, M.) Order of convergence of regression parameter estimates in models with infinite variance. 91c:62170
- Leheczy, John P. see Karatzas, Ioannis; et al., 91h:90031
- Lesn, Jorge A. Stochastic evolution equations with respect to semimartingales in Hilbert space. 91c:60169
- Liu, Yu. N. Asymptotical methods of statistics for semimartingales. (see 91f:60002)
- Mackevičus, Vygintas Stability of solutions of stochastic differential equations under uniform perturbations of the controlling semimartingales. (Russian) (see 91g:60005)
- Melamed, Benjamin (with Whitt, Ward) On arrivals that see time averages: a martingale approach. 91j:60149
- Meinikoff, A. V. Probabilities of "large deviations" for multidimensional martingales. (Not in MR)
- Meyer, Paul-André New examples of "chaotic" representation. 91a:60142
- Mishura, Yu. S. Martingale characterization of solutions of stochastic differential equations in the plane. (Russian. English summary) 91m:60108
- Mitoma, I. see Kallianpur, G.; et al., 91c:60167
- Musiela, M. see Le Breton, Alain, 91c:62170
- Nair, M. Gopalan Random space change for multiparameter point processes. 91h:60051
- Ney, J. Multiplicative martingales for spatial branching processes. 91f:60144
- Nualart, David Martingales and their applications: a historical perspective. (Catalan) 91d:60165
- Oksendal, Bernt When is a stochastic integral a time change of a diffusion? 91h:60065
- Ouknine, Y. Fonctions de semimartingales et applications aux équations différentielles stochastiques. (English summary) [Functions of semimartingales and applications to stochastic differential equations] 91a:60155
- Pitman, Jim W. see Barlow, Martin T.; et al., 91a:60204
- Prakasa Rao, B. L. S. Interface between probability and statistics. (Not in MR)
- Pratelli, Luca Invariance des notions de semimartingale et d'intégrale stochastique par un changement d'espace. (Italian summary) [Invariance of the notions of semimartingale and stochastic integral under change of space] 91c:60073
- Protter, Philip A connection between the expansion of filtrations and Girsanov's theorem. 91a:60144
- ★ Stochastic integration and differential equations. 91h:60148
- Rajeev, B. On semi-martingales associated with crossings. 91j:60074
- Rodkina, A. E. Stochastic functional-differential equations with respect to a semimartingale. 91d:60150
- Röslér, Uwe see Kertz, Robert P., 91g:60056
- Schmidt, Wolfgang Michael On semimartingale diffusions and stochastic differential equations. 91d:60192
- Schwartz, Laurent Quelques propriétés de la tribu accessible; les discontinuités d'un processus croissant intégrable et les discontinuités de sa projection prévisible duale. [Some properties of the accessible tribe: the discontinuities of an integrable growth process and the discontinuities of its dual predictable projection] 91c:60053
- Shiryayev, A. N. Fundamental principles of martingale methods in functional limit theorems. (Russian) 91g:60035
- Shreve, Steven E. see Karatzas, Ioannis; et al., 91h:90031
- Sørensen, Michael Some asymptotic properties of quasilielihood estimators for semi-martingales. 91h:62079
- Spreij, P. J. C. ★ Counting process systems. 91m:60089
- Svensson, Åke Asymptotic inference for multiplicative counting processes based on one realization. 91c:62226
- Sviridenko, M. N. A martingale approach to limit theorems for semi-Markov processes. 91h:60072
- Taraskin, A. F. Asymptotic behavior of the likelihood ratio for semimartingales. (Russian) (see 91g:60005)
- Therasse, Terry M. (with Grambsch, Patricia M.; Fleming, Thomas R.) Martingale-based residuals for survival models. 91c:62241
- Vélez Ibarrola, Ricardo see Ibarrola, Pilar, 91c:62003
- Vu Viet Yen A stochastic Taylor formula for functionals of two-parameter semimartingales. 91d:60140
- von Weizsäcker, Heinrich (with Winkler, Gerhard) ★ Stochastic integrals. 91h:60150
- Wesolowski, Jacek A martingale characterization of the Wiener process. 91h:60211
- Whitt, Ward see Melamed, Benjamin, 91j:60149
- Williams, David see Kennedy, Joanne, 91c:60211
- Winkler, Gerhard see von Weizsäcker, Heinrich, 91h:60150
- Wolpert, R. L. see Kallianpur, G.; et al., 91c:60167
- Xu, Gan-Lin see Karatzas, Ioannis; et al., 91h:90031
- Yor, Marc see Barlow, Martin T.; et al., 91a:60204
- Zhuang, Xing Wu The generalized Brownian sheet and two-parameter harnesses. (Chinese. English summary) 91c:60158

60G46 Martingales and classical analysis

- Chao, J.-A. (with Daly, J. E.; Ombe, H.) Factorizations of Hardy spaces of simple martingales. 91a:60122
- Chen, Pei De (with Chen, Zong Xun) Young functions and their applications in multiparameter stochastic processes. (Chinese. English summary) 91j:60086
- Chen, Zong Xun see Chen, Pei De, 91j:60086
- Daly, J. E. see Chao, J.-A.; et al., 91a:60122
- Gundy, Richard F. ★ Some topics in probability and analysis. 91c:60059
- Some martingale inequalities with applications to harmonic analysis. 91c:60058
- Lin, Pei De Boundedness of the maximum operator and the mean square operator on BMO martingale spaces. (Chinese. English summary) 91m:60082
- Mueller, Carl Probability and the equivalence of generalized H^p spaces. 91h:60038
- Ombe, H. see Chao, J.-A.; et al., 91a:60122
- Pavlov, I. V. Martingales with mixed norm: general theory and applications. (see 91j:60003)
- Roitgarts, A. D. Two-parameter martingales connected with an integer random measure. (Russian) 91j:60087
- Weisz, F. Martingale Hardy spaces for $0 < p \leq 1$. 91d:60107

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics see Gundy, Richard F., 91c:60059

Items with secondary classifications in 60G46

- Bass, Richard F. A probabilistic approach to the boundedness of singular integral operators. 91j:42008
- Donati-Martin, C. (with Yor, Marc) Mouvement brownien et inégalité de Hardy dans L^2 . [Brownian motion and Hardy inequality in L^2] 91f:60094
- Leibov, M. V. Convergence of conditional means in the norm of the BMO space. 91h:42020
- Liu, Pei De Davis inequalities for B -valued martingales and geometric properties of Banach spaces. (Chinese) 91h:46008
- Morayne, Michal (with Solecki, Sławomir) Martingale proof of the existence of Lebesgue points. 91d:28013
- Solecki, Sławomir see Morayne, Michal, 91d:28013
- Uchlyama, Akihito Corrigendum to: "The singular integral characterization of H^p on simple martingales" [Proc. Amer. Math. Soc. 88 (1983), no. 4, 617–621; MR 85c:42020]. 91d:42022
- Wang, Zhen Peng Convergence of vector-valued pramarts indexed by directed sets. (Chinese) 91c:60061
- Xu, Quan Hua Convexités uniformes et inégalités de martingales. [Uniform convexities and martingale inequalities] 91m:46027
- Yor, Marc see Donati-Martin, C., 91f:60094

60G48 Generalizations of martingales

- Benassi, Albert Calcul stochastique anticipatif: martingales hiérarchiques. (English summary) [Anticipative stochastic calculus: hierarchical martingales] 91h:60125
- Brooks, J. K. (with Dinculeanu, Nicolae) Regularity and the Doob-Meyer decomposition of abstract quasimartingales. 91f:60084
- Bui Khoi-Dam BMO-sequences and amarts. 91d:60108
- Cabaña, Enrique M. On a martingale characterization of two-parameter Wiener process. 91h:60126
- Choukairi-Dini, Ahmed M-convergence des martingales (asymptotiques) multivoques. Épi-martingales. (English summary) [M-convergence of multivalued (asymptotic) martingales. Epimartingales] 91d:60109
- Dinculeanu, Nicolae see Brooks, J. K., 91f:60084
- Dinh Quang Lu'u Decompositions and limits for martingale-like sequences in Banach spaces. 91c:60060
- Gan, Shi Xin Another convergence theorem for mil and the stability of some sequences of martingale type. (Chinese. English summary) 91h:60039
- Banach-space-valued martingales in the L^1 limit and their induced set functions. (Chinese) 91j:60083
- Hess, Christian Sur l'existence de sélections martingales et la convergence des surmartingales multivoques. (English summary) [Existence of martingale selectors and convergence of multivalued supermartingales] 91m:60083
- Li, Ji Tao The local (F_1) condition. (Chinese. English summary) 91g:60058
- Mishura, Yu. S. Canonical representation of weak semimartingales defined on the plane. 91a:60123
- Martingale characterization of diffusion random fields that are defined on the plane. 91j:60089
- Picard, Jean Martingales sur le cercle. [Martingales on the circle] 91d:60110

- Roitgarts, A. D. Countable random sets on a plane and two-parameter martingales. (Ukrainian. Russian summary) 91e:60146
- Stoica, Gheorghe Vector valued quasi-martingales. 91k:60054
- Wang, Zhen Peng (with Xue, Xing Hong) On convergence of vector-valued mils indexed by a directed set. 91d:60111
- Convergence of vector-valued pramarts indexed by directed sets. (Chinese) 91c:60061
- Xue, Xing Hong see Wang, Zhen Peng. 91d:60111

Items with secondary classifications in 60G48

- Caponetti, Diana On convergence of multivalued martingales and uniform amarts indexed by directed sets. (Italian summary) 91j:60013
- Carmona, René A. (with Nualart, David) ★ Nonlinear stochastic integrators, equations and flows. 91i:60143
- Castaing, Charles Sur la décomposition de Slaby: applications aux problèmes de convergence en probabilités, économie mathématique, théorie du contrôle, minimisation. [The Slaby decomposition: applications to problems of convergence in probability theory, mathematical economics, control theory, minimization] 91g:49004
- Chen, Pei De (with Chen, Zong Xun) Regular functions on \mathbb{R}_+^2 and decomposition of L-S measures. (Chinese. English summary) 91j:28003
- Chen, Zong Xun see Chen, Pei De. 91j:28003
- Darwich, Abdul Raouf Une loi du logarithme itéré pour les martingales locales multidimensionnelles et son application en régression linéaire stochastique. (English summary) [A law of iterated logarithm for càdlàg vector local martingales and its application in multiple linear regression] 91d:60073
- Dinh Quang Lu'u The Banach lattice property of L^1 -amarts. (Vietnamese. English summary) 91c:46050
- see also Nguyen Van Hung. 91i:60018
- Fagnola, Franco A martingale characterization of quantum Poisson processes. 91f:46083
- Haagerup, Uffe (with Pisier, Gilles) Factorization of analytic functions with values in noncommutative L_1 -spaces and applications. 91g:46068
- Hess, Christian On multivalued martingales whose values may be unbounded: martingale selectors and Mosco convergence. 91g:28015
- Imkeller, Peter Regularity and integrator properties of variation processes of two-parameter martingales with jumps. 91a:60120
- Ivanoff, B. Gall Compensator approximations for point processes on the plane. 91a:60129
- (with Merzbach, Ely) Characterization of compensators for point processes on the plane. 91c:60148
- Jagers, Peter Six lectures on branching processes as Markov fields. 91d:60207
- General branching processes as Markov fields. 91d:60208
- Kendall, Wilfrid S. Probability, convexity, and harmonic maps with small image. I. Uniqueness and fine existence. 91g:58062
- Merzbach, Ely see Ivanoff, B. Gall. 91c:60148
- Nguyen Minh Duc (with Nualart, David; Sanz, Marta) Planar semimartingales obtained by transformations of two-parameter martingales. 91c:60056
- Nguyen Van Hung (with Dinh Quang Lu'u) Relations between laws of large numbers and asymptotic martingales in Banach spaces. (French summary) 91i:60018
- Nualart, David see Nguyen Minh Duc; et al., 91c:60056 and Carmona, René A., 91i:60143
- Papageorgiou, Nikolaos S. Convergence and representation theorems for set valued random processes. 91a:60032
- Pisier, Gilles see Haagerup, Uffe. 91g:46068
- Sanz, Marta see Nguyen Minh Duc; et al., 91c:60056
- Suchanecki, Zdzisław (with Weron, Aleksander) Applications of an operator stochastic integral in Prigogine's theory of irreversible dynamical systems. 91a:47057
- Wang, Zhen Peng Expectation of stopped uniform amarts and convergence of MILS and GFTS. 91j:60084
- Weron, Aleksander see Suchanecki, Zdzisław. 91a:47057
- Zhao, Xing Qiu The strong law of large numbers for B -valued martingales. (Chinese. English summary) 91j:60085

60G50 Sums of independent random variables

- Alsmeyer, Gerold On first and last exit times for curved differentiable boundaries. 91g:60059
- Bélisle, Claude Windings of random walks. 91d:60112
- Braverman, M. Sh. Symmetric spaces and sequences of independent random variables. 91i:60127
- On a condition for absolute moments of normalized sums of independent random variables. 91h:60050
- Buldygin, V. V. (with Sointsev, S. A.) A generalized summation of random series. 91d:60113
- Dror, Moshe see Kreimer, Joseph. 91a:60124
- Khuruma, A. K. Times for the first attainment of a certain level by a sum of random variables. (Russian) 91c:60062
- Klebaner, Fima C. Expected number of excursions above curved boundaries by a random walk. 91k:60055
- Kreimer, Joseph (with Dror, Moshe) The monotonicity of the threshold detection probability in a stochastic accumulation process. 91a:60124
- Li, De Li (with Wu, Zhi Quan) The moments of $\sup_{0 \leq t \leq 1} |S_t|/|t|^{1/r}$ ($0 < r < 2$) and $\sup_{0 \leq t \leq 1} |S_t|/(|t|L_2(t))^{1/2}$. (Chinese) 91g:60060
- Lotov, V. I. An approach to problems with two boundaries. (Russian) 91m:60084
- Ragimov, F. G. A local limit theorem for the time of crossing of nonlinear boundaries. (Russian. English and Azerbaijani summaries) 91a:60125
- Sointsev, S. A. see Buldygin, V. V., 91d:60113
- Sachkov, A. P. (with Ushakov, N. G.) Rapid decrease of the concentration function of sums of independent random variables. 91a:60126
- Ushakov, N. G. see Sachkov, A. P., 91a:60126
- Wu, Zhi Quan see Li, De Li. 91g:60060
- Zheng, Za Kang The uniform convergence of the sum of independent random variables. 91a:60127

Items with secondary classifications in 60G50

- Adler, André On complete convergence of the sum of a random number of random variables. 91a:60080
- Exact sequences for sums of independent random variables. 91c:60038
- Arenbaev, N. K. On inequalities for the concentration function. (Russian) (see 91k:00020)
- Bentkus, Vidmantas-Kastytis Jurgio (with Bloznelis, Mindaugas P.) A nonuniform estimate for the rate of convergence in the central limit theorem with a stable limit distribution. (Russian. English and Lithuanian summaries) 91h:60015
- Bloznelis, Mindaugas P. A nonuniform estimate for the rate of convergence to the stable law in a multidimensional central limit theorem. 91a:60059
- see also Bentkus, Vidmantas-Kastytis Jurgio. 91h:60015
- Borisov, I. S. Approximation of distributions of smooth functionals of sums of independent random elements in Banach spaces. (Russian) 91d:60008
- Braverman, M. Sh. A probabilistic inequality. (Russian) 91k:60022
- Čekanavičius, Vydas Approximation by accompanying distributions and asymptotic expansions. II. 91f:60046
- Approximation by accompanying distributions and asymptotic expansions. I. (Russian. English and Lithuanian summaries) 91f:60046a
- Choi, Kiheon Local limit theorem for the distribution of S_n . 91c:60061
- Chow, Yuan Shih On the rate of moment convergence of sample sums and extremes. 91m:60063
- Deheuvels, Paul (with Steinebach, Josef) On the sample path behavior of the first passage time process of a Brownian motion with drift. (French summary) 91i:60083
- van de Geer, Sara Estimating a regression function. 91i:60005
- Griff, Karl A note on the stochastic geyser problem. 91m:62061
- Hahn, Marjorie G. (with Kuelbs, James D.; Weiner, Daniel C.) A universal law of the iterated logarithm for trimmed and censored sums. 91a:60081
- Kazanchyan, T. P. K. L. Chung's theorem for a scheme of series of independent random variables. (Russian. English and Armenian summaries) 91h:60025
- Khodzhabagyan, S. S. see Nagaev, S. V., (Not in MR)
- Korolev, V. Yu. Approximation of the distributions of sums of a random number of independent random variables by mixtures of Gaussian measures. 91d:60057
- Kruglov, V. M. Normal and degenerate convergences of random sums. 91h:60032
- Kuelbs, James D. see Hahn, Marjorie G.; et al., 91a:60081
- Lacey, Michael T. A remark on the multiparameter law of the iterated logarithm. 91a:60105
- Massart, P. The tight constant in the Dvoretzky-Kiefer-Wolfowitz inequality. 91i:60052
- Mazhuga, Ya. I. Estimates for the asymptotics of Markovian times in terms of the potential of a nonterminating Markov process. (Russian) 91h:60080
- Mei, Guo Ping (with Tan, Guang Xing) Large deviations of partial sums of independent random variables. (Chinese) (Not in MR)
- Montgomery-Smith, Stephen The distribution of Rademacher sums. 91a:60034
- Mukhin, A. B. Local probabilities of sums of independent random variables. 91c:60078
- Nagaev, S. V. (with Khodzhabagyan, S. S.) An upper bound for the concentration function. (Russian) (Not in MR)
- Nezarov, V. B. Two identities for sums of lattice random variables. (Russian) 91f:60053
- Ostrovskii, E. I. Refining S. N. Bernstein's inequality. 91j:60053
- Petrov, Valentin Vladimirovich Inequalities for moments of sums of independent random variables. 91j:60032
- Moments of sums of independent random variables. (Russian) 91f:60039
- Pinelis, I. S. (with Utev, S. A.) Sharp exponential estimates for sums of independent random variables. 91a:60053
- Pruitt, William E. The rate of escape problem for a class of random walks. 91c:60037
- The rate of escape of random walk. 91i:60180
- Rosen, Jay Random walks and intersection local time. 91j:60132
- Rozovskii, L. V. The rate of convergence in the weak law of large numbers. 91a:60070
- Sakhanenko, A. I. On the accuracy of normal approximation in the invariance principle. (Russian) 91d:60082
- Shao, Qi Man On the complete convergence for randomly selected sequences. 91i:60071
- Shervashidze, T. L. Multidimensional analogues of an alternative of P. Lévy. (Russian) 91i:60090
- Spătaru, Aurel Strengthening the Hsu-Robbins-Erdős theorem. 91m:60055
- Steinebach, Josef see Deheuvels, Paul. 91i:60083
- Tan, Guang Xing see Mei, Guo Ping. (Not in MR)
- Utev, S. A. The central limit theorem for ϕ -mixing arrays of random variables. 91f:60055
- see also Pinelis, I. S., 91a:60053
- Weiner, Daniel C. see Hahn, Marjorie G.; et al., 91a:60081

60G55 Point processes

- Abbar, H. see Jacob, Pierre M., 91k:60057
- Abikhail, F. De l'inégalité de Cramér aux processus ponctuels marqués en théorie du risque. [From Cramér's inequality to marked point processes in risk theory] 91c:60063
- Arenas, C. On point processes in the plane. 91c:60064
- Arjas, Elja (with Haara, Pentti) On the exponentiality of total hazards before failure. (see 91j:60003)
- Burton, Robert M., Jr. (with Franzosa, Marie M.) Positive dependence properties of point processes. 91k:60056
- Chukova, S. (with Khalil, Z.) On the moving T -screening of nonstationary Poisson processes. (Not in MR)
- Cuzick, Jack (with Edwards, Robert) Spatial clustering for inhomogeneous populations. 91i:60128
- Edwards, Robert see Cuzick, Jack. 91i:60128
- Elliott, Robert James (with Tsoi, Allan H.) Time reversal of non-Markov point processes. (French summary) 91j:60090
- (Engelen, Ron) see Rogers, L. C. G., 91a:60130
- Franzosa, Marie M. see Burton, Robert M., Jr., 91k:60056
- Gleindinning, R. H. The convex hull of a dependent vector-valued process. (Not in MR)
- Goswami, Asis K. On a martingale representation theorem of M. H. A. Davis—a Markovian approach. 91a:60128

- Haara, Pentti *see* Arjas, Elja, 91j:60003
- Hilber, Joseph L. Chaotic behavior of a marked point process. (Not in MR)
- Ivanoff, B. Gall. Compensator approximations for point processes on the plane. 91a:60129
- (with Merzbach, Ely) Intensity-based inference for planar point processes. 91e:60147
- (with Merzbach, Ely) Characterization of compensators for point processes on the plane. 91e:60148
- Jacob, Pierre M. (with Abbar, H.) Estimating the edge of a Cox process area. 91k:60057
- Kallenberg, Olav. On the theory of conditioning in point processes. (see 91j:60003)
- Khalil, Z. *see* Chukova, S., (Not in MR)
- Last, Günter. Some remarks on conditional distributions for point processes. 91e:60149
- Li, Ying Qiu. Two-parameter stationary flows of random events. (Chinese. English summary) 91d:60114
- Mase, Shigeru. Mean characteristics of Gibbsian point processes. 91m:60085
- Merzbach, Ely *see* Ivanoff, B. Gall, 91e:60147 and 91e:60148
- Müller, Jesper. On the rate of convergence of spatial birth-and-death processes. 91e:60150
- Nair, M. Gopalan. Random space change for multiparameter point processes. 91h:60051
- Neuts, Marcel F. (with Sitaraman, H.) The square-wave spectral density of a stationary renewal process. 91f:60085
- On the packet stream generated by a random flow of calls of random durations. 91f:60086
- Okhanyan, V. K. On homogeneous processes of lines in the plane. (see 91j:60003)
- Penttilä, A. (with Stoyan, Dietrich) Statistical analysis for a class of line segment processes. 91e:60151
- Petunin, Yu. I. (with Semelko, N. G.) Calculation of the first-order moment measure of a random segment process on a two-dimensional Euclidean sphere. (Russian) 91m:60086
- Piterburg, V. I. A remark on the strong invariance principle for the shot effect process. (Russian) 91m:60087
- Reiss, R.-D. Asymptotic independence of marginal point processes of exceedances. 91m:60088
- Rogers, L. C. G. Ignatov's theorem: an abbreviation of the proof of Engelen, Tommassen and Vervaat. Comment on: "Ignatov's theorem: a new and short proof" [J. Appl. Probab. 1988, Special Vol. 25A, 229-236; MR 90a:60094] by R. Engelen, P. Tommassen and W. Vervaat. 91a:60130
- Rolski, Tomasz. Ergodic properties of Poisson processes with almost periodic intensity. 91f:60087
- Semelko, N. G. *see* Petunin, Yu. I., 91m:60086
- Sitaraman, H. *see* Neuts, Marcel F., 91f:60085
- Spreij, P. J. C. ★ Counting process systems. 91m:60089
- Stoyan, Dietrich *see* Penttilä, A., 91e:60151
- Sukiasyan, G. S. Randomizable point systems and parabolic lattices. (Russian. English and Armenian summaries) 91j:60129
- Thedén, T. The inverses of thinned point processes. (see 91j:60003)
- (Tommassen, Paul) *see* Rogers, L. C. G., 91a:60130
- Tsai, Allan H. *see* Elliott, Robert James, 91j:60090
- (Vervaat, Wim) *see* Rogers, L. C. G., 91a:60130
- Weill, Wolfgang. Point processes of compact sets. (see 91j:60003)
- Yamada, Keigo. Limit theorems for jump shock models. 91d:60115
- Items with secondary classifications in 60G55
- Aldous, David J. Stein's method in a two-dimensional coverage problem. 91c:60014
- Alsmeyer, Gerold (with Irlé, Albrecht) Optimal strategies for discovering new species in continuous time. 91c:60050
- Ambartsumyan, R. V. (with Mecke, Joseph; Stoyan, Dietrich) ★ Выведение в стохастическую геометрию. (Russian) [Introduction to stochastic geometry] 91m:60026
- Andersen, Per Kragh (with Borgan, Ørnulf; Gill, Richard D.; Keiding, Niels) Censoring, truncation and filtering in statistical models based on counting processes. 91h:62084
- Anisimov, V. V. Limit theorems for developing accumulation processes. (Russian) 91j:60142
- Arjas, Elja. Survival models and martingale dynamics. 91k:60052
- Borgan, Ørnulf *see* Andersen, Per Kragh; et al., 91h:62084
- Breimaud, P. Characteristics of queueing systems observed at events and the connection between stochastic intensity and Palm probability. 91e:60264
- Brounis, Henk. Convergence in mean of some characteristics of the convex hull. 91h:60014
- Coquet, François. Processus de Hellinger des processus ponctuels. (English summary) [Hellinger processes of point processes] 91g:60041
- Dabrowski, André Robert. Extremal point processes and intermediate quantile functions. 91j:60035
- Dia, Galaye. Loi limite du régressogramme pour un processus ponctuel. [Limit law of the regressogram for a point process] 91c:62077
- Elliott, Robert James (with Kopp, P. Ekkehard) Option pricing and hedge portfolios for Poisson processes. 91h:90026
- El Taha, Muhammad *see* Stidham, Shaler, Jr., 91c:60134
- Gill, Richard D. *see* Andersen, Per Kragh; et al., 91h:62084
- Gorostiza, Luis G. (with Wakolbinger, Anton) Persistence criteria for a class of critical branching particle systems in continuous time. 91k:60089
- Gross, Shulamith *see* Huber-Carol, Catherine, (91j:60003)
- Gurevich, B. M. Dynamics of infinite particle systems and Gibbs point random fields. (see 91j:60003)
- de Haan, Laurens (with Resnick, Sidney I.; Rootzén, Holger; de Vries, Casper G.) Extremal behaviour of solutions to a stochastic difference equation with applications to ARCH processes. 91g:60029
- Haara, Pentti. A note on the asymptotic behaviour of the empirical score in Cox's regression model for counting processes. (see 91j:60003)
- Heinrich, Lothar (with Schwandtke, Annette) Some remarks on second-order-analysis of planar fibre processes by line intersections. 91i:60035
- Hoesman, Craig *see* Slud, Eric, 91c:60094
- Huber-Carol, Catherine (with Gross, Shulamith) Comparison of Cox's and maximum likelihood estimates for matched experiments in survival data with censoring. (see 91j:60003)
- Irlé, Albrecht *see* Alsmeyer, Gerold, 91c:60050
- Ivanoff, B. Gall. The multitype branching random walk: temporal and spatial limit theorems. 91a:60221
- Jakubowski, Adam (with Kobus, Maria) α -stable limit theorems for sums of dependent random vectors. 91a:60065
- Keiding, Niels *see* Andersen, Per Kragh; et al., 91h:62084
- Kobus, Maria *see* Jakubowski, Adam, 91a:60065
- König, Dieter (with Schmidt, Volker) Extended and conditional versions of the PASTA property. 91j:60148
- Kopp, P. Ekkehard *see* Elliott, Robert James, 91h:90026
- Korotkiy, V. S. ★ Стохастические модели систем. (Russian) [Stochastic models of systems] 91d:60218
- Koukion, F. A random covering interpretation for the phase transition of the random energy model. 91m:82068
- Luceno, Alberto. Some generalizations of the Poisson and gamma distributions. (Spanish. English summary) 91a:60042
- Luo, Shou Jun. On the germ-Markov property of the generalized N -parameter Ornstein-Uhlenbeck process. 91d:60120
- Mecke, Joseph *see* Ambartsumyan, R. V.; et al., 91m:60026
- Melamed, Benjamin (with Whitt, Ward) On arrivals that see time averages: a martingale approach. 91j:60149
- Merzbach, Ely (with Nualart, David) Markov properties for point processes on the plane. 91d:60200
- Milne, R. K. (with Yeo, G. F.) Random sum characterizations. 91d:60046
- Molchanov, I. S. Estimation of the parameters of superpositions of Poisson point processes. (Russian) 91j:62114
- Natvig, Bent. On information-based minimal repair and the reduction in remaining system lifetime due to the failure of a specific module. 91m:62178
- Nguyen Bac Van. On the statistical analysis of a random number of observations. 91e:62212
- Nualart, David *see* Merzbach, Ely, 91d:60200
- Petunin, M. Ya. Censoring and cutting of random point processes. 91d:60215
- Prakas Rao, B. L. S. Interface between probability and statistics. (Not in MR)
- Quine, M. P. (with Robinson, John) A linear random growth model. 91i:60068
- Resnick, Sidney I. *see* de Haan, Laurens; et al., 91g:60029
- Robinson, John *see* Quine, M. P., 91i:60068
- Rotkars, A. D. Two-parameter random point fields with nonrandom compensators. (Russian) 91m:60092
- Rootzén, Holger *see* de Haan, Laurens; et al., 91g:60029
- Schmidt, Volker *see* König, Dieter, 91j:60148
- Schwandtke, Annette *see* Heinrich, Lothar, 91i:60035
- Serfozo, Richard F. Poisson functionals of Markov processes and queueing networks. 91h:60106
- Slud, Eric (with Hoesman, Craig) Moderate- and large-deviation probabilities in actuarial risk theory. 91c:60094
- Spreij, P. J. C. Self-exciting counting process systems with finite state space. 91h:93157
- Minimality and reducibility of conditionally Poisson systems with finite state space. 91j:93100
- Stidham, Shaler, Jr. (with El Taha, Muhammad) Sample-path analysis of processes with imbedded point processes. 91c:60134
- Stoyan, Dietrich *see* Ambartsumyan, R. V.; et al., 91m:60026
- Streit, F. Quelques remarques relatives à l'inférence statistique pour les processus ponctuels marqués. (English summary) [Some remarks concerning statistical inference for marked point processes] 91h:62177
- (Sukiasyan, G. S.) *see* Ambartsumyan, R. V.; et al., 91m:60026
- Trần Hùng Thao. Optimal state estimation for a stochastic dynamical system from point process observations. 91j:93104
- de Vries, Casper G. *see* de Haan, Laurens; et al., 91g:60029
- Wakolbinger, Anton *see* Gorostiza, Luis G., 91k:60089
- Weill, Wolfgang. Iterations of translative integral formulae and nonisotropic Poisson processes of particles. 91k:53079
- Whitt, Ward *see* Melamed, Benjamin, 91j:60149
- Yeo, G. F. *see* Milne, R. K., 91d:60046

60G57 Random measures

- Allain, M.-F. Intégrales stochastiques et processus. Fonctionnelles du brownien. (English summary) [Stochastic integrals and processes. Functionals of Brownian motion] 91i:60130
- Bakhtovets, E. B. A limit theorem for a class of Markov measures. (Russian) 91j:60091
- Evans, Steven N. Association and random measures. 91j:60092
- Guerre, Sylvie. An example of an irregular random measure. 91i:60131
- Kahane, Jean-Pierre. Random multiplications, random coverings, multiplicative chaos. 91e:60152
- Kallenberg, Olav. Exchangeable random measures in the plane. 91d:60116
- Liu, Li (with Mueller, Carl) On the extinction of measure-valued critical branching Brownian motion. 91d:60117
- Mueller, Carl *see* Liu, Li, 91d:60117
- Radchenko, V. N. Integrals with respect to random measures that are σ -additive with probability 1. (Ukrainian. Russian summary) 91f:60088
- Reimers, M. Hyperfinite methods for multidimensional stochastic processes. (see 91j:60003)
- Shiga, Tokuzo. A stochastic equation based on a Poisson system for a class of measure-valued diffusion processes. 91j:60093
- Wu, Xian Wei. Another form of the existence and uniqueness theorem for random measures. (Chinese. English summary) 91g:60061
- Items with secondary classifications in 60G57
- Bordé-Boussion, Anne-Marie. Stochastic demographic models: age of a population. 91m:60153
- Boudou, Alain (with Dauxois, Jacques) Analyses de mesures aléatoires; application aux séries stationnaires. (English summary) [Analysis of random measures; applications to

- stationary series] 91b:62117
- Burton, Robert M., Jr. (with Dehling, Herold) Large deviations for some weakly dependent random processes. 91b:60056
- Chaurin, Brigitte (with Rouault, Alain) A stochastic simulation for solving scalar reaction-diffusion equations. 91d:65009
- Dauxois, Jacques see Boudou, Alain, 91b:62117
- Dehling, Herold see Burton, Robert M., Jr., 91b:60056
- Dinculeanu, Nicolae Vector valued stochastic processes. III. Projections and dual projections. 91b:60013
- Vector-valued stochastic processes. V. Optional and predictable variation of stochastic measures and stochastic processes. 91d:60088
- Vector-valued stochastic processes. IV. Integral representation of linear operations on spaces of stochastic processes. 91d:60087
- Evans, Steven N. Rescaling the vacancy of a Boolean coverage process. 91d:60024
- Fan, Ai Hua Sur quelques processus de naissance et de mort. (English summary) [On some birth and death processes] 91d:60103
- Gorostiza, Luis G. (with Lopez-Mimbela, Jose A.) The multitype measure branching process. 91d:60295
- (with Wakolbinger, Anton) Persistence criteria for a class of critical branching particle systems in continuous time. 91b:60089
- Hjort, Nils Lid Nonparametric Bayes estimators based on beta processes in models for life history data. 91b:62007
- Kusuoka, Shigeo Dirichlet forms on fractals and products of random matrices. 91m:60142
- Lebedev, V. A. Stochastic integrals with respect to semimartingale random measures. (Russian) (see 91g:60005)
- Le Jan, Yves Limites projectives de processus de branchement markoviens. (English summary) [Projective limit of Markovian branching processes] 91b:60244
- Li, Zeng Hu On the branching mechanisms of superprocesses. (Not in MR)
- Lopez-Mimbela, Jose A. see Gorostiza, Luis G., 91d:60295
- Méléard, Sylvie (with Roelly-Coppoletta, Sylvie) A generalized equation for a continuous measure branching process. 91b:60095
- Perkins, Edwin A. Polar sets and multiple points for super-Brownian motion. 91b:60109
- Pollard, David Asymptotics via empirical processes. 91b:60112
- Rajput, Balram S. (with Rosinski, Jan) Spectral representations of infinitely divisible processes. 91b:60149
- Roelly-Coppoletta, Sylvie (with Rouault, Alain) Processus de Dawson-Watanabe conditionné par le futur lointain. (English summary) [A Dawson-Watanabe process conditioned by the remote future] 91d:60210
- see also Méléard, Sylvie, 91b:60095
- Roitgarts, A. D. Two-parameter martingales connected with an integer random measure. (Russian) 91b:60087
- Rosinski, Jan On path properties of certain infinitely divisible processes. 91g:60050
- see also Rajput, Balram S., 91b:60149
- Rouault, Alain see Roelly-Coppoletta, Sylvie, 91d:60210 and Chauvin, Brigitte, 91d:65009
- Shimizu, Akinobu A measure valued diffusion process describing an n locus model incorporating gene conversion. 91m:92019
- Singer, Boris Limits of stochastic topological projective systems. 91k:28014
- Sugitani, Sadao Some properties for the measure-valued branching diffusion processes. 91a:60223
- Wakolbinger, Anton see Gorostiza, Luis G., 91b:60089
- Zähle, U. Self-similar random measures. II. A generalization to self-affine measures. 91b:28004
- Zapala, August Michael Reflection principle and strong Markov property for multiparameter group-valued additive processes. 91b:60059
- ### 60G60 Random fields
- Albeverio, Sergio (with Hoegh-Krohn, Raphael J.) Some recent interactions between mathematics and physics in connection with generalized random fields. (see 91j:60003)
- (with Holden, Helge; Hoegh-Krohn, Raphael J.; Kolsrud, Torbjörn) Representation and construction of multiplicative noise. 91b:60040
- Araújo, N. M. Quadratic functionals of generalized Gaussian random fields. 91d:60118
- Bassan, Bruno see Orsingher, Enzo, 91b:60091
- Bradley, Richard C. A caution on mixing conditions for random fields. 91b:60052
- Celan, G. Some statistical problems associated with singular spatial stochastic processes. (Italian. English and French summaries) 91a:60131
- Clifford, Peter Markov random fields in statistics. 91j:60094
- Cutland, Nigel J. An action functional for Lévy Brownian motion. 91b:60132
- El Karoui, Nicole (with Méléard, Sylvie) Martingale measures and stochastic calculus. 91k:60058
- Evstigneev, I. V. Random sets and Markov fields. (see 91j:60003)
- Falconer, K. J. The horizon problem for random surfaces. 91m:60090
- Ghaleb, Al-Madani M. On continuity of the sample function of Gaussian random vector field on the Hilbert space. (Turkish summary) 91b:60053
- On the modulus continuity of random vector fields. (Turkish summary) (Not in MR)
- Goldie, Charles M. (with Greenwood, P. E.) Central limit results for random fields. (see 91j:60003)
- Goldman, André Techniques biharmoniques pour l'étude du mouvement brownien de P. Lévy à trois paramètres. (English summary) [Biharmonic techniques for studying P. Lévy's three-parameter Brownian motion] 91b:60153
- Greenwood, P. E. see Goldie, Charles M., (91j:60003)
- Hoegh-Krohn, Raphael J. see Albeverio, Sergio; et al., 91b:60040 and (91j:60003)
- Holden, Helge see Albeverio, Sergio; et al., 91b:60040
- Huang, Chang Quan A counterexample on two-parameter Markov processes. 91b:60154
- Janzura, Martin Local asymptotic normality for Gibbs random fields. 91b:60065
- Jiang, Ze Pei The prediction theory of stationary random field. III. Four-fold Wold decompositions. (Not in MR)
- Jolis, Maria On compact Itô's formulas for martingales of m_t^2 . 91b:60054
- Kent, John T. Continuity properties for random fields. 91b:60089
- Klela, David see Yang, Wei-Shih, 91a:60136
- Kolsrud, Torbjörn see Albeverio, Sergio; et al., 91b:60040
- Kono, Norio Recent development on random fields and their sample paths. I. Sample path continuity of random fields. 91m:60091
- Kuznetsova, O. M. Local times and the unboundedness of sample functions of random fields on a measurable space. (Ukrainian. Russian summary) 91b:60090
- Orthogonal decomposition of a homogeneous and isotropic random field on a Hilbert space. (Russian) 91b:60095
- Lagodowski, Z. A. (with Rychlik, Zdzisław) Weak convergence of sequences of random elements with multidimensional random indices. 91b:60133
- Lee, Ke Seung White noise approach to Gaussian random fields. 91b:60134
- Leland, Robert Patton Simulation of continuous sample paths of random fields using trigonometric series. (Not in MR)
- Leonenko, N. N. (with Sabirov, Sh. O.) Spherical measures for exceeding a level for random fields of chi-square type. (Russian) 91c:60066
- (with Parkhomenko, V. N.) Measures for a sojourn of a vector Gaussian field with strong dependence between components. (Russian. English summary) 91b:60155
- (with Parkhomenko, V. N.) Asymptotic normality of a functional of geometric type of a Gaussian random field. (Russian) 91b:60096
- Loubaton, Philippe Champs stationnaires au sens large sur Z^2 : propriétés structurelles et modèles paramétriques. (English summary) [Wide-sense stationary processes on Z^2 : structural properties and parametric models] 91b:60041
- Lukic, M. N. Rademacher-Walsh functions and the spectral type of Hermite polynomial of a Wiener process. (Serbo-Croatian summary) 91d:60119
- Luo, Shou Jun On the germ-Markov property of the generalized N -parameter Ornstein-Uhlenbeck process. 91d:60120
- Malevich, T. L. (with Volodina, L. N.) On the conditions providing for the moments of number of zeros of a vector Gaussian field to be finite. (see 91j:60003)
- Malyarenko, A. A. Multidimensional covariant random fields on commutative topological groups. 91b:60135
- Méléard, Sylvie see El Karoui, Nicole, 91b:60058
- Nagornii, V. N. Interpolation of a class of random fields. (Ukrainian. Russian summary) 91b:60156
- Nie, Zan Kan The Markov property for solutions of two-parameter Itô stochastic differential equations. (Chinese) 91b:60055
- Omarov, S. O. The Kotelnikov-Shannon theorem for nonhomogeneous random fields. (Russian) 91b:60097
- Orsingher, Enzo (with Bassan, Bruno) On the comparison of the distribution of the supremum of random fields represented by stochastic integrals. 91b:60091
- Ossiander, Mina (with Waymire, Edward C.) Certain positive-definite kernels. 91a:60132
- Parkhomenko, V. N. see Leonenko, N. N., 91c:60155 and 91b:60096
- Popov, Yu. D. (with Vinokurov, Yu. O.) Modeling of a homogeneous and isotropic random field in space. (Russian) 91a:60133
- Prigarin, S. M. Weak convergence of approximate models of Gaussian random fields. (Russian) (see 91g:65009)
- see also Votitshek, A. V., (91g:65009)
- Rao, M. M. Bimeasures and harmonizable processes (analysis, classification, and representation). 91a:60134
- Roitgarts, A. D. Two-parameter random point fields with nonrandom compensators. (Russian) 91m:60092
- Rychlik, Zdzisław see Lagodowski, Z. A., 91b:60133
- Sabirov, Sh. O. see Leonenko, N. N., 91c:60066
- Tempeľman, A. A. (with Zaly, Albertas) The structure and evolution of Gaussian fields connected in a Markov chain. (Russian) 91b:60136
- Vinokurov, Yu. O. see Popov, Yu. D., 91a:60133
- Votitshek, A. V. (with Prigarin, S. M.) Moment conditions for functional convergence of a numerical randomized spectral model of homogeneous Gaussian fields. (Russian) (see 91g:65009)
- Volodina, L. N. see Malevich, T. L., (91j:60003)
- Waymire, Edward C. see Ossiander, Mina, 91a:60132
- Wong, Eugene (with Zakai, Moshe) Isotropic Gauss-Markov currents. 91a:60135
- Yang, Wei-Shih (with Klein, David) Self-repelling processes associated with Brownian motions. 91a:60136
- Yurinskii, V. V. Estimates for covariances of means with respect to the distribution of a diffusion with switchings in a random environment. (Russian) 91b:60157
- Zakai, Moshe see Wong, Eugene, 91a:60135
- Zaly, Albertas see Tempeľman, A. A., 91b:60136
- Zapala, August Michael Reflection principle and strong Markov property for multiparameter group-valued additive processes. 91b:60059
- Zhou, Jian Wei? Two-parameter regular Markov processes. (Chinese) 91a:60137
- Two-parameter strong Markov processes. (Chinese. English summary) 91b:60056
- Zhuang, Xing Wu The generalized Brownian sheet and two-parameter harnesses. (Chinese. English summary) 91b:60158
- ### Items with secondary classifications in 60G60
- Adler, Robert J. The net charge process for interacting, signed diffusions. 91b:60272
- (with Epstein-Feldman, Raisa; Lewin, Marica) Intersection local times for infinite systems of Brownian motions and for the Brownian density process. 91m:60144
- Alekseev, V. G. Estimates for the area of the correlation domain of a homogeneous Gaussian random field. 91b:62078
- Berger, Toby (with Ye, Zhong Xing) Entropic aspects of random fields on trees. 91g:94005
- Bondarev, B. V. (with Shurko, I. L.) Diffusion approximation in probability of random fields with independent increments. (Russian. English summary) 91b:60060
- Ballinskii, A. V. (with Doukhan, Paul) Vitesse de convergence dans le théorème de limite centrale pour des champs mélangés satisfaisant des hypothèses de moment faibles. (English summary) [Rates in the central limit theorem for mixing random fields satisfying weak moment conditions] 91b:60034
- Cabala, Enrique M. On a martingale characterization of two-parameter Wiener process. 91b:60126
- Chen, Pei De (with Chen, Zong Xun) Regular functions on \mathbb{R}_+^2 and decomposition of L-S measures. (Chinese. English summary) 91b:28003

- (with Chen, Zong Xun) Young functions and their applications in multiparameter stochastic processes. (Chinese. English summary) **91j:60086**
- Chen, Xiong Hausdorff dimensions of graph sets and image sets of two-parameter Ornstein-Uhlenbeck processes. (Chinese) **91d:60094**
- Chen, Zong Xun see Chen, Pei De, **91j:28003** and **91j:60086**
- Chow, Yun Shyong A limit theorem for pattern synthesis in image processing. **91k:60044**
- Corsten, L. C. A. Interpolation and optimal linear prediction. **91c:62086a**
- Corrigenda: "Interpolation and optimal linear prediction". **91c:62086b**
- Dookhan, Paul see Bulinskii, A. V., **91j:60034**
- Ellis, Richard S. (with Wang, Kong Ming) Limit theorems for the empirical vector of the Curie-Weiss-Potts model. **91m:82023**
- Epstein-Feldman, Raisa see Adler, Robert J.; et al., **91m:60144**
- Fitzsimmons, P. J. (with Salisbury, Thomas S.) Capacity and energy for multiparameter Markov processes. (French summary) **91d:60180**
- Frigessi, Arnaldo (with Piccioni, Mauro) Parameter estimation for two-dimensional Ising fields corrupted by noise. **91j:60155**
- Götze, Friedrich (with Hipp, Christian) Local limit theorems for sums of finite range potentials of a Gibbsian random field. **91j:60041**
- Hall, Peter Gavin (with Koch, Inge) On continuous image models and image analysis in the presence of correlated noise. **91f:68210**
- Heinrich, Lothar Asymptotic expansions in the central limit theorem for a special class of m -dependent random fields. II. Lattice case. **91h:60031**
- Nonuniform bounds for the error in the central limit theorem for random fields generated by functions of independent random variables. **91f:60061**
- Hipp, Christian see Götze, Friedrich, **91j:60041**
- Ivanoff, B. Gall (with Merzbach, Ely) Intensity-based inference for planar point processes. **91c:60147**
- (with Merzbach, Ely) Characterization of compensators for point processes on the plane. **91c:60148**
- Jiang, Ze Pei The prediction theory of stationary random fields. II. Nonsymmetrical half-plane prediction. **91b:60035b**
- The prediction theory of stationary random fields. I. Half-plane prediction. (Chinese. English summary) **91b:60035a**
- Jona-Lasinio, G. (with Mitter, P. K.) Large deviation estimates in the stochastic quantization of ϕ^4 . **91b:60104**
- Kallianpur, G. (with Mamee, A. G.; Niemi, Hannu) On the prediction theory of two-parameter stationary random fields. **91k:60048**
- Knapov, P. S. The problem of estimating a linear functional from an observation of a realization of a random field. (Russian. English summary) **91d:62150**
- Koch, Inge see Hall, Peter Gavin, **91f:68210**
- Leonenko, N. N. Limit theorems for sojourn measures in domains of vector Gaussian random fields. **91j:60071**
- Lewin, Marica see Adler, Robert J.; et al., **91m:60144**
- Li, Ji Tao The local (F₁) condition. (Chinese. English summary) **91g:60058**
- Lifshits, M. A. The oscillation and a lower bound for the distribution of the maximum of a Gaussian field. (Russian) **91m:60073**
- Lia, Huo Nan Estimates for the probability distribution of a generalized Brownian sheet. (Chinese. English summary) **91c:60064**
- Márkus, László The mean's consistent estimation, in the case of random processes, satisfying partial differential equations. **91c:62078**
- Merzbach, Ely see Ivanoff, B. Gall, **91c:60147** and **91c:60148**
- Mamee, A. G. see Kallianpur, G.; et al., **91k:60048**
- Mikushin, V. I. (with Ostrovskii, E. I.) Estimates for the distribution of the maximum of discontinuous random fields. **91a:60107**
- Mishura, Yu. S. Canonical representation of weak semimartingales defined on the plane. **91a:60123**
- Transformations of martingale fields with a change of the probability measure. **91b:60037**
- Martingale characterization of solutions of stochastic differential equations in the plane. (Russian. English summary) **91m:60108**
- Conditions for the existence of stochastic integrals with respect to weak semimartingales, and the generalized Itô formula for semimartingales in the plane. **91a:60143**
- Mitter, P. K. see Jona-Lasinio, G., **91b:60104**
- Móricz, Ferenc Strong limit theorems for quasi-orthogonal random fields. **91a:60083**
- Mountford, T. S. Uniform dimension results for the Brownian sheet. **91c:60123**
- Mukhamedov, A. K. On the global form of the central limit theorem for weakly dependent random fields. (Russian) (see **91j:60030**)
- An invariance principle for mixing random fields. (Russian) (see **91j:60010**)
- Niemi, Hannu see Kallianpur, G.; et al., **91k:60048**
- Nosko, V. P. High-level excursions of Gaussian fields: a geometrical approach based on convexity. (see **91j:60004**)
- Nualart, David (with Sanz, Marta) Stochastic differential equations on the plane: smoothness of the solution. **91b:60151**
- (with Sanz, Marta; Zakai, Moshe) On the relations between increasing functions associated with two-parameter continuous martingales. **91c:60145**
- Ostrovskii, E. I. see Mikushin, V. I., **91a:60107**
- Penrose, M. D. Quasi-everywhere properties of Brownian level sets and multiple points. **91d:60209**
- Piccioni, Mauro see Frigessi, Arnaldo, **91j:60155**
- Pitz, Lothar Gibbs measures for cell systems. (see **91j:92001**)
- Ponomarenko, A. I. Generalized strongly harmonizable random fields in normed spaces. (Russian) **91b:60110**
- Ramm, Alexander G. Random fields estimation theory. **91j:93103**
- Rădu, Gheorghe A spectral decomposition for two-parameter independent-increment processes. (Romanian. English summary) **91c:60215**
- Routgarts, A. D. Countable random sets on a plane and two-parameter martingales. (Ukrainian. Russian summary) **91c:60146**
- Róladski, Roman Markov stopping sets and stochastic integrals. Application in sequential estimation for a random diffusion field. **91a:62229**
- Salisbury, Thomas S. see Fitzsimmons, P. J., **91d:60180**
- Sanz, Marta see Nualart, David; et al., **91c:60145** and **91b:60151**
- Shurko, I. L. see Bondarev, B. V., **91j:60060**
- Stein, Michael L. Uniform asymptotic optimality of linear predictions of a random field using an incorrect second-order structure. **91f:62128**
- Bounds on the efficiency of linear predictions using an incorrect covariance function. **91m:62157**
- Tran, Lanh Tat Kernel density estimation on random fields. **91j:62050**
- Va Viet Yen A stochastic Taylor formula for functionals of two-parameter semimartingales. **91d:60140**
- Wang, Kong Ming see Ellis, Richard S., **91m:82023**
- Wong, Eugene (with Zakai, Moshe) Spectral representation of isotropic random currents. **91g:60063**
- Yao, Qi Wei Large deviations for the boundary crossing probabilities of some random fields. **91a:60079**
- Ye, Zhong Xing see Berger, Toby, **91g:94005**
- Zakai, Moshe see Nualart, David; et al., **91c:60145** and Wong, Eugene, **91g:60063**

60G70 Extreme value theory; extremal processes

- de Haan, Laurens (with Weissman, I.) The index of the outstanding observation among n independent ones. (see **91j:60004**)
- Fighting the arch-enemy with mathematics. **91i:60137**
- Hsing, Tailen On a loss of memory property of the maximum. **91m:60093**
- Nezvorov, V. B. Records: four representations and ten problems. (Russian) **91c:60067**
- Martingale methods for studying records. (Russian) (see **91g:60005**)
- Rensnick, Sidney I. (with Roy, Rishin) Multivariate extremal processes, leader processes and dynamic choice models. **91i:60138**
- Roy, Rishin see Rensnick, Sidney I., **91i:60138**
- Weissman, I. see de Haan, Laurens, (**91j:60004**)
- Items with secondary classifications in 60G70
- Aksemaits, A. Convergence of distributions of extremal independent random variables. **91m:60036**
- Albeverio, Sergio (with Hoegh-Krohn, Raphael J.) Some recent interactions between mathematics and physics in connection with generalized random fields. (see **91j:60003**)
- Balkema, A. A. (with de Haan, Laurens) A convergence rate in extreme-value theory. **91j:60033**
- Dabrowski, André Robert Extremal point processes and intermediate quantile functions. **91j:60035**
- Devlin, A. C. (with Smith, Richard L.) Models for exceedances over high thresholds. **91k:62048**
- Falk, Michael A note on generalized Pareto distributions and the k upper extremes. **91j:60038**
- Gut, Allan Limit points of sample maxima. **91d:60076**
- Convergence rates for record times and the associated counting process. **91m:60041**
- de Haan, Laurens see Balkema, A. A., **91j:60033**
- Hoegh-Krohn, Raphael J. see Albeverio, Sergio, (**91j:60003**)
- Janssen, Arnold The domain of attraction of stable laws and extreme order statistics. **91i:60065**
- (with Mason, David M.) On the rate of convergence of sums of extremes to a stable law. **91i:60045**
- Mason, David M. see Janssen, Arnold, **91i:60045**
- Nechir, Abdel Hakim Sur le comportement asymptotique des combinaisons linéaires de statistiques d'ordre extrêmes issues d'une distribution appartenant au domaine d'attraction de la loi de Gumbel. (English summary) [On the asymptotic behavior of linear combinations of extreme order statistics from a distribution in the domain of attraction of a Gumbel law] **91m:60053**
- Obretenov, A. On the rate of convergence for the extreme value in the case of IFR-distributions. **91c:60254**
- Omei, Edward On the rate of convergence in extreme value theory. **91c:60079**
- Orsingher, Enzo Probability law, flow function, maximum distribution of wave-governed random motions and their connections with Kirchhoff's laws. **91g:60086**
- Pancheva, E. I. Self-decomposable distributions for maxima of independent random vectors. **91b:60014**
- Pfeifer, Dietmar Extremal processes, secretary problems and the $1/e$ law. **91c:60136**
- Smith, Richard L. see Devlin, A. C., **91k:62048**
- Voorn, W. J. Stability of extremes with random sample size. **91c:60042**
- Zolotarev, V. M. Two analytic problems in probability theory. (Russian) **91i:60072**

60G99 None of the above, but in this section

- Barbaini, Franco Martingales and information processes. (Italian. English summary) **91d:60121**
- Bass, Jean Fonctions de corrélation des fonctions pseudo-aléatoires. (English summary) [Correlation functions of pseudorandom functions] **91g:60062**
- Bernard, Alain (with el Kharoubi, Ahmed) Réflexions (ou régulations) de processus dans le premier "orthant" de \mathbb{R}^n . (English summary) [Reflections (or regulations) of processes in the first orthant of \mathbb{R}^n] **91i:60139**
- Bhanja, M. see Pratihari, D., **91i:60142**
- Borell, Christer Analytic and empirical evidences of isoperimetric processes. **91m:60094**
- Farshmand, Kambiz Large level crossings of a random polynomial. **91h:60057**
- On the average number of level crossings of a random trigonometric polynomial. **91i:60140**
- Random polynomials. **91c:60069**
- Crossings of a random algebraic polynomial. **91c:60068**
- Level crossings of a random trigonometric polynomial. **91f:60092**
- Foutz, Robert V. see Jensen, D. R., **91h:60059**
- Goldie, Charles M. Records, permutations and greatest convex minorants. **91a:60138**
- Grigorescu, Serban see Iosifescu, Marius, **91j:60098**
- Gulvare'h, Yves Sur une extension de la notion de loi semi-stable. (English summary) [On an extension of the notion of semistable law] **91i:60141**

- Holgata, Philip Some power series with random gaps. 91b:60058
- Iosifescu, Marius (with Grigorescu, Șerban) ★ Dependence with complete connections and its applications. 91j:60098
- Jensen, D. R. (with Foutz, Robert V.) The structure and analysis of spherical time-dependent processes. 91b:60059
- el Kharroubi, Ahmed see Bernard, Alain, 91b:60139
- Künisch, Hans Statistical aspects of self-similar processes. (see 91j:60003)
- Maslakov, G. N. see Vasilev, V. V., (Not in MR)
- Moroka, V. A. see Vinnishin, Ya. F., 91j:60099
- Nikodem, Kazimierz On some properties of quadratic stochastic processes. 91d:60122
- Pemantle, Robin Nonconvergence to unstable points in urn models and stochastic approximations. 91e:60159
- Pratihari, D. (with Bhanja, M.) A result concerning real zeros of a random trigonometric polynomial. II. 91b:60142
- Prum, Bernard Self-similar processes. Hierarchical Dyson process. (see 91j:92001)
- Samorodnitsky, Gennady (with Taqqu, Murad S.) The various linear fractional Lévy motions. 91b:60060
- Taqqu, Murad S. see Samorodnitsky, Gennady, 91b:60060
- Vasilev, V. V. (with Maslakov, G. N.) Mathematical models of random processes for spectral analysis. (Russian. English summary) (Not in MR)
- Veljanen, Ari On conditionally mixing processes. 91e:60160
- Vinnishin, Ya. F. (with Moroka, V. A.) On distribution functions of a sum of random power series. (Russian) 91j:60099
- Wesolowski, Jacek Characterizations of some processes by properties of conditional moments. 91e:60161
- A characterization of the gamma process by conditional moments. 91a:60139
- Wilkins, J. Ernest, Jr. Mean number of real zeros of a random trigonometric polynomial. 91f:60093
- Wong, Eugene (with Zakai, Moshe) Spectral representation of isotropic random currents. 91g:60063
- Woodside, William An optimal decision rule for the parking-meter problem. 91g:60064
- Yu, Jia Rong Random power series and exponential series. (Chinese. English summary) 91m:60095
- Zakai, Moshe see Wong, Eugene, 91g:60063
- Items with secondary classifications in 60G99
- Albeverio, Sergio (with Paycha, Sylvie; Scarlatti, Sergio) A short overview of mathematical approaches to functional integration. 91b:58159
- Bray, A. J. (with McKane, A. J.; Newman, T. J.) Path integrals and non-Markov processes. II. Escape rates and stationary distributions in the weak-noise limit. 91b:82033
- see also McKane, A. J.; et al., 91b:82032
- Çomez, Doğan Linear modulus of a multidimensional semigroup of L_1 -contractions and a differentiation theorem. 91e:47075
- Dalang, Robert C. (with Morton, Andrew; Willinger, Walter) Equivalent martingale measures and no-arbitrage in stochastic securities market models. 91g:90056
- Demongrot, Jacques see Hervé, Thierry; et al., (91e:60011)
- Devroye, Luc Coupled samples in simulation. 91e:62037
- Fan, Ai Hua Sur quelques processus de naissance et de mort. (English summary) [On some birth and death processes] 91d:60103
- François, Olivier see Hervé, Thierry; et al., (91e:60011)
- Hervé, Thierry (with François, Olivier; Demongrot, Jacques) Markovian spatial properties of a random field describing a stochastic neural network: sequential or parallel implementation? (see 91e:60011)
- Jeng, Fure-Ching (with Woods, John W.) Simulated annealing in compound Gaussian random fields. 91b:68120
- Ketterer, Joan A. Approximation theorems for stochastic economies with incomplete markets. 91e:90036
- Lépine, Dominique (with Nualart, David; Sanz, Marta) Dérivation stochastique de diffusions réfléchies. (English summary) [Stochastic differentiation of reflected diffusions] 91e:60170
- Li, Zhi Chan (with Yang, Qing Ji) The Dirichlet problem for diffusion equation. 91a:35082
- Littlestone, Nick From on-line to batch learning. (see 91e:68014)
- Luckock, H. C. (with McKane, A. J.) Path integrals and non-Markov processes. III. Calculation of the escape-rate prefactor in the weak-noise limit. 91b:82006
- see also McKane, A. J.; et al., 91b:82032
- McKane, A. J. (with Luckock, H. C.; Bray, A. J.) Path integrals and non-Markov processes. I. General formalism. 91b:82032
- see also Bray, A. J.; et al., 91b:82033 and Luckock, H. C., 91b:82006
- McKeague, Ian W. (with Utikal, Klaus J.) Stochastic calculus as a tool in survival analysis: a review. 91b:62002
- Morton, Andrew see Dalang, Robert C.; et al., 91g:90056
- Moser, Jan Zeros of a random process generated by the Riemann-Siegel formula. (Russian. English and Slovak summaries) 91k:11070
- Newman, T. J. see Bray, A. J.; et al., 91b:82033
- Niculescu, Florentina-Rodica On asymptotic behaviour of two-sided stopping rules. 91d:60063
- Nikabadze, A. M. Innovation fields for vector random variables against general alternatives. (Russian. English and Georgian summaries) (Not in MR)
- Nualart, David see Lépine, Dominique; et al., 91e:60170
- Olsson, Jonny ★ Statistics in perimetry. (Not in MR)
- Paycha, Sylvie see Albeverio, Sergio; et al., 91e:58159
- Picci, Giorgio Stochastic aggregation. 91e:93069
- Plachky, Detlef A characterization of permutable functions with estimable mean value based on a finite number of observations. 91e:62063
- Sanz, Marta see Lépine, Dominique; et al., 91e:60170
- Scarlatti, Sergio see Albeverio, Sergio; et al., 91e:58159
- Sun, Dao Chun (with Yu, Jia Rong) On the distribution of values of random Dirichlet series. II. (Chinese summary) 91b:30019
- Utikal, Klaus J. see McKeague, Ian W., 91b:62002
- Vanderbei, Robert J. A martingale system theorem for stock investments. 91b:90025

- Webb, Michael A quantitative Korovkin theorem for random functions with multivariate domains. 91c:41055
- Willinger, Walter see Dalang, Robert C.; et al., 91g:90056
- Woods, John W. see Jeng, Fure-Ching, 91b:68120
- Wu, Tian Bin Parametric 0-1 processes and extensive fuzzy sets. 91g:40009
- Xiao, Yi Min Some properties of random Legendre series. (Chinese) 91a:33009
- Yang, Qing Ji see Li, Zhi Chan, 91a:35082
- Yu, Jia Rong see Sun, Dao Chun, 91b:30019

60Hxx Stochastic analysis [see also 58G32]

Items with secondary classifications in 60Hxx

- Anulova, S. V. (with Veretennikov, A. Yu.; Krylov, N. V.; Liptser, R. Sh.; Shiryayev, A. N.) Stochastic calculus. (Russian) 91b:60002b
- (Gambkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 91b:60002a
- Krylov, N. V. see Anulova, S. V.; et al., 91b:60002b
- Liptser, R. Sh. see Anulova, S. V.; et al., 91b:60002b
- Shiryayev, A. N. see Anulova, S. V.; et al., 91b:60002b
- Veretennikov, A. Yu. see Anulova, S. V.; et al., 91b:60002b

Items listed otherwise than by author

- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 45. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 45] 91b:60002a
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 45. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 45] 91b:60002a

60H05 Stochastic integrals

- Bertoin, Jean Sur une intégrale pour les processus à α -variation bornée. (English summary) [On an integral for processes with bounded α -variation] 91g:60065
- Bojdecki, Tomasz (with Jakubowski, Jacek) Itô stochastic integral in the dual of a nuclear space. 91d:60123
- Carmona, René A. (with Nualart, David) ★ Nonlinear stochastic integrators, equations and flows. 91b:60143
- Davydov, Ya. A. (with Martynova, G. V.) Limit behavior of distributions of multiple stochastic integrals. (Russian) (see 91g:60005)
- Dawson, Donald A. (with Gorostiza, Luis G.) Generalized solutions of stochastic evolution equations. 91d:60060
- Dembo, Amir (with Zeitouni, Ofer) On the relation of anticipative Stratonovich and symmetric integrals: a decomposition formula. 91b:60042
- see also Zeitouni, Ofer, 91b:60061
- Donati-Martin, C. (with Yor, Marc) Mouvement brownien et inégalité de Hardy dans L^2 . [Brownian motion and Hardy inequality in L^2] 91b:60094
- Dorogovtsev, A. A. Singular transformations of Wiener functionals and the two-sided Pardoux-Proter integral. (Russian) 91j:60100
- Fourier transform of Wiener functionals, and various methods of stochastic integration. 91b:60061
- An extended stochastic integral for smooth functionals of white noise. 91d:60124
- Dubko, V. A. Equations for kernels of integral invariants of n th order and of first integrals of Itô equations in \mathbb{R}^n . (Russian) 91j:60101
- Estrade, Anne Sur l'intégrale stochastique multiplicative discontinue. (English summary) [On discontinuous multiplicative stochastic integrals] 91b:60144
- Ferreira, Guillermo A Wong-Zakai-type theorem for certain discontinuous semimartingales. 91c:60070
- Gorostiza, Luis G. see Dawson, Donald A., 91b:60060
- Ha, Yao Zhong Some notes on multiple Stratonovich integrals. 91b:60145
- Jakubowski, Jacek see Bojdecki, Tomasz, 91d:60123
- Julia, O. (with Nualart, David) The distribution of a double stochastic integral with respect to two independent Brownian sheets. 91a:60140
- Kallenberg, Olav (with Szulga, Jerzy) Multiple integration with respect to Poisson and Lévy processes. 91c:60071
- Karandikar, Rajeeva L. On Métivier-Pellaumail inequality, Emery topology and pathwise formulae in stochastic calculus. 91b:60146
- Kozachenko, Ya. V. Convergence of stochastic integrals in Orlicz spaces. 91a:60141
- Krylov, N. V. Some estimates from stochastic analysis. (Russian) 91m:60096
- Lebedev, V. A. Stochastic integrals with respect to semimartingale random measures. (Russian) (see 91g:60005)
- Stochastic integration with respect to semimartingale random measures. 91e:60162
- Mackevičius, Vygintas Quadratic covariation and Stratonovich integral. 91j:60102
- Madrecki, Andrzej On a formula concerning Stieltjes stochastic differentials. 91e:60163
- Mamatoev, Kh. M. Estimation of the Kolmogorov distance between (one-dimensional) distributions of stochastic integrals. (Russian) 91c:60072
- A random time change and the weak convergence of stochastic integrals. (Russian) (Not in MR)
- Martynova, G. V. see Davydov, Ya. A., (91b:60005)
- Meyer, Paul-André New examples of "chaotic" representation. 91a:60142
- Qu'est-ce qu'une différentielle d'ordre n ? (English summary) [What is an n -th-order differential?] 91d:60125
- Mishura, Yu. S. Conditions for the existence of stochastic integrals with respect to weak semimartingales, and the generalized Itô formula for semimartingales in the plane. 91a:60143
- Nualart, David (with Zakai, Moshe) On the relation between the Stratonovich and Ogawa integrals. 91d:60126
- (with Üstünel, Ali Süleyman; Zakai, Moshe) Some relations among classes of σ -fields on Wiener space. 91b:60147
- see also Julia, O., 91a:60140 and Carmona, René A., 91b:60143

- Parthasarathy, Kalyanapuram Rangachari Quantum Itô's formula. 91m:60097
- Pratelli, Luca Invariance des notions de semimartingale et d'intégrale stochastique par un changement d'espace. (Italian summary) [Invariance of the notions of semimartingale and stochastic integral under change of space] 91c:60073
- Protter, Philip A connection between the expansion of filtrations and Girsanov's theorem. 91a:60144
- ★ Stochastic integration and differential equations. 91b:60148
- Rajput, Balram S. (with Rosiński, Jan) Spectral representations of infinitely divisible processes. 91b:60149
- Rosiński, Jan see Rajput, Balram S., 91b:60149
- Szula, Jerzy see Kallenberg, Olav, 91c:60071
- Taqqu, Murad S. see Willinger, Walter, 91d:60127
- Ustünel, Ali Süleyman see Nualart, David; et al., 91b:60147
- von Weizsäcker, Heinrich (with Winkler, Gerhard) ★ Stochastic integrals. 91b:60150
- Willinger, Walter (with Taqqu, Murad S.) Pathwise stochastic integration and applications to the theory of continuous trading. 91d:60127
- Winkler, Gerhard see von Weizsäcker, Heinrich, 91b:60150
- Yan, Shao Zong (with Zhang, Yin Nan) The Gauss operator and the Skorokhod integral of random fields. (Chinese) (Not in MR)
- Yor, Marc see Donati-Martin, C., 91b:60094
- Zakai, Moshe see Nualart, David, 91d:60126 and 91b:60147
- Zaitouni, Ofer (with Dembo, Amir) A change of variables formula for Stratonovich integrals and existence of solutions for two-point stochastic boundary value problems. 91b:60061
- see also Dembo, Amir, 91b:60042
- Zhang, Yin Nan see Yan, Shao Zong. (Not in MR)
- Items with secondary classifications in 60H05
- (Accardi, Luigi) see Meyer, Paul-André, 91b:46065
- Allain, M.-F. Intégrales stochastiques et processus. Fonctionnelles du brownien. (English summary) [Stochastic integrals and processes. Functionals of Brownian motion] 91b:60130
- Babbal, Beate Invariance principles for U -statistics and von Mises functionals. 91a:60086
- (Bach, Alexander) see Meyer, Paul-André, 91b:46065
- Bemassi, Albert Calcul stochastique anticipatif: martingales hiérarchiques. (English summary) [Anticipative stochastic calculus: hierarchical martingales] 91b:60125
- Buckdahn, Rainer ★ Transformations on the Wiener space and Skorokhod-type stochastic differential equations. 91d:60133
- Dehling, Herold (with Denker, Manfred; Woyczyński, Wojbor A.) Resampling U -statistics using p -stable laws. 91b:62059
- Denker, Manfred see Dehling, Herold; et al., 91b:62059
- Dorogovtsev, A. A. Linear equations that contain an extended stochastic integral. 91e:60180
- Edwards, David Albert A note on stochastic integrators. 91d:60106
- El Karoui, Nicole (with Méliard, Sylvie) Martingale measures and stochastic calculus. 91b:60058
- Engelbert, H. J. (with Schmidt, Wolfgang Michael) Strong Markov continuous local martingales and solutions of one-dimensional stochastic differential equations. I. 91e:60225
- (with Schmidt, Wolfgang Michael) Strong Markov continuous local martingales and solutions of one-dimensional stochastic differential equations. II. 91e:60226
- Gu, Ming Gao³ (with Lai, Tez Leung) Functional laws of the iterated logarithm for the product-limit estimator of a distribution function under random censorship or truncation. 91c:60034
- He, Sheng Wu (with Wang, Jia Gang) Chaos decomposition and property of predictable representation. 91b:60039
- (Hu, Y. Z.) see Johnson, Gerald W., 91d:60184
- Imkeller, Peter Regularity and integrator properties of variation processes of two-parameter martingales with jumps. 91a:60120
- Jandhyala, V. K. (with MacNeill, I. B.) Residual partial sum limit process for regression models with applications to detecting parameter changes at unknown times. 91b:62130
- Johnson, Gerald W. (with Kallianpur, G.) Some remarks on Y. Z. Hu and P.-A. Meyer's paper and infinite-dimensional calculus on finitely additive canonical Hilbert space: "Wiener chaos and the Feynman integral" [in *Séminaire de Probabilités, XXII*, 51–71, Lectures Notes in Math., 1321, Springer, Berlin, 1988; MR 89m:60193]. 91d:60184
- Kadiev, R. I. Stability of nonlinear Itô functional-differential equations. (Russian) 91b:60099
- Kallianpur, G. see Johnson, Gerald W., 91d:60184
- Kohatsu-Higa, Arturo Weak convergence of a sequence of stochastic processes related with U -statistics. 91m:60060
- Kovalchik, I. M. (with Yanovich, L. A.) ★ Обобщенный винеровский интеграл и некоторые его приложения. (Russian) [The generalized Wiener integral and some of its applications] 91b:46039
- Kozachenko, Yu. V. (with Pashko, A. A.) Modeling Gaussian stationary random processes that can be represented in the form of stochastic integrals. (Russian) (see 91g:65009)
- Krée, Paul Stochastic analysis, mathematical structures and distributions methods. (see 91a:60025)
- Kubo, Izumi (with Yokoi, Yoshitaka) A remark on the space of testing random variables in the white noise calculus. 91e:60186
- Kwapień, Stanisław (with Woyczyński, Wojbor A.) Tangent sequences of random variables: basic inequalities and their applications. 91b:60020
- Lai, Tez Leung see Gu, Ming Gao³, 91c:60034
- Leda, Jorge A. On equivalence of solutions to stochastic differential equations with anticipating evolution systems. 91b:60067
- MacNeill, I. B. see Jandhyala, V. K., 91b:62130
- McConnell, Terry R. Decoupling and stochastic integration in UMD Banach spaces. 91b:60010
- Méliard, Sylvie see El Karoui, Nicole, 91b:60058
- Meyer, Paul-André Éléments de probabilités quantiques. I–V. [Elements of quantum probabilities. I–V] 91b:46061a
- Corrections: "Elements of quantum probabilities. I–V". 91b:46061b
- Éléments de probabilités quantiques. VI–VIII. [Elements of quantum probabilities. VI–VIII] 91b:46062
- Éléments de probabilités quantiques. IX. Calculs antisymétriques et "supersymétriques" en probabilités. [Elements of quantum probabilities. IX. Antisymmetric and "supersymmetric" calculi in probability theory] 91b:46063
- Éléments de probabilités quantiques. X. Calculs avec des noyaux discrets. [Elements of quantum probabilities. X. Calculi with discrete kernels] 91b:46064
- Éléments de probabilités quantiques. X [bis]. Approximation de l'oscillateur harmonique (d'après L. Accardi et A. Bach). [Elements of quantum probabilities. X [bis]. Approximation of the harmonic oscillator (following L. Accardi and A. Bach)] 91b:46065
- Éléments de probabilités quantiques. XI. Caractérisation des lois de Bernoulli quantiques d'après K. R. Parthasarathy. [Elements of quantum probabilities. XI. Characterization of quantum Bernoulli distributions, following K. R. Parthasarathy] 91b:46066
- see also Johnson, Gerald W., 91d:60184
- Mishura, Yu. S. Martingale characterization of diffusion random fields that are defined on the plane. 91b:60089
- Nolan, John P. Continuity of symmetric stable processes. 91d:60097
- Oprea, Ana Gabriela Representations of Itô-Clifford integrals. II. (Romanian. English summary) 91b:46088
- Pardoux, Étienne (with Protter, Philip) Stochastic Volterra equations with anticipating coefficients. 91b:60068
- Park, Chull (with Skoug, David; Smolowitz, Lawrence) Fundamental theorem of Wiener calculus. 91b:46048
- (Parthasarathy, Kalyanapuram Rangachari) see Meyer, Paul-André, 91b:46066
- Pashko, A. A. see Kozachenko, Yu. V., (91g:65009)
- Ponomarenko, A. I. Generalized strongly harmonizable random fields in normed spaces. (Russian) 91b:60110
- Pontier, Monique Filtrage approché et calcul stochastique non causal. [Approximated filtering and noncausal stochastic calculus] 91m:93132
- Protter, Philip see Pardoux, Étienne, 91b:60068
- Reitgarts, A. D. Two-parameter martingales connected with an integer random measure. (Russian) 91j:60087
- Rosiński, Roman Markov stopping sets and stochastic integrals. Application in sequential estimation for a random diffusion field. 91a:62229
- Rutkowski, Marek Fundamental solutions of stochastic differential equations with drift. 91e:60172
- Samorodnitsky, Gennady (with Taqqu, Murad S.) The various linear fractional Lévy motions. 91b:60060
- (with Szula, Jerzy) An asymptotic evaluation of the tail of a multiple symmetric α -stable integral. 91d:60176
- (with Taqqu, Murad S.) Multiple stable integrals of Banach-valued functions. 91d:60017
- Schmidt, Wolfgang Michael see Engelbert, H. J., 91e:60225 and 91e:60226
- Skoug, David see Park, Chull; et al., 91b:46048
- Smolowitz, Lawrence see Park, Chull; et al., 91b:46048
- Solé, J. L. (with Utzet, F.) Stratonovich integral and trace. 91b:60096
- Speicher, Roland Stochastic integration on the full Fock space with the help of a kernel calculus. 91m:46103
- Stricker, Christophe Valeurs prises par les martingales locales positives continues à un instant donné. (English summary) [Values taken by continuous positive local martingales at a given moment] 91b:60049
- Suchanecki, Zdzisław An L^1 extension of stochastic dynamics for irreversible systems. 91a:82046
- (with Weron, Aleksander) Applications of an operator stochastic integral in Prigogine's theory of irreversible dynamical systems. 91a:47057
- Svishchak, A. V. Weak convergence of semi-Markov random evolutions in an averaging scheme (the martingale approach). 91g:60104
- Szula, Jerzy see Samorodnitsky, Gennady, 91d:60176
- Taqqu, Murad S. see Samorodnitsky, Gennady, 91d:60017 and 91b:60060
- Trendafilov, N. see V'ndev, Dimit' L., 91c:60001
- Utzet, F. see Solé, J. L., 91b:60096
- V'ndev, Dimit' L. (with Trendafilov, N.) A type of stable stochastic processes using Levy-Khinchine formulae. 91c:60001
- Wang, Jia Gang see He, Sheng Wu, 91b:60039
- Weron, Aleksander see Suchanecki, Zdzisław, 91a:47057
- Woyczyński, Wojbor A. see Kwapień, Stanisław, 91c:60020 and Dehling, Herold; et al., 91b:62059
- Yanovich, L. A. see Kovalchik, I. M., 91b:46039
- Yokoi, Yoshitaka see Kubo, Izumi, 91e:60186

60H07 Stochastic calculus of variations and the Malliavin calculus

- Ahrabi, Hélène (with Van Biesen, Johan) Géométrie riemannienne en codimension finie sur l'espace de Wiener. (English summary) [Riemannian geometry in finite codimension on the Wiener space] 91b:60151
- Ben Arous, Gérard (with Léandre, Rémi) Annulation plate du noyau de la chaleur. (English summary) [Flat vanishing of the heat kernel] 91m:60098
- Bogachev, V. I. (with Smolyanov, O. G.) Analytic properties of infinite-dimensional distributions. 91m:60099
- Carlen, Eric A. (with Pardoux, Étienne) Differential calculus and integration by parts on Poisson space. 91g:60066
- Elliott, Robert James (with Kohlmann, Michael) Integration by parts and densities for jump processes. 91d:60128
- Florcher, Patrick Malliavin calculus with time dependent coefficients and application to nonlinear filtering. 91g:60067
- Kohlmann, Michael see Elliott, Robert James, 91d:60128
- Krée, Paul Dimension free stochastic calculus in the distribution sense. 91a:60145
- (Kubo, Izumi) see Meyer, Paul-André, 91b:60095
- Kusuoka, Shigeo The theory of the Malliavin calculus and its applications. (Japanese) 91b:60043

- Léandre, Rémi (with Russo, Francesco) Estimation de Varadhan pour des diffusions à deux paramètres. (English summary) [Varadhan's estimate for two-parameter diffusions] 91c:60164
— see also Ben Arous, Gérard, 91m:60098
- Mazziotto, G. (with Millet, Annie) Absolute continuity of the law of an infinite-dimensional Wiener functional with respect to the Wiener probability. 91m:60100
- Meyer, Paul-André (with Yan, Jia An) Distributions sur l'espace de Wiener (suite) d'après I. Kubo et Y. Yokoi. [Distributions in Wiener space (continued) after I. Kubo and Y. Yokoi] 91f:60095
- Millet, Annie see Mazziotto, G., 91m:60100
- Nualart, David (with Zakai, Moshe) A summary of some identities of the Malliavin calculus. 91d:60129
— (with Üstünel, Ali Süleyman) Une extension du laplacien sur l'espace de Wiener et la formule d'Itô associée. (English summary) [An extension of the Laplace operator on the Wiener space and the associated Itô formula] 91d:60130
— (with Sanz, Marta) Stochastic differential equations on the plane: smoothness of the solution. 91b:60152
- Pardoux, Étienne see Carlen, Eric A., 91g:60066
- Ren, Jia Gang Topologie p -fine sur l'espace de Wiener et théorème des fonctions implicites. (English summary) [p -fine topology on Wiener space and an implicit-function theorem] 91m:60101
— Analyse quasi-sûre des équations différentielles stochastiques. (English summary) [Almost sure analysis of stochastic differential equations] 91m:60102
- Russo, Francesco see Léandre, Rémi, 91c:60164
- Sanz, Marta see Nualart, David, 91d:60152
- Smolyanov, O. G. see Bogachev, V. I., 91m:60099
- Solé, J. L. (with Utzet, F.) Stratonovich integral and trace. 91f:60096
- Suzuki, Masashi Applications of the Malliavin calculus to McKean equations. 91f:60097
- Üstünel, Ali Süleyman (with Zakai, Moshe) On independence and conditioning on Wiener space. 91g:60068
— (with Zakai, Moshe) On the structure of independence on Wiener space. 91g:60069
— see also Nualart, David, 91d:60130
- Utzet, F. see Solé, J. L., 91f:60096
- Van Biesen, Johan see Airault, Hélène, 91b:60151
- Veretennikov, A. Yu. Malliavin calculus and its application to some limit theorems. (see 91j:60003)
- Yan, Jia An On the existence of density of the law of a Wiener functional. 91a:60146
— see also Meyer, Paul-André, 91f:60095
- (Yokoi, Yoshitaka) see Meyer, Paul-André, 91f:60095
- Zakai, Moshe see Nualart, David, 91d:60129; Üstünel, Ali Süleyman, 91g:60068 and 91g:60069
- Items with secondary classifications in 60H07
- Ben Arous, Gérard Développement asymptotique du noyau de la chaleur hypoelliptique sur la diagonale. (English summary) [Asymptotic expansion of the hypoelliptic heat kernel on the diagonal] 91b:58272
- Bogachev, V. I. Differential properties of measures on infinite-dimensional spaces and the Malliavin calculus. 91m:58020
— Polynômes et intégrales oscillantes sur les espaces de dimension infinie. (English summary) [Polynomials and oscillatory integrals on infinite-dimensional spaces] 91i:60009
- Buckdahn, Rainer ★ Transformations on the Wiener space and Skorohod-type stochastic differential equations. 91d:60133
- Chaleyat-Maurel, Mireille (with Michel, Dominique) The support of the density of a filter in the uncorrelated case. 91m:93126
- Fang, Shi Zan Pseudo-théorème de Sard pour les applications réelles et connexité sur l'espace de Wiener. (English summary) [Sard's pseudoteorem for real mappings and connectedness in Wiener space] 91a:58035
- Feyel, Denis (with de La Pradelle, Arnaud) Espaces de Sobolev Gaussiens. (English summary) [Gaussian Sobolev spaces] 91e:60183
- Körezlioglu, Hayri (with Üstünel, Ali Süleyman) Construction de distributions sur l'espace de Wiener via la seconde quantification. (English summary) [Construction of distributions on the Wiener space via the second quantization] 91m:46059
- Kusuoka, Shigeo On the foundations of Wiener-Riemannian manifolds. 91b:58011
- de La Pradelle, Arnaud see Feyel, Denis, 91e:60183
- Léandre, Rémi (with Meyer, Paul-André) Sur le développement d'une diffusion en chaos de Wiener. [On the expansion of a diffusion in Wiener chaos] 91c:60102
— (with Russo, Francesco) Estimation de densité pour une équation des ondes faiblement perturbée par un bruit blanc. (English summary) [Density estimates for a wave equation that is slightly perturbed by a white noise] 91j:60108
- Malliavin, Paul see Malliavin-Brammeret, Marie-Paule, 91k:60084
- Malliavin-Brammeret, Marie-Paule (with Malliavin, Paul) Integration on loop groups. I. Quasi invariant measures. 91k:60084
- Meyer, Paul-André see Léandre, Rémi, 91c:60102
- Michel, Dominique see Chaleyat-Maurel, Mireille, 91m:93126
- Nguyen Minh Duc (with Nualart, David; Sanz, Marta) Application of Malliavin calculus to a class of stochastic differential equations. 91d:60138
- Nualart, David Une remarque sur le développement en chaos d'une diffusion. [A remark on the expansion of a diffusion in chaos] 91c:60103
— (with Üstünel, Ali Süleyman; Zakai, Moshe) Some relations among classes of σ -fields on Wiener space. 91b:60147
— see also Nguyen Minh Duc; et al., 91d:60138
- Ocone, Daniel (with Pardoux, Étienne) Linear stochastic differential equations with boundary conditions. 91a:60154
- Pardoux, Étienne (with Protter, Philip) Stochastic Volterra equations with anticipating coefficients. 91h:60068
— see also Ocone, Daniel, 91a:60154
- Picard, Jean Martingales sur le cercle. [Martingales on the circle] 91d:60110
- Protter, Philip see Pardoux, Étienne, 91h:60068
- Russo, Francesco see Léandre, Rémi, 91j:60108

- Sanz, Marta see Nguyen Minh Duc; et al., 91d:60138
- Schwartz, Laurent Équation différentielle stochastique (EDS) sur \mathbb{R}^N et sur $\mathbb{R}^N \cup \{\infty\} = S_N$. (English summary) [A stochastic differential equation in \mathbb{R}^N and $\mathbb{R}^N \cup \{\infty\} = S_N$] 91a:60158
- Üstünel, Ali Süleyman see Nualart, David; et al., 91b:60147 and Körezlioglu, Hayri, 91m:46059
- von Vintschger, R. A duality equation for diffusions on an abstract Wiener space. 91a:60202
- Yokoi, Yoshitaka Positive generalized white noise functionals. 91m:60075
- Zakai, Moshe see Nualart, David; et al., 91b:60147
- Zhou, Xian Yin Smoothness of the density of solutions to stochastic differential equations with jumps. (Chinese) 91m:60110

60H10 Stochastic ordinary differential equations [see also 34F05]

- Albeverio, Sergio (with Blanchard, Philippe; Kusuoka, Shigeo; Streit, Ludwig) An inverse problem for stochastic differential equations. 91b:60131
- Almazov, M. (with Kulnich, G. L.) Limit theorems for one-dimensional nonhomogeneous stochastic diffusion equations with nonregular dependence of the coefficients on the parameter. 91b:60153
- Arnold, Ludwig Towards a theory of nonlinear stochastic systems. 91m:60103
- Bahlali, Khalel Sur la propriété de non-confluence des solutions d'une équation différentielle stochastique à coefficients non lipschitziens. (English summary) [On the nonconfluence of solutions of stochastic differential equations with non-Lipschitzian coefficients] 91b:60044
- Bally, Vlad Approximation for the solutions of stochastic differential equations. I. L^p -convergence. 91b:60045
— Approximation for the solutions of stochastic differential equations. II. Strong convergence. 91d:60132
— Approximation for the solutions of stochastic differential equations. III. Jointly weak convergence. 91j:60103
- Barlow, Martin T. Skew Brownian motion and a one-dimensional stochastic differential equation. 91c:60165
— (with Perkins, Edwin A.) On pathwise uniqueness and expansion of filtrations. 91m:60104
- Blanchard, Philippe see Albeverio, Sergio; et al., 91d:60131
- Bobrik, R. V. A property of stable systems of linear stochastic equations. 91b:60154
- Bondarenko, B. V. Averaging in stochastic systems with dependence on the whole past. 91b:60155
- Buckdahn, Rainer ★ Transformations on the Wiener space and Skorohod-type stochastic differential equations. 91d:60133
— A linear stochastic differential equation with Skorohod integral. 91b:60156
- Chan, Terence An Ornstein-Uhlenbeck model for random oscillations. 91h:60062
- Chari, Ravi On a connection between the noncentral χ^2 distribution and Bessel diffusions. 91j:60104
- Cheng, Bing Existence of solutions to infinite-dimensional Itô-Volterra stochastic differential equations in the space $G[0, 1]$. (Chinese. English summary) 91a:60147
- Chernikov, A. A. see Saufer, V. K., (Not in MR)
- Darling, R. W. R. Rate of growth of the coalescent set in a coalescing stochastic flow. 91d:60134
- Day, Martin Large deviations results for the exit problem with characteristic boundary. 91k:60062
- Freidlin, Mark Random perturbations of infinite-dimensional dynamical systems. (see 91j:60003)
- Frigerio, Alberto Some applications of quantum probability to stochastic differential equations in Hilbert space. 91k:60063
- Gikhman, I. I. Quasilinear evolution stochastic systems with averaging. 91f:60098a
— Letter to the editors: "Quasilinear evolution stochastic systems with averaging". 91f:60098b
- Golec, J. (with Ladde, Gangaram S.) Euler-type approximation for systems of stochastic differential equations. 91d:60135
— (with Ladde, Gangaram S.) Averaging principle and systems of singularly perturbed stochastic differential equations. 91e:60166
- Gyöngy, I. (with Pröhle, T.) On the approximation of stochastic differential equation and on Stroock-Varadhan's support theorem. 91d:60136
— Approximation of Itô stochastic equations. 91m:60105
- Hajjafar, A. Hankel system of moments and the Gauss-Galerkin method. 91h:60063
- Ha, Bi Jin S -type stochastic differential functions. (Chinese. English summary) 91a:60148
- Iscoe, I. (with Marcus, Michael B.; McDonald, David R.; Talagrand, Michel; Zinn, Joel) Continuity of L^2 -valued Ornstein-Uhlenbeck processes. 91h:60064
- Janković, Svetlana Some special iterative procedures for solving stochastic differential equations of Itô type. 91b:60046
- Kadiev, R. I. Stability of nonlinear Itô functional-differential equations. (Russian) 91f:60099
- Kallianpur, G. (with Mitoma, I.; Wolpert, R. L.) Diffusion equations in duals of nuclear spaces. 91b:60167
- Kersting, G. Asymptotic properties of solutions of multidimensional stochastic differential equations. 91d:60137
- Kharkova, M. V. Limit behavior of solutions of systems of stochastic diffusion equations. 91a:60149
— see also Kulnich, G. L., 91m:60106
- Khusalov, D. Ya. (with Kozhametov, A. T.) Estimates for the stability of linear stochastic systems. 91c:60074
- Klepetsyna, M. L. see Veretennikov, A. Yu., (91g:60005)
- Korolyuk, V. S. Stability of an autonomous dynamical system with fast Markov switchings. (Russian. English summary) 91j:60105
- Kozhametov, A. T. see Khusalov, D. Ya., 91c:60074
- Kulnich, G. L. (with Kharkova, M. V.) Asymptotic behavior of solutions of systems of stochastic diffusion equations with nonregular dependence of coefficients on a parameter. (Russian. English summary) 91m:60106
— see also Almazov, M., 91b:60153

- Kunita, Hiroshi ★ Stochastic flows and stochastic differential equations. 91m:60107
- Kurenok, V. P. Existence of solutions of a one-dimensional stochastic differential equation. (Russian. English summary) 91a:60150
- The existence of a solution to a stochastic differential equation without drift in the case of local integrability of the coefficient a^{-2} . (Russian) 91c:60168
- Kusuoka, Shigeo. *see* Alberverio, Sergio; et al., 91d:60131
- Ladde, Gangaram S. *see* Golec, J., 91d:60135 and 91c:60166
- Lapeyre, Bernard A priori bound for the supremum of solutions of stable stochastic differential equations. 91f:60100
- León, Jorge A. Stochastic evolution equations with respect to semimartingales in Hilbert space. 91c:60169
- Lépine, Dominique (with Nualart, David; Sanz, Marta) Dérivation stochastique de diffusions réfléchies. (English summary) [Stochastic differentiation of reflected diffusions] 91c:60170
- Mackevičius, Vygirdas Stability of solutions of stochastic differential equations under uniform perturbations of the controlling semimartingales. (Russian) (see 91g:60005)
- Makhnos, S. Ya. On sufficient conditions for the convergence of solutions of stochastic equations. (see 91j:60003)
- Convergence of solutions of stochastic equations. (Russian) (see 91g:60005)
- Malyshev, V. A. (with Podorol'skii, V. A.; Turova, T. S.) Ergodicity of infinite systems of stochastic equations. 91b:60047
- Marcus, Michael B. *see* Iscoe, I.; et al., 91b:60064
- Masłowski, Bohdan Uniqueness and stability of invariant measures for stochastic differential equations in Hilbert spaces. 91a:60151
- McDonald, David R. *see* Iscoe, I.; et al., 91b:60064
- Mishura, Yu. S. Martingale characterization of solutions of stochastic differential equations in the plane. (Russian. English summary) 91m:60108
- Mitoma, I. *see* Kallianpur, G.; et al., 91c:60167
- Moroza, T. (with Tudor, Constantin) Almost periodic solutions of affine Itô equations. 91c:60064
- Nakazawa, Hiroshi Numerical procedures for sample structures on stochastic differential equations. 91f:60101
- Newton, Nigel J. An efficient approximation for stochastic differential equations on the partition of symmetrical first passage times. 91a:60152
- Nguyễn Hà'u Du' (with Trần Văn Nhung) Lyapunov spectrum of ergodic stationary systems perturbed by white noise. 91a:60153
- Nguyen Minh Duc (with Nualart, David; Sanz, Marta) Application of Malliavin calculus to a class of stochastic differential equations. 91d:60138
- Novozhilova, E. G. (with Shatahvil, A. D.) An application of an extended stochastic integral with respect to a Gaussian measure. (Russian) (see 91j:60001)
- Nualart, David *see* Nguyen Minh Duc; et al., 91d:60138 and Lépine, Dominique; et al., 91c:60170
- Ocone, Daniel (with Pardoux, Etienne) Linear stochastic differential equations with boundary conditions. 91a:60154
- Øksendal, Bernt When is a stochastic integral a time change of a diffusion? 91k:60065
- Oukinas, Y. Fonctions de semimartingales et applications aux équations différentielles stochastiques. (English summary) [Functions of semimartingales and applications to stochastic differential equations] 91a:60155
- Pardoux, Etienne (with Peng, Shi Ge) Adapted solution of a backward stochastic differential equation. 91c:60171
- *see also* Ocone, Daniel, 91a:60154
- Peng, Shi Ge *see* Pardoux, Etienne, 91c:60171
- Perkins, Edwin A. *see* Barlow, Martin T., 91m:60104
- Picard, Jean Convergence in probability for solutions of stochastic differential equations. (see 91j:60003)
- Pinsky, Mark A. (with Wihstutz, V.) Lyapunov exponents of nilpotent Itô systems. 91a:60156
- Podorol'skii, V. A. *see* Malyshev, V. A.; et al., 91b:60047
- Prähle, T. *see* Gyöngy, I., 91d:60136
- Pukhal'skii, A. A. Asymptotic behavior of the solution of a stochastic equation with discontinuous parameters and with a small martingale part. (Russian) (see 91g:60005)
- Rayer, Gilles A remark on simulated annealing of diffusion processes. 91f:60102
- Rutkowski, Marek Sur le taux de convergence des temps locaux des solutions d'équations différentielles stochastiques. (English summary) [On the rate of convergence of the local times of solutions of stochastic differential equations] 91d:60139
- Fundamental solutions of stochastic differential equations with drift. 91c:60172
- On solutions of stochastic differential equations with drift. 91c:60173
- Stochastic differential equations with singular drift. 91b:60157
- Ryglu, Irena On the estimations of solution of delayed stochastic differential equations. 91h:60065
- Safaryan, R. G. On a problem with a small parameter for a class of random processes. (Russian) (see 91g:60005)
- Sanz, Marta *see* Nguyen Minh Duc; et al., 91d:60138 and Lépine, Dominique; et al., 91c:60170
- Sarafyan, V. V. (with Terzian, T. A.) Limit behavior of solutions of random differential equations. (Russian) 91m:60109
- Saufer, V. K. (with Chernikov, A. A.) Solution of the Fokker-Planck-Kolmogorov equation by the finite difference method. (Not in MR)
- Schmalhaus, Björn Invariant attracting sets of nonlinear stochastic differential equations. 91b:60158
- Schmidt, Wolfgang Michael On stochastic differential equations with reflecting barriers. 91c:60174
- Schwartz, Laurent La convergence de la série de Picard pour les EDS (équations différentielles stochastiques). [Convergence of the Picard series for stochastic differential equations] 91a:60157
- Equation différentielle stochastique (EDS) sur \mathbb{R}^N et sur $\mathbb{R}^N \cup \{\infty\} = S_N$. (English summary) [A stochastic differential equation in \mathbb{R}^N and $\mathbb{R}^N \cup \{\infty\} = S_N$] 91a:60158
- Sharov, V. F. Stability of random processes that are subordinate to stochastic differential equations. (Russian) (see 91b:60003)
- Shatahvil, A. D. *see* Novozhilova, E. G., (91j:60001)
- Sinitsyn, V. I. A new approximate method for finding the one-dimensional distribution of a vector process defined by a stochastic differential equation. (Russian) 91c:60075
- Situ, Rong Strong and weak solutions to stochastic differential equations with rectangular reflecting boundary and their stability. (Chinese. English summary) 91j:60106
- Streit, Ludwig *see* Alberverio, Sergio; et al., 91d:60131
- Talagrand, Michel *see* Iscoe, I.; et al., 91b:60064
- Taniguchi, Setsuo Stochastic flows of diffeomorphisms on an open set in \mathbb{R}^n . 91f:60103
- Terzian, T. A. *see* Sarafyan, V. V., 91m:60109
- Trần Văn Nhung *see* Nguyễn Hà'u Du', 91a:60153
- Tudor, Constantin *see* Moroza, T., 91c:60064
- Turova, T. S. *see* Malyshev, V. A.; et al., 91b:60047
- Varsan, Constantin Asymptotic almost periodic solutions for stochastic differential equations. 91f:60104
- Veretennikov, A. Yu. (with Kleptsyna, M. L.) On a trajectory-wise approach to stochastic differential equations. (Russian) (see 91g:60005)
- Conditions for hypo-ellipticity and estimates for the rate of mixing for stochastic differential equations. 91a:60159
- On an averaging principle for systems of stochastic differential equations. 91g:60070
- Vorob'eva, I. L. Probability of finding the solution of a stochastic differential equation in curvilinear boundaries. (Russian) (see 91j:60001)
- Vu Viet Yen A stochastic Taylor formula for functionals of two-parameter semimartingales. 91d:60140
- Wagner, Wolfgang Unbiased Monte Carlo estimators for functionals of weak solutions of stochastic differential equations. 91a:60160
- Weinryb, Sophie Étude d'une équation différentielle stochastique non linéaire avec temps local, modèle limite pour un système de particules avec interaction à la frontière. (English summary) [Study of a nonlinear stochastic differential equation with local time, limit model for a particle system with boundary interaction] 91b:60048
- Wihstutz, V. *see* Pinsky, Mark A., 91a:60156
- Wolpert, R. L. *see* Kallianpur, G.; et al., 91c:60167
- Xia, Ning Mao Errata: "The random eigenvalue problem for a differential equation containing small white noise" [Quart. Appl. Math. 46 (1988), no. 4, 611–630; MR 90b:60071]. 91d:60141
- Xu, Jia Gu *see* Zhou, Xun Yu, 91c:60076
- Yor, Marc De nouveaux résultats sur l'équation de Tsirel'son. (English summary) [Some new results about Tsirel'son's equation] 91c:60175
- Zabcyk, Jerzy Symmetric solutions of semilinear stochastic equations. 91a:60161
- Zadorozhnyi, V. G. On the expansion of the characteristic functional of a linear stochastic system in a power series. 91d:60142
- Zhang, Weijian Analytical solution of general one-dimensional Fokker-Planck equation. 91c:60143
- Zhou, Xian Yin Smoothness of the density of solutions to stochastic differential equations with jumps. (Chinese) 91m:60110
- Zhou, Xun Yu (with Xu, Jia Gu) Existence of weak solutions to multidimensional functional stochastic differential equations. (Chinese) 91c:60076
- Zinn, Joel *see* Iscoe, I.; et al., 91b:60064

Items with secondary classifications in 60H10

- Alberverio, Sergio (with Hilbert, Astrid) Some remarks on stochastically perturbed (Hamiltonian) systems. 91b:58221
- Antonyan, A. A. Weak convergence of a class of semimartingales and of solutions of stochastic differential equations. (Russian) (see 91g:60005)
- Arnold, Ludwig (with San Martin, Luiz) A multiplicative ergodic theorem for rotation numbers. 91d:58127
- Artzroun, Marc (with Renke, James A.) Stochastic differential equations in mathematical demography: a review. 91c:92111
- (with Renke, James A.) Stochastic differential equations in mathematical demography: a review. 91h:92048
- Behn, Ulrich (with Schiele, Konrad) Stratonovich model driven by dichotomous noise: mean first passage time. 91a:34040
- Belavkin, V. P. A continuous counting observation and posterior quantum dynamics. 91a:81246
- A stochastic posterior Schrödinger equation for counting nondemolition measurement. 91i:81033
- Belopol'skaya, Ya. I. Stochastic equations on Banach manifolds and bundles. (see 91j:60003)
- (with Daletskii, Yu. L.) ★ Stochastic equations and differential geometry. 91b:58271
- *see also* Daletskii, Yu. L., 91a:58204
- Bobrik, R. V. Diffusion approximation in studying moments of solutions of systems of linear differential equations with Gaussian coefficients. (Russian. English summary) 91i:34067
- Bougerol, Philippe Limit theorem for products of random matrices with Markovian dependence. (see 91j:60003)
- Boughton, B. A. *see* DeLaurentis, J. M., 91d:34056
- Bouleau, Nicolas (with Hirsch, Francis) Quasi-everywhere regularity of solutions of Brownian stochastic differential equations and their flows. (French summary) 91f:60128
- Buxler, Petra A stochastic version of center manifold theory. 91d:58115
- Bulsara, A. R. (with Schieve, W. C.; Jacobs, E. W.) Homoclinic chaos in systems perturbed by weak Langevin noise. 91a:58112
- Bulychev, Yu. G. The method of first integrals in nonlinear filtering problems. (Not in MR)
- Carmona, René A. (with Nualart, David) ★ Nonlinear stochastic integrators, equations and flows. 91b:60143
- Dębrowski, Jacek Asymptotic normality of a certain estimator in partially observed linear systems. 91m:93120
- Daletskii, Yu. L. (with Belopol'skaya, Ya. I.) ★ Стохастические уравнения в дифференциальной геометрии. (Russian) [Stochastic equations and differential geometry] 91a:58204
- *see also* Belopol'skaya, Ya. I., 91b:58271
- Davis, Mark H. A. (with Spathopoulos, M. P.) On the minimum principle for controlled diffusions on manifolds. 91b:49025

- DeLaurentis, J. M. (with Boughton, B. A.) An asymptotic analysis of a generalized Langevin equation. **91d:34056**
- Demenin, A. N. (with Diesperova, M. M.) Limit relations for densities of probability measures that correspond to solutions of linear differential equations with random coefficients. (Russian) **91c:60133**
- Diesperova, M. M. see Demenin, A. N., **91c:60133**
- Dressler, Klaus Steady states in plasma physics—the Vlasov-Fokker-Planck equation. **91k:82062**
- Durran, R. see Truman, A., **91c:81005**
- Egorov, A. D. (with Khripach, V. V.) Approximate calculation of functional integrals with respect to measures that can be generated by solutions of stochastic equations. (Russian. English summary) **91m:65060**
- Esposito, Raffaele (with Pulvirenti, M.) Three-dimensional stochastic vortex flows. **91a:35173**
- Feng, Jian Feng Numerical solution of stochastic differential equations. **91h:65215**
- Feng, Xiangbo (with Loparo, Kenneth A.) Almost sure instability of the random harmonic oscillator. **91k:34085**
- Florhinger, Patrick Malliavin calculus with time dependent coefficients and application to nonlinear filtering. **91g:60067**
- Frigerio, Alberto Positive contraction semigroups on $B(H)$ and quantum stochastic differential equations. **91h:47037**
- Relativistic transformation properties of quantum stochastic calculus. (French summary) **91h:81065**
- Gliklikh, Yu. E. ★ Анализ на римановых многообразиях в задаче математической физики. (Russian) [Analysis on Riemannian manifolds and problems in mathematical physics] **91j:58031**
- Golden, Kenneth M. (with Goldstein, Sheldon) Arbitrarily slow approach to limiting behavior. **91h:26001**
- Goldstein, Sheldon see Golden, Kenneth M., **91h:26001**
- Hennin, A. J. On the stochastic differential equations of filtering theory. **91i:93109**
- Hilbert, Astrid see Alberverio, Sergio, **91b:58221**
- Hirsch, Francis see Bouleau, Nicolas, **91f:60128**
- Hu, Gang Two-dimensional probability distribution of systems driven by colored noise. **91m:34070**
- Jacobs, E. W. see Bulsara, A. R.; et al., **91a:58112**
- Jeuin, T. (with Yor, Marc) Filtration des ponts browniens et équations différentielles stochastiques linéaires. (English summary) [Filtration of Brownian bridges and linear stochastic differential equations] **91i:60206**
- Kasonga, Raphael A. Maximum likelihood theory for large interacting systems. **91f:62139**
- Kawabata, Shigetoku On the successive approximation of solutions of stochastic differential equations. **91h:34091**
- Khripach, V. V. see Egorov, A. D., **91m:65060**
- Klimentovich, Yu. L. Itô, Stratonovich and kinetic forms of stochastic equations. **91h:82039**
- Klocek-Dygas, M. M. see Naeh, T.; et al., **91f:60212**
- Kröger, Pawel Comparison theorems for diffusion processes. **91j:60133**
- Kugo, Taichiro (with Mitchard, M. G.) On the superfield formulation of stochastic quantisation. **91g:81064**
- Lan, N. K. The mean pth-order Lyapunov exponent of a regular system with white noise. (Russian) (Not in MR)
- Leizarowitz, Arle Optimal controls for diffusion in \mathbb{R}^d —a min-max max-min formula for the minimal cost growth rate. **91f:49010**
- Exact results for the Lyapunov exponents of certain linear Itô systems. **91j:93120**
- Le N'g Dyong see Nguyen Dong Anh, **91k:34069**
- Liptser, R. Sh. see Stoyanov, J., **91i:60062**
- Loparo, Kenneth A. see Feng, Xiangbo, **91k:34085**
- Mastrangelo, M. Résolution stochastique, par des processus de diffusion partiellement réfléchis, d'opérateurs différentiels paraboliques à coefficients continus par morceaux et admettant un drift généralisé. I. [Stochastic solution, by means of partially reflected diffusion processes, of parabolic differential operators with piecewise continuous coefficients and admitting a generalized drift. I.] **91f:60134**
- Matkowsky, Bernard J. see Naeh, T.; et al., **91f:60212**
- Meyer, Paul-André New examples of "chaotic" representation. **91a:60142**
- Millet, Annie (with Nualart, David; Sanz, Marta) Time reversal for infinite-dimensional diffusions. **91c:60104**
- Mitchard, M. G. see Kugo, Taichiro, **91g:81064**
- Morozan, T. Almost periodic solutions of affine discrete-time systems with independent random perturbations. **91a:39003**
- Naeh, T. (with Klocek-Dygas, M. M.; Matkowsky, Bernard J.; Schuss, Z.) A direct approach to the exit problem. **91f:60212**
- Nguyen Dong Anh (with Le N'g Dyong) Responses of linear dynamical systems of arbitrary order under the action of "white noise". (Russian) **91k:34069**
- Nie, Zan Kan The Markov property for solutions of two-parameter Itô stochastic differential equations. (Chinese) **91h:60055**
- Nualart, David see Millet, Annie; et al., **91c:60104** and Carmona, René A., **91b:60143**
- Okasaki, Takashi Generalization of Fokker-Planck equations by means of a projection operator technique: a study of stochastic processes subject to additive noises. (Japanese. English summary) **91m:82101**
- Platen, Eckhard A stochastic approach to hopping transport in semiconductors. (Not in MR)
- Ponosov, A. V. Stochastic equations of neutral type. (Russian) **91h:34092**
- Protter, Philip ★ Stochastic integration and differential equations. **91f:60148**
- Pulvirenti, M. see Esposito, Raffaele, **91a:35173**
- Ren, Jia Gang Analyse quasi-sûre des équations différentielles stochastiques. (English summary) [Almost sure analysis of stochastic differential equations] **91m:60102**
- Renke, James A. see Artzrouni, Marc, **91c:92111** and **91h:92048**
- Repin, O. N. (with Saichev, A. I.) Properties of solutions of stochastic boundary value problems. (Russian) (see **91c:60009**)
- Rodkina, A. E. The averaging principle for systems of stochastic equations with fast and slow variables. (Russian) **91k:34070**
- Saichev, A. I. see Repin, O. N., (**91c:60009**)
- San Martín, Luis see Arnold, Ludwig, **91d:58127**
- Sanz, Marta see Millet, Annie; et al., **91c:60104**
- Schiele, Konrad see Behn, Ulrich, **91a:34040**
- Schieve, W. C. see Bulsara, A. R.; et al., **91a:58112**
- Schmidt, Wolfgang Michael On semimartingale diffusions and stochastic differential equations. **91d:60192**
- Schuss, Z. see Naeh, T.; et al., **91f:60212**
- Serrano, Sergio E. (with Unny, T. E.) Random evolution equations in hydrology. **91g:86001**
- Sharp, Keith P. Stochastic differential equations in finance. **91i:90014**
- Sidorenko, E. A. Semantic construction of propositional relevant logic. (Russian) (see **91b:03003**)
- Skorokhod, I. V. On the limit behavior of an oscillatory system in the presence of random perturbations of parameters of this system. I. **91i:34071**
- Spathopoulos, M. P. see Davis, Mark H. A., **91h:49025**
- Speicher, Roland Stochastic integration on the full Fock space with the help of a kernel calculus. **91m:46103**
- Sri Namachchivaya, N. Stochastic bifurcation. **91m:58138**
- Stolarczyk, Maria On the existence of optimal control for general stochastic equations. **91f:93104**
- Stoyanov, J. (with Liptser, R. Sh.) Second order approximation for diffusion type processes. **91h:60062**
- Taniguchi, Takashi On sufficient conditions for nonexplosion of solutions to stochastic differential equations. **91k:34087**
- Trofimov, E. I. L^2 -construction of distributions and a martingale problem. **91m:60081**
- Truman, A. (with Durran, R.) Planetsimal diffusions in stochastic mechanics. **91c:81005**
- Unny, T. E. see Serrano, Sergio E., **91g:86001**
- Varian, Constantin Approximation and existence of periodic solutions for controlled diffusion equations. **91i:93097**
- Vorenina, V. A. Stochastic methods for solving the Boltzmann equation for reacting gases. (Russian) **91d:82036**
- Wedig, W. Stability and bifurcation in stochastic systems. **91j:70028**
- von Weizsäcker, Heinrich (with Winkler, Gerhard) ★ Stochastic integrals. **91i:60150**
- Winkler, Gerhard see von Weizäcker, Heinrich, **91i:60150**
- Wolansky, G. Limit theorem for a dynamical system in the presence of resonances and homoclinic orbits. **91h:58223**
- Wu, Jiang Lun Representability of strong solutions to stochastic differential equations in Euclidean spaces. (Chinese) **91j:35295**
- Yor, Marc see Jeuin, T., **91f:60206**

60H15 Stochastic partial differential equations [see also 35R60]

- Bondarev, B. V. (with Vorob'eva, I. L.) Averaging in curvilinear boundaries of stochastic hyperbolic systems. **91a:60162**
- Caraballo Garrido, Tomás Sufficient conditions of stability for stochastic partial differential equations with delay. (Spanish. English summary) **91a:60163**
- Chow, Pao Liu (with Menaldi, José-Luis) Exponential estimates in exit probability for some diffusion processes in Hilbert spaces. **91c:60176**
- Cruzeiro, Ana Bela Invariant measures in hydrodynamic systems with random perturbations. **91j:60107**
- Fedorenko, L. N. Solution of a quasilinear stochastic partial differential equation. (Russian) (see **91c:00008**)
- Goldys, Benjamin On some regularity properties of solutions to stochastic evolution equations in Hilbert spaces. **91i:60159**
- Grecksch, W. A prediction problem for a time discrete parabolic Itô equation. **91h:60066**
- Gyöngy, I. The stability of stochastic partial differential equations and applications. Theorems on supports. **91a:60164**
- The stability of stochastic partial differential equations and applications. I. **91c:60177**
- The stability of stochastic partial differential equations. II. **91c:60178**
- The approximation of stochastic partial differential equations and applications in nonlinear filtering. **91d:60144**
- Kallianpur, G. (with Pérez-Abreu, V.) Weak convergence of solutions of stochastic evolution equations on nuclear spaces. **91a:60165**
- Karabash, M. A. The rate of convergence of stepwise approximations of solutions of stochastic evolution equations. (Russian) **91m:60111**
- Kolomiets, Yu. V. Averaging of evolution equations with random perturbations. (Russian) **91m:60112**
- Kuo, Hui-Hsiung Stochastic partial differential equations of generalized Brownian functionals. **91h:60049**
- Léandre, Rémi (with Russo, Francesco) Estimation de densité pour une équation des ondes faiblement perturbée par un bruit blanc. (English summary) [Density estimates for a wave equation that is slightly perturbed by a white noise] **91j:60106**
- Martinelli, Fabio (with Olivieri, Enzo; Scoppola, Elisabetta) Small random perturbations of finite- and infinite-dimensional dynamical systems: unpredictability of exit times. **91f:60105**
- Menaldi, José-Luis see Chow, Pao Liu, **91c:60176**
- Nualart, David (with Yeh, James J.) Dependence on the boundary condition for linear stochastic differential equations in the plane. **91f:60106**
- Ocone, Daniel (with Pardoux, Étienne) A Lie algebraic criterion for nonexistence of finite-dimensionally computable filters. **91a:60166**
- Olivieri, Enzo see Martinelli, Fabio; et al., **91f:60105**
- Papanicolaou, Vassilis G. The probabilistic solution of the third boundary value problem for second order elliptic equations. **91h:60066**
- Pardoux, Étienne see Ocone, Daniel, **91a:60166**
- Pérez-Abreu, V. see Kallianpur, G., **91a:60165**
- Pozhidav, A. V. Asymptotic normality of the error of averaging parabolic boundary value problems. (Russian) **91g:60071**
- Purtukhiya, O. G. (with Rozovskii, B. L.) Measure-valued solutions of second-order stochastic parabolic equations. (Russian) **91m:60113**
- Rozovskii, B. L. see Purtukhiya, O. G., **91m:60113**

- Russo, Francesco *see* Léandre, Rémi, 91j:60108
- Schmalz, Björn Endlichdimensionale Approximation der Lösung der stochastischen Navier-Stokes-Gleichung. (English summary) [Finite-dimensional approximation of the solution of the stochastic Navier-Stokes equation] 91m:60114
- Langzeitverhalten einer parabolischen Evolutionsgleichung mit zufälligen Einflüssen. (English and Russian summaries) [Long-time behavior of a parabolic evolution equation with random influences] 91m:60115
- Scoppola, Elisabetta *see* Martinelli, Fabio, et al., 91f:60105
- Seidler, Jan (with Vrkoč, Ivo) An averaging principle for stochastic evolution equations. (Russian and Czech summaries) 91i:60160
- Tudor, Constantin Optimal control for semilinear stochastic evolution equations. 91a:60167
- Vorob'eva, I. L. *see* Bondarev, B. V., 91a:60162
- Vrkoč, Ivo *see* Seidler, Jan, 91i:60160
- Watanabe, Hisao On the convergence of partial differential equations of parabolic type with rapidly oscillating coefficients to stochastic partial differential equations. 91b:60050
- Yeh, James J. *see* Nualart, David, 91f:60106
- Yurinskii, V. V. On the homogenization error for boundary problems with highly oscillating random coefficients. (see 91j:60003)
- Zhang, Weijian On a bilinear stochastic partial differential equation in terms of cylindrical Brownian motion. 91e:60179
- Analytical analysis of a stochastic partial differential equation. 91i:60161

Items with secondary classifications in 60H15

- Adler, Robert J. (with Epstein-Feldman, Raisa; Lewin, Marica) Intersection local times for infinite systems of Brownian motions and for the Brownian density process. 91m:60144
- Ahmed, N. U. *see* Li, Peng, 91b:93174
- Antonelli, Peter L. Filtering the n -dimensional logistic growth model. 91k:60050
- Arató, N. M. Quadratic functionals of generalized Gaussian random fields. 91d:60118
- Bensoussan, Alain On the integrated formulation of Zakai and Kushner equations. 91a:93059
- (with Glowinski, Roland; Răşcanu, A.) Approximation of the Zakai equation by the splitting up method. 91m:65243
- Bondarev, B. V. (with Moskal'tsova, N. V.) Averaging in the stochastic Goursat problem. (Russian. English summary) 91i:35340
- Caraballo Garrido, Tomás Some stability results for a class of stochastic PDEs. (Spanish) (see 91j:60015)
- Chaleyat-Maurel, Mireille (with Michel, Dominique) The support of the density of a filter in the uncorrelated case. 91m:93126
- Epstein-Feldman, Raisa *see* Adler, Robert J.; et al., 91m:60144
- Flandoli, Franco Dirichlet boundary value problem for stochastic parabolic equations: compatibility relations and regularity of solutions. 91c:35169
- Florcher, Patrick (with Le Gland, François) Time-discretization of the Zakai equation for diffusion processes observed in correlated noise. 91j:65154
- Funaki, Tadahisa Derivation of the hydrodynamical equation for one-dimensional Ginzburg-Landau model. 91c:60141
- Glynn, T. V. Stabilization of solutions of nonlinear stochastic parabolic equations. 91c:35170
- Glowinski, Roland *see* Bensoussan, Alain; et al., 91m:65243
- Hennin, A. J. On the stochastic differential equations of filtering theory. 91f:93098
- Hida, Takeyuki Infinite-dimensional rotation group and unitary group. 91a:60210
- Functionals of Brownian motion. 91i:60205
- Ishikawa, Masaaki On stochastic parabolic equations with subdifferentials and stochastic variational inequalities. 91j:35294
- Kunita, Hiroshi ★ Stochastic flows and stochastic differential equations. 91m:60107
- Le Gland, François *see* Florcher, Patrick, 91j:65154
- Lewin, Marica *see* Adler, Robert J.; et al., 91m:60144
- Li, Peng (with Ahmed, N. U.) A note on stability of stochastic systems with unbounded perturbations. 91b:93174
- Michel, Dominique *see* Chaleyat-Maurel, Mireille, 91m:93126
- Moskal'tsova, N. V. *see* Bondarev, B. V., 91i:35340
- Nagase, Noriaki On the existence of optimal control for controlled stochastic partial differential equations. 91b:49027
- Nualart, David (with Sanz, Marta) Stochastic differential equations on the plane: smoothness of the solution. 91i:60152
- Perun, G. M. *see* Yurinskii, V. K., 91f:35282
- Răşcanu, A. *see* Bensoussan, Alain; et al., 91m:65243
- Sanz, Marta *see* Nualart, David, 91i:60152
- Schneider, W. R. Fractional diffusion. 91j:35009
- Yurinskii, V. K. (with Perun, G. M.) Stabilization of the solution of a stochastic equation of oscillations with a Bessel operator in the presence of Poisson perturbations. 91f:35282
- Zabczyk, Jerzy Symmetric solutions of semilinear stochastic equations. 91a:60161

60H20 Stochastic integral equations

- Ahmed, N. U. Stochastic initial-boundary value problems for a class of second order evolution equations. 91b:60067
- Aliev, Sh. *see* Umbetzhano, D. U., 91j:60109
- Dorogovtsev, A. A. Linear equations that contain an extended stochastic integral. 91e:60180
- Ferreira, Guillermo Approximation of stochastic equations driven by predictable processes. 91b:60051
- León, Jorge A. On equivalence of solutions to stochastic differential equations with anticipating evolution systems. 91k:60067
- Lewin, Marica On the existence of a weak solution to a Volterra-Skorohod equation. 91d:60145
- Makhno, S. Ya. Convergence of solutions of stochastic equations with perturbed coefficients. (Russian) 91m:60116
- Mao, Xue Rong Lyapunov functions and almost sure exponential stability of stochastic differential equations based on semimartingales with spatial parameters. 91m:60117

- Exponential stability for stochastic differential equations with respect to semimartingales. 91k:60068
- Murge, M. G. (with Pachpatte, B. G.) Successive approximations for solutions of second order stochastic integrodifferential equations of Itô type. 91d:60146
- Pachpatte, B. G. *see* Murge, M. G., 91d:60146
- Pardoux, Étienne (with Protter, Philip) Stochastic Volterra equations with anticipating coefficients. 91b:60068
- Pikovskii, I. E. Existence and uniqueness of a strong solution of a stochastic integral equation of Itô-Volterra type. 91a:60168
- Protter, Philip *see* Pardoux, Étienne, 91b:60068
- Rynga, Irena Comparison theorems for solutions of stochastic differential equations. 91e:60181
- Sundar, P. Invertibility of stochastic flows and time reversal of solutions of SDEs driven by Lévy processes with bounded jumps. 91c:60077
- Tudor, Constantin A comparison theorem for stochastic equations with Volterra drifts. 91f:60107
- Stochastic convolutions in Hilbert spaces. 91m:60118
- Umbetzhano, D. U. (with Aliev, Sh.) The arrangement of integral curves in a neighborhood of a singular point of integro-differential equations of Volterra-Itô type. (Russian. Kazakh summary) 91j:60109
- Zanzotto, Pio Andrea On the stability of stochastic differential equations "with memory". (Italian summary) 91m:60119a
- A stability theorem for a class of stochastic differential equations "with memory". (Italian summary) 91m:60119b

Items with secondary classifications in 60H20

- DeBlassie, R. Dante Explicit semimartingale representation of Brownian motion in a wedge. 91b:60091
- Elliott, Robert James (with Kohlmann, Michael) Integration by parts and densities for jump processes. 91d:60128
- Flandoli, Franco Solution and control of a bilinear stochastic delay equation. 91c:49045
- Inaba, Hisashi Weak ergodicity of population evolution processes. 91b:92028
- Kohlmann, Michael *see* Elliott, Robert James, 91d:60128
- Kolmanovskii, V. B. (with Shaikhet, L. E.) States estimate of hereditary stochastic systems. 91b:93162
- Méléard, Sylvie (with Roelly-Coppoletta, Sylvie) A generalized equation for a continuous measure branching process. 91f:60095
- Papageorgiou, Nikolaos S. Deterministic and random Volterra integral inclusions. 91e:45003
- Pardoux, Étienne (with Peng, Shi Ge) Adapted solution of a backward stochastic differential equation. 91e:60171
- Peng, Shi Ge *see* Pardoux, Étienne, 91e:60171
- Ponomarenko, A. I. Linear stochastic differential equations with cylindrical random processes in normed spaces. 91a:60010
- Roelly-Coppoletta, Sylvie *see* Méléard, Sylvie, 91f:60095
- Rutkowski, Marek On solutions of stochastic differential equations with drift. 91e:60173
- Schwartz, Laurent La convergence de la série de Picard pour les EDS (équations différentielles stochastiques). [Convergence of the Picard series for stochastic differential equations] 91a:60157
- Equation différentielle stochastique (EDS) sur \mathbb{R}^N et sur $\mathbb{R}^N \cup \{\infty\} = S_N$. (English summary) [A stochastic differential equation in \mathbb{R}^N and $\mathbb{R}^N \cup \{\infty\} = S_N$] 91a:60158
- Shafrir, M. L. *see* Shaikhet, L. E., 91c:93075
- Shaikhet, L. E. (with Shafrir, M. L.) Linear filtering of solutions of stochastic integral equations in non-Gaussian case. (Russian summary) 91c:93075
- *see also* Kolmanovskii, V. B., 91b:93162
- Srnmova, F. V. Calculation of the energy asymptotics for the solution of a system of stochastic evolution equations. 91j:65321
- Suzuki, Masashi Applications of the Malliavin calculus to McKean equations. 91f:60097
- Tudor, Constantin ε -optimal and optimal controls for the stochastic linear-quadratic problem. 91b:93093

60H25 Random operators and equations [see also 47B80]

- Butsan, G. P. (with Kozachenko, M. Yu.) A mixed product of operator stochastic systems. 91a:60169
- Demenin, A. N. (with Diesperova, M. M.) Stochastic models that can be described by linear differential equations of evolution type with operators that are randomly changing in time. (Russian) (see 91g:60003)
- Diesperova, M. M. *see* Demenin, A. N., (91g:60003)
- Dorogovtsev, A. A. Superposition of random mappings in a Hilbert space. 91a:60170
- Fu, Jun Yi Random operator equations and inequalities in Banach spaces. 91c:60078
- Gol'dshtein, B. G. (with Gol'dshtein, M. Sh.) A central limit theorem for distribution of the action of a random potential. (Russian) 91d:60147
- Gol'dshtein, M. Sh. *see* Gol'dshtein, B. G., 91d:60147
- Kandilakis, Dimitrios (with Papageorgiou, Nikolaos S.) Properties of measurable multifunctions with stochastic domain and their applications. 91i:60162
- Key, Eric S. Lower bounds for the maximal Lyapunov exponent. 91m:60120
- Kozachenko, M. Yu. *see* Butsan, G. P., 91a:60169
- Kravets, T. N. Solution of a one-dimensional stochastic differential inclusion as a Markov process. (Russian) (see 91j:60001)
- Mao, Xue Rong Common random fixed-point theorems in probabilistic analysis. 91e:60182
- Marois, Christine Équations différentielles stochastiques multivoques discontinues avec frontière mobile. (English summary) [Discontinuous multivalued stochastic differential equations with moving boundary] 91c:60079
- Minami, Nariyuki Exponential and super-exponential localizations for one-dimensional Schrödinger operators with Lévy noise potentials. 91b:60069
- Papageorgiou, Nikolaos S. *see* Kandilakis, Dimitrios, 91i:60162
- Repin, O. N. (with Saichev, A. I.) Probability properties of a fixed point of a random operator. (Russian) (see 91g:00034)
- Saichev, A. I. *see* Repin, O. N., (91g:00034)

- Skorokhod, T. A. Stochastic semigroups on a random interval. (Russian) 91i:60163
 Sokhadze, G. A. On the prediction of solutions of nonlinear equations with Gaussian perturbation. (Russian. English and Georgian summaries) 91i:60110
 Vespi, Vincenzo Linear stochastic integrodifferential equations. 91b:60052
 Yaskolko, S. V. Unbounded random operators. (Russian) (see 91b:60030)
 Yin, Gang George On operator-valued mixings. 91f:60108
 Zhdanek, T. A. On the measurability of an operator that is inverse to a random linear operator. 91d:60148

Items with secondary classifications in 60H25

- Blanchard, Philippe (with Ma, Zhi Ming) New results on the Schrödinger semigroups with potentials given by signed smooth measures. 91m:35067
 Bohrikov, A. N. Random perturbations of an unbounded potential. 91e:47048
 Butsan, G. P. (with Daletskii, Yu. L.; Zgurovskii, M. Z.) Multiplicative methods in the theory of stochastic evolution systems. (Russian) 91k:58016
 — (with Kozachenko, M. Yu.) Representation of parametric operator stochastic systems by means of their infinitesimal systems. 91a:60015
 Cruzeiro, Ana Bela Invariant measures in hydrodynamic systems with random perturbations. 91i:60107
 Daletskii, Yu. L. see Butsan, G. P.; et al., 91k:58016
 Elezović, N. Product of random linear operators. (Serbo-Croatian summary) 91m:60009
 Fellenberg, Benno (with vom Scheidt, Jürgen) Numerische Lösung zufälliger Fredholm-scher Integralgleichungen. [Numerical solution of random Fredholm integral equations] 91a:65247
 Glaffig, Clemens Smoothness of the integrated density of states on strips. 91m:82066
 Gol'dsheid, I. Ya. (with Margulis, G. A.) Lyapunov exponents of a product of random matrices. 91j:60014
 Govindan, T. E. see Joshi, Mohan C., 91m:93139
 Grytczuk, Krystyna (with Rotkiewicz, Emilia) Random differential inclusions with convex right-hand sides. (see 91e:00021)
 Guimier, François Simplicité du spectre de Liapounoff d'un produit de matrices aléatoires sur un corps ultramétrique. (English summary) [Simplicity of the Lyapunov spectrum of a product of random matrices over an ultrametric field] 91d:28030
 Guivarch, Yves Sur une extension de la notion de loi semi-stable. (English summary) [On an extension of the notion of semistable law] 91b:60141
 de Haan, Laurens (with Resnick, Sidney I.; Rootzén, Holger; de Vries, Casper G.) Extremal behaviour of solutions to a stochastic difference equation with applications to ARCH processes. 91g:60029
 Heikkilä, Seppo On differential equations in ordered Banach spaces with applications to differential systems and random equations. 91c:34089
 Heinrich, Stefan Invertibility of random Fredholm operators. 91d:47027
 Hou, Yu Liang Some random fixed point theorems for expansive random operators and a random version of Caristi's fixed point theorem. (Chinese. English summary) 91a:47080
 Joshi, Mohan C. (with Govindan, T. E.) Local stability properties of a feedback system—deterministic and random. 91m:93139
 Klein, Abel (with Speis, Athanasios) Regularity of the invariant measure and of the density of states in the one-dimensional Anderson model. 91h:47074
 Kozachenko, M. Yu. see Butsan, G. P., 91a:60015
 Kückler, Uwe (with Rebolledo, Rolando) Continuous local martingales, local times and scale processes. 91e:60144
 Le Page, Émile Régularité du plus grand exposant caractéristique des produits de matrices aléatoires indépendantes et applications. (English summary) [Regularity of the first characteristic exponent of products of independent random matrices, and applications] 91d:60016
 Lima, Ricardo (with Rahibe, Mohamed) A crossover in the scaling law of the Lyapunov exponent. 91e:82038
 Ma, Zhi Ming see Blanchard, Philippe, 91m:35067
 Margulis, G. A. see Gol'dsheid, I. Ya., 91j:60014
 Ponomor, A. V. A theorem of Schauder type for locally defined operators. (Russian) 91i:47082
 Rahibe, Mohamed see Lima, Ricardo, 91e:82038
 Rebolledo, Rolando see Kückler, Uwe, 91e:60144
 Resnick, Sidney I. see de Haan, Laurens; et al., 91g:60029
 Rootzén, Holger see de Haan, Laurens; et al., 91g:60029
 Rotkiewicz, Emilia see Grytczuk, Krystyna, (91e:00021)
 Rutkowski, Marek Fundamental solutions of stochastic differential equations with drift. 91e:60172
 — On solutions of stochastic differential equations with drift. 91e:60173
 vom Scheidt, Jürgen see Fellenberg, Benno, 91a:65247
 Schwartz, Laurent La convergence de la série de Picard pour les EDS (équations différentielles stochastiques). [Convergence of the Picard series for stochastic differential equations] 91a:60157
 Sokhadze, G. A. On a class of nonlinear equations with random perturbations. (Russian. English and Georgian summaries) 91b:47138
 Speis, Athanasios see Klein, Abel, 91h:47074
 Szarek, Stanisław J. Spaces with large distance to l_p^n and random matrices. 91j:46023
 de Vries, Casper G. see de Haan, Laurens; et al., 91g:60029
 Zgurovskii, M. Z. see Butsan, G. P.; et al., 91k:58016

60H30 Applications of stochastic analysis (to PDE, etc.)

- Fang, Shi Zan Le calcul différentiel quasi-sûr et son application à l'estimation du noyau de la chaleur. (English summary) [Almost sure differential calculus and its application to the estimation of the heat kernel] 91f:60109
 Rebolledo, Rolando Pseudotrajectories and stability problems for stochastic dynamical systems. 91i:60164
 Items with secondary classifications in 60H30
 Ben Arous, Gérard (with Léandre, Rémi) Annulation plate du noyau de la chaleur. (English summary) [Flat vanishing of the heat kernel] 91m:60098

- Feyel, Denis (with de La Pradelle, Arnaud) Espaces de Sobolev Gaussiens. (English summary) [Gaussian Sobolev spaces] 91e:60183
 de La Pradelle, Arnaud see Feyel, Denis, 91e:60183
 Léandre, Rémi (with Russo, Francesco) Estimation de densité pour une équation des ondes faiblement perturbée par un bruit blanc. (English summary) [Density estimates for a wave equation that is slightly perturbed by a white noise] 91j:60108
 — (with Russo, Francesco) Estimation de Varadhan pour des diffusions à deux paramètres. (English summary) [Varadhan's estimate for two-parameter diffusions] 91e:60164
 — see also Ben Arous, Gérard, 91m:60098
 Russo, Francesco see Léandre, Rémi, 91e:60164 and 91j:60108

60H99 None of the above, but in this section

- Bally, Vlad Differentiability with respect to a real parameter for the solutions of a class of non-Markov stochastic equations. 91k:60069
 Bar-Shalom, Yaakov see Blom, Henk A. P., 91f:60110 and (Not in MR)
 Bellomo, N. see Gabetta, Ester, 91f:60111
 Ben Arous, Gérard Méthodes de Laplace et de la phase stationnaire sur l'espace de Wiener. (English summary) [The Laplace and stationary phase methods on Wiener space] 91h:60070
 Blom, Henk A. P. (with Bar-Shalom, Yaakov) Time-reversion of a hybrid state stochastic difference system with a jump-linear smoothing application. 91f:60110
 — (with Bar-Shalom, Yaakov) Correction to: "Time-reversion of a hybrid state stochastic difference system with a jump-linear smoothing application" [IEEE Trans. Inform. Theory 36 (1990), no. 4, 836–847]. (Not in MR)
 Bondarev, B. V. Averaging stochastic systems with weakly dependent perturbations. 91i:60165
 Butsan, G. P. (with Kozachenko, M. Yu.) Limit theorems on the convergence of infinite products for parametric stochastic operator systems. 91c:60080
 Dietz, Hans M. Representations for solutions of linear functional stochastic differential equations. 91i:60166
 Dorogovtsev, A. Ya. Necessary and sufficient conditions for existence of stationary and periodic solutions of a stochastic difference equation in Hilbert space. 91d:60149
 — see also Gorodnii, M. F., 91f:60167
 Feyel, Denis (with de La Pradelle, Arnaud) Espaces de Sobolev Gaussiens. (English summary) [Gaussian Sobolev spaces] 91e:60183
 Gabetta, Ester (with Bellomo, N.) Time evolution of the probability density and entropy functions under the action of a deterministic system in continuum physics. (Italian summary) 91f:60111
 Gorodnii, M. F. (with Dorogovtsev, A. Ya.) Stationary solutions of a two-dimensional stochastic difference equation in a Banach space. (Russian) 91f:60167
 de Haan, Laurens (with Karandikar, Rajeeva L.) Embedding a stochastic difference equation into a continuous-time process. 91e:60184
 Kadiev, R. I. Stability of solutions of linear stochastic functional-differential Itô equations. (Russian) (see 91e:34069)
 Karandikar, Rajeeva L. see de Haan, Laurens, 91e:60184
 Kolesnik, A. D. (with Turbin, A. F.) Symmetric random evolutions in R^2 . (Russian. English summary) 91f:60112
 Korolyuk, V. S. (with Svishchuk, A. V.) Semi-Markov random evolutions—phase aggregation and applications. 91e:60185
 Kozachenko, M. Yu. see Butsan, G. P., 91a:60015
 Kubo, Izumi (with Yokoi, Yoshitaka) A remark on the space of testing random variables in the white noise calculus. 91e:60186
 Kuo, Hui-Hsiung (with Sun, Tze Chien) Absolute value of white noise as a generalized Brownian functional. 91f:60168
 de La Pradelle, Arnaud see Feyel, Denis, 91e:60183
 Lobry, Claude À propos du "paradoxe" de Wong et Zakai. [On the Wong-Zakai "paradox"] 91b:60071
 Mao, Xue Rong Exponential stability for nonlinear stochastic differential equations with respect to semimartingales. 91g:60072
 — Eventual asymptotic stability for stochastic differential equations with respect to semimartingales. 91g:60073
 — Exponential stability in mean square for stochastic differential equations. 91g:60074
 Marcus, Moshe (with Mizel, Victor J.) Stochastic functional differential equations modelling materials with selective recall. 91g:60075
 Mizel, Victor J. see Marcus, Moshe, 91g:60075
 Nowak, Andrzej S. Sample solutions of random differential problems. (Serbo-Croatian summary) 91a:60171
 Nualart, David (with Üstünel, Ali Süleyman) Mesures cylindriques et distributions sur l'espace de Wiener. (English summary) [Cylindrical measures and distributions on Wiener space] 91f:60113
 — (with Üstünel, Ali Süleyman; Zakai, Moshe) Some remarks on independence and conditioning on Wiener space. 91k:60070
 Ramachandran, K. M. see Yin, Gang George, 91m:60121
 Rodkina, A. E. Stochastic functional-differential equations with respect to a semimartingale. 91d:60150
 Sun, Tze Chien see Kuo, Hui-Hsiung, 91f:60168
 Svishchuk, A. V. see Korolyuk, V. S., 91e:60185
 Tsar'kov, E. F. (with Yasnitskii, V. K.) Nonlinear stochastic functional-differential equations. (Russian) 91f:60169
 Tsyngharva, A. V. see Yasnitskii, V. K., 91b:60053
 Tudor, Constantin Approximation of delay stochastic equations with constant retardation by usual Itô equations. 91f:60114
 — A variation of constants formula for delay stochastic equations in Hilbert spaces. 91g:60076
 Turbin, A. F. see Kolesnik, A. D., 91f:60112
 Üstünel, Ali Süleyman see Nualart, David, 91f:60113 and 91k:60070
 Wang, Xiang Dong see Zhang, Dao Fa, 91j:60112
 Yan, Jia An Sur la transformée de Fourier de H. H. Kuo. [On H. H. Kuo's Fourier transform] 91e:60187

- Yasinskii, V. K. (with Tsyngaeva, A. V.) Stability of solutions of linear stochastic differential-difference equations with discontinuous trajectories. 91b:60053
 — see also Tsarkov, E. F., 91b:60169
 Yin, Gang George (with Ramachandran, K. M.) A differential delay equation with wideband noise perturbations. 91m:60121
 Yokoi, Yoshitaka see Kubo, Izumi, 91c:60186
 Yu, Yao Qi Invariant probability measures for a class of stochastic systems with jumps. (Chinese) 91j:60111
 Zakai, Moshe see Nualart, David; et al., 91k:60070
 Zhang, Dao Fa (with Wang, Xiang Dong) Some notes on stochastic functional-differential equations. (Chinese. English summary) 91j:60112

Items with secondary classifications in 60H99

- Ahlbrecht, N. (with Sperling, L.) Biorthogonale Entwicklungen der Verteilungsdichte und ihre Anwendung zur Analyse stochastischer Systeme. II. Beispiele. (English and Russian summaries) [Biorthogonal expansions of the distribution density and their application in the analysis of stochastic systems. II. Examples] 91k:93076
 Albeverio, Sergio (with Brasche, Johannes; Röckner, Michael) Dirichlet forms and generalized Schrödinger operators. 91c:47103
 — (with Fenstad, Jens Erik; Heegh-Krohn, Raphael J.; Lindström, Tom L.) ★ Нестандартные методы в стохастическом анализе и математической физике. (Russian) [Nonstandard methods in stochastic analysis and mathematical physics] 91i:00001
 — (with Cruzeiro, Ana Bela) Global flows with invariant (Gibbs) measures for Euler and Navier-Stokes two-dimensional fluids. 91j:58030
 Belavkin, V. P. A stochastic calculus of quantum input-output processes and quantum nondemolition filtering. (Russian) 91f:81074
 Brasche, Johannes see Albeverio, Sergio; et al., 91c:47103
 Bulycher, Yu. G. (with Pogonyshv, S. A.) Methods for digital modeling of stochastic evolution differential equations. (Russian) 91b:65016
 Butsaa, G. P. The mixed product of dependent stochastic operator systems. 91a:60016
 Cruzeiro, Ana Bela see Albeverio, Sergio, 91j:58030
 Dmitriev, A. S. (with Kislov, V. Ya.) ★ Стохастические колебания в радиофизике и электронике. (Russian) [Stochastic oscillations in radiophysics and electronics] 91b:58237
 Duffie, Darrell (with Jackson, Matthew O.) Optimal hedging and equilibrium in a dynamic futures market. 91b:90025
 Fenstad, Jens Erik see Albeverio, Sergio; et al., 91i:00001
 Frigerio, Alberto (with Maassen, Hans) Quantum Poisson processes and dilations of dynamical semigroups. 91b:46056
 Gulinskii, O. V. see Veretennikov, A. Yu., 91c:60115
 Gulyaev, Yu. V. see Dmitriev, A. S., 91b:58237
 Haake, Fritz see Lenz, Georg, 91j:81022
 Hida, Takeyuki (with Potthoff, J.; Streit, Ludwig) White noise analysis and applications. 91k:60086
 Heegh-Krohn, Raphael J. see Albeverio, Sergio; et al., 91i:00001
 Huang, Ch'i Jui Random perturbation and its application to simulated annealing. (see 91c:00022)
 Jackson, Matthew O. see Duffie, Darrell, 91b:90025
 Kholeva, A. S. A quantum stochastic calculus. (Russian) 91f:81075
 Kislov, V. Ya. see Dmitriev, A. S., 91b:58237
 Korenevskii, D. G. Absolute (with respect to nonlinearity and delay) mean-square stability of stochastic differential-difference automatic control systems. (Russian) 91i:93121
 Koval', P. A. Convergence to zero of Gaussian sequences, and the asymptotic behavior of solutions of stochastic recurrence equations. (Russian) 91i:60105
 Lenz, Georg (with Haake, Fritz) Transitions between universality classes of random matrices. 91j:81022
 Lépine, Dominique (with Nualart, David; Sanz, Marta) Dérivation stochastique de diffusions réfléchies. (English summary) [Stochastic differentiation of reflected diffusions] 91c:60170
 Lindsay, J. M. Quantum stochastic calculus with integral kernels. I. (see 91j:60003)
 Lindström, Tom L. see Albeverio, Sergio; et al., 91i:00001
 Maassen, Hans Quantum stochastic calculus with integral kernels. II. The Wigner-Weisskopf atom. (see 91j:60003)
 — see also Frigerio, Alberto, 91b:46056
 Markov, Konstantin Z. On the factorial functional series and their application to random media. 91m:58070
 McKeague, Ian W. (with Utikal, Klaus J.) Stochastic calculus as a tool in survival analysis: a review. 91h:62002
 Nualart, David see Lépine, Dominique; et al., 91c:60170
 Parthasarathy, Kalyanapuram Rangachari (with Sinha, Kalyan B.) Stop times in Fock space stochastic calculus. (see 91j:60003)
 Pogonyshv, S. A. see Bulycher, Yu. G., 91b:65016
 Potthoff, J. see Hida, Takeyuki; et al., 91k:60086
 Rajeev, B. On semi-martingales associated with crossings. 91j:60074
 Röckner, Michael see Albeverio, Sergio; et al., 91c:47103
 Sanz, Marta see Lépine, Dominique; et al., 91c:60170
 Schrömann, Michael Noncommutative stochastic processes with independent and stationary increments satisfy quantum stochastic differential equations. 91m:46100
 Shelyakov, A. Yu. Weak convergence of processes that are constructed with respect to solutions of a class of systems of linear equations. (Russian) 91m:60046
 (Shubin, M. A.) see Albeverio, Sergio; et al., 91i:00001
 Sinha, Kalyan B. see Parthasarathy, Kalyanapuram Rangachari, (91j:60003)
 Sperling, L. see Ahlbrecht, N., 91k:93076
 Streit, Ludwig see Hida, Takeyuki; et al., 91k:60086
 Takahashi, Yôichirô An integral representation on the path space for scattering length. 91j:35083
 Taniguchi, Takeshi Stability theorems of stochastic difference equations. 91b:39009
 Utikal, Klaus J. see McKeague, Ian W., 91h:62002
 Veretennikov, A. Yu. (with Gulinskii, O. V.) The mixing rate and the averaging principle for recursive stochastic procedures. 91c:60115

(Zvonkin, A. K.) see Albeverio, Sergio; et al., 91i:00001

60Jxx Markov processes

- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 91j:60113a
 Portenko, N. I. (with Skorokhod, A. V.; Shurenkov, V. M.) Markov processes. (Russian) 91j:60113b
 Shurenkov, V. M. see Portenko, N. I.; et al., 91j:60113b
 Skorokhod, A. V. see Portenko, N. I.; et al., 91j:60113b

Items listed otherwise than by author

- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 46. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 46] 91j:60113a
 Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 46. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 46] 91j:60113a

Items with secondary classifications in 60Jxx

- Doob, J. L. ★ Stochastic processes. 91d:60002

60J05 Markov processes with discrete parameter

- Atkinson, Bruce W. Homogeneity for two-sided discrete Markov processes. 91b:60170
 Barnsley, Michael F. (with Demko, Stephen; Elton, John H.; Geronimo, Jeffrey S.) Erratum: "Invariant measures for Markov processes arising from iterated function systems with place-dependent probabilities" [Ann. Inst. H. Poincaré Probab. Statist. 24 (1988), no. 3, 367–394; MR 89k:60088]. 91b:60054
 Belyakov, K. I. A criterion for the Feller property of Markov process operators. (Russian) 91c:60188
 Bolthausen, Erwin (with Schmock, Uwe) On the maximum entropy principle for uniformly ergodic Markov chains. 91c:60081
 Bondareff, Heikki A comparison of the ordinary and a varying parameter exponential smoothing. 91a:60172
 Bougerol, Philippe Limit theorem for products of random matrices with Markovian dependence. (see 91j:60003)
 Demko, Stephen see Barnsley, Michael F.; et al., 91b:60054
 Diebolt, Jean Loi stationnaire et loi des fluctuations pour le processus autorégressif général d'ordre un. (English summary) [Estimates for the tail of the stationary density function of certain nonlinear autoregressive processes of order one] 91d:60151
 Elton, John H. see Barnsley, Michael F.; et al., 91b:60054
 Fessler, Josef ★ Konvergenzsätze für vollständig monotone Markov-Ketten auf unendlichen Produkträumen. (German) [Convergence theorems for completely monotone Markov chains on infinite product spaces] 91a:60173
 Feyel, Denis Transformations de Hilbert-Riesz. (English summary) [Hilbert-Riesz transforms] 91j:60114
 Fernsini, Ettore 2D Markov chains. 91j:60115
 Geronimo, Jeffrey S. see Barnsley, Michael F.; et al., 91b:60054
 Gizbrekht, N. V. On the invariance principle for a sum of random variables that are defined on a homogeneous Markov chain. 91f:60115
 Guillep, Laurent Mesures invariantes sur des ensembles autosimilaires. [Invariant measures on self-similar sets] 91k:60071
 Kashtanov, Yu. N. The rate of convergence of the joint distribution in the method of generations. 91d:60152
 Kijima, Masaaki Uniform monotonicity of Markov processes and its related properties. 91d:60153
 Komashko, O. V. Generalized potential of a Markov chain. (Russian) 91m:60122
 Leguesdon, J. P. Marche aléatoire sur le semi-groupe des contractions de \mathbb{R}^d . Cas de la marche aléatoire sur \mathbb{R} , avec choc élastique en zéro. (English summary) [Random walk on the semigroup of contractions of \mathbb{R}^d . Case of a random walk on \mathbb{R} , with elastic barrier at zero] 91d:60154
 Mindlin, D. S. On tail σ -algebras of Markov processes. (Russian) (see 91b:00030)
 Mokkadem, Abdelkader Propriétés de mélange des processus autorégressifs polynomiaux. (English summary) [Mixing properties of polynomial autoregressive processes] 91j:60171
 Peigné, Marc Marche de Markov sur le semi-groupe des contractions de \mathbb{R}^d . (English summary) [Markov walks on the contraction semigroup of \mathbb{R}^d] 91g:60077
 Perunić, P. M. Stochastic structure of some completely monotone functions. 91c:60189
 Rubino, Gerardo (with Sericola, Bruno) Sojourn times in finite Markov processes. 91d:60155
 Schmock, Uwe see Bolthausen, Erwin, 91c:60081
 Sericola, Bruno see Rubino, Gerardo, 91d:60155
 Smirnov, S. N. A converse of B. A. Sevast'yanov's ergodic theorem. 91a:60174

Items with secondary classifications in 60J05

- Arnold, Barry C. (with Hallett, J. Terry) A characterization of the Pareto process among stationary stochastic processes of the form $X_n = c \min(X_{n-1}, Y_n)$. 91f:60102
 Berkovich, F. D. An integral equation and its discrete analogue arising in the theory of Markov processes. 91a:45013
 Bolthausen, Erwin Maximum entropy principles for Markov processes. 91m:60049
 Brusilovskii, I. L. see Silvestrov, D. S., 91a:60090
 De Masi, A. (with Ferrari, Pablo Augusto; Goldstein, Sheldon; Wick, W. David) An invariance principle for reversible Markov processes. Applications to random motions in random environments. 91c:60107
 Ferrari, Pablo Augusto see De Masi, A.; et al., 91c:60107
 Foguel, Shaul R. A new approach to the study of Harris type Markov operators. 91a:47039
 Goldstein, Sheldon see De Masi, A.; et al., 91c:60107
 Grigorescu, Șerban see Iosifescu, Marius, 91j:60098
 Grübel, Rudolf (with Pitts, Susan M.) Perturbation and rearrangement aspects of renewal and harmonic renewal sequences. 91f:60146

- Hallett, J. Terry *see* Arnold, Barry C., 91i:60102
- Harrison, J. Michael (with Williams, Ruth J.) On the quasireversibility of a multiclass Brownian service station. 91i:60204
- Hooghiemstra, G. *see* Resing, J. A. C.; et al., 91m:90068
- Iosifescu, Marius (with Grigorescu, Șerban) ★ Dependence with complete connections and its applications. 91j:60098
- Jain, Narech C. Large deviation lower bounds for additive functionals of Markov processes. 91g:60037
- Jensen, Jens Ledet Asymptotic expansions for strongly mixing Harris recurrent Markov chains. 91d:60055
- Keane, Michael *see* Resing, J. A. C.; et al., 91m:90068
- Key, Eric S. Lower bounds for the maximal Lyapunov exponent. 91m:60120
- Kifer, Yuri A discrete-time version of the Wentzell-Freidlin theory. 91i:60077
- Klein, David *see* Yang, Wei-Shih, 91a:60136
- Koval, V. A. Comparison principles for multidimensional Gaussian Markov and Gaussian m -Markov sequences. (Russian) 91m:60072
- Neuts, Marcel F. On the packet stream generated by a random flow of calls of random durations. 91f:60086
- Olsher, G. J. *see* Resing, J. A. C.; et al., 91m:90068
- Pitts, Susan M. *see* Grübel, Rudolf, 91f:60146
- Pfützelberger, Klaus A characterization of random-coefficient AR(1) models. 91d:60171
- Resing, J. A. C. (with de Vries, R. E.; Hooghiemstra, G.; Keane, Michael; Olsher, G. J.) Asymptotic behavior of random discrete event systems. 91m:90068
- Sifstrevström, D. S. (with Brusilovskii, I. L.) An invariance principle for sums of stationarity connected random variables satisfying a uniform strong mixing condition with a weight. 91a:60090
- de Vries, R. E. *see* Resing, J. A. C.; et al., 91m:90068
- Wick, W. David *see* De Masi, A.; et al., 91e:60107
- Williams, Ruth J. *see* Harrison, J. Michael, 91i:60204
- Wolff, Ronald W. ★ Stochastic modeling and the theory of queues. 91a:60228
- Yang, Wei-Shih (with Klein, David) Self-repelling processes associated with Brownian motions. 91a:60136

60J10 Markov chains with discrete parameter

- Aldous, David J. Threshold limits for cover times. 91m:60123
- Anantharam, Venkateshchalam (with Tsoucas, Pantelis) A proof of the Markov chain tree theorem. 91b:60055
- Anderson, T. W. Second-order moments of a stationary Markov chain and some applications. 91a:60175
- Brandt, Andreas (with Lisek, B.; Nerman, Olle) On stationary Markov chains and independent random variables. 91h:60072
- Bratichuk, N. S. Boundary problems for sums of random variables defined on a countable-valued Markov chain. II. 91c:60082
- Bucklew, James A. (with Ney, Peter; Sadowsky, John S.) Monte Carlo simulation and large deviations theory for uniformly recurrent Markov chains. 91m:60124
- Chachkhiani, T. I. *see* Ronin, E. L. (Not in MR)
- Chan, K. S. A note on the geometric ergodicity of a Markov chain. 91b:60056
- Chassaing, Philippe Processus de Markov transitifs et marches aléatoires sur les groupes. (English summary) [State-transitive Markov processes and random walks on groups] 91m:60125
- Chen, Yong Yi An algorithm for the state space decomposition of a finite Markov chain. (Chinese. English summary) (Not in MR)
- Chrysaphinou, Ourania (with Papastavridis, Stavros G.) The occurrence of sequence patterns in repeated dependent experiments. 91e:60190
- Cohn, Harry (with Nerman, Olle) On products of nonnegative matrices. 91m:60126
- Crell, Bernd A note on time evolutions satisfying anti- H -theorems. (see 91b:60039)
- Davis, Burgess Loss of recurrence in reinforced random walk. 91e:60191
- Diaconis, Persi (with Fill, James Allen) Strong stationary times via a new form of duality. 91m:60127
- (with Graham, Ronald L.; Morrison, J. A.) Asymptotic analysis of a random walk on a hypercube with many dimensions. 91g:60078
- Dukhovny, Alexander M. Markov chains with quasi-Toeplitz transition matrix. 91a:60176
- Markov chains with quasi-Toeplitz transition matrix: first zero hitting. 91d:60156
- Markov chains with quasi-Toeplitz transition matrix: applications. 91e:60192
- Fayolle, Guy On random walks arising in queueing systems: ergodicity and transience via quadratic forms as Lyapunov functions. I. 91d:60157
- Fill, James Allen *see* Diaconis, Persi, 91m:60127
- Filono, Yu. P. A criterion for the ergodicity of discrete homogeneous Markov chains. 91d:60158
- Mean times for reaching sets of states for Markov chains. 91e:60193
- Markov chains with a finitely partitioned state space. 91a:60177
- Graham, Ronald L. *see* Diaconis, Persi; et al., 91g:60078
- Gabelade, A. K. Some properties of probability measures of finite-valued Markov chains. (Russian) 91i:60172
- Separable properties of probability measures of finite-valued Markov chains. (Russian) (see 91j:60006)
- Construction of probability measures of finite-valued Markov chains. (Russian) 91j:60116
- Gudder, Stanley *see* Marbeau, Jocelyne, 91i:60173
- Hajnal, John The theory of shuffling—an application of nonhomogeneous Markov chains. (see 91j:60003)
- Harrison, Victor (with Smirnov, S. N.) Jonction maximale en distribution dans le cas markovien. (English summary) [Maximal distributional junction in the Markov case] 91g:60079
- Hunter, Jeffrey J. Parametric forms for generalized inverses of Markovian kernels and their applications. 91f:60116
- The computation of stationary distributions of Markov chains through perturbations. 91m:60128

- Jacob, Christine Ergodicité dans les modèles autorégressifs périodiques. (English summary) [Ergodicity in periodic autoregressive models] 91d:60159
- Kalpaizidou, Sofia On the growth function of circuit processes. 91e:60194
- On transience of circuit processes. 91m:60129
- Kelly, Douglas (with Simons, Gordon) Markov processes with infinitely divisible limit distributions: some examples. 91e:60195
- Kijima, Masaaki On transition probabilities of skip-free Markov chains. 91d:60160
- Lakatos, László State probabilities for a continuous Markov chain with bounded positive jumps. (Russian) (see 91j:60006)
- Latoche, Guy *see* Louchard, Guy, 91k:60072
- Lejanovskij, Antonin Coefficients of ergodicity generated by nonsymmetrical vector norms. 91f:60117
- Lisek, B. *see* Brandt, Andreas; et al., 91h:60072
- Logunov, P. L. Stability of the stationary distribution of a Markov chain. (Russian) (see 91h:60003)
- Lotor, V. I. On the asymptotics of distributions in problems with two boundaries for random walks defined on a Markov chain. (Russian) 91e:60196
- Louchard, Guy (with Latoche, Guy) Geometric bounds on iterative approximations for nearly completely decomposable Markov chains. 91k:60072
- Marbeau, Jocelyne (with Gudder, Stanley) Analysis of a quantum Markov chain. (French summary) 91i:60173
- Morrison, J. A. *see* Diaconis, Persi; et al., 91g:60078
- Nagaev, S. V. Ergodic theory of homogeneous Markov chains. (Russian) 91d:60175
- Ergodic theorems for homogeneous Markov chains. 91e:60197
- Nerman, Olle *see* Brandt, Andreas; et al., 91h:60072 and Cohn, Harry, 91m:60126
- Neuts, Marcel F. ★ Structured stochastic matrices of $M/G/1$ type and their applications. 91d:60161
- Ney, Peter *see* Bucklew, James A.; et al., 91m:60124
- Novak, S. Yu. Asymptotic expansions in a problem on the maximum length of series of "successes" in a Markov chain with two states. (Russian) 91e:60198
- Papastavridis, Stavros G. *see* Chrysaphinou, Ourania, 91e:60190
- Peigné, Marc Marches aléatoires à pas markoviens sur le semi-groupe des contractions de \mathbb{R}^d . (English summary) [Random walk with Markovian increments on the contraction semigroup of \mathbb{R}^d] 91e:60199
- Piccioni, Mauro On the asymptotic behaviour of the predictor of a binary Markov chain. (Italian summary) 91m:60130
- Ronin, E. L. (with Chachkhiani, T. I.) On analyzing weakly connected ergodic Markov chains. (Russian) (Not in MR)
- Rosenkrantz, Walter A. Ergodicity conditions for two-dimensional Markov chains on the positive quadrant. 91a:60178
- Sadowsky, John S. *see* Bucklew, James A.; et al., 91m:60124
- Sampath Kumar, V. S. Some studies of denumerable Markov chains and a queueing model. (Not in MR)
- Some studies of denumerable Markov chains and a queueing model. 91c:60083
- Sengupta, Bhaskar Phase-type representations for matrix-geometric solutions. 91e:60200
- Sericola, Bruno Closed-form solution for the distribution of the total time spent in a subset of states of a homogeneous Markov process during a finite observation period. 91m:60131
- Simons, Gordon *see* Kelly, Douglas, 91e:60195
- Smirnov, S. N. Construction of two-sided estimates for the moments of stationary distribution by the method of probe functions. (Russian) (see 91g:60003)
- *see also* Harrison, Victor, 91g:60079
- Tsaklidis, G. (with Vassiliou, P.-C. G.) V -matrices as covariance matrices in homogeneous Markov systems. 91e:60201
- (with Vassiliou, P.-C. G.) Infinite products of matrices with some negative elements and row sums equal to one. 91e:60202
- Tsoucas, Pantelis *see* Anantharam, Venkateshchalam, 91b:60055
- Vallander, S. S. Occupation times for inhomogeneous Markov chains with discrete time. (Russian) 91i:60174
- Vassiliou, P.-C. G. *see* Tsaklidis, G., 91e:60201 and 91e:60202
- Voit, Michael Central limit theorems for random walks on N_0 that are associated with orthogonal polynomials. 91j:60117
- Yeh, Hsiao-Chen One discrete time series model for fat-tailed integer random variables: Zipf process. 91i:60175

Items with secondary classifications in 60J10

- Aldous, David J. The random walk construction of uniform spanning trees and uniform labelled trees. 91h:60013
- Arapostathis, Aristotle (with Marcus, Steven I.) Analysis of an identification algorithm arising in the adaptive estimation of Markov chains. 91a:93061
- Banjević, Dragan On order statistics in waiting time for runs in Markov chains. 91f:60015
- Berman, Kenneth A. (with Kosnowa, Mokhtar H.) Random paths and cuts, electrical networks, and reversible Markov chains. 91g:94035
- Buffet, E. (with Pulé, J. V.) On Lushnikov's model of gelation. 91f:82048
- Celant, G. Some statistical problems associated with singular spatial stochastic processes. (Italian. English and French summaries) 91a:60131
- Coulhon, Thierry (with Saloff-Coste, Laurent) Puissances d'un opérateur régularisant. (English summary) [Powers of a regularizing operator] 91j:43002
- (with Saloff-Coste, Laurent) Marches aléatoires non symétriques sur les groupes unimodulaires. (English summary) [Nonsymmetric random walks on unimodular groups] 91j:43003
- Davis, Burgess Reinforced random walk. 91a:60179
- Dwork, Cynthia (with Stockmeyer, Larry) A time complexity gap for two-way probabilistic finite-state automata. 91k:68148
- Formanov, Sh. K. Estimates of the rate of convergence in the local limit theorem for countable Markov chains. (see 91j:60003)
- Fornasini, Ettore 2D Markov chains. 91j:60115
- Fygeson, Mendel A fundamental matrix for regular semi-Markov processes. 91e:60255
- Gasterer, Nina Laws of large numbers for the annealing algorithm. 91i:60086

- Glasserman, Paul Discrete-time "inversion" and derivative estimation for Markov chains. 91j:62119
- Goldie, Charles M. Records, permutations and greatest convex minorants. 91a:60138
- Goldstein, Jerome A. (with Rieder, Gisèle Ruiz) Continuous dependence of ergodic limits. 91h:47020
- Grünbaum, F. Alberto Renormalization of exit probabilities and a theorem of Poincaré. 91k:58120
- Hartfiel, D. J. (with Seneta, Eugene) A note on semigroups of regular stochastic matrices. 91m:15031
- Ignatyuk, I. A. (with Malyshev, V. A.) Cluster expansion for locally interacting Markov chains. (Russian) 91f:60187
- Jerrum, Mark see Sinclair, Alistair, 91g:68084
- Johnson, Mary A. (with Taaffe, Michael R.) Matching moments to phase distributions: nonlinear programming approaches. 91j:90096a
- (with Taaffe, Michael R.) Matching moments to phase distributions: density function shapes. 91j:90096b
- Kirichuk, P. A. The central limit theorem for a sum of Hilbert-space-valued random elements defined on a periodic Markov chain. (Russian) (Not in MR)
- Refining the central limit theorem for a sum of random variables that are defined on a periodic Markov chain. (Russian) 91e:60067
- Konowa, Mekhtar H. see Berman, Kenneth A., 91g:94035
- Kühne, Rolf (with Rhodius, Adolf) A characterization of Dobrushin's coefficient of ergodicity. (German and Russian summaries) 91g:15012
- Levental, Shlomo Uniform CLT for Markov chains with a countable state space. 91d:60059
- Malyshev, V. A. see Ignatyuk, I. A., 91f:60187
- Marcus, Steven I. see Arapostathis, Aristotle, 91a:93061
- Mehran, Farhad Analysis of discrete longitudinal data: infinite-lag Markov models. (see 91k:62004)
- Meyn, Sean P. Ergodic theorems for discrete time stochastic systems using a stochastic Lyapunov function. 91d:93075
- Nicolis, C. see Nicolis, G., 91h:82024
- Nicolis, G. (with Nicolis, C.) Chaotic dynamics, Markovian coarse-graining and information. 91h:82024
- Perunić, P. M. Stochastic structure of some completely monotone functions. 91e:60189
- Puk, J. V. see Buffet, E., 91h:82048
- Rhodius, Adolf On almost scrambling stochastic matrices. 91h:15024
- see also Kühne, Rolf, 91g:15012
- Rieder, Gisèle Ruiz see Goldstein, Jerome A., 91h:47020
- Saloff-Coste, Laurent see Coulhon, Thierry, 91j:43002 and 91j:43003
- Samdanchap, R. T. see Zhdanok, A. I., 91e:54061
- Seneta, Eugene see Hartfiel, D. J., 91m:15031
- Sinclair, Alistair (with Jerrum, Mark) Approximate counting, uniform generation and rapidly mixing Markov chains. 91g:68084
- Stadje, Wolfgang Bin-packing problems for a renewal process. (French summary) 91j:60220
- Stockmeyer, Larry see Dwork, Cynthia, 91k:68148
- Taaffe, Michael R. see Johnson, Mary A., 91j:90096a and 91j:90096b
- Varadarajan, Ravi Partitioning multi-edge graphs. 91e:68123
- Wagoner, J. B. Eventual finite order generation for the kernel of the dimension group representation. 91a:54055
- Zhdanok, A. I. (with Samdanchap, R. T.) Representation of Gelfand compactification by the space of ultrafilters, and invariant measures of Markov chains. (Russian) 91e:54061
- ### 60J15 Random walks
- Abdoun, David J. Hitting times for random walks on vertex-transitive graphs. 91e:60203
- Alm, Sven Erick (with Janson, Svante) Random self-avoiding walks on one-dimensional lattices. 91e:60204
- Arora, D. (with Bhatia, D. P.; Prasad, M. A.) Average versus typical mean first-passage time in an asymmetric random walk in a random medium. (Not in MR)
- Assmusen, Søren Aspects of matrix Wiener-Hopf factorisation in applied probability. 91e:60205
- Austraskas, A. A limit theorem for a random walk in a reversible random environment. 91k:60073
- Auer, Peter The circle homogeneously covered by random walk on \mathbb{Z}^2 . 91g:60080
- Bhat, U. Narayan see Lal, Ram, 91h:60074
- Bhatia, D. P. see Arora, D.; et al., (Not in MR)
- Burdzy, Krzysztof (with Lawler, Gregory F.; Polaski, Thomas) On the critical exponent for random walk intersections. 91h:60073
- Cherkasenko, V. P. Recurrence or transience of a random walk on several lines with weak crossings between them. (Russian) 91f:60176
- Cohen, J. W. On entrance time distributions for two-dimensional random walks. 91e:60206
- Csáki, Endre (with Mohanty, S. G.; Saran, Jagdish) On random walks in a plane. 91g:60081
- Davis, Burgess Reinforced random walk. 91a:60179
- Derriennic, Yves (with Lin, Michael) On pointwise convergence in random walks. 91e:60207
- Devroye, Luc (with Sbihi, Amine) Random walks on highly symmetric graphs. 91k:60074
- (Diaconis, Persi) see Harel, Arie, 91d:60163
- Drachkin, L. M. Asymptotic analysis of boundary functionals of a regenerative random walk. (Russian. English summary) 91f:60084
- Falin, G. I. Some exact formulas for two-dimensional random walks with applications to interacting queues. (Russian) 91f:60118
- Fryer, M. J. see Winsten, C. B., (Not in MR)
- Gadzhiev, A. G. The random walk of particles along a ring. (Russian) 91m:60132
- Giorno, V. (with Nobile, A. G.) On the distribution of the range of an asymmetric random walk. 91g:60082
- Greven, Andreas Symmetric exclusion on random sets and a related problem for random walks in random environment. 91f:60118
- Griffin, Peter Accelerating beyond the third dimension: returning to the origin in simple random walk. 91g:60083
- Grünbaum, F. Alberto Relating microscopic and macroscopic parameters for a 3-dimensional random walk. 91d:60162
- Gut, Allan Converse results for existence of moments for stopped random walks. (see 91j:60004)
- Harel, Arie Letter to the editor on: "Honest Bernoulli excursions" [J. Appl. Probab. 25 (1988), no. 3, 464–477; MR 89m:60163] by L. Smith and P. Diaconis. 91d:60163
- Janson, Svante see Alm, Sven Erick, 91e:60204
- Kadankov, V. F. Some identities for an integer random walk. (Russian) (see 91j:60006)
- Kaplan, B. I. Some functionals of a Bernoulli walk. (Russian) 91g:60084
- Klein Hanefeld, L. A. (with Pittenger, A. O.) Escape time for a random walk from an orthant. 91i:60177
- Korolyuk, D. V. Asymptotics of the time of attaining a distant level by a random walk with delay. (Russian) 91h:60178
- Lai, Ram (with Bhat, U. Narayan) Some explicit results for correlated random walks. 91h:60074
- Lawler, Gregory F. The infinite self-avoiding walk in high dimensions. 91d:60164
- Intersections of random walks with random sets. 91a:60180
- see also Burdzy, Krzysztof; et al., 91h:60073
- Litchikov, A. V. A multidimensional model of a random walk in a random environment. (Russian) 91h:60057
- On the solution of a problem of Kesten. 91m:60133
- Lia, Michael see Derriennic, Yves, 91e:60207
- Lyons, Russell Random walks and percolation on trees. 91h:60179
- Miyazaki, Hiroshi (with Tanaka, Hiroshi) A theorem of Pitman type for simple random walks on \mathbb{Z}^d . 91a:60181
- Mohanty, S. G. see Csáki, Endre; et al., 91g:60081
- Muzrapov, S. A. Boundary functionals of a bounded regenerative random walk process. (Russian) 91j:60119
- The limit distribution of the hitting time of a regenerative random walk with reflection. (Russian. Ukrainian summary) 91j:60120
- Nobile, A. G. see Giorno, V., 91g:60082
- Pittenger, A. O. see Klein Hanefeld, L. A., 91i:60177
- Polaski, Thomas see Burdzy, Krzysztof; et al., 91h:60073
- Prasad, M. A. see Arora, D.; et al., (Not in MR)
- Pruitt, William E. The rate of escape of random walk. 91h:60180
- Révész, Pál Simple symmetric random walk in \mathbb{Z}^d . 91c:60085
- Roerdink, J. B. T. M. A Markov chain identity and monotonicity of the diffusion constants for a random walk in a heterogeneous environment. 91m:60134
- Sakhaeva, D. M. see Zuparov, T. M., (91b:00030)
- Saran, Jagdish see Csáki, Endre; et al., 91g:60081
- Sbihi, Amine see Devroye, Luc, 91k:60074
- Scott, Damien A non-integral-dimensional random walk. 91h:60058
- Shur, M. G. On limit theorems for ratios generated by random walks in homogeneous spaces. II. 91d:60165
- Erratum: "On limit theorems for ratios generated by random walks in homogeneous spaces. II" [Teor. Veroyatnost. i Primenen. 34 (1989), no. 3, 516–527; MR 91d:60165]. (Russian) (Not in MR)
- de Smit, Jos H. A. The supremum of a random walk in a Markovian environment. (see 91j:60083)
- (Smith, Laurel A.) see Harel, Arie, 91d:60163
- Smith, Philip L. A note on the distribution of response times for a random walk with Gaussian increments. (Not in MR)
- Stadje, Wolfgang Exact probability distributions for noncorrelated random walk models. 91g:60085
- Tanaka, Hiroshi see Miyazaki, Hiroshi, 91a:60181
- Telcs, András Spectra of graphs and fractal dimensions. I. 91k:60075
- Winsten, C. B. (with Fryer, M. J.) Duality properties of a one-dimensional random walk and a new computational algorithm. (Not in MR)
- Yadrenko, V. M. An extremal problem for a Markov chain that describes the simplest random walk with a reflection. (Russian) 91a:60182
- Zhang, Yuan Lin The method of generating for a class of correlated random walk problems. (Chinese. English summary) (Not in MR)
- Zhdanova, Yu. D. Distribution of the time of attainment for a random walk on a finite solvable group. 91a:60183
- Zuparov, T. M. (with Sakhaeva, D. M.) Some problems on a symmetric random walk on a k -dimensional lattice. (Russian) (see 91b:00030)
- Items with secondary classifications in 60J15
- Amiry, A. A. (with Balazs, N. L.) Clusters in a one-dimensional random walk. 91m:82121
- Apolloni, Bruno (with Carvalho, Maria Conceição V.; de Falco, Diego) Quantum stochastic optimization. 91a:90137
- Aslangul, Claude (with Pottier, Noëlle; Saint-James, Daniel) Random walk in a one-dimensional random medium. 91d:82037
- Assmusen, Søren Exponential families and regression in the Monte Carlo study of queues and random walks. 91k:65019
- Baker, B. Mitchell (with Handelman, D. E.) Random walks, K_0 -theory for AF algebras, and classical statistical mechanics. (see 91g:47002)
- Balazs, N. L. see Amiry, A. A., 91m:82121
- Bedford, Tim On Weierstrass-like functions and random recurrent sets. 91c:26010
- Biane, Philippe Marches de Bernoulli quantiques. [Quantum Bernoulli walks] 91k:46071
- Bouhalk, Mostafa (with Gallardo, Léonard) Une loi des grands nombres et un théorème limite central pour les chaînes de Markov sur \mathbb{N}^2 associées aux polynômes discaux. (English summary) [A law of large numbers and a central limit theorem for disk-polynomial Markov chains in \mathbb{N}^2] 91c:60023
- Burdzy, Krzysztof (with Lawler, Gregory F.) Rigorous exponent inequalities for random walks. 91a:60271
- Carvalho, Maria Conceição V. see Apolloni, Bruno; et al., 91a:90137
- Cerrito, P. B. A complete characterization of stochastic processes defined on regular semigroups with applications to stochastic models. 91h:60009
- Colin de Verdière, Yves Comment distribuer des points uniformément sur une sphère?

- (d'après Lubotzky, Phillips et Sarnak). [How can points be distributed uniformly over a sphere? (following Lubotzky, Phillips et Sarnak)] 91a:11047
- Coulhon, Thierry (with Saloff-Coste, Laurent) Puissances d'un opérateur régularisant. (English summary) [Powers of a regularizing operator] 91j:43002
- (with Saloff-Coste, Laurent) Marches aléatoires non symétriques sur les groupes unimodulaires. (English summary) [Nonsymmetric random walks on unimodular groups] 91j:43003
- Csörgő, Miklós (with Horváth, Lajos) On best possible approximations of local time. 91e:60224
- Dajani, Karma Genericity of nontrivial H -superrecurrent H -cocycles. 91c:28022
- Darling, R. W. R. (with Mukherjee, Arunava) Probability measures on semigroups of nonnegative matrices. 91m:60016
- Davis, Burgess Loss of recurrence in reinforced random walk. 91e:60191
- De Coninck, Joël (with Dunlop, François; Menu, Frédéric) Exact results for a meniscus in a three-phase system within an SOS-type approximation. 91m:82055
- Duffield, N. G. A large deviation principle for the reduction of product representations. 91d:60012
- Dunlop, François see De Coninck, Joël; et al., 91m:82055
- De Falco, Diego see Apolloni, Bruno; et al., 91a:90137
- Ferreira, Irene The probability of survival for the biased voter model in a random environment. 91i:60276
- Gallardo, Léonard see Bouhaik, Mostafa, 91c:60023
- Gaveau, Bernard (with Schulman, Lawrence S.) Charged polymer in an electric field. 91i:82034
- Guivarc'h, Yves Propriétés ergodiques, en mesure infinie, de certains systèmes dynamiques fibrés. (English summary) [Ergodic properties, in infinite measure, of certain fibered dynamical systems] 91b:58190
- (with Raugi, Albert) Propriétés de contraction d'un semi-groupe de matrices inversibles. Coefficients de Liapunov d'un produit de matrices aléatoires indépendantes. (English summary) [Contraction properties of an invertible matrix semigroup. Lyapunov coefficients of a product of independent random matrices] 91b:22006
- Handelman, D. E. see Baker, B. Mitchell, 91g:47002
- Hernández-Machado, A. see Yokoi, Carlos S. O.; et al., 91c:82058
- Higman, Gábor Invariant measures and random walks on the semigroup of matrices. (see 91f:60002)
- Horváth, Lajos see Csörgő, Miklós, 91e:60224
- Jauslin, H. R. Supersymmetric partners for random walks. 91a:82035
- Kaye, Brian H. ★ A random walk through fractal dimensions. 91i:60013
- Klebaner, Fima C. Expected number of excursions above curved boundaries by a random walk. 91b:60055
- Kolesnik, A. D. see Turbin, A. F., 91m:58170
- Kumar, Ajay¹ (with Singh, Ajit Iqbal) A dichotomy theorem for random walks on hypergroups. 91d:60015
- Lawler, Gregory F. see Burdzy, Krzysztof, 91a:60271
- Le Gall, Jean-François Some intersection properties of Brownian paths and random walks. (see 91j:60003)
- Letov, V. I. An approach to problems with two boundaries. (Russian) 91m:60084
- On the asymptotics of distributions in problems with two boundaries for random walks defined on a Markov chain. (Russian) 91e:60196
- Madras, N. (with Orłitsky, Alon; Shepp, Larry A.) Monte Carlo generation of self-avoiding walks with fixed endpoints and fixed length. 91b:60082
- Malinowski, V. K. Limit theorems for Harris Markov chains. II. 91e:60092
- Masoliver, Jaume see Weiss, George H.; et al., 91b:82029
- Menu, Frédéric see De Coninck, Joël; et al., 91m:82055
- Mukherjee, Arunava see Darling, R. W. R., 91m:60016
- Orłitsky, Alon see Madras, N.; et al., 91b:60082
- Pakes, Anthony G. Asymptotic results for the extinction time of Markov branching processes allowing emigration. I. Random walk decrements. 91k:60077
- Pippenger, Nicholas Knots in random walks. 91b:82028
- Poleschchuk, O. M. Convergence of a conditional random walk to a Brownian bridge. 91e:60111
- Pottier, Noëlle see Aslangul, Claude; et al., 91d:82037
- Pruitt, William E. The rate of escape problem for a class of random walks. 91c:60037
- Ramírez-Piscina, L. see Yokoi, Carlos S. O.; et al., 91c:82058
- Raugi, Albert see Guivarc'h, Yves, 91b:22006
- Reimnitz, Peter A Tauberian theorem for combined limits of functions of two variables. 91h:60004
- Saint-James, Daniel see Aslangul, Claude; et al., 91d:82037
- Saloff-Coste, Laurent see Coulhon, Thierry, 91j:43002 and 91j:43003
- Schulman, Lawrence S. see Gaveau, Bernard, 91i:82034
- Shepp, Larry A. see Madras, N.; et al., 91b:60082
- Shuler, Kurt E. see Weiss, George H.; et al., 91b:82029
- Singh, Ajit Iqbal see Kumar, Ajay¹, 91d:60015
- Sordi, Paolo M. (with Woess, Wolfgang) Amenability, unimodularity, and the spectral radius of random walks on infinite graphs. 91m:43002
- Telcs, András A note on recurrent random walks on graphs. 91m:82124
- Turbin, A. F. (with Kolesnik, A. D.) Group analysis of evolution equations connected with a random walk on a line. (Russian) 91m:58170
- Vallois, P. Sur le passage de certaines marches aléatoires planes au-dessus d'une hyperbole équilatère. (English summary) [On the crossing of some planar random walks over an equilateral parabola] 91f:60041
- Volt, Michael Central limit theorems for random walks on N_0 that are associated with orthogonal polynomials. 91b:60117
- Weiss, George H. (with Masoliver, Jaume; Shuler, Kurt E.) On the asymmetry of a random walk in the presence of a field. 91b:82029
- Willis, George A. Factorization in group algebras. 91c:43006
- Probability measures on groups and some related ideals in group algebras. 91b:43003
- Woess, Wolfgang Boundaries of random walks on graphs and groups with infinitely many ends. 91e:60222
- see also Sordi, Paolo M., 91m:43002

- Woodroffe, Michael On the nonlinear renewal theorem. 91i:60221
- Yokoi, Carlos S. O. (with Hernández-Machado, A.; Ramírez-Piscina, L.) Some exact results for the lattice covering time problem. 91c:82058

60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [see also 90B30, 92H10, 92H35, 92J40]

- Attem, F. K. On ergodic nonhomogeneous finite first-order Markov chains and their demographic applications. 91a:60184
- Edeson, R. O. (with Yeo, G. F.; Milne, R. K.; Madsen, B. W.) Graphs, random sums, and sojourn time distributions, with application to ion-channel modeling. 91m:60135
- Georgiou, A. C. see Vassiliou, P.-C. G., 91i:60182 and 91j:60121
- Gerontidis, Ioannis I. On certain aspects of nonhomogeneous Markov systems in continuous time. 91i:60181
- Periodic strong ergodicity in nonhomogeneous Markov systems. 91m:60136
- Madsen, B. W. see Edeson, R. O.; et al., 91m:60135
- Milne, R. K. see Edeson, R. O.; et al., 91m:60135
- Stadler, Wolfgang A stochastic model for the circulation of restorable materials. (German summary) 91c:60086
- Tsaklidis, G. see Vassiliou, P.-C. G., 91c:60087
- Tsantzas, N. see Vassiliou, P.-C. G.; et al., 91j:60121
- Vassiliou, P.-C. G. (with Tsaklidis, G.) The rate of convergence of the vector of variances and covariances in nonhomogeneous Markov systems. 91c:60087
- (with Georgiou, A. C.; Tsantzas, N.) Control of asymptotic variability in nonhomogeneous Markov systems. 91j:60121
- (with Georgiou, A. C.) Asymptotically attainable structures in nonhomogeneous Markov systems. 91i:60182
- Yeo, G. F. see Edeson, R. O.; et al., 91m:60135
- Items with secondary classifications in 60J20
- Bolthausen, Erwin (with Schmock, Uwe) On the maximum entropy principle for uniformly ergodic Markov chains. 91c:60081
- Bucurescu, Irina see Iordache, Octavian; et al., 91a:94049
- Cao, Xi-Ren The convergence property of sample derivatives in closed Jackson queueing networks. 91g:60106
- Danaher, Peter J. A Markov chain model for magazine exposure. 91i:62109
- Domanski, Zbigniew see Erdős, Paul, 91c:82034
- Erdős, Paul (with Domanski, Zbigniew) Density of states of electrons and electromagnetic waves in one-dimensional random media. 91e:82034
- Grigorescu, Șerban (with Popescu, Gheorghe) Random systems with complete connections as a framework for fractals. 91b:60096
- Guo, Lei see Meyn, Sean P., 91c:93051
- Iordache, Octavian (with Bucurescu, Irina; Pascu, Anca) Lumpability in compartmental models. 91a:94049
- Jerrum, Mark (with Sinclair, Alistair) Approximating the permanent. 91a:05075
- Kalpařidou, Sofia On transience of circuit processes. 91m:60129
- Kijima, Masaaki Uniform monotonicity of Markov processes and its related properties. 91d:60153
- Meyn, Sean P. (with Guo, Lei) Stability, convergence and performance of an adaptive control algorithm applied to a randomly varying system. 91c:93051
- Pascu, Anca see Iordache, Octavian; et al., 91a:94049
- Popescu, Gheorghe see Grigorescu, Șerban, 91b:60096
- Schmock, Uwe see Bolthausen, Erwin, 91c:60081
- Sharp, Keith P. Stochastic differential equations in finance. 91f:90024
- Sinclair, Alistair see Jerrum, Mark, 91a:05075
- Smith, Philip L. A note on the distribution of response times for a random walk with Gaussian increments. (Not in MR)
- Tsaklidis, G. (with Vassiliou, P.-C. G.) V -matrices as covariance matrices in homogeneous Markov systems. 91e:60201
- Vassiliou, P.-C. G. see Tsaklidis, G., 91e:60201

60J25 Markov processes with continuous parameter

- Adler, Robert J. Fluctuation theory for systems of signed and unsigned particles with interaction mechanisms based on intersection local times. 91d:60166
- (with Cambanis, Stamatis; Samorodnitsky, Gennady) On stable Markov processes. 91d:60167
- Altman, D. On the ergodicity of a Markov process of Poisson type. 91m:60137
- (with Shurenkov, V. M.) Asymptotic behavior of terminating Markov processes that are close to ergodic. (Not in MR)
- Assmusen, Søren Exponential families generated by phase-type distributions and other Markov lifetimes. 91e:60208
- Attila, F. A. Resolvent operators of Markov processes and their applications in the control of a finite dam. 91a:60185
- Bouleau, Nicolas (with Chateau, Olivier) Le processus de la subordination. (English summary) [The subordination process] 91f:60119
- Buculescu, Mioara On irreducibility of general Markov processes. 91c:60088
- Bulycheva, O. G. (with Venttsel', A. D.) Differentiability of expected values of functionals of the Wiener process. 91d:60168
- Cambanis, Stamatis see Adler, Robert J.; et al., 91d:60167
- Chateau, Olivier see Bouleau, Nicolas, 91f:60119
- Costa, O. L. V. Stationary distributions for piecewise-deterministic Markov processes. 91d:60169
- Cuculescu, I. Constructions involving Markov processes with time set $(0, \infty)$. II. 91e:60209
- Didkovskii, I. R. (with Sil'vestrov, D. S.) Limit theorems for integral-type functionals of homogeneous Markov processes in a scheme of series. 91b:60059
- Engelbert, H. J. (with Schmidt, Wolfgang Michael) Strong Markov continuous local martingales and solutions of one-dimensional stochastic differential equations. I.

- 91e:60225
 Fakinos, D. On the relation between partial balance and insensitivity. 91j:60122
 Fitzsimmons, P. J. On a connection between Kuznetsov processes and quasi-processes. 91h:60075
 — Time changes of symmetric Markov processes and a Feynman-Kac formula. 91h:60076
 — On ordered stopping times of a Markov process. 91h:60077
 Fox, Bennett L. (with Glynn, Peter W.) Discrete-time conversion for simulating finite-horizon Markov processes. 91f:60120
 Ganikhodzhaev, N. N. Averages of quadratic stochastic processes. (Russian) 91h:60079
 Gettoor, R. K. (with Steffens, J.) More about capacity and excessive measures. 91i:60183
 Glover, Joseph (with Mitro, Joanna) Symmetries and functions of Markov processes. 91i:60184
 Glynn, Peter W. see Fox, Bennett L., 91f:60120
 Herdijk, A. On the transition probabilities of a Markov process. 91f:60121
 Huang, Zhi Rui (with Liang, Zhi Shun) On infinitely divisible positive semi- p -functions and their I_0 class. (Chinese) 91a:60186
 Janssen, Arnold The distance between the Kac process and the Wiener process with applications to generalized telegraph equations. 91d:60170
 Kämmerle, K. Looking forwards and backwards in a bisexual Moran model. 91i:60185
 Kirichinskaya, I. B. see Shurenkov, V. M., 91i:60187
 Kolesnik, A. D. A model of Markov random evolution on a plane. (Russian) 91e:60210
 Le Jan, Yves Intrinsic properties of Markov processes. (see 91j:60003)
 Liang, Zhi Shun see Huang, Zhi Rui, 91a:60186
 Liou, Jian-Jy Recurrence and transience of Gaussian diffusion processes. 91i:60186
 Mann, J. Adin, Jr. see Pittel, Boris; et al., 91f:60122
 Marhuys, Yu. I. Estimates for the asymptotics of Markovian times in terms of the potential of a nonterminating Markov process. (Russian) 91h:60080
 Mitro, Joanna see Glover, Joseph, 91i:60184
 Orsingher, Enzo Probability law, flow function, maximum distribution of wave-governed random motions and their connections with Kirchhoff's laws. 91g:60086
 Pittel, Boris (with Woyczyński, Wojbor A.; Mann, J. Adin, Jr.) Random tree-type partitions as a model for acyclic polymerization: Holtsmark ($\frac{1}{2}$ -stable) distribution of the supercritical gel. 91f:60122
 Pötschelberger, Klaus A characterization of random-coefficient AR(1) models. 91d:60171
 Qian, Min see Qian, Min Ping, 91j:60003
 Qian, Min Ping (with Qian, Min) The entropy production and reversibility of Markov processes. (see 91j:60003)
 Rogoff, S. L. (with Tsar'kov, E. F.) The exponential decay of Markov evolution families on a semicompact space. (Russian) 91c:60089
 Samorodnitsky, Gennady see Adler, Robert J.; et al., 91d:60167
 Schmidt, Wolfgang Michael see Engelbert, H. J., 91e:60225
 Shiga, Tokuzo A recurrence criterion for Markov processes of Ornstein-Uhlenbeck type. 91j:60123
 Shih, C. T. Ordered Skorokhod stopping for a sequence of measures. 91h:60078
 Shurenkov, V. M. (with Kirichinskaya, I. B.) One-point extensions of a Markov process. (Russian) 91i:60187
 — see also Alimov, D., (Not in MR)
 Střevostov, D. S. see Dik'kovskii, I. R., 91h:60059
 Skorokhod, A. V. Markov processes and probabilistic applications in analysis. (Russian) (see 91i:60003)
 Steffens, J. see Gettoor, R. K., 91i:60183
 Tsar'kov, E. F. see Rogoff, S. L., 91c:60089
 Venttsel', A. D. see Bulicheva, O. G., 91d:60168
 Vuolle-Apiala, Juha ★ Studies in self-similar Markov processes. 91c:60090
 Woyczyński, Wojbor A. see Pittel, Boris; et al., 91f:60122
 Wunsch, Gerhard Universelle Markov-Prozesse. [Universal Markov processes] 91c:60091
 Zakusilo, O. K. Markov processes with random drift functions. (Russian) (see 91g:60005)
- Items with secondary classifications in 60J25
 Balders-López, J. A. see Wassam, W. A., Jr.; et al., 91j:82038
 Berman, Simion M. Measure of the multiple self-intersection set of a Markov process. 91m:60074
 Bouleau, Nicolas (with Lambertson, Damien) Residual risks and hedging strategies in Markovian markets. 91h:90023
 Dassios, A. (with Embrechts, P.) Martingales and insurance risk. 91h:62096
 De Masi, A. (with Ferrari, Pablo Augusto; Goldstein, Sheldon; Wick, W. David) An invariance principle for reversible Markov processes. Applications to random motions in random environments. 91e:60107
 Eisenberg, Alexander (with Freidlin, Mark) On the Dirichlet problem for a class of second order PDE systems with small parameter. 91m:35061
 Elliott, Robert James (with Tsai, Allan H.) Time reversal of non-Markov point processes. (French summary) 91j:60090
 Embrechts, P. see Dassios, A., 91h:62096
 Fernández, Begoña Markov properties of the fluctuation limit of a particle system. 91i:60094
 Ferrari, Pablo Augusto see De Masi, A.; et al., 91e:60107
 Fitzsimmons, P. J. On the equivalence of three potential principles for right Markov processes. 91e:60220
 Fontes, Luiz Renato A note on Kolmogorov backward equations. 91d:60178
 Franchi, J. Produits semi-directs de diffusions réelles et lois asymptotiques. (English summary) [Semidirect products of real diffusions and asymptotic distributions] 91d:60186
 Freidlin, Mark see Eisenberg, Alexander, 91m:35061
 (Gambrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 91i:60003
 Goldstein, Sheldon see De Masi, A.; et al., 91e:60107
 Gyll, Henryk The Feynman-Kac formula and the Hamilton-Jacobi equation. 91a:47056
 Hooghiemstra, G. Another visit to two hallfines. 91d:60182
 Huang, Chang Quan A counterexample on two-parameter Markov processes. 91e:60154
 Jacka, S. D. A note on the good lambda inequalities. 91c:60042
 Karatzas, Ioannis (with Leheczy, John P.; Shreve, Steven E.) Existence and uniqueness of multi-agent equilibrium in a stochastic, dynamic consumption/investment model. 91c:90028
 Kolrud, Torbjörn Traces of harmonic functions, capacities, and traces of symmetric Markov processes. 91i:31001
 Kotelez, Peter A stochastic reaction-diffusion model. 91a:60087
 Küchler, Uwe (with Rebolledo, Rolando) Continuous local martingales, local times and scale processes. 91e:60144
 Kutsiya, P. P. Regenerative processes with infrequent switchings. (Russian. English and Georgian summaries) 91h:60092
 Lambertson, Damien (with Pagès, Gilles) Sur l'approximation des réduites. (English summary) [On the approximation of reduites] 91j:60081
 — see also Bouleau, Nicolas, 91h:90023
 Leheczy, John P. see Karatzas, Ioannis; et al., 91c:90028
 Leskow, Jacek (with Różański, Roman) Maximum likelihood estimator of the drift function for a diffusion process. 91e:62221
 Merzbach, Ely (with Nualart, David) Markov properties for point processes on the plane. 91d:60200
 Mikulevičius, Remigius (with Pragarauskas, H.) Optimal Markov strategies for controllable Itô processes. 91e:93097
 Nie, Zan Kan The Markov property for solutions of two-parameter Itô stochastic differential equations. (Chinese) 91h:60055
 Nualart, David see Merzbach, Ely, 91d:60200
 Okura, Hiroyuki On the Donsker-Varadhan theory and its applications. (see 91j:60003)
 Pagès, Gilles see Lambertson, Damien, 91j:60081
 Pittel, Boris (with Woyczyński, Wojbor A.) A graph-valued Markov process as rings-allowed polymerization model: subcritical behavior. 91h:82026
 Pragarauskas, H. see Mikulevičius, Remigius, 91e:93097
 Rebolledo, Rolando see Küchler, Uwe, 91e:60144
 Resnick, Sidney I. (with Roy, Rishin) Multivariate extremal processes, leader processes and dynamic choice models. 91i:60138
 Rogers, L. C. G. Multiple points of Markov processes in a complete metric space. 91i:60098
 Roy, Rishin see Resnick, Sidney I., 91i:60138
 Różański, Roman see Leskow, Jacek, 91e:62221
 Sacerdote, L. On the solution of the Fokker-Planck equation for a Feller process. 91g:35227
 Schmalz, Björn Invariant attracting sets of nonlinear stochastic differential equations. 91i:60158
 Sen, Pall (with Srivastava, Ramesh Chandra³) Parameter estimation for the compartmental model. 91h:62105
 Shreve, Steven E. see Karatzas, Ioannis; et al., 91c:90028
 Srivastava, Ramesh Chandra³ see Sen, Pall, 91h:62105
 Stettner, Lukasz On some stopping and impulsive control problems with a general discount rate criterion. 91j:60083
 Suchanecki, Zdzisław An L^1 extension of stochastic dynamics for irreversible systems. 91a:82046
 Tóby, E. H. Birth and death of a stationary Markov process. 91e:60227
 Torres-Vega, Go. see Wassam, W. A., Jr.; et al., 91j:82038
 Tsai, Allan H. see Elliott, Robert James, 91j:60090
 Wassam, W. A., Jr. (with Balders-López, J. A.; Torres-Vega, Go.) Stationarity of time correlation functions for globally linear classical systems and its consequences. 91j:82038
 Wick, W. David see De Masi, A.; et al., 91e:60107
 Woyczyński, Wojbor A. see Pittel, Boris, 91h:82026
 Zaczek, Jerzy Symmetric solutions of semilinear stochastic equations. 91a:60161
 Zhou, Jian Wei² Two-parameter strong Markov processes. (Chinese. English summary) 91h:60056
- Items listed otherwise than by author
 Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003
 Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003
- 60J27 Markov chains with continuous parameter**
 Adke, S. R. (with Ratnaparkhi, M. V.) A characterization of linear birth-death processes. 91m:60138
 Anderson, W. J. Some remarks on the duality of continuous time Markov chains. 91c:60092
 Beuerman, Steven L. (with Coyle, Edward J.) State space expansions and the limiting behavior of quasi-birth-and-death processes. 91d:60172
 Boucherie, Richard J. (with van Dijk, Nico M.) Spatial birth-death processes with multiple changes and applications to batch service networks and clustering processes. 91f:60123
 Chen, An Yue see Lin, Zai Ming, 91j:60124
 (Chen, Mu Fa) see Li, Jun Ping, 91h:60081
 Chernovtova, T. V. Solution of a countable system of differential equations by a transfer to an equation of the form $\partial\Phi/\partial t = \mu\Phi(\gamma(x), t)$. 91c:60093
 Chiang, Tsu Shu (with Chow, Yun Shyong) A limit theorem for a class of inhomogeneous Markov processes. 91g:60087
 Chow, Yun Shyong see Chiang, Tsu Shu, 91g:60087
 Connors, Daniel P. (with Kumar, P. R.) Simulated annealing type Markov chains and their order balance equations. 91h:60076
 Coyle, Edward J. see Beuerman, Steven L., 91d:60172
 van Dijk, Nico M. see Boucherie, Richard J., 91f:60123
 Johnson, Jean T. (with Luecke, Glenn R.) Nonhomogeneous, continuous-time Markov chains defined by series of proportional intensity matrices. 91a:60187
 Kennedy, Joanne (with Williams, David) Probabilistic factorization of a quadratic matrix polynomial. 91e:60211

- Kumar, P. R. *see* Connors, Daniel P., 91k:60076
- Li, Jun Ping Comment: "Multidimensional Q -processes" [Chinese Ann. Math. Ser. B 7 (1986), no. 1, 90–110; MR 88b:60169] by S. J. Yan and M. F. Chen. (Chinese) 91h:60081
- Liu, Zai Ming (with Chen, An Yue) The characterization of instantaneous diagonal Q -matrices. (Chinese. English summary) 91j:60124
- Luecke, Glenn R. *see* Johnson, Jean T., 91a:60187
- Pakes, Anthony G. Asymptotic results for the extinction time of Markov branching processes allowing emigration. I. Random walk decrements. 91k:60077
- Pollett, P. K. The generalized Kolmogorov criterion. 91k:60078
- (with Roberts, A. J.) A description of the long-term behaviour of absorbing continuous-time Markov chains using a centre manifold. 91e:60212
- Ratnaparkhi, M. V. *see* Adke, S. R., 91m:60138
- Roberts, A. J. *see* Pollett, P. K., 91e:60212
- Williams, David *see* Kennedy, Joanne, 91e:60211
- (Yan, Shi Jian) *see* Li, Jun Ping, 91h:60081
- Ycart, Bernard Markov processes and exponential families on a finite set. 91d:60173
- Zeitman, A. I. Quasi-ergodicity for nonhomogeneous continuous-time Markov chains. 91f:60124
- Zhou, Sheng Sheng The sample construction of Q processes under the condition of Q conservation and m outflows. (Chinese. English summary) 91e:60213
- Items with secondary classifications in 60J27
- Assmusen, Søren Risk theory in a Markovian environment. 91g:60082
- Chen, Mu Fa (with Lu, Yun Gang) Large deviations for Markov chains. 91h:60075
- Flournoy, Nancy Dependency in multivariate Markov chains. 91m:62154
- Huang, Ch'i Jui (with Sheu, Shuenn Jyi) On the weak reversibility condition in simulated annealing. 91e:90111
- Ignatyuk, I. A. (with Malyshev, V. A.) Processes with local interaction, and communication networks. 91d:60252
- Kesidis, George (with Wong, Eugene) Optimal acceptance probability for simulated annealing. 91e:90089
- Lawler, Gregory F. (with Sylvester, John) Determining resistances from boundary measurements in finite networks. 91a:94043
- Lu, Yun Gang *see* Chen, Mu Fa, 91h:60075
- Malyshev, V. A. *see* Ignatyuk, I. A., 91d:60252
- Serfozo, Richard F. Markovian network processes: congestion-dependent routing and processing. 91g:60114
- Sheu, Shuenn Jyi *see* Huang, Ch'i Jui, 91e:90111
- Sylvester, John *see* Lawler, Gregory F., 91a:94043
- Taylor, Peter Gerard Insensitivity in processes with zero speeds. 91d:60247
- Wong, Eugene *see* Kesidis, George, 91e:90089
- Yu, Yao Qi On Kendall's "germ" conjecture for Markov chains. 91i:60188

60J30 Processes with independent increments

- Bertoin, Jean Une construction des processus de Lévy à l'aide de la "martingale d'Azéma". (English summary) [A construction of Lévy processes based on Azéma's martingale] 91d:60174
- Bratichuk, N. S. An approach to the study of boundary functionals for processes with independent increments. (Russian) 91c:60094
- Limit theorems for boundary functionals of a process with independent increments. (Russian) 91c:60095
- Maximum and minimum properties of a process with independent increments with zero mean and finite variance. (Russian. English summary) 91a:60188
- (with Gusak, D. V.) ★ Граничные задачи для процессов с независимыми приращениями. (Russian) [Boundary problems for processes with independent increments] 91m:60139
- The size of the overshoot and the behavior of the absolute maximum for processes with independent increments. 91j:60125
- Carmona, René A. Path integrals for relativistic Schrödinger operators. 91g:60088
- Ergashev, B. Asymptotic independence of certain functionals of the trajectory of a process with independent increments. (Russian) 91e:60214
- Fitzsimmons, P. J. (with Port, Sidney C.) Local times, occupation times, and the Lebesgue measure of the range of a Lévy process. 91f:60125
- Gerasenko, V. A. Small deviations of a random process with independent increments in tube domains. (Russian) 91d:60175b
- Gusak, D. V. Boundary problems for processes with independent increments and cumulants of special form. (Russian) 91h:60082
- *see also* Bratichuk, N. S., 91m:60139
- Ishikawa, Yasuaki The Γ -antilocality of stable generators whose Lévy measures are supported on a cone. 91a:60189
- Mądrzecki, Andrzej On the p -Lévy-Baxter property and its applications. 91a:60190
- Mallows, Collin L. (with Nair, Vijayan N.) On a zero-crossing probability. 91h:60083
- McGill, Paul Computing the overshoot of a Lévy process. 91k:60079
- Nair, Vijayan N. *see* Mallows, Collin L., 91h:60083
- Port, Sidney C. Stable processes with drift on the line. 91c:60096
- Asymptotic expansions for the expected volume of a stable sausage. 91h:60084
- *see also* Fitzsimmons, P. J., 91f:60125
- Răşcu, Gheorghe A spectral decomposition for two-parameter independent-increment processes. (Romanian. English summary) 91e:60215
- Samorodnitsky, Gennady (with Szulga, Jerzy) An asymptotic evaluation of the tail of a multiple symmetric α -stable integral. 91d:60176
- Szekli, R. On the concavity of the infinitesimal renewal function. 91j:60126
- Szulga, Jerzy *see* Samorodnitsky, Gennady, 91d:60176
- Wee, In Suk Lower functions for asymmetric Lévy processes. 91f:60126

Items with secondary classifications in 60J30

- Albeverio, Sergio (with Holden, Helge; Hoegh-Krohn, Raphael J.; Kolrud, Torbjörn) Representation and construction of multiplicative noise. 91b:60040
- Burdzy, Krzysztof On nonincrease of Brownian motion. 91e:60234

- Cambanis, Stamatis (with Maejima, Makoto) Two classes of self-similar stable processes with stationary increments. 91h:60040
- DeBlassie, R. Dante The first exit time of a two-dimensional symmetric stable process from a wedge. 91j:60078
- Fitzsimmons, P. J. (with Salisbury, Thomas S.) Capacity and energy for multiparameter Markov processes. (French summary) 91d:60180
- (Gankrellidze, R. V.) *see* Current problems in mathematics. Fundamental directions, 91i:60003
- de Haan, Laurens (with Karandikar, Rajeeva L.) Embedding a stochastic difference equation into a continuous-time process. 91e:60184
- Hoegh-Krohn, Raphael J. *see* Albeverio, Sergio; et al., 91b:60040
- Holden, Helge *see* Albeverio, Sergio; et al., 91b:60040
- Jacod, Jean (with Mano, Pascal) Une évaluation de la distance entre les lois d'une semimartingale et d'un processus à accroissements indépendants. (English summary) [An estimate of the distance between the laws of a semimartingale and of a process with independent increments] 91d:60006
- Karandikar, Rajeeva L. *see* de Haan, Laurens, 91e:60184
- Kolrud, Torbjörn *see* Albeverio, Sergio; et al., 91b:60040
- Lacey, Michael T. Large deviations for the maximum local time of stable Lévy processes. 91h:60085
- Letac, Gérard (with Mora, Marianne) Natural real exponential families with cubic variance functions. 91b:62032
- Maejima, Makoto *see* Cambanis, Stamatis, 91h:60040
- Mano, Pascal *see* Jacod, Jean, 91d:60006
- Merzbach, Ely (with Nualart, David) Markov properties for point processes on the plane. 91d:60200
- Mora, Marianne *see* Letac, Gérard, 91b:62032
- Mountford, T. S. Uniform dimension results for the Brownian sheet. 91e:60123
- Nualart, David *see* Merzbach, Ely, 91d:60200
- Rajput, Balram S. (with Rosiński, Jan) Spectral representations of infinitely divisible processes. 91i:60149
- Rogers, L. C. G. Multiple points of Markov processes in a complete metric space. 91d:60098
- Rosiński, Jan *see* Rajput, Balram S., 91i:60149
- Salisbury, Thomas S. *see* Fitzsimmons, P. J., 91d:60180
- Schürmann, Michael Noncommutative stochastic processes with independent and stationary additive increments. 91m:46099
- Noncommutative stochastic processes with independent and stationary increments satisfy quantum stochastic differential equations. 91m:46100
- Sundar, P. Invertibility of stochastic flows and time reversal of solutions of SDEs driven by Lévy processes with bounded jumps. 91c:60077
- Watanabe, Toshiro Nonsymmetric unimodal Lévy processes that are not of class L . 91i:60047

Items listed otherwise than by author

- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

60J35 Transition functions, generators and resolvents [see also 47D03, 47D07]

- Belyakov, K. I. A criterion for the Feller property of a Markov process. (Russian) (see 91k:00025)
- (with Zhdanok, A. I.) The transition function of a Markov process as a vector measure. Quasicompactness and the strong Feller property. (Russian) 91a:60191
- Bequillard, A. L. A sufficient condition for two Markov semigroups to commute. 91d:60177
- Fontes, Luiz Renato A note on Kolmogorov backward equations. 91d:60178
- Ganikhodzhaev, N. N. *see* Sarymsakov, T. A., 91g:60089
- Kijima, Masaaki On the unimodality of transition probabilities in Markov chains. 91m:60140
- Kuznetsov, S. E. Homogeneous transition functions and dual semigroups. (see 91j:60003)
- Mokobodzki, G. L'opérateur carré du champ: un contre-exemple. [The squared gradient operator: a counterexample] 91e:60216
- Negoro, Akira (with Tsuchiya, Masaaki) Stochastic processes and semigroups associated with degenerate Lévy generating operators. 91e:60217
- Osada, Hirofumi The estimation of the transition probability of the diffusion process and its application. (Japanese) 91e:60218
- Sarymsakov, T. A. (with Ganikhodzhaev, N. N.) Analytic methods in the theory of quadratic stochastic operators. 91g:60089
- Tsuchiya, Masaaki *see* Negoro, Akira, 91e:60217
- Voina, A. A. Problems on the filtering of jump-like processes with independent increments in a random environment. (Russian) 91d:60179
- Weber, Matthias A class of one-dimensional Markov-processes related to time reversal. 91m:60141
- Yu, Yao Qi On Kendall's "germ" conjecture for Markov chains. 91i:60188
- Zakusilo, O. K. Markov semigroups and processes with broad domains of infinitesimal operators. 91c:60097
- Zhang, Weijian Transition density of one-dimensional diffusion with discontinuous drift. 91j:60127
- Zhdanok, A. I. *see* Belyakov, K. I., 91a:60191

Items with secondary classifications in 60J35

- Albeverio, Sergio (with Brasche, Johannes; Röckner, Michael) Dirichlet forms and generalized Schrödinger operators. 91c:47103
- Bass, Richard F. (with Hsu, Pei) The semimartingale structure of reflecting Brownian motion. 91a:60205

- Borell, Christer Brownian motion with negative drift and convex level sets in space-time. 91f:60151
- Bouleau, Nicolas (with Chateau, Olivier) Le processus de la subordination. (English summary) [The subordination process] 91f:60119
- Brasche, Johannes see Alberverio, Sergio; et al., 91c:47103
- van Casteren, Jan A. On generalized Schrödinger semigroups. 91k:47090
— see also Demuth, Michael, 91j:47044
- Chateau, Olivier see Bouleau, Nicolas, 91f:60119
- Chebotařev, A. M. Necessary and sufficient conditions for the conservativity of dynamical semigroups. (Russian) 91j:82035
- Dai Pra, Paolo (with Pavon, Michele) Variational path-integral representations for the density of a diffusion process. 91f:60132
- Demuth, Michael (with van Casteren, Jan A.) On spectral theory of selfadjoint Feller generators. 91j:47044
- (Gamkrelidze, R. V.) see Current problems in mathematics. Fundamental directions, 91i:60003
- Hornik, K. Asymptotically optimal tests of hypotheses on the generator of a finite Markov process. 91e:62049
- Hsu, Pei see Bass, Richard F., 91a:60205
- Ishikawa, Yasushi The T -antilocality of stable generators whose Lévy measures are supported on a cone. 91a:60189
- Jefferies, Brian The uniqueness of diffusion semigroups. 91f:35017
- Johnson, Dudley Paul Some variations on Kac's formula for Brownian motion. 91e:60237
- Kachubet, A. N. On diffusions with invariant generating operators. 91h:60088
- Lamberton, Damien (with Pages, Gilles) Sur l'approximation des réduites. (English summary) [On the approximation of reduced] 91j:60081
- Li, Zhao Bing An extension of E. B. Dynkin's problem. (Chinese. English summary) 91g:60003
- Lyons, T. J. (with Zheng, Wei An) Diffusion processes with nonsmooth diffusion coefficients and their density functions. 91m:60147
- Maagli, Habib (with Selmi, Mohamed) Perturbation et comparaison de semi-groupes. [Perturbation and comparison of semigroups] 91e:47041
- Pages, Gilles see Lamberton, Damien, 91j:60081
- Pavon, Michele see Dai Pra, Paolo, 91f:60132
- Pfützelberger, Klaus A characterization of random-coefficient AR(1) models. 91d:60171
- Rückner, Michael see Alberverio, Sergio; et al., 91c:47103
- Selmi, Mohamed see Maagli, Habib, 91e:47041
- Tomisaki, Matsuyo Comparison theorems on Dirichlet norms and their applications. 91i:31009
- Varopoulos, Nicholas Th. Small time Gaussian estimates of heat diffusion kernels. II. The theory of large deviations. 91j:58156
- Zheng, Wei An see Lyons, T. J., 91m:60147

Items listed otherwise than by author

- Current problems in mathematics. Fundamental directions ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003
- Itogi Nauki i Tekhniki ★ Современные проблемы математики. Фундаментальные направления. Том 43. (Russian) [Current problems in mathematics. Fundamental directions. Vol. 43] 91i:60003

60J40 Right processes

- Buiculescu, Mioara Ergodic properties of λ -recurrent Markov processes. 91f:60127
- Glover, Joseph Symmetries of excessive measures of Markov processes. 91g:60090
- Liu, Lu Qin Riesz decomposition and characterizations of excessive functions and potential functions in the theory of purely discontinuous Markov processes. (Chinese. English summary) 91a:60192

Items with secondary classifications in 60J40

- Fitzsimmons, P. J. On a connection between Kuznetsov processes and quasi-processes. 91h:60075
— (with Gettoor, R. K.; Sharpe, M. J.) The Blumenthal-Gettoor-McKean theorem revisited. 91e:60219
— On ordered stopping times of a Markov process. 91h:60077
— On the equivalence of three potential principles for right Markov processes. 91e:60220
- Gettoor, R. K. see Fitzsimmons, P. J.; et al., 91e:60219
- Glover, Joseph (with Mitro, Joanna) Symmetries and functions of Markov processes. 91f:60184
- Le Jan, Yves Intrinsic properties of Markov processes. (see 91j:60003)
- Mitro, Joanna see Glover, Joseph, 91f:60184
- Pop-Stojanović, Zoran R. Energy and potentials. 91e:60221
— Excessiveness of harmonic functions for certain diffusions. 91d:60190
- Sharpe, M. J. see Fitzsimmons, P. J.; et al., 91e:60219
- Shih, C. T. Ordered Skorokhod stopping for a sequence of measures. 91h:60078
- Toby, E. H. Birth and death of a stationary Markov process. 91e:60227
- Yan, Jia An (with Zhang, Tu Sheng) Dirichlet forms and potential theory of symmetric Hunt processes. 91j:60128
- Zhang, Tu Sheng see Yan, Jia An, 91j:60128

60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

- Bendikov, A. D. (with Pavlov, I. V.) Markov processes and harmonic structures. (Russian) (see 91g:60005)
- Bouleau, Nicolas (with Hirsch, Francis) Quasi-everywhere regularity of solutions of Brownian stochastic differential equations and their flows. (French summary) 91f:60128
- Brossamer, Gunnar A. A simultaneous almost everywhere central limit theorem for diffusions and its application to path energy and eigenvalues of the Laplacian. 91f:60189
- Csalk, Laszlo (with Fitzsimmons, P. J.; Øksendal, Bernt) A stochastic characterization of harmonic morphisms. 91i:60190

- Dellacherie, C. Autour des ensembles semi-polaires. [Concerning semipolar sets] 91f:60191
- Fitzsimmons, P. J. (with Salisbury, Thomas S.) Capacity and energy for multiparameter Markov processes. (French summary) 91d:60180
— (with Gettoor, R. K.; Sharpe, M. J.) The Blumenthal-Gettoor-McKean theorem revisited. 91e:60219
— On the equivalence of three potential principles for right Markov processes. 91e:60220
— see also Csalk, Laszlo; et al., 91f:60190
- Gettoor, R. K. see Fitzsimmons, P. J.; et al., 91e:60219
- Hirsch, Francis see Bouleau, Nicolas, 91f:60128
- Kaneko, Hiroshi² Regular diffusion processes on complex manifolds and plurisubharmonic functions. 91g:60091
- Kolod, Torbjörn Stochastic boundary representation in the fine topology of a symmetric diffusion. (French summary) 91d:60181
- Kusuoka, Shigeo Dirichlet forms on fractals and products of random matrices. 91m:60142
- Liao, Ming The Dirichlet problem of a discontinuous Markov process. 91a:60193
— see also Wu, Rong¹, 91f:60129
- Øksendal, Bernt see Csalk, Laszlo; et al., 91f:60190
- Okura, Hiroyuki Recurrence criteria for skew products of symmetric Markov processes. 91a:60194
- Pavlov, I. V. see Bendikov, A. D., (91g:60005)
- Pop-Stojanović, Zoran R. Energy and potentials. 91e:60221
- Rao, Murall Some results for functions of Kato class in domains of infinite measure. 91a:60195
- Salisbury, Thomas S. Brownian bitransforms. 91k:60080
— see also Fitzsimmons, P. J., 91d:60180
- Sharpe, M. J. see Fitzsimmons, P. J.; et al., 91e:60219
- Wu, Rong¹ (with Liao, Ming) Remarks on harmonic functions and invariant measures of Markov processes. 91f:60129
- Yan, Jia An (with Zhang, Tu Sheng) Dirichlet forms and potential theory of symmetric Hunt processes. 91j:60128
- Zhang, Tu Sheng see Yan, Jia An, 91j:60128
- Zhao, Zhong Xin Gaugeability for unbounded domains. 91c:60098

Items with secondary classifications in 60J45

- Alberverio, Sergio Some new developments concerning Dirichlet forms, Markov fields and quantum fields. 91i:81041
— (with Röckner, Michael) Classical Dirichlet forms on topological vector spaces—the construction of the associated diffusion process. 91e:31023
- Ben Saad, Hedi Problème de type Skorokhod. [A Skorokhod-type problem] 91i:31010
- Blanchard, Philippe (with Ma, Zhi Ming) New results on the Schrödinger semigroups with potentials given by signed smooth measures. 91m:35067
- Boboc, Nicu (with Bucur, George) Subordination dans les structures excessives. (English summary) [Subordination in excessive structures] 91j:31012
- Borell, Christer Brownian motion with negative drift and convex level sets in space-time. 91f:60151
- Bouleau, Nicolas Énergie locale et densité de temps d'occupation. [Local energy and occupation density] 91c:31007
— (with Hirsch, Francis) Algèbre des structures de Dirichlet. (English summary) [The algebra of Dirichlet structures] 91a:46034
- Bucur, George see Boboc, Nicu, 91j:31012
- Carmona, René A. Path integrals for relativistic Schrödinger operators. 91g:60088
- Dellacherie, C. Théorie des processus de production. [The theory of production processes] 91i:31014
— Modèles simples de la théorie du potentiel non linéaire. [Simple models of nonlinear potential theory] 91k:31015
- Fan, Ru Zong Representation of martingale additive functionals on Banach spaces. 91i:60192
- Fitzsimmons, P. J. On a connection between Kuznetsov processes and quasi-processes. 91h:60075
— On ordered stopping times of a Markov process. 91h:60077
- Gettoor, R. K. (with Steffens, J.) More about capacity and excessive measures. 91i:60183
- Glover, Joseph (with Mitro, Joanna) Symmetries and functions of Markov processes. 91f:60184
— Symmetries of excessive measures of Markov processes. 91g:60090
- Hirsch, Francis see Bouleau, Nicolas, 91a:46034
- Hucks, Hans-Peter Nonlinear filtering of reflecting diffusion processes. 91e:93091
- Kendall, Wilfrid S. Probability, convexity, and harmonic maps with small image. I. Uniqueness and fine existence. 91g:58062
- Le Jan, Yves Intrinsic properties of Markov processes. (see 91j:60003)
- Ma, Zhi Ming see Blanchard, Philippe, 91m:35067
- Mitro, Joanna see Glover, Joseph, 91f:60184
- Motoo, Minoru Periodic extensions of two-dimensional Brownian motion on the half plane. II. 91k:60088
- Papanicolaou, Vassilis G. The probabilistic solution of the third boundary value problem for second order elliptic equations. 91h:60066
- Perkins, Edwin A. Polar sets and multiple points for super-Brownian motion. 91i:60109
- Port, Sidney C. Stable processes with drift on the line. 91e:60096
— Asymptotic expansions for the expected volume of a stable sausage. 91h:60084
- Rückner, Michael see Alberverio, Sergio, 91c:47103
- Rogers, L. C. G. Multiple points of Markov processes in a complete metric space. 91d:60098
- Shih, C. T. Ordered Skorokhod stopping for a sequence of measures. 91h:60078
- Steffens, J. see Gettoor, R. K., 91i:60183
- Streit, Ludwig Energy forms in terms of white noise. (see 91a:00025)
- Takeda, Masayoshi On a martingale method for symmetric diffusion processes and its applications. 91d:60193
- Taylor, John Christopher The minimal eigenfunctions characterize the Ornstein-Uhlenbeck process. 91a:60201
— Do minimal solutions of heat equations characterize diffusions? 91a:60200

60J50 Boundary theory

- Hooghiemstra, G. Another visit to two halflines. 91d:60182
 Williams, Ruth J. (with Zheng, Wei An) On reflecting Brownian motion—a weak convergence approach. (French summary) 91m:60143
 Woess, Wolfgang Boundaries of random walks on graphs and groups with infinitely many ends. 91e:60222
 Zheng, Wei An see Williams, Ruth J., 91m:60143

Items with secondary classifications in 60J50

- DeBlassie, R. Dante Explicit semimartingale representation of Brownian motion in a wedge. 91h:60091
 Giorno, V. (with Nobile, A. G.; Ricciardi, Luigi M.) A symmetry-based constructive approach to probability densities for one-dimensional diffusion processes. 91d:60187
 Guivarc'h, Yves (with Raugi, Albert) Asymptotic behaviour of products of random matrices. (see 91j:60003)
 Ledrappier, François Ergodic properties of Brownian motion on covers of compact negatively-curve manifolds. 91e:58210
 Nobile, A. G. see Giorno, V.; et al., 91d:60187
 Raugi, Albert see Guivarc'h, Yves, (91j:60003)
 Ricciardi, Luigi M. see Giorno, V.; et al., 91d:60187

60J55 Local time and additive functionals

- Adler, Robert J. (with Epstein-Feldman, Raisa; Lewin, Marica) Intersection local times for infinite systems of Brownian motions and for the Brownian density process. 91m:60144
 Athreya, K. B. (with Weerasinghe, A. P. N.) Exponentiality of the local time at hitting times for reflecting diffusions and an application. 91k:60081
 Barlow, Martin T. (with Bass, Richard F.) The construction of Brownian motion on the Sierpiński carpet. (French summary) 91d:60183
 — (with Bass, Richard F.) Local times for Brownian motion on the Sierpiński carpet. 91j:60129
 Bass, Richard F. see Barlow, Martin T., 91d:60183 and 91j:60129
 Borodin, A. N. Distributions of functionals of Brownian local time. I. 91e:60223a
 — Distributions of functionals of Brownian local time. II. 91e:60223b
 — Distribution of integral functionals of the local time of a Bessel process. (Russian) 91j:60130
 Csörgő, Miklós (with Horváth, Lajos) On best possible approximations of local time. 91e:60224
 Engelbert, H. J. (with Schmidt, Wolfgang Michael) Strong Markov continuous local martingales and solutions of one-dimensional stochastic differential equations. II. 91e:60226
 Epstein-Feldman, Raisa see Adler, Robert J.; et al., 91m:60144
 Fan, Ru Zong Representation of martingale additive functionals on Banach spaces. 91e:60192
 Horváth, Lajos see Csörgő, Miklós, 91e:60224
 (Hu, Y. Z.) see Johnson, Gerald W., 91d:60184
 Johnson, Gerald W. (with Kallianpur, G.) Some remarks on Y. Z. Hu and P.-A. Meyer's paper and infinite-dimensional calculus on finitely additive canonical Hilbert space: "Wiener chaos and the Feynman integral" [in *Séminaire de Probabilités, XXII*, 51–71, *Lectures Notes in Math.*, 1321, Springer, Berlin, 1988; MR 89m:60193]. 91d:60184
 Kallianpur, G. see Johnson, Gerald W., 91d:60184
 Lacey, Michael T. Large deviations for the maximum local time of stable Lévy processes. 91h:60085
 — Limit laws for local times of the Brownian sheet. 91j:60131
 Lewin, Marica see Adler, Robert J.; et al., 91m:60144
 (Meyer, Paul-André) see Johnson, Gerald W., 91d:60184
 Nolan, John P. Local nondeterminism and local times for stable processes. 91b:60060
 Prat, Jean-Jacques Analyticité transverse des lois de certaines fonctionnelles additives. (English summary) [Transverse analyticity of the laws of some additive functionals] 91e:60193
 Rosen, Jay Random walks and intersection local time. 91j:60132
 Schmidt, Wolfgang Michael see Engelbert, H. J., 91e:60226
 Weerasinghe, A. P. N. see Athreya, K. B., 91k:60081

Items with secondary classifications in 60J55

- Bañuelos, Rodrigo (with Bass, Richard F.; Burdzy, Krzysztof) A representation of local time for Lipschitz surfaces. 91f:60139
 Barlow, Martin T. Skew Brownian motion and a one-dimensional stochastic differential equation. 91e:60165
 — (with Pitman, Jim W.; Yor, Marc) Une extension multidimensionnelle de la loi de l'arc sinus. [A multidimensional extension of the arc-sine law] 91e:60106
 Bass, Richard F. see Bañuelos, Rodrigo; et al., 91f:60139
 Berman, Simeon M. Measure of the multiple self-intersection set of a Markov process. 91m:60074
 Bertoin, Jean Applications de la théorie spectrale des cordes vibrantes aux fonctionnelles additives principales d'un brownien réfléchi. (English summary) [Applications of the spectral theory of vibrating strings to the principal additive functionals of a reflected Brownian motion] 91e:60228
 — Sur une intégrale pour les processus à α -variation bornée. (English summary) [On an integral for processes with bounded α -variation] 91g:60065
 — Excursions of a $BES_0(d)$ and its drift term ($0 < d < 1$). 91e:60229
 Biane, Philippe Comportement asymptotique de certaines fonctionnelles additives de plusieurs mouvements browniens. [Asymptotic behavior of certain additive functionals of several Brownian motions] 91h:60201
 Burdzy, Krzysztof see Bañuelos, Rodrigo; et al., 91f:60139
 Chen, Bin How small are the (H-R) increments of the local time of a Wiener process? (Chinese. English summary) 91f:60140
 Csáki, Endre An integral test for the supremum of Wiener local time. 91a:60206
 Deuschel, Jean-Dominique (with Stroock, Daniel W.) A function space large deviation principle for certain stochastic integrals. 91e:60090

Fitzsimmons, P. J. (with Port, Sidney C.) Local times, occupation times, and the Lebesgue measure of the range of a Lévy process. 91f:60125

Földes, Antónia On the infimum of the local time of a Wiener process. 91e:60235
 Jaworski, W. The concept of a time-of-sojourn operator and spreading of wave packets. 91f:81019

Klein, David see Yang, Wei-Shih, 91a:60136

Kolarski, Torbjörn Stochastic boundary representation in the fine topology of a symmetric diffusion. (French summary) 91d:60181

Le Gall, Jean-François Wiener sausage and self-intersection local times. 91e:60238

McGill, Paul Wiener-Hopf factorisation of Brownian motion. 91a:60213

Nualart, David (with Üstünel, Ali Süleyman) Mesures cylindriques et distributions sur l'espace de Wiener. (English summary) [Cylindrical measures and distributions on Wiener space] 91f:60113

Okura, Hiroyuki Recurrence criteria for skew products of symmetric Markov processes. 91a:60194

Okunev, Y. Le "Skew-Brownian motion" et les processus qui en dérivent. 91e:60242

Penrose, M. D. Quasi-everywhere properties of Brownian level sets and multiple points. 91e:60209

Pitman, Jim W. see Barlow, Martin T.; et al., 91e:60106

Port, Sidney C. see Fitzsimmons, P. J., 91f:60125

Rutkowski, Marek Fundamental solutions of stochastic differential equations with drift. 91e:60172

— On solutions of stochastic differential equations with drift. 91e:60173

Schmidt, Wolfgang Michael On semimartingale diffusions and stochastic differential equations. 91d:60192

Shakh, V. A. Local times for the norm of multidimensional Brownian motion. (Russian) 91j:60137

Stolica, L. Brownian oscillations near the boundary of a hypersurface. 91e:60105

Stoll, Andreas Invariance principles for Brownian intersection local time and polymer measures. 91g:60251

Stroock, Daniel W. see Deuschel, Jean-Dominique, 91e:60090

Sugitani, Sadao Some properties for the measure-valued branching diffusion processes. 91e:60223

Üstünel, Ali Süleyman see Nualart, David, 91f:60113

Weinryb, Sophie Étude d'une équation différentielle stochastique non linéaire avec temps local, modèle limite pour un système de particules avec interaction à la frontière. (English summary) [Study of a nonlinear stochastic differential equation with local time, limit model for a particle system with boundary interaction] 91h:60048

Yang, Wei-Shih (with Klein, David) Self-repelling processes associated with Brownian motions. 91a:60136

Yor, Marc see Barlow, Martin T.; et al., 91e:60106

Zhang, Tu Sheng Characterization of local time of d -dimensional Brownian motion and representation theorems on additive functionals. (Chinese) 91a:60215

— Probabilistic approach to the Neumann problem. 91f:35089

60J57 Multiplicative functionals

Baxter, J. R. (with Chacon, R. V.) Multiplicative functionals and the stable topology. 91f:60130

Chacon, R. V. see Baxter, J. R., 91f:60130

Tobin, E. H. Birth and death of a stationary Markov process. 91e:60227

Items with secondary classifications in 60J57

Cramér, Hans Extremal exponents of random dynamical systems do not vanish. 91j:58090

60J60 Diffusion processes [see also 58G32]

Anisimov, V. V. (with Chabanyuk, V. S.) ★ Задача отражения Скорохода и диффузионная аппроксимация сетей обслуживания. (Russian) [Skorokhod's reflection problem and diffusion approximation of queueing networks] 91a:60196

Ariaratnam, S. T. (with Xie, Wei Chau) Lyapunov exponent and rotation number of a two-dimensional nilpotent stochastic system. 91h:60086

Bertoin, Jean Applications de la théorie spectrale des cordes vibrantes aux fonctionnelles additives principales d'un brownien réfléchi. (English summary) [Applications of the spectral theory of vibrating strings to the principal additive functionals of a reflected Brownian motion] 91e:60228

— Excursions of a $BES_0(d)$ and its drift term ($0 < d < 1$). 91e:60229

Bhattacharya, Rabi N. (with Ramasubramanian, S.) On the central limit theorem for diffusions with almost periodic coefficients. 91f:60131

Bondarev, B. V. (with Shurko, I. L.) Probability of finding a diffusion process with small diffusion in random moving boundaries. (Russian. English summary) 91d:60185

Borkar, Vivek S. Mimicking finite-dimensional marginals of a controlled diffusion by simpler controls. 91a:60197

Buonocore, A. (with Giorno, V.; Nobile, A. G.; Ricciardi, Luigi M.) On the two-boundary first-crossing-time problem for diffusion processes. 91e:60099

Butsenko, Yu. P. On an approach to the concept of a diffusion process. (Russian) (see 91g:60005)

Chabanyuk, V. S. see Anisimov, V. V., 91a:60196

Dal Pra, Paolo (with Pavon, Michele) Variational path-integral representations for the density of a diffusion process. 91f:60132

Deuschel, Jean-Dominique Logarithmic Sobolev inequalities of symmetric diffusions. 91h:60087

Dynkin, E. B. Three classes of infinite-dimensional diffusions. 91h:60061

Erickson, K. Bruce Continuous extensions of skew product diffusions. 91f:60133

Franchi, J. Produits semi-directs de diffusions réelles et lois asymptotiques. (English summary) [Semidirect products of real diffusions and asymptotic distributions] 91d:60186

Giorno, V. (with Nobile, A. G.; Ricciardi, Luigi M.) A symmetry-based constructive approach to probability densities for one-dimensional diffusion processes. 91d:60187

— see also Buonocore, A.; et al., 91e:60099

- Gong, Guang Lu (with Qian, Min Ping) On the winding of stationary diffusions. 91k:60082
- Graham, Carl Nonlinear limit for a system of diffusing particles which alternate between two states. 91d:60188
- Griffiths, R. C. Genealogical-tree probabilities in the infinitely-many-site model. 91m:60145
- Inoue, Masaaki Construction of diffusion processes associated with a porous medium equation. 91a:60198
- Ishikawa, Yasushi A remark on the existence of a diffusion process with nonlocal boundary conditions. 91c:60100
- Khametov, V. M. Asymptotic behavior of a solution of an inverse Kolmogorov equation for diffusion processes with small diffusion. (see 91j:60002)
- Khar'kova, M. V. Weak convergence of a sequence of Markov chains to a diffusion process. (Ukrainian. Russian summary) 91f:60134
- Kochubei, A. N. On diffusions with invariant generating operators. 91h:60088
- Kolesnik, A. D. (with Turbin, A. F.) Symmetric Markov random evolutions on the plane. (Russian) 91g:60092
- Kopytko, B. I. Semigroups of operators that describe generalized diffusion in a finite-dimensional Euclidean space. (Russian) 91i:60194
- Korzeniewski, Andrzej On diffusions that cannot escape from a convex set. 91c:60101
- Kröner, Paweł Comparison theorems for diffusion processes. 91j:60133
- Król, Mirosław On some retrospective and prospective equations for a vector-valued quasi-diffusion process. 91e:60230
- Kühler, Uwe A limit theorem for the excursion of quasidiffusions straddling t . 91m:60146
- (with Salminen, Paavo) On spectral measures of strings and excursions of quasi-diffusions. 91k:60083
- Léandre, Rémi (with Meyer, Paul-André) Sur le développement d'une diffusion en chaos de Wiener. [On the expansion of a diffusion in Wiener chaos] 91c:60102
- Le Gall, Jean-François Marches aléatoires, mouvement brownien et processus de branchement. [Random walks, Brownian motion and branching processes] 91e:60241
- Lindström, Tom L. Nonstandard constructions of diffusions and related processes. (see 91j:60003)
- Liptser, R. Sh. see Stoyanov, J., 91h:60062
- Lyons, T. J. Reversible diffusion processes on manifolds. (see 91j:60003)
- (with Zheng, Wei An) Diffusion processes with nonsmooth diffusion coefficients and their density functions. 91m:60147
- (with Zheng, Wei An) On conditional diffusion processes. 91m:60148
- Malliavin, Paul see Malliavin-Brammer, Marie-Paule, 91k:60084
- Malliavin-Brammer, Marie-Paule (with Malliavin, Paul) Integration on loop groups. I. Quasi invariant measures. 91k:60084
- Mastrangelo, M. Résolution stochastique, par des processus de diffusion partiellement réfléchis, d'opérateurs différentiels paraboliques à coefficients continus par morceaux admettant un drift généralisé. I. [Stochastic solution, by means of partially reflected diffusion processes, of parabolic differential operators with piecewise continuous coefficients and admitting a generalized drift. I] 91j:60134
- McGill, Paul Factorising Brownian motion at two boundaries; an example. (French summary) 91f:60135
- Mellal, Mouloud (with Sarafyan, V. V.) Sur les petites perturbations des processus de diffusion et des équations différentielles dégénérant sur la frontière d'une région. (English summary) [On the small perturbations of diffusion processes and differential equations degenerating on the bounded domain] 91f:60195
- Meyer, Paul-André see Léandre, Rémi, 91c:60102
- Miclo, Laurent Recuit simulé sur \mathbb{R}^n . [Simulated annealing on \mathbb{R}^n] 91d:60189
- Millet, Annie (with Nualart, David; Sanz, Marta) Time reversal for infinite-dimensional diffusions. 91c:60104
- Neveu, J. (with Pitman, Jim W.) The branching process in a Brownian excursion. 91e:60240
- Nobile, A. G. see Buonocore, A.; et al., 91c:60099 and Giorno, V.; et al., 91d:60187
- Nualart, David Une remarque sur le développement en chaos d'une diffusion. [A remark on the expansion of a diffusion in chaos] 91c:60103
- see also Millet, Annie; et al., 91c:60104
- Osada, Hirofumi Isoperimetric constants and estimates of heat kernels of pre Sierpiński carpets. 91k:60085
- Pavon, Michele see Dai Pra, Paolo, 91f:60132
- Pinsky, Ross G. Correction: "Recurrence, transience and bounded harmonic functions for diffusions in the plane" [Ann. Probab. 15 (1987), no. 3, 954–984; MR 88g:60196]. 91f:60136
- The asymptotic behaviour of the solution of the exterior Dirichlet problem for Brownian motion perturbed by a small parameter drift. 91f:60196
- Pisaneets, S. I. Convergence of processes of diffusion type in a Hilbert space. (Russian) 91i:60197
- Pitman, Jim W. see Neveu, J., 91e:60240
- Pop-Stojanović, Zoran R. Excessiveness of harmonic functions for certain diffusions. 91d:60190
- Qian, Min Ping see Gong, Guang Lu, 91k:60082
- Ramasubramanian, S. see Bhattacharya, Rabi N., 91f:60131
- Ricciardi, Luigi M. (with Sato, Shunsuke) Diffusion processes and first-passage-time problems. 91m:60149
- see also Buonocore, A.; et al., 91c:60099 and Giorno, V.; et al., 91d:60187
- Röhler, Uwe The variation diminishing property applied to diffusions. 91j:60135
- Sacerdote, L. Asymptotic behaviour of Ornstein-Uhlenbeck first-passage-time density through periodic boundaries. 91d:60191
- Salminen, Paavo see Kühler, Uwe, 91k:60083
- Sanz, Marta see Millet, Annie; et al., 91c:60104
- Sarafyan, V. V. see Mellal, Mouloud, 91f:60195
- Sato, Shunsuke see Ricciardi, Luigi M., 91m:60149
- Schmidt, Wolfgang Michael On semimartingale diffusions and stochastic differential equations. 91d:60192
- Schmuck, Uwe Convergence of the normalized one-dimensional Wiener sausage path measures to a mixture of Brownian taboo processes. 91e:60231
- Schwartz, Laurent Le semi-groupe d'une diffusion en liaison avec les trajectoires. [The semigroup of a diffusion with respect to the trajectories] 91g:60093a
- Some corrections and improvements to: "The semigroup of a diffusion with respect to the trajectories". (French) 91g:60093b
- Shurko, I. L. see Bondarev, B. V., 91d:60185
- Skubachevskii, A. L. Some problems for multidimensional diffusion processes. 91a:60199
- Stolica, L. Brownian oscillations near the boundary of a hypersurface. 91c:60105
- Stoyanov, J. (with Liptser, R. Sh.) Second order approximation for diffusion type processes. 91h:60062
- Sznitman, Alain-Sol Lifschitz tail on hyperbolic space: Neumann conditions. 91f:60137
- Takeda, Masayoshi On a martingale method for symmetric diffusion processes and its applications. 91d:60193
- Taylor, John Christopher The minimal eigenfunctions characterize the Ornstein-Uhlenbeck process. 91a:60201
- Do minimal solutions of heat equations characterize diffusions? 91a:60200
- Thiele, Burkhard Abschätzung des Verteilungsgesetzes der Erstpassagezeit für spezielle Diffusionsprozesse. [Estimate of the distribution law of first-passage time for special diffusion processes] (Not in MR)
- Turbin, A. F. see Kolesnik, A. D., 91g:60092
- von Vintschger, R. A duality equation for diffusions on an abstract Wiener space. 91a:60202
- Wallstrom, Timothy C. A finite-energy bound on the approach of a diffusion to the zeros of its density. 91d:60194
- Wenocur, Michael L. Ornstein-Uhlenbeck process with quadratic killing. 91f:60198
- Wick, W. David Diffusion in a singular random environment. 91g:60094
- Xie, Wei Chau see Ariaratnam, S. T., 91h:60086
- Yamazato, Makoto Hitting times of single points for 1-dimensional generalized diffusion processes. 91f:60138
- Yoshida, Minoru On Nelson processes with boundary condition. 91h:60089
- Yurinskii, V. V. On averaging two-dimensional diffusion without drift. (Russian) (see 91g:60005)
- Zeitouni, Ofer On the Onsager-Machlup functional of diffusion processes around non- C^2 curves. 91g:60095
- Zheng, Wei An see Lyons, T. J., 91m:60147 and 91m:60148
- Items with secondary classifications in 60J60
- Adler, Robert J. The net charge process for interacting, signed diffusions. 91f:60272
- Aïraut, Hélène (with Van Biesen, Johan) Géométrie riemannienne en codimension finie sur l'espace de Wiener. (English summary) [Riemannian geometry in finite codimension on the Wiener space] 91i:60151
- Albeverio, Sergio (with Blanchard, Philippe; Kusuoka, Shigeo; Streit, Ludwig) An inverse problem for stochastic differential equations. 91d:60131
- Aliev, A. O. see Anisimov, V. V., 91f:60226 and 91k:60094
- Almazov, M. (with Kulich, G. L.) Limit theorems for one-dimensional nonhomogeneous stochastic diffusion equations with nonregular dependence of the coefficients on the parameter. 91f:60153
- Anisimov, V. V. (with Aliev, A. O.) The averaging principle and diffusion approximation of recurrent processes of semi-Markov type. (Russian) 91k:60094
- (with Aliev, A. O.) ★ Диффузионная аппроксимация рекуррентных алгоритмов полумарковского типа и ее приложения в системах обслуживания. (Russian) [Diffusion approximation of recursive algorithms of semi-Markov type and its applications in queueing systems] 91f:60226
- (with Chabanyuk, V. S.) Application of the Skorokhod reflection problem in diffusion approximation of queueing networks. 91m:60163
- Armstrong, J. V. The Riemann hypothesis and the Hamiltonian of a quantum mechanical system. 91k:11072
- Athreya, K. B. (with Weerasinghe, A. P. N.) Exponentiality of the local time at hitting times for reflecting diffusions and an application. 91k:60081
- Bakry, Dominique Sur l'interpolation complexe des semigroupes de diffusion. [On the complex interpolation of diffusion semigroups] 91b:47094
- Barlow, Martin T. Skew Brownian motion and a one-dimensional stochastic differential equation. 91e:60165
- (with Pitman, Jim W.; Yor, Marc) Une extension multidimensionnelle de la loi de l'arc sinus. [A multidimensional extension of the arc-sine law] 91c:60106
- (with Bass, Richard F.) Local times for Brownian motion on the Sierpiński carpet. 91j:60129
- Bass, Richard F. Using stochastic comparison to estimate Green's functions. 91a:35055
- see also Barlow, Martin T., 91j:60129
- Ben Arous, Gérard Méthodes de Laplace et de la phase stationnaire sur l'espace de Wiener. (English summary) [The Laplace and stationary phase methods on Wiener space] 91h:60070
- Blanchard, Philippe see Albeverio, Sergio; et al., 91d:60131
- Bouleau, Nicolas (with Hirsch, Francis) Quasi-everywhere regularity of solutions of Brownian stochastic differential equations and their flows. (French summary) 91f:60128
- Bulycheva, O. G. (with Venttsel', A. D.) Differentiability of expected values of functionals of the Wiener process. 91d:60168
- Campillo, Fabien (with Le Gland, François) MLE for partially observed diffusions: direct maximization vs. the EM algorithm. 91e:62220
- Chabanyuk, V. S. see Anisimov, V. V., 91m:60163
- Chen, Mu Fa Probability metrics and coupling methods. 91a:60217
- Chernykh, S. I. see Maslov, V. P., (91j:60003)
- Choukri, T. see Üstünel, Ali Süleyman, 91m:60184
- Dawson, Donald A. see Rémillard, Bruno, 91g:60039
- Day, Martin Large deviations results for the exit problem with characteristic boundary. 91k:60062
- Deuschel, Jean-Dominique (with Stroock, Daniel W.) A function space large deviation principle for certain stochastic integrals. 91e:60090
- (with Stroock, Daniel W.) Hypercontractivity and spectral gap of symmetric diffusions with applications to the stochastic Ising models. 91j:58174
- Elworthy, K. D. Some geometric aspects of diffusion on manifolds. (see 91j:60003)
- Evans, M. P. (with Hudson, R. L.) Multidimensional quantum diffusions. 91a:46065
- Falconer, K. J. The integral geometry of fractals. 91c:28005

- Freidlin, Mark Random perturbations of infinite-dimensional dynamical systems. (see 91j:60003)
- Coupled reaction-diffusion equations. 91k:35124
- Genon-Catalot, Valentine Maximum contrast estimation for diffusion processes from discrete observations. 91g:62067
- Gyöngy, I. The stability of stochastic partial differential equations. II. 91e:60178
- Gzyl, Henryk Diffusions on some submanifolds of Euclidean spaces. 91m:58168
- Hirsch, Francis see Bouleau, Nicolas, 91f:60128
- Hervath, Lajos Strong laws and limit theorems for local time of Markov processes. 91i:60087
- Hsu, Pei Probabilistic methods in differential geometry. 91b:58273
- Hucke, Hans-Peter Nonlinear filtering of reflecting diffusion processes. 91e:93091
- Hudson, R. L. Quantum diffusions on the algebra of all bounded operators on a Hilbert space. 91e:46061
- see also Evans, M. P., 91a:46065
- Ignatyuk, I. A. (with Malyshev, V. A.; Molchanov, S. A.) Moment-closed processes with local interaction. 91m:60188
- Kaneko, Hiroshi² Regular diffusion processes on complex manifolds and plurisubharmonic functions. 91g:60091
- Kendall, Wilfrid S. Stochastic differential geometry. (see 91j:60003)
- Kharkova, M. V. Limit behavior of solutions of systems of stochastic diffusion equations. 91a:60149
- Khrustalev, M. M. (with Savastuyk, S. V.) Conditions for the optimality of stochastic systems of diffusion type in problems with constraints on the control-observation process. 91j:93123
- Kifer, Yuri A discrete-time version of the Wentzell-Freidlin theory. 91i:60077
- Principal eigenvalues, topological pressure, and stochastic stability of equilibrium states. 91f:58105
- (with Ledrappier, François) Hausdorff dimension of harmonic measures on negatively curved manifolds. 91a:58205
- Kolrud, Torbjörn Stochastic boundary representation in the fine topology of a symmetric diffusion. (French summary) 91d:60181
- Kotelevz, Peter A stochastic reaction-diffusion model. 91a:60087
- Kozlov, S. M. (with Pyatnitskii, A. L.) Averaging on a vanishing viscosity background. 91h:35057
- Kullnick, G. L. see Almazov, M., 91i:60153
- Kusuoka, Shigao Dirichlet forms on fractals and products of random matrices. 91m:60142
- see also Alberverio, Sergio; et al., 91d:60131
- Léandre, Rémi (with Russo, Francesco) Estimation de Varadhan pour des diffusions à deux paramètres. (English summary) [Varadhan's estimate for two-parameter diffusions] 91e:60164
- Ledrappier, François see Kifer, Yuri, 91a:58205
- Le Gland, François see Campillo, Fabien, 91e:62220
- Lépine, Dominique (with Nualart, David; Sanz, Marta) Dérivation stochastique de diffusions réfléchies. (English summary) [Stochastic differentiation of reflected diffusions] 91e:60170
- Leskow, Jacek (with Rózański, Roman) Maximum likelihood estimator of the drift function for a diffusion process. 91e:62221
- Liu, Jian-Jy Recurrence and transience of Gaussian diffusion processes. 91i:60186
- Ma, Zhi Ming (with Song, Ren Ming) Probabilistic methods in Schrödinger equations. 91h:35100
- Malyshev, V. A. see Ignatyuk, I. A.; et al., 91m:60188
- Mao, Xue Rong Lyapunov functions and almost sure exponential stability of stochastic differential equations based on semimartingales with spatial parameters. 91m:60117
- Exponential stability for stochastic differential equations with respect to semimartingales. 91e:60068
- Maslov, V. P. (with Chernykh, S. L.) Global exact asymptotics of large deviations probabilities for diffusion and jump processes. (see 91j:60003)
- Mikalevicius, Remigius (with Pragarauskas, H.) Optimal Markov strategies for controllable Itô processes. 91e:93097
- Mishura, Yu. S. Martingale characterization of diffusion random fields that are defined on the plane. 91j:60089
- Molchanov, S. A. see Ignatyuk, I. A.; et al., 91m:60188
- Motono, Minoru Periodic extensions of two-dimensional Brownian motion on the half plane. I. 91d:60197
- Neves, J. Multiplicative martingales for spatial branching processes. 91f:60144
- Ney, Peter Some remarks on a limiting diffusion for decomposable branching processes. 91h:60066
- Nualart, David (with Üstünel, Ali Süleyman) Une extension du laplacien sur l'espace de Wiener et la formule d'Itô associée. (English summary) [An extension of the Laplace operator on the Wiener space and the associated Itô formula] 91d:60130
- see also Lépine, Dominique; et al., 91e:60170
- Oelschläger, Karl On the derivation of reaction-diffusion equations as limit dynamics of systems of moderately interacting stochastic processes. 91e:60144
- Øksendal, Bernt The high contact principle in optimal stopping and stochastic waves. 91h:60048
- When is a stochastic integral a time change of a diffusion? 91h:60065
- Okura, Hiroyuki Recurrence criteria for skew products of symmetric Markov processes. 91a:60194
- Panté, Drăgen Stochastic calculus and Schrödinger semigroups admitting a ground state. 91j:81031
- Pitman, Jim W. see Barlow, Martin T.; et al., 91c:60106
- Pragarauskas, H. see Mikalevicius, Remigius, 91e:93097
- Pyatnitskii, A. L. see Kozlov, S. M., 91h:35057
- Rémillard, Bruno (with Dawson, Donald A.) Laws of the iterated logarithm and large deviations for a class of diffusion processes. (French summary) 91g:60039
- Rost, H. A reaction-diffusion model for moderately interacting particles. (see 91a:00025)
- Royer, Gilles A remark on simulated annealing of diffusion processes. 91f:60102
- Rózański, Roman see Leskow, Jacek, 91e:62221
- Russo, Francesco see Léandre, Rémi, 91e:60164
- Rutkowski, Marek Fundamental solutions of stochastic differential equations with drift. 91e:60172
- Safaryas, R. G. On a problem with a small parameter for a class of random processes. (Russian) (see 91g:60005)
- Sanz, Marta see Lépine, Dominique; et al., 91e:60170
- Savastuyk, S. V. see Khrustalev, M. M., 91j:93123
- Skorokhod, A. V. Markov processes and probabilistic applications in analysis. (Russian) (see 91i:60003)
- Song, Ren Ming Probabilistic approach to the Dirichlet problem of second order elliptic PDE. 91a:35056
- see also Ma, Zhi Ming, 91h:35100
- Streit, Ludwig see Alberverio, Sergio; et al., 91d:60131
- Stroock, Daniel W. see Deuschel, Jean-Dominique, 91e:60090 and 91j:58174
- Szemerédi, P. Invertibility of stochastic flows and time reversal of solutions of SDEs driven by Lévy processes with bounded jumps. 91e:60077
- Taniguchi, Setsuo Stochastic flows of diffeomorphisms on an open set in \mathbb{R}^n . 91f:60103
- Üstünel, Ali Süleyman (with Choukri, T.) Diffusion approximation of videoconference networks. 91m:60184
- see also Nualart, David, 91d:60130
- Van Biesen, Johan see Alrault, Hélène, 91i:60151
- Vares, Maria Edalá A note on small random perturbations of dynamical systems. 91j:60050
- Venttsel', A. D. see Balycheva, O. G., 91d:60168
- Vorob'eva, I. L. Probability of finding the solution of a stochastic differential equation in curvilinear boundaries. (Russian) (see 91j:60001)
- Wakolbinger, Anton A simplified variational characterization of Schrödinger processes. 91e:60102
- Weber, Matthias A class of one-dimensional Markov-processes related to time reversal. 91m:60141
- Weerasinghe, A. P. N. see Athreya, K. B., 91h:60081
- von Weizsäcker, Heinrich (with Winkler, Gerhard) ★ Stochastic integrals. 91i:60150
- Williams, David Brownian motion and the Riemann zeta-function. 91h:60094
- Williams, Ruth J. (with Zheng, Wei An) On reflecting Brownian motion—a weak convergence approach. (French summary) 91m:60143
- Winkler, Gerhard see von Weizsäcker, Heinrich, 91i:60150
- Yor, Marc see Barlow, Martin T.; et al., 91c:60106
- Yurinskii, V. V. Estimates for covariances of means with respect to the distribution of a diffusion with switchings in a random environment. (Russian) 91e:60157
- Zhang, Qing¹ Controlled partially observed diffusions with correlated noise. 91i:93104
- Zhang, Weijian Conditional expectations of Brownian functions and their applications. 91a:60216
- Transition density of one-dimensional diffusion with discontinuous drift. 91j:60127
- Zhao, Zhong Xin Subcriticality, positivity and gaugeability of the Schrödinger operator. 91h:35104
- Zheng, Wei An see Williams, Ruth J., 91m:60143

60J65 Brownian motion [see also 58G32]

- Atsugi, Atsushi Some inequalities for some increasing additive functionals of planar Brownian motion and an application to Nevanlinna theory. 91i:60199
- Bañuelos, Rodrigo (with Davis, Burgess) Heat kernel, eigenfunctions, and conditioned Brownian motion in planar domains. 91a:60203
- (with Bass, Richard F.; Burdzy, Krzysztof) A representation of local time for Lipschitz surfaces. 91f:60139
- Barlow, Martin T. (with Pitman, Jim W.; Yor, Marc) On Walsh's Brownian motions. 91a:60204
- (with Pitman, Jim W.; Yor, Marc) Une extension multidimensionnelle de la loi de l'arc sinus. [A multidimensional extension of the arc-sine law] 91c:60106
- Bass, Richard F. (with Hsu, Pei) The semimartingale structure of reflecting Brownian motion. 91a:60205
- see also Bañuelos, Rodrigo; et al., 91f:60139
- Berezikovskii, A. M. (with Makhnovskii, Yu. A.; Suris, R. A.) Wiener sausage volume moments. 91c:60107
- Bertoin, Jean Sur une horloge fluctuante pour les processus de Bessel de petites dimensions. [A fluctuating clock for Bessel processes of small dimension] 91m:60150
- Temps locaux d'intersection de mouvements browniens perturbés et applications. (English summary) [Intersection local times of perturbed Brownian motions, and applications] 91c:60108
- Biane, Philippe Comportement asymptotique de certaines fonctionnelles additives de plusieurs mouvements browniens. [Asymptotic behavior of certain additive functionals of several Brownian motions] 91i:60201
- Bilmlinger, M. (with Drmota, Michael; Tichy, Robert F.) A uniform law of the iterated logarithm for Brownian motion on compact Riemannian manifolds. 91e:60232
- Borell, Christer Brownian motion with negative drift and convex level sets in space-time. 91m:60151
- Bozak, Benzon An explicit expression for the distribution of the supremum of Brownian motion with a change point. 91f:60202
- Burdzy, Krzysztof (with San Martin, Jaime) Curvature of the convex hull of planar Brownian motion near its minimum point. 91e:60233
- On nonincrease of Brownian motion. 91e:60234
- (with Lawler, Gregory F.) Nonintersection exponents for Brownian paths. II. Estimates and applications to a random fractal. 91g:60097
- (with Lawler, Gregory F.) Nonintersection exponents for Brownian paths. I. Existence and an invariance principle. 91g:60096
- see also Bañuelos, Rodrigo; et al., 91f:60139
- Chen, Bin How small are the (H-R) increments of the local time of a Wiener process? (Chinese. English summary) 91f:60140
- Cox, J. T. (with Griffin, Philip S.) How porous is the graph of Brownian motion? 91h:60090

- Cranston, M. (with Le Jan, Yves) Simultaneous boundary hitting for a two point reflecting Brownian motion. 91d:60195
- Csáki, Endre An integral test for the supremum of Wiener local time. 91a:60206
- Cutland, Nigel J. The Brownian bridge as a flat integral. 91a:60207
- Davis, Burgess see Bánuéles, Rodrigo, 91a:60203
- DeBlaessie, R. Dante Explicit semimartingale representation of Brownian motion in a wedge. 91h:60091
- Doyle, Peter G. (with Shepp, Larry A.) Tracking a Wiener process with a process of finite energy. 91a:60208
- Drnota, Michael see Blümlinger, M.; et al., 91e:60232
- Duplantier, Bertrand Areas of planar Brownian curves. 91a:60209a
- Elfenko, S. V. (with Portenko, N. I.) On the distribution of the number of crossings of a delaying screen by a process that is comprised of two Brownian motion processes. (Russian) 91i:60203
- Földes, Antónia On the infimum of the local time of a Wiener process. 91e:60235
- Gasanenko, V. A. Probability of the sojourn time of a Wiener process in moving boundaries on a large time interval. (Russian) (see 91j:60006)
- The Wiener process in a curvilinear band. 91e:60236
- Griffin, Philip S. see Cox, J. T., 91h:60090
- Hanson, David Lee (with Russo, Ralph P.) Some "lim inf" results for increments of a Wiener process. 91f:60141
- Harrison, J. Michael (with Williams, Ruth J.) On the quasireversibility of a multiclass Brownian service station. 91e:60204
- Hida, Takeyuki (with Potthoff, J.; Streit, Ludwig) White noise analysis and applications. 91k:60086
- Infinite-dimensional rotation group and unitary group. 91a:60210
- Functionals of Brownian motion. 91f:60205
- Hsu, Pei see Bass, Richard F., 91a:60205
- Ivanova, G. I. A problem of controlling the Wiener process with a limited number of switchings. (Russian) (see 91g:60004)
- Jemlin, T. (with Yor, Marc) Filtration des ponts browniens et équations différentielles stochastiques linéaires. (English summary) [Filtration of Brownian bridges and linear stochastic differential equations] 91d:60206
- Johnson, Dudley Paul Some variations on Kac's formula for Brownian motion. 91e:60237
- Kaufman, Robert Dimensional properties of one-dimensional Brownian motion. 91h:60063
- Kenig, Carlos E. (with Pipher, Jill) The h -path distribution of the lifetime of conditioned Brownian motion for nonsmooth domains. 91a:60211
- Kishimoto, Kazuo Analytical expression of the expectation of a scale dependent "length" of a path of Brownian motion with drift. 91a:60212
- Kurth, Petra (with Pieper, Volkmar) Zuverlässigkeitsuntersuchungen auf der Grundlage von Niveauüberschreitungsmodellen. [Reliability investigations on the basis of level-crossing models] (Not in MR)
- Lachal, Aimé Sur l'intégrale du mouvement brownien. (English summary) [On the integrated Brownian motion process] 91d:60207
- Langer, Heinz (with Schenk, W.) Time reversal of transient gap diffusions. 91k:60087
- Lawler, Gregory F. see Burdzy, Krzysztof, 91g:60096 and 91g:60097
- Lefebvre, Mario (with Leonard, Eric) On the first hitting place of the integrated Wiener process. 91d:60196
- Le Gall, Jean-François Some intersection properties of Brownian paths and random walks. (see 91j:60003)
- Wiener sausage and self-intersection local times. 91e:60238
- Le Jan, Yves see Cranston, M., 91d:60195
- Leonard, Eric see Lefebvre, Mario, 91d:60196
- Lia, Hsu Nan Estimates for the probability distribution of a generalized Brownian sheet. (Chinese. English summary) 91h:60064
- Mac Aonghusa, P. (with Pulé, J. V.) An extension of Lévy's stochastic area formula. 91h:60092
- Makhovskii, Yu. A. see Berezhkovskii, A. M.; et al., 91c:60107
- Mandelbaum, Avi (with Shepp, Larry A.; Vanderbei, Robert J.) Optimal switching between a pair of Brownian motions. 91f:60208
- McGill, Paul Wiener-Hopf factorisation of Brownian motion. 91a:60213
- Motoo, Minoru Periodic extensions of two-dimensional Brownian motion on the half plane. I. 91d:60197
- Periodic extensions of two-dimensional Brownian motion on the half plane. II. 91k:60088
- Mountford, T. S. On the asymptotic number of small components created by planar Brownian motion. 91h:60065
- Neveu, J. (with Pitman, Jim W.) Renewal property of the extrema and tree property of the excursion of a one-dimensional Brownian motion. 91e:60239
- Onkaine, Y. Le "Skew-Brownian motion" et les processus qui en dérivent. 91e:60242
- Peurose, M. D. Quasi-everywhere properties of Brownian level sets and multiple points. 91d:60209
- Pieper, Volkmar see Kurth, Petra, (Not in MR)
- Pinsky, Mark A. Brownian motion in a small ball. (see 91j:60063)
- Pipher, Jill see Kenig, Carlos E., 91a:60211
- Pitman, Jim W. see Barlow, Martin T.; et al., 91a:60204; 91c:60106 and Neveu, J., 91e:60239
- Pitt, Loren D. On a problem of H. P. McKean: independence of Brownian hitting times and places. 91d:60198
- Pop-Stojanović, Zoran R. Correction: "Last exit time and harmonic measure for Brownian motion in R^2 " [in *Seminar on stochastic processes*, 1986 (Charlottesville, VA, 1986), 191–194, Birkhäuser Boston, Boston, MA, 1987; MR 88m:60207]. 91a:60214
- Portenko, N. I. see Elfenko, S. V., 91e:60203
- Potthoff, J. see Hida, Takeyuki; et al., 91k:60086
- Pulé, J. V. see Mac Aonghusa, P., 91h:60092
- Rogers, L. C. G. Brownian motion in a wedge with variable skew reflection. 91j:60136
- Russo, Ralph P. see Hanson, David Lee, 91f:60141
- San Martín, Jaime see Burdzy, Krzysztof, 91e:60233
- Schenk, W. see Langer, Heinz, 91k:60087
- Shakh, V. A. Local times for the norm of multidimensional Brownian motion. (Russian) 91j:60137
- Shepp, Larry A. see Doyle, Peter G., 91a:60208 and Mandelbaum, Avi; et al., 91i:60208
- Srisatkunrajah, S. see Van den Berg, Michiel, 91i:60200
- Streit, Ludwig see Hida, Takeyuki; et al., 91k:60086
- Suris, R. A. see Berezhkovskii, A. M.; et al., 91c:60107
- Sznitman, Alain-Sol Lifschitz tail and Wiener sausage on hyperbolic space. 91i:60210
- Takenaka, Shigeo On pathwise projective invariance of Brownian motion. III. 91j:60138
- Tichy, Robert F. see Blümlinger, M.; et al., 91e:60232
- Van den Berg, Michiel (with Srisatkunrajah, S.) Heat flow and Brownian motion for a region in R^2 with a polygonal boundary. 91i:60200
- Vanderbei, Robert J. see Mandelbaum, Avi; et al., 91i:60208
- Welary, Sophie Asymptotic results for independent Wiener sausages. Application to generalized intersection local times. 91h:60093
- Wesolowski, Jacek A martingale characterization of the Wiener process. 91i:60211
- Williams, David Brownian motion and the Riemann zeta-function. 91h:60094
- Williams, Ruth J. On time-reversal of reflected Brownian motions. 91d:60199
- see also Harrison, J. Michael, 91i:60204
- Yan, Zhi Bin see Zhao, Da Gang², (Not in MR)
- Yor, Marc On stochastic areas and averages of planar Brownian motion. 91a:60209b
- see also Barlow, Martin T.; et al., 91a:60204; 91c:60106 and Jeulin, T., 91i:60206
- Zhang, Chun Sheng Nondegenerate generalized Brownian motion and the encounter problem. (Chinese) 91j:60139
- Zhang, Tu Sheng Characterization of local time of d -dimensional Brownian motion and representation theorems on additive functionals. (Chinese) 91a:60215
- Zhang, Weijian Conditional expectations of Brownian functions and their applications. 91a:60216
- Zhao, Da Gang² (with Yan, Zhi Bin) A left infinitely near 0-1 law for Brownian motion. (Chinese) (Not in MR)

Items with secondary classifications in 60J65

- Amé, Colette Problème de la glace pilée. [The crushed-ice problem] 91a:58185
- Azéma, J. (with Yor, Marc) Étude d'une martingale remarquable. [Study of a remarkable martingale] 91e:60139
- Barlow, Martin T. Skew Brownian motion and a one-dimensional stochastic differential equation. 91e:60165
- (with Bass, Richard F.) Local times for Brownian motion on the Sierpiński carpet. 91j:60129
- (with Bass, Richard F.) On the resistance of the Sierpiński carpet. 91h:28008
- Bass, Richard F. see Barlow, Martin T., 91h:28008 and 91j:60129
- Beumee, J. G. B. (with Villalonga, E.; Rabitz, Herschel) Applications of stochastic mechanics to polyatomic lattices. 91i:81011
- Borodin, A. N. Distributions of functionals of Brownian local time. I. 91e:60223a
- Distributions of functionals of Brownian local time. II. 91e:60223b
- Boulean, Nicolas (with Hirsch, Francis) Sur une extension du théorème de Girsanov. (English summary) [On an extension of Girsanov's theorem] 91d:60086
- Brossard, Jean Effets de bord pour un tambour à bord fractal. [Boundary effects for a drum with a fractal boundary] 91b:58261
- Burdzy, Krzysztof (with Pitman, Jim W.; Yor, Marc) Brownian crossings between spheres. 91j:31003
- Cabaña, Enrique M. On a martingale characterization of two-parameter Wiener process. 91i:60126
- Calderoni, Paola (with Dürr, Detlef; Kusuoka, Shigeo) A mechanical model of Brownian motion in half-space. 91c:82045
- (with Dürr, Detlef) The Smoluchowski limit for a simple mechanical model. 91c:82046
- Comtet, Alain (with Desbois, J.; Ouyry, Stéphane) Winding of planar Brownian curves. 91m:82054
- Cutland, Nigel J. An action functional for Lévy Brownian motion. 91i:60132
- Dào Quang Tuyền see Erdős, L., 91k:82042
- Deheuvels, Paul (with Steinebach, Josef) On the sample path behavior of the first passage time process of a Brownian motion with drift. (French summary) 91i:60083
- Desbois, J. Characteristic function and Spitzer's law for the winding angle distribution of planar Brownian curves. 91g:82030
- see also Comtet, Alain; et al., 91m:82054
- Donati-Martin, C. Le problème de Buffon-Synge pour une corde. (English summary) [The Buffon-Synge problem for a string] 91j:60018
- Dürr, Detlef see Calderoni, Paola; et al., 91c:82045 and 91c:82046
- Dezhnevskii, I. A. Maximal functions with respect to Brownian motion. (Russian. English and Georgian summaries) 91k:31009
- Emery, M. (with Léandre, Rémi) Sur une formule de Bismut. [On a formula of Bismut] 91j:58175
- Erdős, L. (with Dào Quang Tuyền) Ergodic properties of the multidimensional Rayleigh gas with a semipermeable barrier. 91k:82042
- Erdős, Paul (with Révész, Pál) A new law of iterated logarithm. 91m:60052
- Fan, Ai Hua ★ Décompositions de mesures et recouvrements aléatoires. (French) [Decompositions of measures and random coverings] 91e:60009
- Fujiwara, Hirokazu (with Yamada, Tomoji) Fluctuation spectrum and order- q time correlation function for the Ornstein-Uhlenbeck process. 91m:82100
- Goldman, André Techniques biharmoniques pour l'étude du mouvement brownien de P. Lévy à trois paramètres. (English summary) [Biharmonic techniques for studying P. Lévy's three-parameter Brownian motion] 91e:60153
- Gundy, Richard F. ★ Some topics in probability and analysis. 91c:60059
- Haggis, Peter see Jung, Peter, 91f:82058
- Hirsch, Francis see Boulean, Nicolas, 91d:60086
- Hooghiemstra, G. Another visit to two halflines. 91d:60182
- Horváth, Lajos Strong laws and limit theorems for local time of Markov processes. 91i:60087
- Hsu, Pei Probabilistic methods in differential geometry. 91b:58273
- Huggins, R. M. The other law of the iterated logarithm for martingales. 91c:60035
- Jansons, Kalvis M. An analytical bound on the asymmetry of a section of a typical three-dimensional Brownian path. 91d:82020

- Jung, Peter (with Hanggi, Peter) Resonantly driven Brownian motion: basic concepts and exact results. 91f:82058
- Kaimanovich, V. A. Brownian motion on foliations: entropy, invariant measures, mixing. 91h:58124
- Karatzas, Ioannis (with Leheczy, John P.; Shreve, Steven E.; Xu, Gan-Lin) Optimality conditions for utility maximization in an incomplete market. 91h:90031
- Kendall, Wilfrid S. Stochastic differential geometry. (see 91j:60003)
- Kovalchik, I. M. (with Yanovich, L. A.) ★ Обобщенный винеровский интеграл и некоторые его приложения. (Russian) [The generalized Wiener integral and some of its applications] 91h:46039
- Kudzhma, R. Complex analysis and Brownian motion. (Russian) (see 91g:60005)
- Kusoka, Shigao see Calderoni, Paolo; et al. 91c:82045
- Lacey, Michael T. A remark on the multiparameter law of the iterated logarithm. 91a:60105
- Limit laws for local times of the Brownian sheet. 91j:60131
- Le, Hui Ling A stochastic calculus approach to the shape distribution induced by a complex normal model. 91j:58176
- Léandre, Rémi see Emery, M., 91j:58175
- Ledrappier, François Ergodic properties of Brownian motion on covers of compact negatively-curve manifolds. 91e:58210
- Lee, Tsang-Yow Conditioned limit theorems of stopped critical branching Bessel processes. 91g:60099
- Conditional limit distributions of critical branching Brownian motions. 91m:60154
- Leheczy, John P. see Karatzas, Ioannis; et al. 91h:90031
- Li, Yi Chia On the convergence of Wiener-Ito decomposition. 91k:60009
- Lukic, M. N. Rademacher-Walsh functions and the spectral type of Hermite polynomial of a Wiener process. (Serbo-Croatian summary) 91d:60119
- Martikainen, A. I. Fluctuations of a random argument of a Wiener process in the Skorokhod representation. (Russian) 91e:60101
- McGill, Paul Factorising Brownian motion at two boundaries; an example. (French summary) 91f:60135
- Morrow, Gregory J. (with Silverstein, Martin L.) Two parameter extension of an observation of Poincaré. 91a:60089
- Mounford, T. S. Double points and the Ornstein-Uhlenbeck process on Wiener space. 91h:60043
- Limiting behaviour of the occupation of wedges by complex Brownian motion. 91c:60046
- Oodaira, Hiroshi Freidlin-Wentzell type estimates for a class of self-similar processes represented by multiple Wiener integrals. 91g:60038
- Ouvry, Stéphane see Comtet, Alain; et al. 91m:82054
- Pitman, Jim W. see Burdzy, Krzysztof; et al. 91h:31003
- Pop-Stojanović, Zoran R. (with Rao, Murali) Continuity of solutions of Schrödinger equation. 91d:35059
- Prat, Jean-Jacques Analyticité transverse des lois de certaines fonctionnelles additives. (English summary) [Transverse analyticity of the laws of some additive functionals] 91h:60193
- Protter, Philip A connection between the expansion of filtrations and Girsanov's theorem. 91a:60144
- Rabitz, Herschel see Beumee, J. G. B.; et al. 91h:81011
- Rao, Murali Some results for functions of Kato class in domains of infinite measure. 91a:60195
- see also Pop-Stojanović, Zoran R. 91d:35059
- Ren, Jia Gang Topologie p -fine sur l'espace de Wiener et théorème des fonctions implicites. (English summary) [p -fine topology on Wiener space and an implicit-function theorem] 91m:60101
- Révész, Pál see Erdős, Paul, 91m:60052
- Rosen, Jay Random walks and intersection local time. 91j:60132
- Salisbury, Thomas S. Brownian bitransforms. 91h:60080
- Schneider, W. R. Fractional diffusion. 91j:35009
- Shreve, Steven E. see Karatzas, Ioannis; et al. 91h:90031
- Sidorowicz, József The structure of the conditional process \tilde{w} , with diffraction on the angle with a transfer from point x to point y in a short time t . 91h:60107
- Silverstein, Martin L. see Morrow, Gregory J., 91a:60089
- Spohn, Herbert The polaron functional integral. (see 91h:00034)
- Steinbach, Josef see Deheuvels, Paul, 91h:60083
- Strichartz, Robert S. Harmonic analysis on constant curvature surfaces with point singularities. 91h:42024
- Takahashi, Yôichirô An integral representation on the path space for scattering length. 91j:35083
- Thalmaier, Anton ★ Asymptotik Brownscher Bewegungen im Zusammenhang mit geometrischen und potentialtheoretischen Eigenschaften Riemannscher Mannigfaltigkeiten negativer Krümmung. (German) [The asymptotics of Brownian motions in connection with geometric and potential-theoretical properties of Riemannian manifolds with negative curvature] 91h:58125
- Villalonga, E. see Beumee, J. G. B.; et al. 91h:81011
- Wallstrom, Timothy C. The stochastic mechanics of the Pauli equation. 91h:81013
- Wang, Gang² Sharp maximal inequalities for conditionally symmetric martingales and Brownian motion. 91h:60121
- Williams, Ruth J. (with Zheng, Wei An) On reflecting Brownian motion—a weak convergence approach. (French summary) 91m:60143
- Wu, Chun Zhang Local translation and orthogonal invariance of Brownian motion on Riemann surfaces and their application. (Chinese. English summary) 91m:58169
- Xu, Gan-Lin see Karatzas, Ioannis; et al. 91h:90031
- Yamada, Tomoji see Fujisaka, Hirokazu, 91m:82100
- Yanovich, L. A. see Kovalchik, I. M., 91h:46039
- Yor, Marc see Azéma, J., 91e:60139 and Burdzy, Krzysztof; et al. 91h:31003
- Zhang, Tu Sheng Probabilistic approach to the Neumann problem. 91f:35089
- Zhang, Weijian On a bilinear stochastic partial differential equation in terms of cylindrical Brownian motion. 91e:60179
- Zhao, Zhong Xin Green functions and conditioned gauge theorem for a 2-dimensional domain. 91e:35079

- Subcriticality, positivity and gaugeability of the Schrödinger operator. 91h:35104
- Zheng, Wei An see Williams, Ruth J., 91m:60143
- Zhang, Xing Wu The generalized Brownian sheet and two-parameter harnesses. (Chinese. English summary) 91e:60158

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics see Gundy, Richard F., 91c:60059

60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [see also 92Dxx]

- Klosek-Dygas, M. M. see Naeh, T.; et al., 91i:60212
- Matkowsky, Bernard J. see Naeh, T.; et al., 91i:60212
- Naeh, T. (with Klosek-Dygas, M. M.; Matkowsky, Bernard J.; Schuss, Z.) A direct approach to the exit problem. 91i:60212
- Schuss, Z. see Naeh, T.; et al., 91i:60212
- Items with secondary classifications in 60J70
- Aalto, Erkki The Moran model and validity of the diffusion approximation in population genetics. 91g:92012
- Adler, Robert J. Fluctuation theory for systems of signed and unsigned particles with interaction mechanisms based on intersection local times. 91d:60166
- Barclon, Victor see Nagylaki, Thomas, 91e:92015
- Bouchaud, Jean-Philippe (with Comtet, Alain; Georges, Antoine; Le Doussal, P.) Classical diffusion of a particle in a one-dimensional random force field. 91k:82047
- Comtet, Alain see Bouchaud, Jean-Philippe; et al., 91k:82047
- Ethier, S. N. The infinitely-many-neutral-alleles diffusion model with ages. 91c:92036
- The distribution of the frequencies of age-ordered alleles in a diffusion model. 91m:92018
- Georges, Antoine see Bouchaud, Jean-Philippe; et al., 91k:82047
- Giorno, V. (with Nobile, A. G.; Ricciardi, Luigi M.) A symmetry-based constructive approach to probability densities for one-dimensional diffusion processes. 91d:60187
- Griffiths, R. C. Genealogical-tree probabilities in the infinitely-many-site model. 91m:60145
- Le Doussal, P. see Bouchaud, Jean-Philippe; et al., 91k:82047
- McConnell, Terry R. The two-sided Stefan problem with a spatially dependent latent heat. 91k:35257
- Nagylaki, Thomas The influence of spatial inhomogeneities on neutral models of geographical variation. I. Formulation. 91e:92014
- (with Barclon, Victor) The influence of spatial inhomogeneities on neutral models of geographical variation. II. The semi-infinite linear habitat. 91e:92015
- Models and approximations for random genetic drift. 91a:92005
- Nobile, A. G. see Giorno, V.; et al., 91d:60187
- Osada, Hirofumi The estimation of the transition probability of the diffusion process and its application. (Japanese) 91e:60218
- Ricciardi, Luigi M. (with Sato, Shunsuke) Diffusion processes and first-passage-time problems. 91m:60149
- see also Giorno, V.; et al., 91d:60187
- Sato, Shunsuke see Ricciardi, Luigi M., 91m:60149
- Shiga, Tokuzo A stochastic equation based on a Poisson system for a class of measure-valued diffusion processes. 91j:60093
- Shimizu, Akinobu A measure valued diffusion process describing an n locus model incorporating gene conversion. 91m:92019

60J75 Jump processes

- Chen, Mu Fa Probability metrics and coupling methods. 91a:60217
- Merzbach, Ely (with Nualart, David) Markov properties for point processes on the plane. 91d:60200
- Nualart, David see Merzbach, Ely, 91d:60200
- Items with secondary classifications in 60J75
- Arenas, C. On point processes in the plane. 91c:60064
- Bertoin, Jean Sur une horloge fluctuante pour les processus de Bessel de petites dimensions. [A fluctuating clock for Bessel processes of small dimension] 91m:60150
- Carlen, Eric A. (with Pardoux, Étienne) Differential calculus and integration by parts on Poisson space. 91g:60066
- Chernykh, S. I. see Maslov, V. P., (91j:60003)
- Costa, O. L. V. Stationary distributions for piecewise-deterministic Markov processes. 91d:60169
- Gettarek, Dariusz A note on impulsive control of Feller processes with costly information. (Czech summary) 91a:90080
- Gorwami, Asis K. On a martingale representation theorem of M. H. A. Davis—a Markovian approach. 91a:60128
- Lanery, É. Processus ponctuel exhaustif en décision statistique bayésienne. (English summary) [A sufficient point process in Bayesian statistical decision] 91g:62009
- Mallows, Colin L. (with Nair, Vijayan N.) On a zero-crossing probability. 91h:60083
- Mangel, Marc see Peters, Craig Steven, 91i:62138
- Maslov, V. P. (with Chernykh, S. I.) Global exact asymptotics of large deviations probabilities for diffusion and jump processes. (see 91j:60003)
- Mikulevicius, Remigius (with Pragarauskas, H.) Optimal Markov strategies for controllable Itô processes. 91e:93097
- Nair, Vijayan N. see Mallows, Colin L., 91h:60083
- Pardoux, Étienne see Carlen, Eric A., 91g:60066
- Peters, Craig Steven (with Mangel, Marc) New methods for the problem of collective ruin. 91i:62138
- Pezeshk, H. see Soltani, A. Reza, 91i:60231
- Pop, Amalia see Vlad, Marcel Ovidiu, 91k:82044
- Pragarauskas, H. see Mikulevicius, Remigius, 91e:93097
- Serfous, Richard F. Poisson functionals of Markov processes and queueing networks. 91h:60106

- Skorokhod, A. V. Markov processes and probabilistic applications in analysis. (Russian) (see 91f:60003)
- Soltani, A. Reza (with Pezeshki, H.) A shock model based on the atoms of Poisson random measure. 91f:60231
- Spreij, P. J. C. Self-exciting counting process systems with finite state space. 91h:93157
- Tanemura, Hideki Certain random motion of a ball colliding with infinite particles of jump type. 91a:60279
- Vlad, Marcel Ovidiu (with Pop, Amalia) Transition events fluctuations in jump Markovian dynamics. A general approach to Solc's problem. 91k:82044
- Voina, A. A. Problems on the filtering of jump-like processes with independent increments in a random environment. (Russian) 91d:60179

60J80 Branching processes (Galton-Watson, birth-and-death, etc.)

- Aliev, S. A. Convergence of Galton-Watson branching processes with several types of particles. (Russian) 91f:60213
- Convergence of Bellman-Harris branching processes. 91m:60152
- Arañá, N. M. On the speed of convergence for critical Galton-Watson processes. 91j:60140
- Badalshvili, I. S. (with Mukhitdinov, A.) Limit theorem for some statistics of multitype Galton-Watson process. (see 91j:60004)
- (with Mukhitdinov, A.) On an estimate for the direction of an eigenvector of a matrix of expected values in a multitype Galton-Watson process with immigration. (Russian) 91d:60201
- (with Ganikhodzhaev, A. N.) A limit theorem for the Bellman-Harris branching process with immigration under the condition on nonextinction. (Russian) 91d:60202
- Biggins, J. D. The central limit theorem for the supercritical branching random walk, and related results. 91d:60203
- Borde-Boussion, Anne-Marie Stochastic demographic models: age of a population. 91m:60153
- Cohn, Harry Multitype finite mean supercritical age-dependent branching processes. 91d:60204
- Coyle, Edward J. see Zhang, Ji 91f:60145
- Dekking, F. M. On the probability of occurrence of labelled subtrees of a randomly labelled tree. 91f:60142
- A nonlinear evolution with travelling waves. 91f:60214
- van Doorn, Erik A. Orthogonal polynomials and birth-death processes. 91a:60218
- Formanov, Sh. K. (with Yasin, Makhmud Takha) Limit theorems for periods of life for critical Galton-Watson branching processes with migration. (Russian) 91a:60219
- Gadag, V. G. (with Naik-Nimbalkar, U. V.; Rajarshi, M. B.) Ageing properties of the time to extinction of a multi-type branching process. 91f:60143
- A note on the multitype Markov branching process. 91a:60220
- Ganikhodzhaev, A. N. see Badalshvili, I. S., 91d:60202
- Gorostiza, Luis G. (with Lopez-Mimbela, Jose A.) The multitype measure branching process. 91d:60205
- (with Wakolbinger, Anton) Persistence criteria for a class of critical branching particle systems in continuous time. 91k:60089
- Gupta, S. C. see Srivastava, O. P., (Not in MR)
- Holzheimer, Joachim A limit theorem for a critical branching process with migration stopped at zero. (Polish summary) 91d:60206
- Ivanoff, B. Gall The multitype branching random walk: temporal and spatial limit theorems. 91a:60221
- Jagers, Peter Six lectures on branching processes as Markov fields. 91d:60207
- General branching processes as Markov fields. 91d:60208
- Kawano, Kiyoshi A birth and death process in random environment. (see 91j:60003)
- Kemp, Adrienne W. (with Newton, John) Certain state-dependent processes for dichotomised parasite populations. 91g:60098
- Kesten, Harry Supercritical branching processes with countably many types and the size of random Cantor sets. 91d:60209
- Klebaner, Fima C. Geometric growth in near-supercritical population size dependent multitype Galton-Watson processes. 91e:60243
- Kumar, B. Krishna see Parthasarathy, P. R., 91m:60155
- Lee, Tseng-Yow Conditioned limit theorems of stopped critical branching Bessel processes. 91g:60099
- Some limit theorems for critical branching Bessel processes, and related semilinear differential equations. 91e:60245
- Conditional limit distributions of critical branching Brownian motions. 91m:60154
- Le Jan, Yves Limites projectives de processus de branchement markoviens. (English summary) [Projective limit of Markovian branching processes] 91e:60244
- Li, Zeng Hu On the branching mechanisms of superprocesses. (Not in MR)
- Li, Zhan Bing An extension of E. B. Dynkin's problem. (Chinese. English summary) 91g:60190
- Lopez-Mimbela, Jose A. see Gorostiza, Luis G., 91d:60205
- Méléard, Sylvie (with Roelly-Coppoletta, Sylvie) A generalized equation for a continuous measure branching process. 91h:60095
- Mitov, Kosto V. The Bellman-Harris process with several types of particles and immigration at the zero state. (Bulgarian. English summary) 91a:60222
- Mukhitdinov, A. see Badalshvili, I. S., 91d:60201 and (91j:60004)
- Naik-Nimbalkar, U. V. see Gadag, V. G.; et al., 91f:60143
- Nerman, Olle Branching processes and neutral mutations. (see 91j:60004)
- Neveu, J. Multiplicative martingales for spatial branching processes. 91f:60144
- Newton, John see Kemp, Adrienne W., 91g:60098
- Ney, Peter Some remarks on a limiting diffusion for decomposable branching processes. 91h:60066
- Pakes, Anthony G. On the asymptotic behaviour of the extinction time of the simple branching process. 91k:60090
- The Markov branching process with density-independent catastrophes. II. The subcritical and critical cases. 91h:60067
- The Markov branching process with density-independent catastrophes. III. The supercritical case. 91h:60068
- Parthasarathy, P. R. Density-dependent Markov branching processes. 91k:60091
- (with Kumar, B. Krishna) Two stochastic analogues of the logistic process. 91m:60155
- Prehn, Uwe Grenzwertsätze für subkritische alternierende Verzweigungsprozesse mit diskreter Zeit und endlich vielen Teilchentypen. [Limit theorems for subcritical age-dependent branching processes with discrete time and finitely many particle types] 91e:60246
- Rajarshi, M. B. see Gadag, V. G.; et al., 91f:60143
- Rakhimov, I. U. A local theorem for Galton-Watson processes with slowly decreasing immigration. (Russian) 91e:60247
- Branching random processes with generalized immigration. (Russian) 91h:60069
- Roelly-Coppoletta, Sylvie (with Rouault, Alain) Processus de Dawson-Watanabe conditionné par le futur lointain. (English summary) [A Dawson-Watanabe process conditioned by the remote future] 91d:60210
- see also Méléard, Sylvie, 91h:60095
- Rouault, Alain see Roelly-Coppoletta, Sylvie, 91d:60210
- Sagitov, S. M. Total progeny of a critical branching process. (see 91j:60004)
- Salminea, Pavo On multiplicative excessive functions of a branching Brownian motion. 91e:60248
- Sankaranarayanan, G. ★ Branching processes and its estimation theory. 91m:60156
- Sholkhet, D. M. see Tarkhanov, N. N., 91a:60224
- Spätaru, Aurel Properties of branching processes with denumerably many types. 91e:60249
- Srivastava, O. P. (with Gupta, S. C.) On a continuous-time branching process with migration. (Italian summary) (Not in MR)
- Strzaker, D. Divergent growth processes. 91f:60215
- Sugitani, Sadao Some properties for the measure-valued branching diffusion processes. 91a:60223
- Tarkhanov, N. N. (with Sholkhet, D. M.) A remark on the probability of degeneration of a multidimensional branching Galton-Watson process. 91a:60224
- Topchil, V. A. Limit theorems for a critical branching Crump-Mode-Jagers processing. (see 91j:60004)
- Limit theorems for critical general branching processes with long-living particles. (Russian) (see 91e:60006)
- Vatutin, V. A. Asymptotic properties of Bellman-Harris critical branching processes starting with a large number of particles. 91f:60216
- (with Yanev, N. M.) A multidimensional critical Galton-Watson branching process with final types. 91g:60181
- Wakolbinger, Anton see Gorostiza, Luis G., 91d:60205
- Wei, C. Z. (with Winnicki, J.) Some asymptotic results for the branching process with immigration. 91c:60109
- Weiner, Howard J. A critical emigration branching process. 91m:60157
- Winnicki, J. see Wei, C. Z., 91c:60109
- Yanev, G. P. (with Yanev, N. M.) On the critical branching migration processes with predominant emigration. (Not in MR)
- Yanev, N. M. see Vatutin, V. A., 91g:60181 and Yanev, G. P., (Not in MR)
- Yasin, Makhmud Takha see Formanov, Sh. K., 91a:60219
- Ycart, Bernard A characteristic property of linear growth birth and death processes. 91g:60102
- Zhang, Ji (with Coyle, Edward J.) Transient analysis of quasi-birth-death processes. 91f:60145

Items with secondary classifications in 60J80

- Ades, M. (with Dion, J.-P.; Labelle, Gilbert) On estimating the age of a supercritical branching process. 91c:60275
- Anantharam, Venkatchalam (with Tsoucas, Pantelis) A proof of the Markov chain tree theorem. 91h:60055
- Dion, J.-P. see Ades, M.; et al., 91c:60275
- Durrett, Richard (with Kesten, Harry; Waymire, Edward C.) On weighted heights of random trees. 91m:60021
- Evans, Steven N. (with Perkins, Edwin A.) Absolute continuity results for superprocesses with some applications. 91k:60049
- Fayolle, Guy Ergodicity and asymptotic behaviour of multi-type branching processes arising in random-access communication systems. (see 91j:60003)
- Kesten, Harry see Durrett, Richard; et al., 91m:60021
- Kijima, Masaaki On transition probabilities of skip-free Markov chains. 91d:60160
- Kolchin, V. F. Random mappings and branching processes. (see 91j:60003)
- Kotevskan, P. Estimating the age of a Galton-Watson process with binomial offspring distribution. 91g:60266
- Labelle, Gilbert see Ades, M.; et al., 91c:60275
- Liu, Li (with Mueller, Carl) On the extinction of measure-valued critical branching Brownian motion. 91d:60117
- Mills, T. M. (with Seneta, Eugene) Goodness-of-fit for a branching process with immigration using sample partial autocorrelations. 91j:62133
- Mueller, Carl see Liu, Li, 91d:60117
- Pakes, Anthony G. Asymptotic results for the extinction time of Markov branching processes allowing emigration. I. Random walk decrements. 91k:60077
- Perkins, Edwin A. see Evans, Steven N., 91k:60049
- Rakhimov, I. U. (with Sirazhdinov, S. Kh.) Approximation of the distribution of a sum in a scheme for the summation of independent random variables. (Russian) 91d:60064
- Reimers, M. Hyperfinite methods for multidimensional stochastic processes. (see 91j:60003)
- Seneta, Eugene see Mills, T. M., 91j:62133
- Sirazhdinov, S. Kh. see Rakhimov, I. U., 91d:60064
- Skorokhod, A. V. Systems of interacting reproducing particles. (Russian) 91f:60281
- Spätaru, Aurel Construction of a Markov field on an infinite tree. 91j:60156
- Tsoucas, Pantelis see Anantharam, Venkatchalam, 91h:60055
- Waymire, Edward C. see Durrett, Richard; et al., 91m:60021
- Wei, C. Z. (with Winnicki, J.) Estimation of the means in the branching process with immigration. 91m:62155
- Winnicki, J. see Wei, C. Z., 91m:62155
- Ycart, Bernard Markov processes and exponential families on a finite set. 91d:60173

60J85 Applications of branching processes [see also 92Dxx]

- Finkelstein, Mark (with Tucker, Howard G.; Veeh, Jerry Alan) The limit distribution of the number of rare mutants. **91m:60158**
 Larsson, Per L'ensemble différence de deux ensembles de Cantor aléatoires. (English summary) [The difference set of two random Cantor sets] **91d:60211**
 Tucker, Howard G. see Finkelstein, Mark; et al., **91m:60158**
 Veeh, Jerry Alan see Finkelstein, Mark; et al., **91m:60158**

Items with secondary classifications in 60J85

- Altenburg, H.-P. On a branching model for chemotherapy. (see **91j:52001**)
 Dekking, F. M. A nonlinear evolution with travelling waves. **91h:60214**
 Saavedra Santana, Pedro (with Sánchez García, Miguel) A population process with offspring distribution depending on both population size and generation. **91h:92019**
 Sánchez García, Miguel see Saavedra Santana, Pedro, **91h:92019**
 Sridharan, V. see Srinivasan, S. K., **91h:60099**
 Srinivasan, S. K. (with Sridharan, V.) Multiphase evolution of population and its application to optics and colliding-beam experiments. **91h:60099**
 Tanushev, M. S. see Yakovlev, A. Yu.; et al., **(91j:60004)**
 Yakovlev, A. Yu. (with Tanushev, M. S.; Yanev, N. M.) Bellman-Harris branching processes and distributions of marks in proliferating cell populations. (see **91j:60004**)
 Yanev, N. M. see Yakovlev, A. Yu.; et al., **(91j:60004)**

60J99 None of the above, but in this section

- Grigorescu, Serban (with Popescu, Gheorghe) Random systems with complete connections as a framework for fractals. **91h:60096**
 Ivanov, V. N. Almost-periodic Markov processes. (Russian) (see **91j:60001**)
 Kloosk-Dygas, M. M. (with Matkowsky, Bernard J.; Schuss, Z.) First-order dynamics driven by rapid Markovian jumps. **91c:60110**
 Matkowsky, Bernard J. see Kloosk-Dygas, M. M.; et al., **91c:60110**
 Popescu, Gheorghe see Grigorescu, Serban, **91h:60096**
 Schuss, Z. see Kloosk-Dygas, M. M.; et al., **91c:60110**
 Wunsch, Gerhard Allgemeine Theorie der Prozessdarstellung. I. [General theory of process presentation. I] **91j:60141**

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- Accardi, Luigi Cecchini's transition expectations and Markov chains. **91h:46110**
 Alberverio, Sergio (with Yasue, Kunio; Zambini, J.-C.) Euclidean quantum mechanics: analytical approach. (French summary) **91c:81034**
 — (with Fenstad, Jens Erik; Hoegh-Krohn, Raphael J.; Lindström, Tom L.) ★ Нестандартные методы в стохастическом анализе и математической физике. (Russian) [Nonstandard methods in stochastic analysis and mathematical physics] **91h:60001**
 Chen, Mu Fa Ergodic theorems for reaction-diffusion processes. **91h:60111**
 Fenstad, Jens Erik see Alberverio, Sergio; et al., **91h:60001**
 Frishling, Volf Multiple discrete semigroups of operations. **91h:93155**
 Fuchs, Almé (with Letta, Giorgio) Les lois géométrique et exponentielle comme solutions d'un problème de durée moyenne de vie. [Geometric and exponential distributions as solutions of an average-life-span problem] **91h:62016**
 Gray, Lawrence F. Comparison techniques for Markovian models of cell growth. (see **91j:92001**)
 Hoegh-Krohn, Raphael J. see Alberverio, Sergio; et al., **91h:60001**
 Huang, Ch'i-Jui Random perturbation and its application to simulated annealing. (see **91e:00022**)
 Kifer, Yuri ★ Random perturbations of dynamical systems. **91e:58159**
 Lauritzen, Steffen L. (with Spiegelhalter, David J.) Local computations with probabilities on graphical structures and their application to expert systems. **91a:68252**
 Letta, Giorgio see Fuchs, Almé, **91h:62016**
 Lindström, Tom L. see Alberverio, Sergio; et al., **91h:60001**
 Richman, David R. (with Sharp, W. E.) A method for determining the reversibility of a Markov sequence. **91g:86010**
 Sharp, W. E. see Richman, David R., **91g:86010**
 (Shubin, M. A.) see Alberverio, Sergio; et al., **91h:60001**
 Spiegelhalter, David J. see Lauritzen, Steffen L., **91a:68252**
 Tempelman, A. A. (with Zalyas, Albertas) The structure and evolution of Gaussian fields connected in a Markov chain. (Russian) **91h:60136**
 White, Douglas John Approximating the Markov property in Markov decision processes. **91e:90128**
 Wunsch, Gerhard Universelle Markov-Prozesse. [Universal Markov processes] **91c:60091**
 Yasue, Kunio see Alberverio, Sergio; et al., **91c:81034**
 Zalyas, Albertas see Tempelman, A. A., **91h:60136**
 Zambini, J.-C. see Alberverio, Sergio; et al., **91c:81034**
 Zhou, Jian Wei? Two-parameter regular Markov processes. (Chinese) **91a:60137**
 (Zvonkia, A. K.) see Alberverio, Sergio; et al., **91h:60001**

60Kxx Special processes**60K05 Renewal theory**

- Anisimov, V. V. Limit theorems for developing accumulation processes. (Russian) **91j:60142**
 Glynn, Peter W. (with Iglehart, Donald L.) Smoothed limit theorems for equilibrium processes. **91d:60212**
 Gribel, Rudolf (with Pitts, Susan M.) Perturbation and rearrangement aspects of renewal and harmonic renewal sequences. **91f:60146**
 Hagwood, Robert Charles A renewal theorem in multidimensional time. **91d:60213**
 Huang, Zhi Rui see Liang, Zhi Shun, **91h:60097**
 Iglehart, Donald L. see Glynn, Peter W., **91d:60212**

- Kalashnikov, V. V. (with Vsekhsvyat-skii, S. Yu.) On the connection of Rényi's theorem and renewal theory. **91e:60250**
 Keener, Robert Asymptotic expansions in multivariate renewal theory. **91d:60214**
 Kotlyar, V. Yu. Nonstationary estimates for the characteristics of renewal processes of Markov type in classes of "aging" distributions. (Not in MR)
 Kutsiya, P. P. A multidimensional renewal theorem. (Russian. English and Georgian summaries) **91h:60217**
 — Regenerative processes with infrequent switchings. (Russian. English and Georgian summaries) **91h:60092**
 Liang, Zhi Shun (with Huang, Zhi Rui) Hungarian semigroups, the arithmetic of generalized renewal sequences and semi-P-functions. **91h:60097**
 Liggett, Thomas M. Total positivity and renewal theory. **91f:60147**
 Neuts, Marcel F. (with Sumita, Ushio; Takahashi, Yoshitaka) Renewal characterization of Markov modulated Poisson processes. **91a:60225**
 Newman, Charles M. Convergence of the sum of reciprocal renewal times. **91h:60218**
 Novikov, M. M. (with Turbin, A. F.) The potential operator of a Markov chain that is embedded in a Markov renewal process and that describes the superposition of N independent renewal processes. (Russian) (see **91a:60002**)
 Oprisan, Gheorghe (with Popescu, Gheorghe) The renewal equation for renewal processes with complete connections. **91c:60111**
 Peruničić, P. M. Stability in some rarefaction models. (Serbo-Croatian summary) **91f:60148**
 Petunina, M. Yu. Censoring and cutting of random point processes. **91d:60215**
 Pitts, Susan M. see Gribel, Rudolf, **91f:60146**
 Popescu, Gheorghe see Oprisan, Gheorghe, **91c:60111**
 Sivazlian, B. D. On the joint distribution of the number of renewals in a renewal process. **91h:60070**
 Stadje, Wolfgang On the waiting times for coincidences in a renewal process. **91f:60149**
 — The asymptotic behavior of the renewal density. **91h:60219**
 — Bin-packing problems for a renewal process. (French summary) **91h:60220**
 Steutel, F. W. (with Willekens, E. K. E.) Letter to the editor: "The key renewal theorem revisited" [Math. Sci. 13 (1988), no. 1, 29–35; MR 89e:60058] by P. Todorovic. **91a:60226**
 Sumita, Ushio see Neuts, Marcel F.; et al., **91a:60225**
 Takahashi, Yoshitaka see Neuts, Marcel F.; et al., **91a:60225**
 (Todorovic, P.) see Steutel, F. W., **91a:60226**
 Turbin, A. F. see Novikov, M. M., **(91a:60002)**
 Vsekhsvyat-skii, S. Yu. see Kalashnikov, V. V., **91e:60250**
 Walk, H. Nonlinear renewal theory under growth conditions. **91a:60227**
 Willekens, E. K. E. Asymptotic approximations of compound distributions and some applications. **91c:60112**
 — see also Steutel, F. W., **91a:60226**
 Winter, B. B. Joint simulation of backward and forward recurrence times in a renewal process. **91h:60098**
 Wolff, Ronald W. ★ Stochastic modeling and the theory of queues. **91a:60228**
 Woodroffe, Michael On the nonlinear renewal theorem. **91h:60221**

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- Alsmeyer, Gerold On first and last exit times for curved differentiable boundaries. **91g:60059**
 Brown, Mark Error bounds for exponential approximations of geometric convolutions. **91h:60057**
 Gießing, R. (with Steinebach, Josef) Invariance principles for compound renewal processes with applications. **91j:60062**
 Hoelman, Craig see Slud, Eric, **91e:60094**
 Högland, Thomas An asymptotic expression for the probability of ruin within finite time. **91d:60054**
 Muzrapov, S. A. Boundary functionals of a bounded regenerative random walk process. (Russian) **91j:60119**
 Neuts, Marcel F. (with Sitaraman, H.) The square-wave spectral density of a stationary renewal process. **91f:60085**
 Postelnica, Viorica Multivariate positive dependent random processes. **91j:60067**
 Ramachandran, B. On the equation $f(x) = \int_{-\infty}^{\infty} f(x+y) d\mu(y)$. **91h:45006**
 — On the equation $f(x) = \int_{-\infty}^{\infty} f(x+y) d\mu(y)$ for $x \geq 0$. **91e:45011**
 Sitaraman, H. see Neuts, Marcel F., **91f:60085**
 Slud, Eric (with Hoelman, Craig) Moderate- and large-deviation probabilities in actuarial risk theory. **91e:60094**
 Steinebach, Josef see Gießing, R., **91j:60062**
 Szekli, R. On the concavity of the infinitesimal renewal function. **91j:60126**

60K10 Applications (reliability, demand theory, etc.)

- Abouammoh, A. M. see Ahmed, Abdul-Hadi Nabih, (Not in MR)
 Ahmed, Abdul-Hadi Nabih (with Abouammoh, A. M.) On closure under formation of coherent systems. (Not in MR)
 Anisimov, V. V. see Satrik, János, **91d:60217**
 Bansal, Sachendra see Gupta, Rakesh; et al., (Not in MR)
 Bobbio, Andrea (with Trivedi, Kishor S.) Computation of the distribution of the completion time when the work requirement is a PH random variable. **91e:60251**
 Bondarev, B. V. (with Khalatyan, E. M.) A method for calculating the exponents of functional reliability of complex systems. (Russian) (see **91j:60001**)
 Brandt, Andreas (with Sulanke, Hannelore) Reliability analysis of a stand-by system with repair and intermediate stocks for failed and repaired units. **91g:60103**
 Buono, Vanderlei C. Generalizing the importance of components for multistate monotone systems. **91c:60113**
 Chrysaphinou, Ourania (with Papastavridis, Stavros G.) Limit distribution for a consecutive-k-out-of-n:F system. **91f:60150**
 — (with Papastavridis, Stavros G.) Reliability of a consecutive-k-out-of-n system in a random environment. **91h:60222**

- Çinar, Erhan** (with Shaked, Moshe; Shanthikumar, J. George) On lifetimes influenced by a common environment. **91f:60151**
- Donnelly, Peter** (with Whitt, Ward) On reinforcement-depletion compartmental urn models. **91d:60216**
- Dutta, K.** (with Sriwastav, G. L.) Warm standbys in stress-strength model. (Not in MR)
- Ebrahimi, Nader** Ordering of repairable systems. **91e:60252**
- Genis, Ya. G.** Two-sided estimates for the reliability of a renewable system under a nonstationary operational regime. (Not in MR)
- Goel, L. R.** see Gupta, Rakesh; et al. (Not in MR)
- Grishchenko, V. A.** (with Stollik, Yu. B.) Reliability of a system with a cyclic organization of operation. (Russian) (see 91j:60006)
- Gupta, Rakesh** (with Bansal, Sachendra; Goel, L. R.) Cost-benefit analysis of two-unit cold standby system with the provision of rest to a unit. (Not in MR)
- Gut, Allan** Cumulative shock models. **91j:60143**
- Hines, Howard P.** see Sarma, Yadavalli V. S., **91f:60224**
- Kalashnikov, V. V.** ★ Количественные оценки в теории надежности. (Russian) [Quantitative estimates in reliability theory] **91c:60114**
- Karasa, Iri** (with Özekici, Süleyman) NBUE and NWUE properties of increasing Markov processes. **91e:60253**
- Khalatyan, E. M.** see Bondarev, B. V., **(91j:60001)**
- Kovalenko, I. N.** (with Kuznetsov, N. Yu.; Nakonechnyi, A. N.) Optimization of the reliability characteristics of systems based on the use of quantitative continuity estimates and methods for accelerated modeling. (Russian) (see 91g:60004)
- (with Kuznetsov, N. Yu.) Methods for the accelerated modeling of the characteristics of highly reliable systems. (Russian) (see 91g:60005)
- Kuznetsov, N. Yu.** see Kovalenko, I. N.; et al., **(91g:60004)** and **(91g:60005)**
- Lam, Yeh** A repair replacement model. **91f:60152**
- Leffevre, Claude** (with Milhaud, Xavier) On the association of the lifetimes of components subjected to a stochastic environment. **91f:60223**
- Liu, Sheng Guang** A geometric renewal process model for the structural stress $S(t)$. (Chinese. English summary) (Not in MR)
- The probability distribution of the maximum of the Γ -renewal square wave process of the structural stress $S(t)$. (Chinese. English summary) (Not in MR)
- Lomakin, M. I.** Guaranteed estimates for the probability of failure-free work in a class of distributions with fixed moments. (Russian) (Not in MR)
- Mahmoud, Mohamed** (with Mokkies, N. A.; Saleh, E. H.) A two nonidentical units redundant system with common-cause failure and one standby unit. **91c:60115**
- Milhaud, Xavier** see Leffevre, Claude, **91f:60223**
- Mokkies, N. A.** see Mahmoud, Mohamed; et al., **91c:60115**
- Nakonechnyi, A. N.** see Kovalenko, I. N.; et al., **(91g:60004)**
- Obretenov, A.** On the rate of convergence for the extreme value in the case of IFR-distributions. **91e:60254**
- Özekici, Süleyman** see Karasa, Iri, **91e:60253**
- Papastavridis, Stavros G.** see Chrysaphinou, Oronia, **91f:60150** and **91f:60222**
- Saleh, E. H.** see Mahmoud, Mohamed; et al., **91c:60115**
- Sarma, Yadavalli V. S.** (with Hines, Howard P.) Joint distribution of uptime and disrepairment time for an intermittently-used parallel system. **91f:60224**
- Shaked, Moshe** see Çinar, Erhan; et al., **91f:60151**
- Shanthikumar, J. George** see Çinar, Erhan; et al., **91f:60151**
- Solov'ev, G. A.** Control reliability of the technical state of a simple restorable object. (Russian) (Not in MR)
- Sridharan, V.** see Srinivasan, S. K., **91h:60099**
- Srinivasan, S. K.** (with Sridharan, V.) Multiphase evolution of population and its application to optics and colliding-beam experiments. **91h:60099**
- Sriwastav, G. L.** see Dutta, K., (Not in MR)
- Stadje, Wolfgang** (with Zuckerman, Dror) Optimal strategies for some repair replacement models. **91f:60225**
- Stollik, Yu. B.** see Grishchenko, V. A., **(91j:60006)**
- Sulanka, Hannelore** see Brandt, Andreas, **91g:60103**
- Sztrik, János** (with Anisimov, V. V.) Reliability analysis of a complex renewable system with fast repair. (German and Russian summaries) **91d:60217**
- Asymptotic analysis of a complex renewable system operating in Markovian environments. **91h:60093**
- Tortorella, Michael** Comparing renewal processes, with application to reliability modeling of highly reliable systems. **91m:60159**
- Trivedi, Kishor S.** see Bobbio, Andrea, **91e:60251**
- Whitt, Ward** see Donnelly, Peter, **91d:60216**
- Zuckerman, Dror** see Stadje, Wolfgang, **91f:60225**
- Zverkina, G. A.** A priority model in reliability theory. (Russian) (see 91g:60003)
- Items with secondary classifications in 60K10**
- Anantharaman, N.** see Gopalan, M. N., **91k:90066**
- Baxter, Laurence A.** (with Lee, Seung Min) A weak convergence theorem for continuum structure functions. **91j:60007**
- Chukova, S.** (with Khalil, Z.) On the moving T -screening of nonstationary Poisson processes. (Not in MR)
- Fawzi, B. B.** (with Hawkes, A. G.) Availability of a series system with replacement and repair. **91j:90038**
- Gopalan, M. N.** (with Anantharaman, N.) Analysis of production systems with reliable machines and random processing times—a review. **91k:90066**
- Hawkes, A. G.** see Fawzi, B. B., **91j:90038**
- Jensen, Uwe** A general replacement model. (German summary) **91k:90068**
- Kalashnikov, V. V.** Analytical and simulation estimates of reliability for regenerative models. **91a:90082**
- Khalil, Z.** see Chukova, S., (Not in MR)
- Kijima, Masaaki** (with Nakagawa, Toshio) A cumulative damage shock model with imperfect preventive maintenance. (Not in MR)
- Kocher, Subhash C.** On preservation of some partial orderings under shock models. **91f:60037**
- Kupka, Joseph** (with Loo, Sonny) The hazard and vitality measures of ageing. **91a:62269**
- Kurth, Petra** (with Pieper, Volkmar) Zuverlässigkeitsuntersuchungen auf der Grundlage von Niveauüberschreitungsmodellen. [Reliability investigations on the basis of level-crossing models] (Not in MR)
- Lee, Seung Min** see Baxter, Laurence A., **91j:60007**
- Loo, Sonny** see Kupka, Joseph, **91a:62269**
- Matveev, V. F.** (with Tolutsaeva, G. D.) A system with cyclic service by standby devices and batch processing of customers. (Russian) (see 91b:60003)
- Meenakshi Bai, M.** see Venugopal, N., **91j:60154**
- Nakagawa, Toshio** see Kijima, Masaaki, (Not in MR)
- Pieper, Volkmar** see Kurth, Petra, (Not in MR)
- Sander, Wolfgang** A note on the exponential distribution. **91f:60207**
- Solomon, Frederick** Residual lifetimes in random parallel systems. **91e:62260**
- Stadje, Wolfgang** Optimal stopping in a cumulative damage model. (German summary) (Not in MR)
- Sweet, Arnold L.** (with Wilson, James R.) Renewal-theoretic considerations in evaluation of forecast monitoring schemes. **91b:62190**
- Sztrik, János** Limit behavior of a controlled repairable $\bar{M}_s/M_s/n$ system. **91a:60233**
- Tolutsaeva, G. D.** see Matveev, V. F., **(91b:60003)**
- Valdés Castro, Concepción** Reliability estimate for a complex of identical repairable systems. (Spanish. English summary) **91g:90073**
- Venugopal, N.** (with Meenakshi Bai, M.) A unified approach through point processes to storage and reliability models. **91j:60154**
- Wilson, James R.** see Sweet, Arnold L., **91b:62190**
- Yang, Grace L.** A renewal look at switching rules in the MIL-STD-105D sampling system. **91a:62281**

60K15 Markov renewal processes, semi-Markov processes

- Aizawa, Yoji** see Kikuchi, Yasuhiro, (Not in MR)
- Aliiev, A. O.** see Anisimov, V. V., **91f:60153**; **91f:60226** and **91k:60094**
- Anisimov, V. V.** (with Aliiev, A. O.) The averaging principle and diffusion approximation of recurrent processes of semi-Markov type. (Russian) **91k:60094**
- (with Aliiev, A. O.) ★ Диффузионная аппроксимация рекуррентных алгоритмов полумарковского типа и ее приложения в системах обслуживания. (Russian) [Diffusion approximation of recursive algorithms of semi-Markov type and its applications in queueing systems] **91f:60226**
- (with Aliiev, A. O.) Limit theorems for recurrent processes of semi-Markov type. **91f:60153**
- Elelko, Ya. I.** Limit distribution of time averages for additive functionals defined on a semi-Markov process. (Russian) **91f:60227**
- Limit distribution for processes with semi-Markov interference of chance. **91a:60229**
- Limit distribution of time averages for additive functionals defined on a semi-Markov process. **91m:60160**
- Fygenson, Mendel** A fundamental matrix for regular semi-Markov processes. **91e:60255**
- He, Qi Ming** see Xu, Guang Hui, **91f:60229**
- Hu, Jian Qiang** (with Strickland, Stephen G.) Strong consistency of sample path derivative estimates. **91j:60144**
- Kikuchi, Yasuhiro** (with Aizawa, Yoji) Anomalous convergence of the time average in semi-Markovian chaotic dynamics. (Not in MR)
- Korolyuk, V. S.** ★ Стохастические модели систем. (Russian) [Stochastic models of systems] **91d:60218**
- (with Svishchuk, A. V.) A central limit theorem for inhomogeneous semi-Markov random evolutions. **91h:60071**
- Central limit theorem for semi-Markov random evolutions. **91a:60230**
- Mallinowski, V. K.** Integral and local limit theorems for recurrent Markov renewal processes. (Russian) **91m:60161**
- Nasirova, T. I.** Complex processes of a semi-Markov random walk with a reflecting barrier at zero. (Russian) (see 91j:60001)
- Obukherin, Yu. E.** (with Peschanskii, A. I.) Stationary characteristics of a multiregime renewal process with switching. (Russian. English summary) (Not in MR)
- Peschanskii, A. I.** see Obukherin, Yu. E., (Not in MR)
- Pirdzhanov, B.** Semi-Markov random walks with lattice time. **91d:60219**
- Pogoril, A. A.** Distribution of the time of attainment of an infinitely distant level by a family of semi-Markov processes with a splitting phase space. (Russian) **91f:60154**
- Postan, M. Ya.** ★ Полумарковские процессы накопления и расходования запасов и их применение. (Russian) [Semi-Markov processes of the accumulation and expenditure of reserves and their application] **91f:60228**
- On the invariance of stationary ergodic distributions of homogeneous Markov processes with respect to random interruptions. **91a:60231**
- Ruzhichik, N. A.** Nonregular semi-Markov processes. **91d:60220**
- Limit properties of functionals on irregular semi-Markovian processes. **91d:60221**
- Sil'vestrov, D. S.** Conditions for the convergence in the J -topology of accumulation processes with semi-Markov switchings. (Russian. English summary) **91f:60155**
- Strickland, Stephen G.** see Hu, Jian Qiang, **91j:60144**
- Sviridenko, M. N.** A martingale approach to limit theorems for semi-Markov processes. **91h:60072**
- Svishchuk, A. V.** A martingale approach to a central limit theorem in an averaging scheme for semi-Markov random evolutions. (Russian) **91e:60256**
- Weak convergence of semi-Markov random evolutions in an averaging scheme (the martingale approach). **91g:60071**
- see also Korolyuk, V. S., **91b:60071**
- Tomkó, József** On the theory of semi-Markov processes with a general phase space. **91d:60222**
- Wang, Jing³** (with Yang, De Li) A generalized Markov renewal process and its applications. (Chinese. English summary) **91a:60232**
- Xu, Guang Hui** (with He, Qi Ming) The residual life for alternating renewal processes. **91f:60229**
- Yang, De Li** see Wang, Jing³, **91a:60232**

Items with secondary classifications in 60K15

- Aller, A. O. *see* Anisimov, V. V., 91m:60057
 Anisimov, V. V. (with Aller, A. O.) Functional limit theorems for centered processes with semi-Markov switchings. (Russian) 91m:60057
 Dabrowski, André Robert (with McDonald, David R.; Röser, Uwe) Renewal theory properties of ion channels. 91j:62121
 Eletko, Ya. I. Limit distribution of time averages for processes with semi-Markov interference of chance. 91j:60037
 Korolyuk, V. S. (with Svishchuk, A. V.) Semi-Markov random evolutions—phase aggregation and applications. 91e:60185
 McDonald, David R. *see* Dabrowski, André Robert; et al., 91j:62121
 Neuts, Marcel F. ★ Structured stochastic matrices of $M/G/1$ type and their applications. 91d:60161
 — (with Sumita, Ushio; Takahashi, Yoshitaka) Renewal characterization of Markov modulated Poisson processes. 91a:60225
 Röser, Uwe *see* Dabrowski, André Robert; et al., 91j:62121
 Sumita, Ushio *see* Neuts, Marcel F.; et al., 91a:60225
 Svishchuk, A. V. *see* Korolyuk, V. S., 91e:60185
 Takahashi, Yoshitaka *see* Neuts, Marcel F.; et al., 91a:60225

60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90Bxx]

- Anisimov, V. V. (with Sereda, V. I.) Sample control of semi-Markov systems. 91c:60116
 Falin, G. I. Monotonicity properties of structurally complex switching systems with losses. 91k:60095
 Marcellus, Richard L. A Markov renewal approach to the Poisson disorder problem. 91d:60223
 Nain, Philippe (with Tsoucas, Pantelis; Walrand, Jean) Interchange arguments in stochastic scheduling. 91i:60230
 Pezeshki, H. *see* Soltani, A. Reza, 91i:60231
 Sereda, V. I. *see* Anisimov, V. V., 91c:60116
 Shlepakov, L. N. (with Vovkodav, N. G.) A stationary coefficient of readiness of engineering lines with accumulators. (Russian) (Not in MR)
 Shnurkov, P. V. A stochastic model of planned engineering service. (Russian) (see 91j:60006)
 Shpak, V. D. Unbiased estimates for the solution of a linear integral equation of the second kind and their application to the calculation of reliability indices of semi-Markov systems. (Russian) 91d:60224
 — Analytic-stochastic method for calculating the probability of failure-free operation of semi-Markov systems. (Russian) (see 91j:60006)
 — A general approach to the construction of unbiased analytic-statistical estimates for reliability and efficiency indices of systems. (Russian) 91e:60257
 Soltani, A. Reza (with Pezeshki, H.) A shock model based on the atoms of Poisson random measure. 91i:60231
 Sotrik, János Limit behavior of a controlled repairable $\bar{M}_s/M_s/n$ system. 91a:60233
 Tsoucas, Pantelis *see* Nain, Philippe; et al., 91i:60230
 Vovkodav, N. G. *see* Shlepakov, L. N., (Not in MR)
 Walrand, Jean *see* Nain, Philippe; et al., 91i:60230

Items with secondary classifications in 60K20

- Block, Henry W. (with Langberg, Naftali A.; Savits, Thomas H.) Maintenance comparisons: block policies. (Not in MR)
 Cao, Jin Hua Availability and failure frequency of a Gnedenko system. (Not in MR)
 Hunter, Jeffrey J. Sojourn time problems in feedback queues. 91e:60273
 Jensen, Uwe Monotone stopping rules for stochastic processes in a semimartingale representation with applications. 91a:60114
 Khomenko, L. P. *see* Kotlyar, V. Yu., (Not in MR)
 Kotlyar, V. Yu. (with Khomenko, L. P.) Investigation of the reliability of a system with an unloaded reserve and controllable failures in an array setup. (Not in MR)
 Krishnamoorthy, A. *see* Manoharan, M., 91b:90072
 Langberg, Naftali A. *see* Block, Henry W.; et al., (Not in MR)
 Malhamé, Roland A jump-driven Markovian electric load model. (Not in MR)
 Manoharan, M. (with Krishnamoorthy, A.) Markov renewal theoretic analysis of a perishable inventory system. 91b:90072
 Neuts, Marcel F. ★ Structured stochastic matrices of $M/G/1$ type and their applications. 91d:60161
 Savits, Thomas H. *see* Block, Henry W.; et al., (Not in MR)
 Wang, Jing (with Yang, De Li) A generalized Markov renewal process and its applications. (Chinese. English summary) 91a:60232
 Wenocur, Michael L. A reliability model based on the gamma process and its analytic theory. 91e:90047
 Yang, De Li *see* Wang, Jing, 91a:60232

60K25 Queueing theory [see also 68M20, 90B22]

- Abyshkin, V. A. (with Basharin, G. P.) Insensitivity of a model of a multiprocessor system. (Russian) (see 91e:60003)
 Adachi, Kōichi *see* Liu, Li Wen; et al., 91b:60105
 Afanas'ev, B. A. A queueing system under conditions of a high load with a quantum discipline. (Russian) (see 91g:60003)
 Afanas'eva, L. G. Ergodicity of a multichannel system for an arbitrary queueing discipline. (Russian) (see 91g:60003)
 Agarwal, M. L. *see* Kumar, Ashok; et al., (Not in MR)
 Akyildiz, I. F. (with von Brand, Horst) Dual and selfdual networks of queues with rejection blocking. (German summary) 91i:60232
 Alex, Michael (with Steinebach, Josef) Invariance principles in queueing theory. 91f:60156
 Ali, Hydar Expected number of departures in $M/M/1$ and $G/G/1$ queues. 91m:60162
 Allen, Arnold O. ★ Probability, statistics, and queueing theory. 91i:60233

- Alperstein, Hanna A monopoly service facility offers two priority prices—preemptive resume versus nonpreemptive disciplines. 91d:60225
 Altok, Tayfur Approximate analysis of queues in series with phase-type service times and blocking. 91b:60100
 Anantharam, Venkatchalam How large delays build up in a $GI/G/1$ queue. 91e:60258
 — (with Tsoucas, Pantelis) Stochastic concavity of throughput in series of queues with finite buffers. 91j:60145
 Anastassiou, George A. (with Rachev, Svetlozar T.) Approximation of a random queue by means of deterministic queueing models. (see 91j:41001)
 Anisimov, V. V. (with Chabanyuk, V. S.) Application of the Skorokhod reflection problem in diffusion approximation of queueing networks. 91m:60163
 Apanasovich, V. V. A queueing system as a transformer of random flows. 91e:60259
 Aral, Koji (with Kawashima, Takeshi) An analysis for the $GI/G/1$ queue with push-out priority discipline. (Not in MR)
 Arora, R. T. (with Tuteja, R. K.) A control policy for a single server queue. 91i:60234
 Asadullin, M. Kh. Asymptotic behavior of the number of busy lines for a class of multichannel queueing systems. (Russian) 91d:60226
 Asmussen, Søren Validating the heavy traffic performance of regenerative simulation. 91d:60234
 Assaf, David (with Haviv, Moshe) Reneging from processor sharing systems and random queues. 91c:60117
 Atadzhanyan, Kh. *see* Kelzhanov, K., (91b:60030)
 Avi-Itzhak, Benjamin (with Halfin, Shlomo) Response times in gated $M/G/1$ queues: the processor-sharing case. 91i:60235
 Baccelli, François (with Makowski, Armand M.; Shwartz, Adam) The fork-join queue and related systems with synchronization constraints: stochastic ordering and computable bounds. 91a:60235
 — (with Liu, Zhen) On the stability condition of a precedence-based queueing discipline. 91e:60260
 — (with Makowski, Armand M.) Dynamic, transient and stationary behavior of the $M/G/1$ queue martingales. 91e:60261
 — (with Massey, William A.; Towsey, Donald F.) Acyclic fork-join queueing networks. (Not in MR)
 — (with Towsey, Donald F.) The customer response times in the processor sharing queue are associated. 91i:60236
 Badr, Hussein *see* Tsiotras, George D., (Not in MR)
 Bales, P. A queueing system with p universal stations in parallel. (Romanian. English summary) (Not in MR)
 Bambos, Nicholas (with Walrand, Jean) On stability of state-dependent queues and acyclic queueing networks. 91e:60262
 — (with Walrand, Jean) An invariant distribution for the $G/G/1$ queueing operator. 91c:60118
 Basharin, G. P. (with Bocharov, P. P.; Kogan, Ya. A.) ★ Анализ очереди в вычислительных сетях. (Russian) [Analysis of queues in computer networks] 91f:60157
 — *see also* Abyshkin, V. A., (91e:60003)
 Bellamine, R. (with Pellaumail, Jean) Opérateurs positifs et probabilités stationnaires. (English summary) [Positive operators and stationary probabilities] 91f:60158
 Belyaev, K. P. *see* D'yakonova, E. E., 91e:60267
 Belyaev, Yu. K. (with Chistyakova, N. V.) A nonparametric estimate for the queue length distribution in a system with a processor sharing discipline. (Russian) (see 91b:60003)
 Bertsimas, Dimitris J. An analytic approach to a general class of $G/G/s$ queueing systems. 91k:60096
 — *see also* Papacostantinou, Xenophon, 91d:60241
 Beutler, Frederick J. (with Teneketzis, Demosthenis) Routing in queueing networks under imperfect information: stochastic dominance and thresholds. 91f:60159
 Bhandari, Rajiv (with Maggu, P. L.) On nonpriority queues in biseries. 91a:60236
 Bhat, U. Narayan *see* Lal, Ram, 91k:60099
 Bhattacharya, Partha P. (with Ephremides, Anthony) Optimal scheduling with strict deadlines. 91b:60073
 Blondia, C. The $N/G/1$ finite capacity queue. 91a:60237
 — A finite capacity multi-queueing system with priorities and with repeated server vacations. 91g:60105
 Bocharov, P. P. On the two-node queueing networks with finite capacity. 91d:60227
 — (with Litvin, V. G.; Spesivov, S. S.) Computation of the characteristics of a two-node network with distributions of phase type and two types of customers. 91b:60074
 — (with Matyushenko, S. I.) Analysis of a two-channel finite-capacity exponential queueing system taking into account customer resequencing. (Russian) (see 91e:60003)
 — *see also* Basharin, G. P.; et al., 91f:60157
 Borovkov, A. A. Ergodicity and stability of the sequence $\omega_{n+1} = f(\omega_n, \xi_n)$. Applications to switching circuits. 91c:60119
 Boxma, Onno J. Workloads and waiting times in single-server systems with multiple customer classes. 91d:60228
 — *see also* Levy, Hanoch; et al., 91f:60172
 von Brand, Horst *see* Akyildiz, I. F., 91i:60232
 Brandt, Andreas (with Franken, P.; Lisek, B.) Stationary queueing systems. Existence and stability. (see 91j:60003)
 — On the $GI/M/\infty$ service system with batch arrivals and different types of service distributions. 91e:60263
 — (with Brandt, Manfred; Sulanke, Hannelore) A single server model for packetwise transmission of messages. 91i:60237
 Brandt, Manfred *see* Brandt, Andreas; et al., 91i:60237
 Brémard, P. Characteristics of queueing systems observed at events and the connection between stochastic intensity and Palm probability. 91e:60264
 Buzacott, John A. *see* Gupta, Diwakar, 91i:60245
 Cannon, Larry *see* Kalashnikov, V. V., 91e:60274
 Cao, Cheng Xuan *see* Tian, Nai Shuo; et al., 91c:60136
 Cao, Xi-Ren Realization probability and throughput sensitivity in a closed Jackson network. 91d:60229
 — The convergence property of sample derivatives in closed Jackson queueing networks. 91g:60106

- Realization factors and sensitivity analysis of queueing networks with state-dependent service rates. 91c:60120
- Chahayuk, V. S. Gaussian diffusion approximation of a closed Markov queueing network under heavy traffic conditions. (Russian) 91a:60238
- see also Anisimov, V. V., 91m:60163
- Chang, Cheng-Shang (with Pinedo, Michael) Bounds and inequalities for single server loss systems. 91b:60238
- Chao, Xin Li (with Pinedo, Michael) Batch arrivals to a tandem queue without an intermediate buffer. 91j:60146
- Chatterjee, U. (with Mukherjee, S. P.) On some distributions of the $M^{(K)}/G/1$ queue with server's vacation and exhaustive service discipline. 91b:60239
- (with Mukherjee, S. P.) Exponential queues with two-phase service. 91m:60164
- Chechel'nikskii, A. A. see Lebedev, E. A., 91c:60129 and (91a:60002)
- Chen, Hong? Optimal intensity control of a multi-class queue. 91d:60230
- (with Yao, David D.) Optimal intensity control of a queueing system with state-dependent capacity limit. 91b:60075
- Chen, Thomas M. On the independence of sojourn times in tandem queues. 91a:60239
- Cherian, Jacob (with Kushwaha, P. S.) A diffusion approximation for a bulk arrival machine interference problem with reneging. (Not in MR)
- Chistyakova, N. V. see Belyaev, Yu. K., (91b:60003)
- Choi, Bong Dae see Kulkarni, V. G., 91m:60172
- Conway, Adrian E. (with Georganas, Nicolas D.) ★ Queueing networks—exact computational algorithms. 91c:60265
- Cooper, Robert B. (with Palakurthi, Sharmila) Heterogeneous-server loss systems with ordered entry: an anomaly. 91d:60231
- see also Niu, Shun Chen, 91a:60256
- Courtois, P.-J. On the total loss probability of service stages in series. 91c:60266
- Coyte, Andrew Sensitivity bounds on a $GI/M/n/n$ queueing system. 91c:60121
- Crosby, Simon (with Krzesinski, Anthony E.) Product form solutions for multiserver centres with concurrent classes of customers. (Not in MR)
- Daduna, Hans Exchangeable items in repair systems: delay times. 91c:60160
- Daganzo, Carlos F. Some properties of polling systems. 91c:60161
- Dass, J. see Sharma, Om Prakash, 91b:60078 and 91c:60282
- Deilbroeck, L. E. N. Interdeparture times in $M/G/1$ queueing systems with nonpreemptive priority discipline. 91c:60122
- van Dijk, Nico M. An LCFS finite buffer model with finite source batch input. 91c:60123
- A LCFS finite buffer model with batch input and nonexponential services. 91c:60124
- Mixed parallel processors with independent blocking. (Not in MR)
- (with Smeitink, Eric) A nonexponential queueing system with independent arrivals and batch servicing. 91m:60165
- Analytic error bounds for approximations of queueing networks with an application to alternate routing. 91d:60232
- see also Henderson, William; et al., 91b:60102
- Dimitrov, B. (with Khalil, Z.) On a new characterization of the exponential distribution related to a queueing system with an unreliable server. 91j:60147
- Disney, Ralph L. see Magalhães, Marcos N., 91b:60101
- van Doorn, Erik A. see König, Dieter; et al., 91a:60247
- Doshi, Bharat Generalizations of the stochastic decomposition results for single server queues with vacations. 91d:60233
- Conditional and unconditional distributions for $M/G/1$ type queues with server vacations. 91b:60240
- Duenyas, Izak (with Hopp, Wallace J.) Estimating variance of output from cyclic exponential queueing systems. (Not in MR)
- Dyakonova, E. E. (with Belyaev, K. P.) Limit theorems for priority queueing systems with batch processing in heavy traffic. I. 91c:60267
- Ekhrlief, I. M. see Sokolov, N. A., (91c:60003)
- El Taha, Muhammad see Siddham, Shaler, Jr., 91c:60134
- Ephraïmides, Anthony see Bhattacharya, Partha P., 91b:60073 and Nakasis, Tassos, (Not in MR)
- Fakinos, D. (with Sirakoulis, K.) Product-form distributions for an $M/G/k$ group-arrival group-departure loss system. 91c:60234
- On the $M/G/k$ group-arrival loss system. 91d:60235
- Falin, G. I. (with Sukharev, Yu. L.) Singularly perturbed equations and an asymptotic study of the stationary characteristics of systems with repeated calls. (Russian) 91b:60162
- Ergodicity and stability of systems with repeated calls. 91c:60125
- A survey of retrial queues. 91m:60166
- Farahmand, Kambiz Single line queue with repeated demands. 91b:60241
- Finkel, David see Gelenbe, Erol, 91b:60165
- Fischer, Wolfgang see Stanford, David A., 91a:60264
- Filipo, Daniel Charge stationnaire d'une file d'attente à rejet. Cas de plusieurs serveurs. [Stationary load of a queue with loss: the multiserver case] 91b:60242
- Foss, S. G. Some properties of open queueing networks. 91b:60163
- Franken, P. see Brandt, Andreas; et al., (91j:60003)
- Fu, Michael C. On the consistency of second derivative perturbation analysis estimators for the $M/G/1$ queue. 91a:60240
- Ganesan, V. see Sathia Moorthi, R., (Not in MR)
- Gaver, D. P., Jr. (with Jacobs, Patricia A.) On inference concerning time-dependent queue performance: the $M/G/1$ example. 91b:60164
- Gelenbe, Erol (with Finkel, David) Stationary deterministic flows. II. The single-server queue. 91b:60165
- Georganas, Nicolas D. see Conway, Adrian E., 91c:60265
- Ghahramani, Saeed On remaining full busy periods of $GI/G/c$ queues and their relation to stationary point processes. 91c:60268
- Glasserman, Paul The limiting value of derivative estimators based on perturbation analysis. 91b:60243
- Glynn, Peter W. (with Whitt, Ward) Extensions of the queueing relations $L = \lambda W$ and $H = \lambda G$. 91c:60249
- Gopinath, B. see Gubner, John A.; et al., 91b:60101
- Gormuzeva, O. N. see Shnurkov, P. V.; et al., (91b:60003)
- Gray, William J. see Scott, Meckinley, (Not in MR)
- Grigelionis, B. (with Mikulevicius, Remigius) Functional limit theorems in queueing theory. (Russian) (see 91g:60005)
- Grishpan, L. A. ★ Методы анализа стохастических сетевых моделей вычислительных систем. (Russian) [Methods for analyzing stochastic network models of computer systems] 91b:60244
- Gubner, John A. (with Gopinath, B.; Varadhan, S. R. S.) Bounding functions of Markov processes and the shortest queue problem. 91b:60101
- Gün, Levent Experimental results on matrix-analytical solution techniques—extensions and comparisons. 91a:60241
- Gupta, B. S. (with Sharma, G. C.) A control policy for an $M/G/C$ queue. (Not in MR)
- (with Sharma, G. C.) A control policy for an $M/G/C$ queue. (Not in MR)
- Gupta, Diwakar (with Buzacott, John A.) A production system with two job classes, changeover times and revisitation. 91b:60245
- Halfin, Shlomo (with Whitt, Ward) An extremal property of the FIFO discipline via an ordinal version of $L = \lambda W$. 91c:60126
- see also Avi-Itzhak, Benjamin, 91b:60235
- Harel, Ariel Convexity results for single-server queues and for multiserver queues with constant service times. 91b:60166
- Convexity properties of the Erlang loss formula. 91c:60270
- van Harn, K. see Steutel, F. W., (91b:60003)
- Harrison, Peter G. Laplace transform inversion and passage-time distributions in Markov processes. 91d:60236
- Hasegawa, Toshiharu see Takine, T., 91b:60268
- Haviv, Moshe see Assaf, David, 91c:60117
- He, Qi Ming see Xu, Guang Hai; et al., 91g:60117
- Hemker, Josef A note on sojourn times in queueing networks with multiserver nodes. 91c:60167
- Henderson, William (with Lucic, D.; Taylor, Peter Gerrard) A net level performance analysis of stochastic Petri nets. 91d:60237
- (with Pearce, C. E. M.; Taylor, Peter Gerrard; van Dijk, Nico M.) Closed queueing networks with batch services. 91b:60102
- (with Taylor, Peter Gerrard) Product form in networks of queues with batch arrivals and batch services. 91b:60103
- Heyman, Daniel P. (with Whitt, Ward) Limits for queues as the waiting room grows. 91c:60271
- Ho, Yu-Chi (with Hu, Jian Qiang) An infinitesimal perturbation analysis algorithm for a multiclass $G/G/1$ queue. 91b:60097
- Hopp, Wallace J. (with Simon, John T.) Bounds and heuristics for assembly-like queues. 91a:60242
- see also Duenyas, Izak, (Not in MR)
- Hsiao, Man-tung T. (with Lazar, Aurel A.) A game theoretic approach to decentralized flow control of Markovian queueing networks. 91a:60243
- (with Lazar, Aurel A.) An extension to Norton's equivalent. 91g:60107
- Ho, Jian Qiang Steady-state sample path derivative estimators. 91b:60246
- see also Ho, Yu-Chi, 91b:60097
- Hunt, P. J. (with Kelly, Frank P.) On critically loaded loss networks. 91c:60272
- Hunter, Jeffrey J. Sojourn time problems in feedback queues. 91c:60273
- Ibe, Oliver C. (with Trivedi, Kishor S.) Two queues with alternating service and server breakdown. 91b:60247
- Ivanovskii, V. B. Discrete priority queueing systems. 91b:60167
- Ivinskii, V. A. A condition for the invariance of stationary probabilities of states for networks of single-server queueing systems. 91b:60168
- Jacob, M. J. see Madhusoodanan, T. P., 91a:60253
- Jacobs, Patricia A. see Gaver, D. P., Jr., 91b:60164
- Jain, Madhu see Sharma, Chitaranjan; et al., 91a:60263
- Jain, Sudha? (with Templeton, J. G. C.) Confidence interval for $M/M/2$ queue with heterogeneous servers. (Not in MR)
- Jin, Xing (with Wang, Rong Xin) On the speed of convergence for the queue length process of the $GI/G/k$ system in heavy traffic. 91m:60168
- Johnson, Mary A. (with Taaffe, Michael R.) Matching moments to phase distributions: mixtures of Erlang distributions of common order. 91a:60244
- Kalashnikov, V. V. (with Rachev, Svetlozar T.) ★ Mathematical methods for construction of queueing models. 91c:60274
- Regenerative queueing processes and their qualitative and quantitative analysis. 91b:60248
- Kashanov, V. A. see Zhulenev, S. V.; et al., (91b:60003)
- Kashyap, B. R. K. see Liu, Li Ming; et al., 91b:60100
- Kawashima, Takeshi see Arai, Koji, (Not in MR)
- Kellison, J. (with Servi, L. D.) The preempt-resume $M/G/1$ queue with feedback and clocked schedules. 91a:60245
- (with Servi, L. D.) The distributional form of Little's law and the Fuhrmann-Cooper decomposition. 91b:60149
- Kel'bert, M. Ya. (with Sukhov, Yu. M.) The Poisson limit theorem for hybrid star networks: mean field approximation. 91d:60238
- On the central limit theorem for Jackson networks on countable graphs. 91b:60249
- (with Kopeika, R. P.; Shamsiev, R. N.; Sukhov, Yu. M.) Perturbation theory approach for a class of hybrid switching networks with small transit flows. 91b:60170
- (with Sukhov, Yu. M.) On a class of packet-switching networks on an infinite graph. 91m:60169
- Kella, Offer (with Whitt, Ward) Diffusion approximations for queues with server vacations. 91m:60170
- Kelly, Frank P. see Hunt, P. J., 91c:60272; Ziedins, I. B., 91b:60183 and Szecotka, Wladyslaw, 91b:60106
- Kel'zhanov, K. (with Atadzhanyan, Kh.) The general form of an arrival stream without aftereffects. (Russian) (see 91b:60030)
- Khalil, Z. see Dimitrov, B., 91j:60147
- Khomosenko, A. D. The departure stream of queueing systems of type $H_k/H_k/n/R \leq \infty$. 91c:60246
- Waiting-time distribution in queueing systems of type $GI_k/H_k/n/R \leq \infty$. (Not in MR)
- Kiessler, Peter C. A simple proof of the equivalence of input and output intervals in Jackson

- networks of single server nodes. 91h:60104
- Kijima, Masaki (with Makimoto, Naoki) On interchangeability for exponential single-server queues in tandem. 91m:60171
- On the largest negative eigenvalue of the infinitesimal generator associated with $M/M/n/n$ queues. 91f:60171
- see also Shirakawa, Hiroshi; et al., 91d:60245
- Kleinrock, Leonard see Rosenberg, Catherine; et al., (Not in MR)
- Knessl, Charles (with Tier, Charles) Approximations to the moments of the sojourn time in a tandem queue with overtaking. 91i:60250
- (with Tier, Charles) Asymptotic expansions for large closed queueing networks. 91i:60251
- On finite capacity processor-shared queues. 91f:60252
- On the diffusion approximation to a fork and join queueing model. 91k:60098
- Kogan, Ya. A. (with Krichagina, E. V.) Closed exponential queueing networks with blocking in heavy traffic. 91d:60239
- see also Basharin, G. P.; et al., 91f:60157
- Komatsu, Masaharu A priority queue with two priority classes whose nonpriority class call has preemptive and nonpreemptive parts. (Not in MR)
- König, Dieter (with Schmidt, Volker; van Doorn, Erik A.) On the "PASTA" property and a further relationship between customer and time averages in stationary queueing systems. 91a:60247
- (with Schmidt, Volker) EPSTA: the coincidence of time-stationary and customer-stationary distributions. 91a:60248
- (with Schmidt, Volker) Extended and conditional versions of the PASTA property. 91f:60148
- Konstantopoulos, Panagiotis (with Walrand, Jean) Stationary [Stationarity] and stability of fork-join networks. 91a:60249
- (with Walrand, Jean) On the ergodicity of networks of $-GI/1/N$ queues. 91c:60127
- Kopeika, R. P. see Kefbert, M. Ya.; et al., 91f:60170
- Kowada, Masashi see Liu, Li Wen; et al., 91h:60105
- Kramer, Manfred Analysis of a buffer queueing problem in discrete time. 91c:60128
- Krichagina, E. V. see Kogan, Ya. A., 91d:60239
- Krishnamoorthy, A. see Manoharan, M., 91i:60256
- Kruglyi, Z. L. (with Murshstein, M. S.) Computational algorithms for optimizing closed queueing networks. 91i:60253
- Krzyszinski, Anthony E. see Crosby, Simon, (Not in MR)
- Kulkarni, V. G. (with Choi, Bong Dae) Retrial queues with server subject to breakdowns and repairs. 91m:60172
- Kumar, Ashok² (with Agarwal, M. L.; Mahajan, Meenakshi) Concept of priority in the evaluation of a multidisk system. (Not in MR)
- Kushner, Harold J. see Martins, Luiz Felipe, 91h:60102
- Kushwaha, P. S. see Chierian, Jacob, (Not in MR)
- Lai, Ram (with Bhat, U. Narayan) A correlated random walk model for a queue with Markovian arrivals and departures. 91h:60099
- Lambros, A. (with Pombortsis, A.; Sideridis, A. B.; Tambouratzis, D.) A generalization of the Erlang's B formula. (French summary) 91a:60250
- Latouche, Guy see Ramaswami, V., 91a:60261
- Lazar, Aurel A. see Hsiao, Man-tung T., 91a:60243 and 91g:60107
- Lebedev, E. A. (with Chechel'nikskii, A. A.) Diffusion approximation of non-Markov queueing networks in a transitional regime. (Russian) (see 91a:60002)
- (with Chechel'nikskii, A. A.) Diffusion approximation of a queueing network with semi-Markov arrival stream. (Russian. English summary) 91c:60129
- Lee, Hye-Seong (with Srinivasan, Mandayam M.) Control policies for the $M^X/G/1$ queueing system. 91c:60130
- A short note on the Poisson input queueing system with start-up time and under control-operating policy. 91a:60251
- Lemoine, Austin J. Waiting time and workload in queues with periodic Poisson input. 91a:60252
- Levy, Hanoch (with Sidi, Moshe; Boxma, Onno J.) Dominance relations in polling systems. 91f:60172
- van de Liefvoort, Apple The waiting-time distribution and its moments of the $PH/PH/1$ queue. 91e:60275
- Lisek, B. see Brandt, Andreas; et al., (91j:60003)
- Litvin, V. G. see Bocharov, P. P.; et al., 91b:60074
- Liu, Li Ming (with Kashyap, B. R. K.; Templeton, J. G. C.) On the $GI^X/G/\infty$ system. 91k:60100
- Liu, Li Wen (with Adachi, Kōichi; Kowada, Masashi) A queueing model of a production system with two machines, one operator and priorities. 91h:60105
- Liu, Xi Suo see Xu, Guang Hui, 91a:60268 and 91g:60117
- Liu, Zhen see Baccelli, François, 91c:60260
- Logunov, P. L. Stability of a single channel queueing system. (Russian) (see 91g:60032)
- Loris-Teghem, Jacqueline Waiting time distribution in some queueing systems with server vacations. (French summary) 91e:60276
- On a decomposition result for a class of vacation queueing systems. 91d:60240
- Lucic, D. see Henderson, William; et al., 91d:60237
- Lukashuk, L. I. Diffusion approximation and filtering of characteristics of a queueing system with repeated calls. 91b:60254
- Luney, N. V. The busy period of an $M/G/1$ system with a hysteresis control strategy. (Russian) 91m:60173
- Machihara, Fumiaki A new approach to the fundamental period of a queue with phase-type Markov renewal arrivals. 91b:60255
- Madan, K. C. Time-dependent behaviour of a single channel queue with fluctuating efficiency. 91g:60108
- Madhusoodanan, T. P. (with Jacob, M. J.) Transient solution for a finite capacity $M/G^{a,b}/1$ vacation system with Bernoulli schedules. 91a:60253
- Magalhães, Marcos N. (with Disney, Ralph L.) Departures from queues with changeover times. 91k:60101
- Maggi, P. L. see Bhandari, Rajiv, 91a:60236
- Mahajan, Meenakshi see Kumar, Ashok²; et al., (Not in MR)
- Makarov, V. I. Estimation of the waiting time in on-board queueing systems. (Not in MR)
- Makimoto, Naoki see Kijima, Masaki, 91m:60171
- Makino, Toji Corrigendum to: "Remarks on separability of tandem queue with two stages" [TRU Math. 23 (1987), no. 1, 149-159]. (Not in MR)
- Quasi loss probability and quasi throughput of the system $M/M/1/N \rightarrow M/1/1$. (Not in MR)
- Makowski, Armand M. see Baccelli, François; et al., 91a:60235; 91e:60261 and Rosenberg, Zvi, 91g:60111
- Manoharan, M. (with Krishnamoorthy, A.) A finite capacity $M/G/1$ queue with vacation. 91i:60256
- Marchenko, A. G. see Shevchenko, V. L., (91j:60001)
- Martins, Luiz Felipe (with Kushner, Harold J.) Routing and singular control for queueing networks in heavy traffic. 91k:60102
- Massey, William A. see Baccelli, François; et al., (Not in MR)
- Matveev, V. F. (with Toleutaeva, G. D.) A system with cyclic service by standby devices and batch processing of customers. (Russian) (see 91b:60003)
- Matyushenko, S. I. see Bocharov, P. P., (91c:60003)
- Mazumdar, Ravi see Rosenberg, Catherine; et al., (Not in MR)
- Meester, Ludolf E. (with Shanthikumar, J. George) Concavity of the throughput of tandem queueing systems with finite buffer storage space. 91m:60174
- Melamed, Benjamin (with Whitt, Ward) On arrivals that see time averages: a martingale approach. 91f:60149
- (with Whitt, Ward) On arrivals that see time averages. 91c:60131
- Melikov, A. Z. see Ponomarenko, L. A., 91d:60242
- Mikulevicius, Remigius see Grigelionis, B., (91g:60005)
- Miyazawa, Masakiyo Comparison of the loss probability of the $GI^X/GI/1/k$ queues with a common traffic intensity. 91k:60103
- Mokaddis, G. S. The distribution of the maximal queue size and its application. (Not in MR)
- The asymptotic mathematical expectation for the time at which the number of customers in the $M/G/1$ queue reaches a finite number for the first time. (Not in MR)
- On Poisson output of queueing systems. (Not in MR)
- (with Zaki, S. S.) On the characteristics of a stationary queueing servicing system $M/G/1/N - 1$. I. (Not in MR)
- (with Zaki, S. S.) On the characteristics of a nonstationary queueing servicing system $M/G/1/N - 1$. II. (Not in MR)
- The joint distribution of the busy and free periods of the mass service system. (Not in MR)
- Mori, Masao see Shirakawa, Hiroshi; et al., 91d:60245
- Morozov, E. V. A theorem on the stability of a service flow. (see 91g:60003)
- A stationarity criterion for a certain class of non-Poisson servicing networks. 91b:60076
- Morrison, J. A. Sojourn and waiting times in a single-server system with state-dependent mean service rate. 91a:60254
- Single-server with linear state-dependent mean rate. 91a:60255
- Mukherjee, S. P. see Chatterjee, U., 91b:60239 and 91m:60164
- Murshstein, M. S. see Kruglyi, Z. L., 91i:60253
- Nain, Philippe Qualitative properties of the Erlang blocking model with heterogeneous user requirements. 91f:60257
- Nakasis, Tassos (with Ephremides, Anthony) Steady-state behavior of interacting queues—a numerical approach. (Not in MR)
- Néuts, Marcel F. The fundamental period of the queue with Markov-modulated arrivals. 91f:60173
- On Viterbi's formula for the mean delay in a queue of data packets. 91e:60277
- Niu, Shun Chen (with Cooper, Robert B.) Duality and other results for $M/G/1$ and $GI/M/1$ queues, via a new ballot theorem. 91a:60256
- Nobel, R. D. see van Ommeren, J. C. W., 91e:60278
- Novikov, M. M. A single-channel queueing system with a limited number of waiting places. (Russian) 91a:60257
- Obłade, Titi An algorithm proposed for busy-period subcomponent analysis of bulk queues. 91f:60174
- Obukheria, Yu. E. (with Skatkov, A. V.) A semi-Markov model of a queueing system with losses. (Russian) 91a:60259
- O'Connell, Colm Art On nonuniqueness of representations of phase-type distributions. 91a:60258
- Characterization of phase-type distributions. 91i:60258
- van Ommeren, J. C. W. (with Nobel, R. D.) On the waiting time distribution in a $GI/G/1$ queue with a Coxian-2 service time distribution. 91e:60278
- Ozawa, Toshihisa Analysis of a single server model with two queues having different service disciplines. (Not in MR)
- Alternating service queues with mixed exhaustive and K -limited services. 91i:60259
- Palakurthi, Sharmila see Cooper, Robert B., 91d:60231
- Papaconstantinou, Xenophon (with Bertsimas, Dimitris J.) Relations between the prearrival and postdeparture state probabilities and the FCFS waiting time distribution in the $E_k/G/s$ queue. 91d:60241
- Papir, Zdzisław Power optimization in a window-controlled virtual route using busy-idle period analysis. (Not in MR)
- Parthasarathy, P. R. see Sharafali, M., 91h:60107
- Pearce, C. E. M. see Henderson, William; et al., 91h:60102
- Pechinkin, A. V. An inversion queueing order with probabilistic priority in a queueing system with a nonordinary input stream. (Russian) 91a:60260
- Pellamall, Jean Approximation d'une loi de service quelconque par une loi de Cox "positive". (English summary) [Approximation of a random service distribution by a positive Cox distribution] 91m:60175
- see also Bellamine, R., 91f:60158
- Percus, J. K. see Percus, Ora E., 91g:60109
- Percus, Ora E. (with Percus, J. K.) Elementary properties of clock-regulated queues. 91g:60109
- Pinedo, Michael see Chang, Cheng-Shang, 91i:60238 and Chao, Xiu Li, 91j:60146
- Polyakov, L. N. (with Trofimov, A. D.) A nonstationary regime in the system $M/G/1/\infty$ with a constant constraint on the waiting time and with a reliable service channel. (Russian) (see 91h:60003)
- Pombortsis, A. see Lambros, A.; et al., 91a:60250

- Ponomarenko, L. A. (with Melikov, A. Z.) Closed multiresource queueing systems with controllable priorities. 91d:60242
- Fourbati, Behnam A note on a $D/G/K$ loss system with retrials. 91g:60110
- Poznyak, R. I. see Tikhonenko, O. M.; et al., 91f:60179
- Prabhu, N. U. (with Zhu, Yixin) Markov-modulated queueing systems. 91e:60279
- Pukha'yuk, A. A. A multiphase queueing system with blocking during heavy traffic. 91f:60260
- Rachev, Svetlozar T. The problem of stability in queueing theory. 91c:60132
— see also Kalashnikov, V. V., 91e:60274 and Anastassiou, George A., (91j:41001)
- Ramaswami, V. (with Latouche, Guy) An experimental evaluation of the matrix-geometric method for the $GI/PH/1$ queue. 91a:60261
— A duality theorem for the matrix paradigms in queueing theory. 91f:60175
— From the matrix-geometric to the matrix-exponential. 91k:60104
- Rege, Kiran M. (with Sengupta, Bhaskar) A single server queue with gated processor-sharing discipline. 91e:60280
- Reiman, Martin I. (with Simon, Burton) A network of priority queues in heavy traffic: one bottleneck station. 91m:60176
- Rhee, Hahn-Kyoo (with Sivazlian, B. D.) Distribution of the busy period in a controllable $M/M/2$ queue operating under the triadic $(0, K, N, M)$ policy. 91f:60261
- Righter, Rhonda (with Shanthikumar, J. George; Yamazaki, Genji) On extremal service disciplines in single-stage queueing systems. 91f:60176
- Robson, Douglas S. see Rubin, Gall, 91f:60263
- Rolski, Tomasz Queues with nonstationary inputs. 91b:60077
- Rosberg, Zvi (with Makowski, Armand M.) Optimal routing to parallel heterogeneous servers—small arrival rates. 91g:60111
- Rosenberg, Catherine (with Mazumdar, Ravi; Kleinrock, Leonard) On the analysis of exponential queueing systems with randomly changing arrival rates: stability conditions and finite buffer scheme with a resume level. (Not in MR)
- Ross, Keith W. (with Yao, David D.) Monotonicity properties for the stochastic knapsack. 91f:60262
- Rubin, Gall (with Robson, Douglas S.) A single server queue with random arrivals and balking: confidence interval estimation. 91f:60263
- Rudnev, M. Yu. see Shnurkov, P. V.; et al., (91b:60003)
- Rumyantsev, N. V. Behavior of systems with "warm-up" under large load conditions. (Russian) (see 91j:60001)
- Saidov, O. Zh. Some theorems for the characteristics of a single-server queueing system when the service depends on the queue length. (Russian) 91k:60105
- Saito, Hiroshi³ The departure process of an $N/G/1$ queue. (Not in MR)
- Sakasagawa, Hirotsuka (with Wolff, Ronald W.) The equality of the virtual delay and attained waiting time distributions. 91e:60281
- Sandryan, S. N. The Prabhu model with unit load. (Russian) (see 91j:60002)
- Santhakumaran, A. Queues in Markovian environments. 91f:60264
- Sarkar, Dilip (with Zangwill, W. L.) Expected waiting time for nonsymmetric cyclic queueing systems—exact results and applications. 91a:60262
- Sathia Moorthi, R. (with Ganesan, V.) Some results for multi-server bulk service Erlangian queueing system. (Not in MR)
- Satubaldyev, D. On a queueing system with a restriction. (Russian) (see 91b:60030)
- Schassberger, R. Insensitive service schemes and partial balance. (see 91j:60003)
- The steady-state appearance of the $M/G/1$ queue under the discipline of shortest remaining processing time. 91f:60265
- Schellhaas, Helmut On Ramaswami's algorithm for the computation of the steady state vector in Markov chains of $M/G/1$ -type. 91f:60177
- Schmidt, Volker see König, Dieter; et al., 91a:60248 and 91f:60148
- Scott, Meckinley (with Gray, William J.) A study of two queueing models involving bonus service. (Not in MR)
- Sengupta, Bhaskar An invariance relationship for the $G/G/1$ queue. 91g:60112
— The semi-Markovian queue: theory and applications. 91m:60177
— A queue with service interruptions in an alternating random environment. 91g:60113
— see also Rege, Kiran M., 91e:60280
- Serfozo, Richard F. Poisson functionals of Markov processes and queueing networks. 91b:60106
— Markovian network processes: congestion-dependent routing and processing. 91g:60114
- Serv, L. D. see Keilson, J., 91a:60245 and 91f:60169
- Shamsiev, R. N. Mixing properties for hybrid switching networks on an infinite one-dimensional lattice. (Russian) (see 91g:60003)
— see also Ke'bert, M. Ya.; et al., 91f:60170
- Shanthikumar, J. George (with Yao, David D.) Monotonicity and concavity properties in cyclic queueing networks with finite buffers. 91d:60243
— (with Yao, David D.) Stochastic monotonicity in general queueing networks. 91f:60178
— Level crossing analysis of priority queues and a conservation identity for vacation models. 91d:60244
— see also Righter, Rhonda; et al., 91f:60176 and Moester, Ludolf E., 91m:60174
- Sharafali, M. (with Parthasarathy, P. R.) On the distribution of a busy period for the many server Poisson queue. 91b:60107
- Sharma, Chitaranjan (with Jain, Madhu; Sharma, G. C.) A nonlinear programming approach for $M^*/G/1$ queueing model. 91a:60263
- Sharma, G. C. see Sharma, Chitaranjan; et al., 91a:60263; Gupta, B. S., (Not in MR); Singh, Hukam; et al., (Not in MR) and Gupta, B. S., (Not in MR)
- Sharma, Harish see Singh, Hukam; et al., (Not in MR)
- Sharma, Om Prakash (with Dass, J.) Initial busy period distributions for $M/M/2/N$ queueing system with heterogeneous servers. 91b:60078
— (with Dass, J.) Multi-server Markovian queue with finite waiting space. 91e:60282
- Shcherbina, V. I. (with Marchenko, A. G.) Waiting time in a system with "warm-up". (Russian) (see 91j:60001)
- Shi, Ding Hua Probability analysis of the repairable queueing system $M/G(E_k/H)/1$. 91f:60266
- Shirakawa, Hiroshi (with Mori, Masao; Kijima, Masaaki) Evaluation of regular splitting queues. 91d:60245
- Shkvareshenko, T. V. Stationary distribution of the queue length in $GI/I/1/\infty$ systems. (Russian) (see 91f:60003)
- Shnurkov, P. V. (with Gormuzeva, O. N.; Rudnev, M. Yu.) Application of some classes of random processors to service models of complex systems. (Russian) (see 91b:60003)
- Shaf'ga, Yu. N. ★ Элементы теории объемных стохастических сетей массового обслуживания и ее приложения. (Russian) [Elements of the theory of bulk stochastic queueing networks and its applications] 91f:60150
- Shwartz, Adam see Baccelli, François; et al., 91a:60235
- Sideridis, A. B. see Lambros, A.; et al., 91a:60250
- Sidi, Moshe see Levy, Hanooh; et al., 91f:60172
- Sigman, Karl Correction: "Notes on the stability of closed queueing networks" [J. Appl. Probab. 26 (1989), no. 3, 678–682; MR 90j:60104]. 91f:60151
— One-dependent regenerative processes and queues in continuous time. 91f:60267
— The stability of open queueing networks. 91m:60178
- Sim, S. H. (with Templeton, J. G. C.) Further results for the $M/M(a, \infty)/N$ batch-service system. 91m:60179
- Simon, Burton see Reiman, Martin I., 91m:60176
- Simon, John T. see Hepp, Wallace J., 91a:60242
- Singh, Hukam (with Sharma, Harish; Sharma, G. C.) A multiserver queue with no passing and limited waiting time. (Not in MR)
- Singh, Man (with Srivastava, O. P.) The steady state solution of phase type queueing processes with impatient customers. (Not in MR)
- Sirakoulis, K. see Fakinos, D., 91d:60234
- Sivassamy, R. A bulk service queue with accessible and nonaccessible batches. (Not in MR)
- Sivazlian, B. D. (with Wang, K. H.) Diffusion approximation to the $G/G/R$ machine repair problem with warm standby spares. 91m:60180
— see also Rhee, Hahn-Kyoo, 91f:60261
- Skatkov, A. V. see Obzherin, Yu. E., 91a:60259
- Smetink, Eric see van Dijk, Nico M., 91m:60165
- Smith, J. MacGregor see Yuhaski, Steven J., Jr., 91d:60248
- Sokolov, N. A. (with Ekhrieff, I. M.) Analysis of a single-line system of $HD/HD/1$ -type with waiting. (Russian) (see 91e:60003)
- Solodnyannikov, Yu. V. Statistics of queueing systems and networks. (Russian) (see 91g:60003)
- Spesivov, S. S. see Bocharov, P. P.; et al., 91b:60074
- Srinivasan, Mandayam M. see Lee, Hyo-Seong, 91c:60130
- Srivastava, O. P. see Singh, Man, (Not in MR)
- Stadje, Wolfgang A new approach to the distribution of the duration of the busy period for a $G/G/1$ queueing system. 91c:60133
— A note on the simple queue with variable intensities and two servers. 91g:60115
- Stanford, David A. (with Fischer, Wolfgang) The interdeparture-time distribution for each class in the $\sum_i M_i/G/1$ queue. 91a:60264
- Stanford, Robert E. On queues with impatience. 91f:60152
- Steinbach, Josef see Alex, Michael, 91f:60156
- Steutel, F. W. (with van Harn, K.) Queueing networks and operator-selfdecomposability. (see 91j:60003)
- Stidham, Shaler, Jr. (with Weber, Richard R.) Monotonic and insensitive optimal policies for control of queues with undiscounted costs. 91a:60265
— (with El Taha, Muhammad) Sample-path analysis of processes with imbedded point processes. 91c:60134
- Stolyar, A. L. The asymptotics of stationary distribution for a closed queueing system. 91d:60246
- Strelen, Johann Christoph Moment analysis for closed queueing networks and its linearizer. (Not in MR)
- Sukharev, Yu. I. see Falin, G. L., 91f:60162
- Sukhov, Yu. M. see Ke'bert, M. Ya., 91d:60238; 91f:60170 and 91m:60169
- Sulanke, Hannelore see Brandt, Andreas; et al., 91f:60237
- Szczotka, Wladyslaw (with Topolski, Krzysztof) Conditioned limit theorem for the pair of waiting time and queue line processes. 91c:60135
— Exponential approximation of waiting time and queue size for queues in heavy traffic. 91e:60283
— (with Kelly, Frank P.) Asymptotic stationarity of queues in series and the heavy traffic approximation. 91k:60106
- Taaffe, Michael R. see Johnson, Mary A., 91a:60244
- Takagi, Hideaki Time-dependent analysis of $M/G/1$ vacation models with exhaustive service. 91k:60107
- Takahashi, Haruhisa (with Wang, Li Sheng) An approximate analysis of a queueing system with Markov-modulated arrivals. (Not in MR)
- Takine, T. (with Hasegawa, Toshiharu) A note on $M/G/1$ vacation systems with waiting time limits. 91f:60268
- Tambouratzis, D. see Lambros, A.; et al., 91a:60250
- Taylor, Peter Gerrard Insensitivity in processes with zero speeds. 91d:60247
— see also Henderson, William; et al., 91d:60237; 91h:60102 and 91h:60103
- Tedijanto Exact results for the cyclic-service queue with a Bernoulli schedule. (Not in MR)
- Templeton, J. G. C. see Liu, Li Ming; et al., 91k:60106; Sim, S. H., 91m:60179 and Jain, Sudha², (Not in MR)
- Teneketzis, Demosthenis see Butler, Frederick J., 91f:60159
- Terzikyan, G. A. Conditional waiting times in a $G/G_r/1/\infty$ model with absolute priorities. (Russian) (see 91b:60003)
- Teugels, Jozef L. The average virtual waiting time as a measure of performance. 91f:60269
- Tian, Nai Shuo Tandem networks of $M_i/G/1/\infty$ stochastic queueing systems. (Chinese) 91b:60079
— A discrete time queue with multistage adaptive services. (Chinese) 91a:60266
— (with Zhang, Da Qing; Cao, Cheng Xuan) The $GI/M/1$ queue with exponential vacations. 91c:60136
- Tier, Charles see Knessl, Charles, 91f:60250 and 91f:60251
- Tikhonenko, O. M. (with Zavgornov, S. M.; Poznyak, R. I.) Distribution of the total task length in multiline queueing systems. (Russian. English and German summaries) 91f:60179
— Erratum: "Distribution of the total volume of messages in a queueing system with group arrival" [Avtomat. i Telemekh. 1987, no. 11, 111–120; MR 89b:60231]. 91k:60108
- Toleutova, G. D. see Matveev, V. F., (91b:60003)

- Tolmachev, A. L. Insensitivity in queueing networks with generalized processor-sharing discipline. (see 91b:60003)
- Tolmacheva, N. D. see Zhulenev, S. V.; et al., (91b:60003)
- Topoliski, Krzysztof see Szczytko, Władysław, 91c:60135
- Towsley, Donald F. see Baccelli, François, 91b:60236 and (Not in MR)
- Trivedi, Kishor S. see Ibe, Oliver C., 91b:60247
- Trofimov, A. D. A nonstationary regime in the system $M/M/n/\infty$ with a constant constraint on the waiting time. (Russian) (see 91b:60003)
- see also Polyakov, L. N., (91b:60003)
- Tsiotras, George D. (with Badr, Hussein) A recursive methodology for the derivation of the blocking probabilities of tandem queues with finite capacity. (Not in MR)
- Tsitsiasbrili, G. Sh. Decomposition receivers in analyzing the stability of multi-element networks. (Russian) (see 91g:60003)
- A quantitative estimate for the cumulative effect in the simplest multiline queueing systems. (Russian) (see 91g:60004)
- Tsoucas, Pantelis see Anantharam, Venkatesh, 91j:60145
- Tuteja, R. K. see Arora, R. T., 91b:60234
- Varadhan, S. R. S. see Gubner, John A.; et al., 91b:60101
- Vinogradov, O. P. A nonstandard service system. (Russian) (see 91b:60003)
- Sojourn times in a multiphase system with identical service. (Russian) (see 91j:60002)
- Voima, A. A. A queueing model with distribution of calls between operative and stationary systems. (Russian) 91g:60116
- van der Wal, Jan Monotonicity of the throughput of a closed exponential queueing network in the number of jobs. (German summary) 91a:60267
- Walrand, Jean see Konstantopoulos, Panagiotis, 91a:60249; Bambos, Nicholas, 91c:60118; Konstantopoulos, Panagiotis, 91c:60127 and Bambos, Nicholas, 91c:60262
- Wang, K. H. see Sivazlian, B. D., 91m:60180
- Wang, Li Sheng see Takahashi, Haruhisa, (Not in MR)
- Wang, Rong Xin see Jin, Xing, 91m:60168 and Zhang, Han Qin, 91m:60181
- Wang, Yan Hua see Wu, Yun Jiang, (Not in MR)
- Weber, Richard R. see Stidham, Shaler, Jr., 91a:60265
- Whitt, Ward see Halfin, Shlomo, 91c:60126; Melamed, Benjamin, 91c:60131; Glynn, Peter W., 91c:60269; Heyman, Daniel P., 91c:60271; Melamed, Benjamin, 91j:60149 and Kella, Ofir, 91m:60170
- Wiens, Douglas P. On the busy period distribution of the $M/G/2$ queueing system. 91k:60109
- Willie, Helmut Individual blocking probabilities in the loss system $G_1 + \dots + G_N/M/1/0$. 91f:60180
- Wolff, Ronald W. see Sakasegawa, Hirotsugu, 91c:60281
- Wu, Yan Jiang (with Wang, Yan Hua) Weak convergence limits for the queueing length at arrival points in HL priority principles. (Chinese) (Not in MR)
- Xu, Guang Hui (with Liu, Xi Suo) Comparison and continuity of generalized standard systems. (Chinese) 91a:60268
- (with He, Qi Ming; Liu, Xi Suo) The stationary distribution of a matched queueing system with a double input. (Chinese. English summary) 91g:60117
- A survey of queueing theory. 91b:60270
- Yamazaki, Genji see Righter, Rhonda; et al., 91b:60176
- Yao, David D. see Chen, Hong, 91b:60075; Shanthikumar, J. George, 91d:60243; 91f:60178 and Ross, Keith W., 91b:60262
- Yashkov, S. F. Some characteristics of nonclassical processor-sharing queueing models. (Russian) (see 91c:60003)
- Yuhaski, Steven J., Jr. (with Smith, J. MacGregor) Modeling circulation systems in buildings using state dependent queueing models. 91d:60248
- Yunus, M. Naim Transient blocking probability in a loss system with arbitrary initial conditions. 91f:60181
- Yurachkovskii, A. P. Distribution of virtual and real waiting time in the queueing systems $H_j/G/1$, $E_r/G/1$. 91h:60108
- Zakharova, T. V. Asymptotically optimal allocations of queueing systems in a plane. (Russian) (see 91g:60003)
- Zaki, S. S. see Mokaddis, G. S., (Not in MR) and (Not in MR)
- Zangwill, W. I. see Sarkar, Dilip, 91a:60262
- Zavgorodnev, S. M. see Tikhonenko, O. M.; et al., 91b:60179
- Zazanis, Michael A. Infinitesimal perturbation analysis estimates for moments of the system time of an $M/M/1$ queue. 91f:60182
- Zhang, Da Qing see Tian, Nai Shuo; et al., 91c:60136
- Zhang, Han Qin (with Wang, Rong Xin) Limit theorems for queues and waiting times in multichannel, multiple-server systems under heavy traffic. (Chinese) 91m:60181
- Zhang, Zhensheng Analytical results for waiting time and system size distributions in two parallel queueing systems. 91b:60271
- Zhu, Yixin see Prabhu, N. U., 91c:60279
- Zhulenev, S. V. (with Kashtanov, V. A.; Tolmacheva, N. D.) A method for reducing functional extremal problems to finite-dimensional problems. (Russian) (see 91b:60003)
- Ziedins, I. B. (with Kelly, Frank P.) Limit theorems for loss networks with diverse routing. 91f:60183
- Items with secondary classifications in 60K25
- Adachi, Kōichi see Liu, Li Wen; et al., 91j:90035
- Akyildiz, I. F. (with von Brand, Horst) Exact solutions for open, closed and mixed queueing networks with rejection blocking. 91a:60016
- Aliev, A. O. see Anisimov, V. V., 91b:60226
- Anantharaman, N. see Gopalan, M. N., 91k:90066
- Anisimov, V. V. (with Chabanyuk, V. S.) ★ Задача отражения Скорохода в диффузионная аппроксимация сетей обслуживания. (Russian) [Skorokhod's reflection problem and diffusion approximation of queueing networks] 91a:60196
- (with Aliev, A. O.) ★ Диффузионная аппроксимация рекуррентных алгоритмов полумарковского типа и ее приложения в системах обслуживания. (Russian) [Diffusion approximation of recursive algorithms of semi-Markov type and its applications in queueing systems] 91b:60226
- van Arem, B. (with van Doorn, Erik A.; Meijer, T. M. J.) Queueing analysis of a discrete closed-loop conveyor with service facilities. 91d:60249
- Asmussen, Søren Exponential families and regression in the Monte Carlo study of queues and random walks. 91k:65019
- Berg, Menachem (with Posner, M. J. M.) Customer delay in $M/G/\infty$ repair systems with spares. 91a:90079
- Bettr, Bruno (with Ladelli, Lucia) A Markov chain model for traffic queue evolution at an intersection. 91k:90061
- Blanc, J. P. C. A numerical approach to cyclic-service queueing models. 91f:90052
- Bobbio, Andrea (with Trivedi, Kishor S.) Computation of the distribution of the completion time when the work requirement is a PH random variable. 91c:60251
- Boucherie, Richard J. (with van Dijk, Nico M.) Spatial birth-death processes with multiple changes and applications to batch service networks and clustering processes. 91f:60123
- von Brand, Horst see Akyildiz, I. F., 91a:60016
- Buckley, James J. Elementary queueing theory based on possibility theory. 91h:90038
- Bukchin, A. M. A method for solving a discrete problem of optimal control of a queueing system with multidimensional input flows. 91f:90053
- Chabanyuk, V. S. see Anisimov, V. V., 91a:60196
- Chandra, Jeya see Tosirisk, Phadana, 91c:90045
- Chen, Robert W. (with Shepp, Larry A.) Synchronous service on a circle. 91m:68014
- Cidon, Israel (with Sidi, Moshe) Recursive computation of steady-state probabilities in priority queues. 91c:90044
- Coffman, E. G., Jr. (with Leighton, Frank Thomson) A provably efficient algorithm for dynamic storage allocation. 91a:68123
- Cohen, J. W. On entrance time distributions for two-dimensional random walks. 91c:60206
- Cohen, Joel E. (with Kelly, Frank P.) A paradox of congestion in a queueing network. 91h:60109
- Coyle, Edward J. see Zhang, Ji, 91f:60145
- De Serres, Yves Simultaneous optimization of flow control and scheduling in a single server queue with two job classes. (Not in MR)
- van Dijk, Nico M. Queueing systems with restricted workload: an explicit solution. 91h:90039
- see also Boucherie, Richard J., 91f:60123
- van Doorn, Erik A. see van Arem, B.; et al., 91d:60249
- Dudin, A. N. (with Ikhsan, Khalaf) Finding the optimal hysteresis strategy for controlling a two-speed queueing system. (Russian) 91h:90031
- Dukhovny, Alexander M. Markov chains with quasi-Toeplitz transition matrix. 91a:60176
- Markov chains with quasi-Toeplitz transition matrix: applications. 91c:60192
- Dupuis, Paul (with Ishii, Hitoshi; Soner, H. Mete) A viscosity solution approach to the asymptotic analysis of queueing systems. 91g:35046
- El-Affendi, M. A. Some practical results for nonexponential models of computer performance analysis. (Arabic summary) 91f:68012
- Ermakov, S. M. (with Melas, V. B.) Optimal branching of trajectories in simulation of systems described by stationary random processes. 91f:65013
- Falin, G. I. Some exact formulas for two-dimensional random walks with applications to interacting queues. (Russian) 91f:60118
- Fayolle, Guy Ergodicity and asymptotic behaviour of multi-type branching processes arising in random-access communication systems. (see 91j:60003)
- On random walks arising in queueing systems: ergodicity and transience via quadratic forms as Lyapunov functions. I. 91d:60157
- Fedotkin, M. A. Optimal control of conflicting flows and marked point processes with an isolated discrete component. II. (Russian. English and Lithuanian summaries) 91c:90053
- see also Golybina, N. M., (Not in MR)
- Feng, Chun Bo see Wang, Zi Qun; et al., 91c:90046
- Fryer, M. J. see Winsten, C. B., (Not in MR)
- Gal, T. see Sztrik, János, (Not in MR)
- Gelenbe, Erol (with Rosenberg, Catherine) Queues with slowly varying arrival and service processes. 91j:90034
- Gibbens, R. J. (with Hunt, P. J.; Kelly, Frank P.) Bistability in communication networks. 91h:60110
- Glasserman, Paul (with Gong, Wei Bo) Smoothed perturbation analysis for a class of discrete-event systems. 91h:93101
- Golybina, N. M. (with Fedotkin, M. A.) Cyclic control of conflicting flows under conditions of the birth and death of critical size queues. (Not in MR)
- Gong, Wei Bo see Glasserman, Paul, 91h:93101
- Gopalan, M. N. (with Anantharaman, N.) Analysis of production systems with reliable machines and random processing times—a review. 91k:90066
- Grassmann, W. K. see Zhao, Yiqiang, (Not in MR)
- Hantler, Sidney L. (with Rosberg, Zvi) Optimal estimation for an $M/M/c$ queue with time varying parameters. 91c:60267
- Harishchandra, K. (with Subba Rao, S.) A note on statistical inference about the traffic intensity parameter in $M/E_k/1$ queue. 91b:62043
- Harrison, J. Michael (with Wein, Lawrence M.) Scheduling networks of queues: heavy traffic analysis of a simple open network. 91g:90080
- (with Williams, Ruth J.) On the quasireversibility of a multiclass Brownian service station. 91b:60204
- (with Nguyen, Vien) The QNET method for two-moment analysis of open queueing networks. 91k:90064
- Hirayama, Tetsuji (with Kijima, Masaaki; Nishimura, Shōichi) Further results for dynamic scheduling of multiclass $G/G/1$ queues. 91b:68016
- Hong, Michael L. (with Ott, Teunis J.) On waiting for simultaneous access to two resources. 91g:90070
- Hsiao, Man-tung T. (with Lazar, Aurel A.) Optimal flow control of multiclass queueing networks with partial information. 91g:90071
- Hunt, P. J. see Gibbens, R. J.; et al., 91h:60110
- Ikhsan, Khalaf see Dudin, A. N., 91h:90031
- Ishii, Hitoshi see Dupuis, Paul; et al., 91g:35046
- Johnson, Mary A. (with Taaffe, Michael R.) Matching moments to phase distributions: nonlinear programming approaches. 91j:90096a
- (with Taaffe, Michael R.) Matching moments to phase distributions: density function shapes. 91j:90096b
- Jun, Kyung P. (with Perros, Harry G.) An approximate analysis of open tandem queueing

- networks with blocking and general service times. 91c:90048
- Kaufman, J. S. (with Wang, Yung Terng) A conservation law based approximate analysis for a class of simultaneous resource possession problems. (Not in MR)
- Kelly, Frank P. see Cohen, Joel E., 91h:60109 and Gibbens, R. J.; et al., 91h:60110
- Kijima, Masaaki Uniform monotonicity of Markov processes and its related properties. 91d:60153
- see also Hirayama, Tetsuji; et al., 91h:68016
- Kneel, Charles Refinements to heavy traffic limit theorems in queueing theory. 91m:90070
- Kostreva, M. M. see Pattipati, Krishna R.; et al., 91c:68021
- Kouvaros, Demetres D. (with Tabet-Aouel, Nasreddine) A maximum entropy priority approximation for a stable $G/G/1$ queue. 91f:90054
- (with Xenios, Nikos P.) MEM for arbitrary queueing networks with multiple general servers and repetitive-service blocking. 91a:68018
- Kowada, Masashi see Liu, Li Wen; et al., 91j:90035
- Kushner, Harold J. (with Ramachandran, K. M.) Optimal and approximately optimal control policies for queues in heavy traffic. 91g:93008
- Ladelli, Lucia see Bétró, Bruno, 91a:90061
- Latoche, Guy Distributions de type phase: tutorial. (English summary) [Tutorial on phase-type distributions] 91c:60037
- Lazar, Aurel A. see Hsiao, Man-tung T., 91g:90071
- Lee, Hyo-Seong (with Srinivasan, Mandyam M.) The shuttle dispatch problem with compound Poisson arrivals: controls at two terminals. 91d:90046
- Lehoczky, John P. see Sha, Lai; et al., 91j:68018
- Leighton, Frank Thomson see Coffman, E. G., Jr., 91a:68123
- Levy, Hanoch see Milillo, Rodolfo A., 91f:90055
- Liu, Li Wen (with Adachi, Koichi; Kowada, Masashi) A dispatching system with a Poisson input. 91j:90035
- McKenna, James A new proof and a tree algorithm for RECAL. 91a:68019
- Meijer, T. M. J. see van Arem, B.; et al., 91d:60249
- Melas, V. B. see Ermakov, S. M., 91f:65013
- Milillo, Rodolfo A. (with Levy, Hanoch) Modeling and dynamic scheduling of a queueing system with blocking and starvation. 91f:90055
- Mohana Dhas, D. Audsin see Nadarajan, R., (Not in MR)
- Nadarajan, R. (with Mohana Dhas, D. Audsin) Multiserver general bulk service queue with vacation. (Not in MR)
- Nain, Philippe (with Tsoucas, Pantelis; Walrand, Jean) Interchange arguments in stochastic scheduling. 91d:60230
- Neuts, Marcel F. ★ Structured stochastic matrices of $M/G/1$ type and their applications. 91d:60161
- Nguyen, Vien see Harrison, J. Michael, 91j:90064
- Nishimura, Shōichi see Hirayama, Tetsuji; et al., 91h:68016
- Ouvral, Ralf O. A note on the product form solutions of multiclass closed queueing networks with blocking. 91a:68020
- Ott, Teunis J. see Honig, Michael L., 91g:90070
- Pattipati, Krishna R. (with Kostreva, M. M.; Teele, J. L.) Approximate mean value analysis algorithms for queueing networks: existence, uniqueness, and convergence results. 91c:68021
- Percus, J. K. see Percus, Ora E., 91h:90040
- Percus, Ora E. (with Percus, J. K.) Queue length distributions in a Markov model of a multistage clocked queueing network. 91h:90040
- Perron, Harry G. see Jun, Kyung P., 91c:90048
- Posner, M. J. M. see Berg, Menachem, 91a:90079
- Postan, M. Ya. ★ Подмарковские процессы накопления и расходования запасов и их применение. (Russian) [Semi-Markov processes of the accumulation and expenditure of reserves and their application] 91c:60228
- Pourbahi, Behnam A finite capacity telecommunication system with repeated calls. (German and Russian summaries) 91a:68021
- Tandem behavior of a telecommunication system with finite buffers and repeated calls. (Not in MR)
- Poznyak, V. V. (with Revinskii, V. V.; Starovoitov, A. M.; Tikhonenko, O. M.) Determination of the characteristics of the total number of customers in single-server queueing systems with constraints. (Russian) (Not in MR)
- Rajkumar, Raganathan see Sha, Lai; et al., 91j:68018
- Ramachandran, K. M. Nearly optimal control of queues in heavy traffic with heterogeneous servers. 91a:93063
- see also Kushner, Harold J., 91g:93008
- Rege, Vernon Some efficient computational algorithms related to phase models. 91a:68022
- Reiman, Martin I. Asymptotically exact decomposition approximations for open queueing networks. (Not in MR)
- Revinskii, V. V. see Poznyak, V. V.; et al., (Not in MR)
- Rosberg, Zvi see Hantler, Sidney L., 91c:62087
- Rosenberg, Catherine see Gelenbe, Erol, 91j:90034
- Rosenkrantz, Walter A. Ergodicity conditions for two-dimensional Markov chains on the positive quadrant. 91a:60178
- Ross, Keith W. (with Tsang, Danny) Teletraffic engineering for product-form circuit-switched networks. 91g:90069
- Rubin, Izhak (with Zhang, Zhensheng) Performance analysis on test scheduling schemes for a multi-access communications network. 91m:68016
- Sampath Kumar, V. S. Some studies of denumerable Markov chains and a queueing model. (Not in MR)
- Some studies of denumerable Markov chains and a queueing model. 91c:60083
- Sengupta, Bhaskar Phase-type representations for matrix-geometric solutions. 91c:60200
- Sha, Lai (with Rajkumar, Raganathan; Lehoczky, John P.) Priority inheritance protocols: an approach to real-time synchronization. 91j:68018
- Shaked, Moshe (with Shanthikumar, J. George) Convexity of a set of stochastically ordered random variables. 91d:60043
- Shanthikumar, J. George see Shaked, Moshe, 91d:60043
- Shepp, Larry A. see Chen, Robert W., 91m:68014
- Sidi, Moshe see Cidon, Israel, 91c:90044
- Solodnyannikov, Yu. V. Direct and inverse problems in the nonparametric statistics of queueing systems. 91h:62027
- Soner, H. Mete see Dupuis, Paul; et al., 91g:35046
- Song, Wen Zhong see Wang, Zi Qin; et al., 91c:90046
- Srinivasan, Mandyam M. see Lee, Hyo-Seong, 91d:90046
- Starovoitov, A. M. see Poznyak, V. V.; et al., (Not in MR)
- Subba Rao, S. see Harishchandra, K., 91b:62043
- Sztrik, János (with Gal, T.) A recursive solution of a queueing model for a multi-terminal system subject to breakdowns. (Not in MR)
- Taaffe, Michael R. see Johnson, Mary A., 91j:90096a and 91j:90096b
- Tabet-Aouel, Nasreddine see Kouvaros, Demetres D., 91f:90054
- Takagi, Hideaki see Takahashi, Yoshitaka, 91g:90072
- Takahashi, Yoshitaka (with Takagi, Hideaki) Structured priority queue with batch arrivals. 91g:90072
- Teale, J. L. see Pattipati, Krishna R.; et al., 91c:68021
- Tikhonenko, O. M. see Poznyak, V. V.; et al., (Not in MR)
- Tosiruk, Phadana (with Chandra, Jeya) Multiple finite source queueing model with dynamic priority scheduling. 91c:90045
- Trivedi, Kishor S. see Bobbio, Andrea, 91c:60251
- Tsang, Danny see Ross, Keith W., 91g:90069
- Tsoucas, Pantelis see Nain, Philippe; et al., 91h:60230
- Vel'pert, A. B. Qualitative study of a class of queueing systems. (Russian) (see 91h:90024)
- Walrand, Jean see Nain, Philippe; et al., 91h:60230
- Wang, Yung Terng see Kaufman, J. S., (Not in MR)
- Wang, Zi Qin (with Song, Wen Zhong; Feng, Chun Bo) Analysis and optimization of discrete event dynamical systems—a queueing network model method. I. (Chinese) 91c:90046
- Wein, Lawrence M. see Harrison, J. Michael, 91g:90080
- Williams, Ruth J. see Harrison, J. Michael, 91d:60204
- Willmot, Gordon E. Asymptotic tail behaviour of Poisson mixtures with applications. 91f:60042
- Winsten, C. B. (with Fryer, M. J.) Duality properties of a one-dimensional random walk and a new computational algorithm. (Not in MR)
- Winter, B. B. Joint simulation of backward and forward recurrence times in a renewal process. 91h:60098
- Wolff, Ronald W. ★ Stochastic modeling and the theory of queues. 91a:60228
- Xenios, Nikos P. see Kouvaros, Demetres D., 91a:68018
- Zhang, Ji (with Coyle, Edward J.) Transient analysis of quasi-birth-death processes. 91f:60145
- Zhang, Zhensheng see Rubin, Izhak, 91m:68016
- Zhao, Yiqiang (with Grassmann, W. K.) The shortest queue model with jockeying. (Not in MR)

60K30 Applications (congestion, allocation, storage, traffic, etc.) [see also 90Bxx]

- van Arem, B. (with van Doorn, Erik A.; Meijer, T. M. J.) Queueing analysis of a discrete closed-loop conveyor with service facilities. 91d:60249
- Atia, F. A. A note on the expected discounted cost of operating a finite dam. 91f:60184
- Corrigendum: "A note on the expected discounted cost of operating a finite dam" [Stochastic Process. Appl. 31 (1989), no. 1, 161–166; MR 91f:60184]. (Not in MR)
- Choukri, T. see Üstünel, Ali Süleyman, 91m:60184
- Cohen, Joel E. (with Kelly, Frank P.) A paradox of congestion in a queueing network. 91h:60109
- van Doorn, Erik A. see van Arem, B.; et al., 91d:60249
- Faddy, M. J. Compartmental models with phase-type residence-time distributions. (Not in MR)
- Gibbens, R. J. (with Hunt, P. J.; Kelly, Frank P.) Bistability in communication networks. 91h:60110
- Glynn, John E. A discrete-time storage process with a general release rule. 91a:60269
- Hunt, P. J. see Gibbens, R. J.; et al., 91h:60110
- Kaspi, Haya (with Perry, David) On a duality between a non-Markovian storage/production process and a Markovian dam process with state-dependent input and output. 91c:60137
- Kelly, Frank P. see Cohen, Joel E., 91h:60109 and Gibbens, R. J.; et al., 91h:60110
- Kipnis, C. (with Robert, Philippe) A dynamic storage process. 91c:60138
- Kneel, Charles On the transient behavior of the $M/M/m/m$ loss model. 91m:60182
- (with Morrison, J. A.) Heavy-traffic analysis of a data-handling system with many sources. 91m:60183
- Król, Mieczysław (with Weron, Jan) On analytical properties of distribution function of some vector stochastic process. (Russian and Polish summaries) 91j:60153
- Meenakshi Bai, M. see Venugopal, N., 91j:60154
- Meijer, T. M. J. see van Arem, B.; et al., 91d:60249
- Morrison, J. A. see Kneel, Charles, 91m:60183
- Perry, David see Kaspi, Haya, 91c:60137
- Robert, Philippe see Kipnis, C., 91c:60138
- Shamsiev, R. N. Circuit-switching networks with priorities on a one-dimensional lattice. 91c:60284
- Üstünel, Ali Süleyman (with Choukri, T.) Diffusion approximation of videoconference networks. 91m:60184
- Venugopal, N. (with Meenakshi Bai, M.) A unified approach through point processes to storage and reliability models. 91j:60154
- Weron, Jan see Król, Mieczysław, 91j:60153
- Zakusilo, O. K. General storage processes with additive input. 91k:60110
- Items with secondary classifications in 60K30
- Alfa, Attahlu Sule A queueing model for signalized intersections with generalized vehicle interarrival times. 91a:90076
- Atia, F. A. Resolvent operators of Markov processes and their applications in the control of a finite dam. 91a:60185

- Cao, Xi-Ren Realization factors and sensitivity analysis of queueing networks with state-dependent service rates. **91c:60120**
- Donnelly, Peter (with Whitt, Ward) On reinforcement-depletion compartmental urn models. **91d:60216**
- Dukhovny, Alexander M. Markov chains with quasi-Toeplitz transition matrix. **91a:60176**
- Markov chains with quasi-Toeplitz transition matrix: applications. **91c:60192**
- Hunt, P. J. (with Kelly, Frank P.) On critically loaded loss networks. **91c:60272**
- Kelly, Frank P. see Hunt, P. J., **91c:60272**
- Krishnamoorthy, A. see Manoharan, M., **91b:90072**
- Lambros, A. (with Pombortsis, A.; Sideridis, A. B.; Tambouratzis, D.) A generalization of the Erlang's B formula. (French summary) **91a:60250**
- Manoharan, M. (with Krishnamoorthy, A.) Markov renewal theoretic analysis of a perishable inventory system. **91b:90072**
- Mokaddis, G. S. (with Tawfik, M. L.) Some extensions of one stream-storage model. **91b:90035**
- Neuts, Marcel F. On Viterbi's formula for the mean delay in a queue of data packets. **91c:60277**
- Plasker, M. S. see Vvedenskaya, N. D., **91b:60211**
- Pombortsis, A. see Lambros, A.; et al., **91a:60250**
- Postan, M. Ya. see Vvedenskii, E. N., **91b:90044**
- Rhee, WanSoo T. (with Talagrand, Michel) The complete convergence of best fit decreasing. **91a:68138**
- (with Talagrand, Michel) The complete convergence of first fit decreasing. **91a:68139**
- Sideridis, A. B. see Lambros, A.; et al., **91a:60250**
- Talagrand, Michel see Rhee, WanSoo T., **91a:68138** and **91a:68139**
- Tambouratzis, D. see Lambros, A.; et al., **91a:60250**
- Tawfik, M. L. see Mokaddis, G. S., **91b:90035**
- Vvedenskii, E. N. (with Postan, M. Ya.) A stochastic model for storage of reserves taking into account transportation. (Russian. English summary) **91b:90044**
- Vvedenskaya, N. D. (with Plasker, M. S.) A throughput estimate for FCFS multiple access algorithms. **91b:60211**
- Whitt, Ward see Donnelly, Peter, **91d:60216**

60K35 Interacting random processes; statistical mechanics type models; percolation theory [see also 82B43, 82C43]

- Adler, Robert J. The net charge process for interacting, signed diffusions. **91b:60272**
- Andjel, Enrique D. (with Schinazi, Rinaldo B.; Schonmann, Roberto H.) Edge processes of one-dimensional stochastic growth models. (French summary) **91b:60273**
- Arora, R. T. (with Kumar, Ashok²) A control policy for an Erlangian arrival. **91c:60139**
- Bezuidenhout, Carol (with Grimmett, Geoffrey) The critical contact process dies out. **91b:60111**
- Bleikher, P. M. (with Major, Péter) Limit theorems in statistical physics; on Dyson's hierarchical model. (see **91j:60003**)
- Bolthausen, Erwin A note on the diffusion of directed polymers in a random environment. **91a:60270**
- Burdzy, Krzysztof (with Lawler, Gregory F.) Rigorous exponent inequalities for random walks. **91a:60271**
- Chayes, J. T. (with Chayes, L.; Grimmett, Geoffrey; Kesten, Harry; Schonmann, Roberto H.) The correlation length for the high-density phase of Bernoulli percolation. **91b:60274**
- Chayes, L. see Chayes, J. T.; et al., **91b:60274**
- Chen, Mu Fa Ergodic theorems for reaction-diffusion processes. **91b:60111**
- Choi, Chi Hoon (with Kim, Woo Chul; Jeon, Jong Woo) A central limit theorem in a mean field model. **91a:60272**
- Cox, J. T. Coalescing random walks and voter model consensus times on the torus in \mathbb{Z}^d . **91d:60250**
- (with Greven, Andreas) On the long term behavior of some finite particle systems. **91b:60275**
- Dekking, F. M. (with Meester, Ronald W. J.) On the structure of Mandelbrot's percolation process and other random Cantor sets. **91c:60140**
- De Mas, A. (with Kipnis, C.; Presutti, Errico; Saada, E.) Microscopic structure at the shock in the asymmetric simple exclusion. **91a:60273**
- Ding, Wan Ding (with Zheng, Xiao Gu) Ergodic theorems for linear growth processes with diffusion. **91a:60274**
- (with Durrett, Richard; Liggett, Thomas M.) Ergodicity of reversible reaction diffusion processes. **91b:60185**
- Dobrushin, R. L. Switching networks, Markov interaction processes, Gibbsian fields—interconnection. (see **91j:60003**)
- Analyticity condition of Gibbs fields. **91b:60080**
- Domb, Cyril Covering by random intervals and one-dimensional continuum percolation. **91a:60275**
- Durrett, Richard (with Schonmann, Roberto H.; Tanaka, Nelson I.) The contact process on a finite set. III. The critical case. **91d:60251**
- (with Schonmann, Roberto H.; Tanaka, Nelson I.) Correlation lengths for oriented percolation. **91b:60112**
- (with Tanaka, Nelson I.) Scaling inequalities for oriented percolation. **91b:60113**
- see also Ding, Wan Ding; et al., **91b:60185**
- Ferrari, Pablo Augusto Ergodicity for spin systems with stirrings. **91b:60112**
- Ferreira, Irene The probability of survival for the biased voter model in a random environment. **91b:60276**
- Fleischmann, Klaus (with Molchanov, S. A.) Exact asymptotics in a mean field model with random potential. **91b:60113**
- Frigessi, Arnoldo (with Piccioni, Mauro) Parameter estimation for two-dimensional Ising fields corrupted by noise. **91j:60155**
- Funaki, Tadahisa Derivation of the hydrodynamical equation for one-dimensional Ginzburg-Landau model. **91c:60141**
- Galves, Antonio (with Martinelli, Fabio; Olivieri, Enzo) Large-density fluctuations for the one-dimensional supercritical contact process. **91b:60081**
- Gandolfi, Alberto Uniqueness of the infinite cluster for stationary Gibbs states. **91c:60142**
- Gärtner, Jürgen (with Presutti, Errico) Shock fluctuations in a particle system. (French summary) **91m:60185**
- Goutsias, John K. Mutually compatible Gibbs random fields. **91b:60277**
- Greven, Andreas see Cox, J. T., **91b:60275**
- Grimmett, Geoffrey Recent progress in percolation. (see **91j:60003**)
- (with Marstrand, J. M.) The supercritical phase of percolation is well behaved. **91b:60186**
- see also Chayes, J. T.; et al., **91b:60274** and Bezuidenhout, Carol, **91b:60111**
- Gurevich, B. M. Dynamics of infinite particle systems and Gibbs point random fields. (see **91j:60003**)
- Hara, Takashi Mean-field critical behaviour for correlation length for percolation in high dimensions. **91m:60187**
- Higuchi, Yasunari Percolation problem for the two-dimensional Ising model. (see **91j:60003**)
- A remark on the percolation for the 2D Ising model. **91c:60143**
- Ignatyuk, I. A. (with Malyshev, V. A.) Cluster expansion for locally interacting Markov chains. (Russian) **91b:60187**
- (with Malyshev, V. A.) Processes with local interaction, and communication networks. **91d:60252**
- (with Malyshev, V. A.; Molchanov, S. A.) Moment-closed processes with local interaction. **91m:60188**
- Itatsa, Seichi Ergodic properties of the stepping stone model. **91d:60253**
- Jeon, Jong Woo see Choi, Chi Hoon; et al., **91a:60272**
- Katori, Makoto (with Konno, Norio) Correlation inequalities and lower bounds for the critical value λ_c of contact processes. **91b:60114**
- Kesten, Harry Asymptotics in high dimensions for percolation. **91b:60114**
- (with Zhang, Yu¹) The probability of a large finite cluster in supercritical Bernoulli percolation. **91b:60278**
- see also Chayes, J. T.; et al., **91b:60274**
- Kim, Woo Chul see Choi, Chi Hoon; et al., **91a:60272**
- Kipnis, C. (with Olla, Stefano; Varadhan, S. R. S.) Hydrodynamics and large deviation for simple exclusion processes. **91b:60115**
- see also De Mas, A.; et al., **91a:60273**
- Konno, Norio see Katori, Makoto, **91b:60114**
- Kuczek, Thomas The central limit theorem for the right edge of supercritical oriented percolation. **91b:60279**
- Kumar, Ashok² see Arora, R. T., **91c:60139**
- Lawler, Gregory F. see Burdzy, Krzysztof, **91a:60271**
- Liggett, Thomas M. see Ding, Wan Ding; et al., **91b:60185**
- Loan, Chang Fu Quasi-contact processes. (Chinese. English summary) **91b:60188**
- Madras, N. (with Orlicsky, Alon; Shepp, Larry A.) Monte Carlo generation of self-avoiding walks with fixed endpoints and fixed length. **91b:60082**
- Major, Péter see Bleikher, P. M., **(91j:60003)**
- Malyshev, V. A. see Ignatyuk, I. A., **91d:60252**; **91b:60187** and **91m:60188**
- Marstrand, J. M. see Grimmett, Geoffrey, **91b:60186**
- Martinelli, Fabio see Galves, Antonio; et al., **91b:60081**
- Martirosyan, M. R. Nonfinite perturbations of Gaussian Gibbsian fields. (Russian. English and Armenian summaries) **91b:60280**
- Meester, Ronald W. J. (with Nowicki, Tomasz) Infinite clusters and critical values in two-dimensional circle percolation. **91b:60115**
- see also Dekking, F. M., **91c:60140**
- Menshikov, M. V. Percolation theory. Coincidence of the critical values $P_H = P_r$. (see **91j:60003**)
- (with Pelikh, K. D.) Percolation with several types of defects. A bound for the critical probability of a square lattice. **91b:60116**
- Molchanov, S. A. see Fleischmann, Klaus, **91b:60113** and Ignatyuk, I. A.; et al., **91m:60188**
- Nappo, G. (with Orlandi, Enzo; Rost, H.) A reaction-diffusion model for moderately interacting particles. **91a:60276**
- Neuhauser, Claudia One-dimensional stochastic Ising models with small migration. **91b:60116**
- An ergodic theorem for Schlögl models with small migration. **91b:60186**
- Nguyen, Bao Gia Percolation of coalescing random walks. **91b:60117**
- Nowicki, Tomasz see Meester, Ronald W. J., **91b:60115**
- Oelschläger, Karl On the derivation of reaction-diffusion equations as limit dynamics of systems of moderately interacting stochastic processes. **91c:60144**
- Limit theorems for age-structured populations. **91b:60117**
- Olivieri, Enzo see Galves, Antonio; et al., **91b:60081**
- Olla, Stefano see Kipnis, C.; et al., **91b:60115**
- Orlandi, Enzo see Nappo, G.; et al., **91a:60276**
- Orlicsky, Alon see Madras, N.; et al., **91b:60082**
- Pelikh, K. D. An estimate for critical probability in a problem of percolation on a cubic lattice. (Russian) (Not in MR)
- see also Menshikov, M. V., **91b:60116**
- Piccioni, Mauro see Frigessi, Arnoldo, **91j:60155**
- Pippenger, Nicholas Random sequential adsorption on graphs. **91b:60189**
- Platen, Eckhard A law of large numbers for wide range exclusion processes in random media. **91a:60277**
- Presutti, Errico Collective behaviour of interacting particle systems. (see **91j:60003**)
- see also De Mas, A.; et al., **91a:60273** and Gärtner, Jürgen, **91m:60185**
- Rost, H. A reaction-diffusion model for moderately interacting particles. (see **91a:60276**)
- see also Nappo, G.; et al., **91a:60276**
- Saada, E. see De Mas, A.; et al., **91a:60273**
- Schinazi, Rinaldo B. see Andjel, Enrique D.; et al., **91b:60273**
- Schonmann, Roberto H. see Durrett, Richard; et al., **91d:60251**; **91b:60112**; Andjel, Enrique D.; et al., **91b:60273** and Chayes, J. T.; et al., **91b:60274**
- Shepp, Larry A. see Madras, N.; et al., **91b:60082**
- Skorokhod, A. V. Systems of interacting reproducing particles. (Russian) **91b:60281**
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62-06 Proceedings, conferences, collections, etc.

(Anderson, T. W.) *see* Statistical inference in elliptically contoured and related distributions,

91c:62006

(Belasco, S.) *see* Multiway data analysis, 91j:62003

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91h:62003

(Carter, R. A. L.) *see* Contributions to econometric theory and application, 91h:62004

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- (Kalashnikov, V. V.) see Stability problems for stochastic models, 91b:60004
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62-07 Data analysis

- Behrens, John T. (with Stock, William A.; Sedgwick, Catherine) Judgment errors in elementary box-plot displays. (Not in MR)
Chen, Shan De (with Farnsworth, David L.) Median polish and a modified procedure. 91h:62064
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d'Aubigny, G. (with Polit, E.) Some optimality properties of the generalization of the Tucker method to the analysis of n -way tables with specified metrics. (see 91j:62003)
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62-09 Graphical methods

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62Axx Foundations

62A05 Invariance and group considerations

- Barndorff-Nielsen, Ole E. (with Blassild, Preben; Eriksen, Poul Svante) ★ Decomposition and invariance of measures, and statistical transformation models. 91i:62005
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- Armstrong, Thomas E. Invariance of full conditional probabilities under group actions. 91d:28007
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62C12 Empirical decision procedures; empirical Bayes procedures

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 Stijnen, Th. (with van Houwelingen, J. C.) Empirical Bayes methods in clinical trials meta-analysis. (Not in MR)
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- Periman, Michael D. see Marden, John L. 91d:62077
- Perron, François Equivariant estimators of the covariance matrix. (French summary) 91j:62073
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- Yang, Ming Chung Compromise between generalized Bayes and Bayes estimators of Poisson means under entropy loss. 91b:62045
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- Zometek, Stefan The minimal complete class for the vector of variance components. 91h:62011

62C20 Minimax procedures

- Abdullaev, F. A. see Kocherga, Yu. L. 91a:62019
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- Berry, J. Calvin Minimax estimation of a bounded normal mean vector. 91m:62017
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- (with Eichenauer-Herrmann, Jürgen; Lehn, J.) Gamma-minimax estimation of a multivariate normal mean. 91b:62016
- (with Eichenauer-Herrmann, Jürgen; Hofmann, H.; Kindler, Jürgen) Gamma-minimax estimators in the exponential family. 91m:62018
- Dey, Dipak K. see Rukhin, Andrew L.; et al. 91e:62018
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- Eichenauer-Herrmann, Jürgen (with Fieger, Werner) Minimax estimation in scale parameter families when the parameter interval is bounded. 91a:62018
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- Fan, Jian Qing (with Fang, Kai Tai) Minimax estimators and Stein's two-stage estimators of location parameters [Chinese J. Appl. Probab. Statist. 1 (1985), no. 2, 103–114; MR 87g:62018]. (see 91e:62006)
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- Hofmann, H. see Chen, Lan Xiang; et al. 91m:62018
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- Kumar, Somesh (with Sharma, Divakar) On the Pitman estimator of ordered normal means. 91e:62017
- Kuo, Lynn see Rukhin, Andrew L.; et al. 91e:62018
- Lauterbach, J. see Stahlacker, P. 91e:62019
- Lehn, J. see Chen, Lan Xiang; et al. 91b:62016
- Lepskii, O. V. Asymptotically minimax estimation with prescribed properties. 91d:62007
- Liu, Richard C. see Donoho, David L.; et al. 91k:62012
- MacGibbon, K. Brenda see Donoho, David L.; et al. 91k:62012
- Maymin, Zakhar For what subsets of parameters is the least squares estimator minimax? 91f:62018
- Pinelis, I. F. On minimax risk. 91f:62019
- Rukhin, Andrew L. (with Kuo, Lynn; Dey, Dipak K.) A class of minimax estimators of the scale parameter of the uniform distribution. 91e:62018
- Sharma, Divakar see Kumar, Somesh. 91e:62017
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- Wiens, Douglas P. Minimax-variance L - and R -estimators of location. (French summary) 91m:62019
- Xu, Xing Zhong Linear minimax estimates for regression coefficients under matrix loss. (Chinese. English summary) 91b:62016

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- Bednarski, T. On the convergence rate of robust procedures and local equivalence of Hellinger and total variation distances. 91b:62065
- Berry, J. Calvin Bayes minimax estimation of a Bernoulli p in a restricted parameter space. 91e:62056
- Brown, Lawrence D. (with Low, Mark G.) Information inequality bounds on the minimax risk (with an application to nonparametric regression). 91m:62039

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- Choi, Kuey-Chung Minimax and admissible estimation of the mean of a multivariate normal distribution. 91e:62016
- Cremers, Heinz (with Fieger, Werner) On minimax and best equivariant estimation functions in the linear model with 4-unimodal density and quasiconvex loss. 91a:62162
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- Dhariyal, I. D. (with Misra, Neeraj; Rathore, R. K. S.) Selecting the better of two binomial populations: optimal decision rules. 91e:62052
- Dodunekova, Rositsa On the minimax property of the linear minimax estimator in a stochastic model. (Russian. English summary) 91a:62231
- Eichenauer-Herrmann, Jürgen (with Gohout, W.; Lehn, J.) Minimax estimation of a binomial probability under weighted absolute error loss. 91e:62057
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- Giri, Narayan C. Some robust tests of independence in symmetrical multivariate distributions. (French summary) 91f:62100
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- Golubev, G. K. (with Nussbaum, Michael) A risk bound in Sobolev class regression. 91f:62065
- Hegazy, Sabry see Ofosu, J. B.; et al. (Not in MR)
- Jabri, M. H. Z. see Ofosu, J. B.; et al. (Not in MR)
- Johnstone, Iain M. (with Silverman, Bernard W.) Speed of estimation in positron emission tomography and related inverse problems. 91e:62038
- Kubokawa, Tatsuya The recovery of interblock information in balanced incomplete block designs. 91b:62162
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- Lauterbach, J. (with Stahlacker, P.) Some properties of $[\text{tr}(Q^2)]^{1/2}$ with application to linear minimax estimation. 91e:62178
- Lebedev, V. S. Minimax estimation of linear functionals in two-dimensional noise. 91e:62092
- Lehn, J. see Eichenauer-Herrmann, Jürgen; et al. 91e:62057
- Low, Mark G. see Brown, Lawrence D. 91m:62039
- Magiera, Ryszard Minimax sequential estimation plans for exponential-type processes. 91d:62127
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- Miyazaki, Haruo see Shimoda, Yukio. (Not in MR)
- Nussbaum, Michael see Golubev, G. K. 91f:62065
- Ofosu, J. B. (with Hegazy, Sabry; Jabri, M. H. Z.) On the robustness of a minimax procedure for the population with largest (smallest) scale parameter. (Not in MR)
- Perez, Albert Barycenter-aided least-favorable-pair testing and estimating. 91a:62052
- To what extent a Markovian approximation of a process is justified knowing only its first-order transition probabilities. 91j:62009
- Peters, H. J. M. (with van der Stel, H.) A class of solutions for multiperson multicriteria decision making. (German summary) 91j:90046
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- Pinelis, I. F. Minimax estimation of a regression. (Russian) 91m:62124
- Palatov, B. N. A lower bound on minimax risk of nonparametric estimates for regression functions. (Russian) 91d:62050
- Rathore, R. K. S. see Dhariyal, I. D.; et al. 91e:62052
- Shimoda, Yukio (with Miyazaki, Haruo) A two-stage minimax decision procedure for selecting the best of k binomial processes or populations. (Not in MR)
- Silverman, Bernard W. see Johnstone, Iain M. 91e:62038
- Stahlacker, P. see Lauterbach, J. 91e:62178
- van der Stel, H. see Peters, H. J. M. 91j:90046
- Stenger, Horst Asymptotic analysis of minimax strategies in survey sampling. 91b:62024
- Studden, William J. see DasGupta, Anirban. 91g:62003
- Weidner, Petra An approach to different scalarizations in vector optimization. 91j:90068
- Zaigraev, A. Yu. Quasiminimax estimates for unknown parameters and optimal designs for a regression experiment in a Hilbert space. (Russian) 91e:62067
- Zwanzig, Silvelyn On an asymptotic minimax result in nonlinear errors-in-variables models. 91d:62090

62C25 Compound decision problems

Items with secondary classifications in 62C25

- Haff, L. R. (with Johnson, Rodney W.) A note on simultaneous estimation of Pearson modes. 91k:62010
- Johnson, Rodney W. see Haff, L. R. 91k:62010

62C99 None of the above, but in this section

- Gil, María Angeles (with Gil Álvarez, Pedro Ángel) Fuzzy information systems and Zadeh's probabilistic definition. (Spanish. English summary) (Not in MR)
- Gil Álvarez, Pedro Ángel see Gil, María Angeles. (Not in MR)
- Laschgy, Harald (with Mussmann, Dieter) A characterization of weakly dominated statistical experiments by compactness of the set of decision rules. 91b:62018
- Mussmann, Dieter see Laschgy, Harald. 91b:62018

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- Fomenko, A. T. see Novoskii, G. V. 91g:92033
- Hosoya, Yuzo Information amount and higher-order efficiency in estimation. 91j:62034
- Latusenko, M. M. A game-theoretic method for estimating a parameter of a binomial law from the results of a single observation. 91a:62073
- Novoskii, G. V. (with Fomenko, A. T.) Some methods and results of the analysis of mixed sequences. (Russian) 91g:92033
- Pratt, John W. Some results on repeated risktaking. 91i:90022
- Samuelson, Paul A. The \sqrt{N} law and repeated risktaking. 91i:90023

62D05 Sampling theory, sample surveys

- Adhikary, Arun Kumar** (with Chaudhuri, Arijit Ray) On two properties of an unequal probability sampling scheme. **91d:62006**
- A note on interpenetrating subsamples of unequal sizes drawn with and without replacement. **91f:62020**
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- Agarwal, Satish Kumar** see Kumar, Pranesh, (Not in MR)
- Agarwal, M. C.** (with Jain, Nirmal) Comparison of some sampling strategies in the presence of a trend. (Hindi summary) (Not in MR)
- Alho, Juha M.** Adjusting for nonresponse bias using logistic regression. **91k:62013**
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- Bahl, Shashi** (with Tuteja, R. K.) Ratio and product type exponential estimators. (Not in MR)
- Bansal, Mohan L.** (with Singh, Ravindra) An alternative estimator for multiple characteristics corresponding to Hurwitz and Thompson estimator in probability proportional to size and without replacement sampling. (Italian summary) (Not in MR)
- (with Singh, Ravindra) An alternative estimator for multiple characteristics in RHC sampling scheme. (Not in MR)
- Bathia, H. V. L.** see Singh, Padam, (Not in MR)
- Bhattacharyya, Sikha** see Mukhopadhyay, Parimal, **91a:62026**
- Bisht, K. S.** (with Sinodia, B. V. S.) Efficient estimators of mean of finite populations with known coefficient of variation. (Not in MR)
- Bolfarine, Helene** Equivariant prediction in finite populations. **91a:62020**
- (with Rodrigues, Josemar) Finite population prediction under a linear function superpopulation model: a Bayesian perspective. (Not in MR)
- Brown, Morton B.** see Glumoty, Phyllis A., (Not in MR)
- Čepar, Drago** (with Radali, Zoran) Some asymptotic behaviour of the bootstrap estimates on a finite sample. **91a:62021**
- Chakraborty, Tushar Kanti** Goal programming approach for designing single sampling attribute plans when sample size is fixed. (Not in MR)
- Chandhok, Premod K.** (with Han, Chien-Pai) On the efficiency of the ratio estimator under Midzuno scheme with measurement errors. (Not in MR)
- Chandrasekaran, R.** see Kahadi, Santosh N.; et al., (Not in MR)
- Chang, Hung Chü** (with Shieh, Shuen Chin) A stratification for multiple populations. (Not in MR)
- Chasnov, R.** see Mikhail, Nabih N., (Not in MR)
- Chattopadhyay, Saibal** see Sengupta, Samindranath, (Not in MR)
- Chaturvedi, D. K.** see Tripathi, T. P.; et al., (Not in MR)
- Chaube, Yogendra P.** (with Dwivedi, T. D.; Singh, Murari) On the exact variance of an unbiased product type estimator and its comparison with the sample mean. **91h:62014**
- Chaudhary, F. S.** (with Kumar, Anil) A sampling strategy for mean based on three-way stratification. **91h:62019**
- Chaudhuri, Arijit Ray** (with Adhikary, Arun Kumar) Variance estimation with randomized response. (Not in MR)
- see also Adhikary, Arun Kumar, **91d:62008** and Mukerjee, Rahul, **91m:62023**
- Cocchi, D.** (with Mouchart, Michel) Linear Bayes estimation in finite populations with a categorical auxiliary variable. **91k:62014**
- Dayal, Shambhu** see Kumar, Rajesh, (Not in MR)
- Deming, W. Edwards** ★ Sample design in business research. **91g:62010**
- Deshpande, M. N.** (with Prabhu-Ajgaonkar, S. G.) On comparison between SRSWR and SRSWOR. **91d:62028**
- Dharmadikari, Sudhakar** see Tankou, Victoire, **91e:62025**
- Drummer, Tom** Estimation of proportions and ratios from line transect data. (Not in MR)
- Dubey, Vyas** see Pandey, B. N., (Not in MR)
- Dwivedi, T. D.** see Chaube, Yogendra P.; et al., **91h:62014**
- Fleischer, Karlhelma** Stratified sampling using double samples. **91d:62010**
- Fong, Wai Kwan** A Bayesian approach to successive sampling with partial replacement of units on two occasions. **91m:62020**
- A subjective Bayesian response bias model. (Not in MR)
- Fountain, Robert L.** (with Pathak, Pramod K.) Systematic and nonrandom sampling in the presence of linear trends. **91a:62022**
- (with Pathak, Pramod K.) Systematic and nonrandom sampling in the presence of polynomial trends. **91h:62017**
- Futatsuya, Masao** (with Takahasi, Koiti) Extremal finite populations maximizing relative efficiencies in ranked set sampling. (Not in MR)
- Gabler, S.** (with Schweigkoffer, R.) The existence of sampling designs with preassigned inclusion probabilities. **91m:62021**
- Ghosh, Malay** (with Sinha, Bikas Kumar) On the consistency between model- and design-based estimators in survey sampling. **91m:62022**
- Gil, Maria Angeles** Asymptotic study of the sample mutual information in the stratified sampling. (Italian summary) **91a:62023**
- A note on stratification and gain in precision in estimating diversity from large samples. **91a:62024**
- Glumoty, Phyllis A.** (with Brown, Morton B.) Imputation procedures for categorical data: their effects on the goodness-of-fit chi-square statistic. (Not in MR)
- Govindaraju, K.** Certain observations on lot sensitive sampling plan. (Not in MR)
- Groeneveld, R. A.** see Arnold, Barry C., **91d:62009**
- Gupta, Pratap Chandra** (with Kothwala, N. H.) A study of second order approximation for some product type estimators. (Hindi summary) (Not in MR)
- see also Naik, V. D., (Not in MR)
- Han, Chien-Pai** see Chandhok, Premod K., (Not in MR)
- Hedayat, A. S.** (with Lin, Bing Ying; Stufken, J.) The construction of TIPS sampling designs through a method of emptying boxes. **91a:62025**
- Hwang, Synlan** (with Tsay, Ruey S.) On the asymptotic distribution of ratio and regression estimators. **91h:62021**
- Ivchenko, G. I.** (with Khonov, S. A.) An asymptotic estimate for stratified finite populations. **91e:62022**
- Jain, Nirmal** see Agrawal, M. C., (Not in MR)
- Kahadi, Santosh N.** (with Chandrasekaran, R.; Nair, K. P. K.) Optimal integration of several surveys. (Not in MR)
- Kataria, Poonam** (with Singh, Sukhminder) On the estimation of mean when population variance is known. (Hindi summary) (Not in MR)
- see also Singh, Sarjinder, (Not in MR)
- Khare, B. B.** see Srivastava, S. Rani; et al., (Not in MR)
- Khonor, S. A.** An estimation for a stratified finite population in a generalized sampling scheme. (Russian) (see **91h:62003**)
- Asymptotic estimation of parameters of a stratified population. (Russian) (see **91f:62002**)
- see also Ivchenko, G. I., **91e:62022**
- Klaassen, Chris A. J.** Random and fixed replacement sampling plans. **91h:62018**
- Kokic, P. N.** A Berry-Esseen bound for the ratio estimator. **91d:62011**
- Kothwala, N. H.** see Gupta, Pratap Chandra, (Not in MR)
- Kott, Phillip S.** Estimating the conditional variance of a design consistent regression estimator. **91h:62020**
- Kovar, J. G.** see Rao, J. N. K.; et al., **91k:62018**
- Krishnamoorthy, K.** (with Mitra, Sujit Kumar) Optimal integration of two or three PPS surveys with common sample size $n > 1$. **91c:62008**
- Kuk, Anthony Y. C.** Asking sensitive questions indirectly. (Not in MR)
- Kumar, Anil** see Chaudhary, F. S., **91h:62019**
- Kumar, Pranesh** On some properties of the ratio estimators under size stratification and estimation in uni-stage successive sampling. (Not in MR)
- (with Agarwal, Satish Kumar) A note on estimation of finite population total using unequal probability sampling schemes. (Italian summary) (Not in MR)
- Kumar, Rajesh** (with Dayal, Shambhu) Optimum allocation for ratio and regression estimators in sampling on two occasions. (Not in MR)
- Kundu, Debasree** see Sengupta, Samindranath, **91h:62023**
- Kothwala, K. S.** (with Singh, Housila Prasad) Class of almost unbiased ratio and product estimators in systematic sampling. (Hindi summary) (Not in MR)
- An alternative to ratio type estimators in systematic sampling. **91k:62015**
- see also Singh, Housila Prasad, **91a:62030**
- Lin, Bing Ying** see Hedayat, A. S.; et al., **91a:62025**
- Lai, Kung-Jong** Modified product estimators of finite population mean in finite sampling. (Not in MR)
- Maiti, Pulakesh** Some results on T_1 class of linear estimators. (Hindi summary) (Not in MR)
- (with Pal, Manoranjan) A unified approach to estimation of Lorenz-ratio from a finite population. **91k:62016**
- Mangat, N. S.** (with Singh, Ravindra) An alternative randomized response procedure. (Not in MR)
- Mantel, H. J.** see Rao, J. N. K.; et al., **91k:62018**
- McDonald, Lyman L.** see Muttlak, Hassen A., **91f:62021**
- Mikhail, Nabih N.** (with Chasnov, R.) Some sampling simplified using factorial moments. (Not in MR)
- Mimhas, B. S.** Validation of large scale sample survey data: case of NSS estimates of household consumption expenditure. (Not in MR)
- Validation of large scale sample survey data: case of NSS estimates of household consumption expenditure. (Not in MR)
- Mir, A. H.** see Tripathi, T. P.; et al., (Not in MR)
- Mishra, Swarna Lata** see Pal, Satyabrata, (Not in MR)
- Mitra, Sujit Kumar** On the method of overlapping maps in survey sampling. **91k:62017**
- see also Krishnamoorthy, K., **91c:62008**
- Mouchart, Michel** see Cocchi, D., **91k:62014**
- Mukerjee, Rahul** (with Sengupta, Samindranath) Optimal estimation of finite population total under a general correlated model. **91d:62012**
- (with Chaudhuri, Arijit Ray) Asymptotic optimality of double sampling plans employing generalized regression estimators. **91m:62023**
- Mukhopadhyay, Parimal** (with Bhattacharyya, Sikha) On estimating the variance of a finite population under a superpopulation model. **91a:62026**
- Muttlak, Hassen A.** (with McDonald, Lyman L.) Ranked set sampling with respect to concomitant variables and with size biased probability of selection. **91f:62021**
- Naik, V. D.** (with Gupta, Pratap Chandra) A general class of estimators for estimating population mean using auxiliary information. (Not in MR)
- Nair, K. P. K.** see Kahadi, Santosh N.; et al., (Not in MR)
- Nair, Vijayan N.** (with Wang, Paul C. C.) Maximum likelihood estimation under a successive sampling discovery model. **91a:62027**
- Nelson, Daniel B.** ARCH models as diffusion approximations. **91h:62019**
- Nigam, A. K.** see Rao, J. N. K., (Not in MR)
- O'Brien, George L.** (with Wong, Augustine) An inequality for random replacement sampling plans. (French summary) **91a:62028**
- Padmawar, V. R.** Optimal estimators under regression model. **91j:62013**
- Pal, Manoranjan** see Maiti, Pulakesh, **91h:62016**
- Pal, Satyabrata** (with Mishra, Swarna Lata) A note on transformation in sampling. (Hindi summary) (Not in MR)
- Pandey, B. N.** (with Dubey, Vyas) On almost unbiased ratio estimators. (Italian summary) (Not in MR)
- Pathak, Pramod K.** see Fountain, Robert L., **91a:62022** and **91h:62017**
- Peng, Cheng Jiang** see Yee, Rong Yan, (Not in MR)
- Pérez, Rigoberto** Study of unbiased estimators of some uncertainty measures. (Spanish. English summary) (Not in MR)
- Pervaz, Muhammad Khalid** Covariance matrix estimation in complex surveys. (Not in MR)
- Prabhu-Ajgaonkar, S. G.** see Deshpande, M. N., **91e:62020**
- Prasad, B.** Some improved ratio type estimators of population mean and ratio in finite population sample surveys. **91h:62021**
- (with Singh, Housila Prasad) Some improved ratio-type estimators of finite population variance in sample surveys. (Not in MR)
- Radali, Zoran** see Čepar, Drago, **91a:62021**

Rana, R. S. (with Singh, Ravindra) Note on systematic sampling with supplementary observations. (Not in MR)

Rao, J. N. K. (with Kovar, J. G.; Mantel, H. J.) On estimating distribution functions and quantiles from survey data using auxiliary information. 91k:62018

— (with Nigam, A. K.) Optimal controlled sampling designs. (Not in MR)

Rodrigues, Josemar The coordinate-free prediction in finite populations. 91m:62024

— Some results on restricted Bayes least squares predictors for finite populations. 91j:62014

— see also Bolfarine, Helena, (Not in MR)

Ruiz Espejo, M. Generalised unbiased estimation in finite populations. (Spanish) (Not in MR)

— An essay on inference criteria in finite populations. (Spanish) (Not in MR)

— (with Santos Peñas, J.) Intermediate sampling strategies. (Spanish. English summary) 91d:62013

Sadoghi-Alvandi, S. M. A note on the efficiency of proportional stratification. 91b:62022

Sahoo, L. N. (with Swain, A. K. P. C.) On two modified ratio estimators in two-phase sampling. (Italian summary) (Not in MR)

— see also Singh, Housila Prasad, 91c:62024

Santos Peñas, J. see Ruiz Espejo, M., 91d:62013

Schultz, D. M. Ordered random selection with probabilities proportional to size. (Not in MR)

Schweiggkoffer, R. see Gabler, S., 91m:62021

Sedransk, J. see Singh, Bahadur, 91c:62023

Sen, Pranab Kumar see Sinha, Bikas Kumar, 91i:62020

Sengupta, Samindranath (with Chattopadhyay, Saibal) A note on circular systematic sampling. (Not in MR)

— Optimality of a design-unbiased strategy for estimating a finite population variance. 91a:62029

— (with Kundu, Debasree) Estimation of finite population mean in randomized response surveys. 91b:62023

— see also Mukerjee, Rahul, 91d:62012

Shieh, Shuen Chin see Chang, Hung Chü, (Not in MR)

Singh, Bahadur (with Sedransk, J.) Variance estimation in stratified sampling when strata sample sizes are small. 91c:62023

Singh, Housila Prasad An improved class of estimators of population mean using auxiliary information. (Hindi summary) (Not in MR)

— (with Sahoo, L. N.) A class of almost unbiased estimators for population ratio and product. 91c:62024

— (with Kushwaha, K. S.) A class of almost unbiased dual to product estimators in sample survey. 91a:62030

— see also Kushwaha, K. S., (Not in MR) and Prasad, B., (Not in MR)

Singh, Murari see Chanbey, Yogendra P.; et al., 91b:62014

Singh, Padam (with Bathia, H. V. L.) Sampling schemes providing unbiased general regression estimators. (Hindi summary) (Not in MR)

Singh, Randhir A study on the role of interviewer in surveys. (Not in MR)

Singh, Ravindra see Bansal, Mohan L., (Not in MR); Mangat, N. S., (Not in MR); Rana, R. S., (Not in MR) and Bansal, Mohan L., (Not in MR)

Singh, Sarjinder (with Kataria, Poonam) An estimator of finite population variance. (Hindi summary) (Not in MR)

Singh, Sukhminder see Kataria, Poonam, (Not in MR)

Sinha, Bikas Kumar (with Sen, Pranab Kumar) On averaging over distinct units in sampling with replacement. 91b:62020

— see also Ghosh, Malay, 91m:62022

Sisodia, B. V. S. see Bisht, K. K. S., (Not in MR)

Srivastava, S. Rani (with Khare, B. B.; Srivastava, Siya Ram) A generalised chain ratio estimator for mean of finite population. (Not in MR)

Srivastava, Siya Ram see Srivastava, S. Rani; et al., (Not in MR)

Srivenkataramana, T. (with Tracy, Derrick S.) Two-phase sampling for selection with probability proportional to size in sample surveys. 91c:62009

Stenger, Horst Asymptotic analysis of minimax strategies in survey sampling. 91b:62024

Stufken, J. see Hedayat, A. S.; et al., 91c:62025

Swain, A. K. P. C. see Sahoo, L. N., (Not in MR)

Takahasi, Kōiti see Futatsuya, Masao, (Not in MR)

Tallis, G. M. A note on balanced cluster sampling. (Not in MR)

Tankoa, Victoire (with Dharmadikari, Sudhakar) Improvement of ratio-type estimators. 91c:62025

Tracy, Derrick S. see Srivenkataramana, T., 91c:62009

Tripathi, T. P. Estimation for domains in sampling on two occasions. 91b:62025

— (with Mir, A. H.; Chaturvedi, D. K.) Estimation of mean on second occasion using PPS sampling and multivariate information. (Not in MR)

Tsay, Ruey S. see Hwang, Synlan, 91c:62021

Tuteja, R. K. see Bahl, Shashi, (Not in MR)

Wang, Paul C. C. see Nair, Vijayan N., 91a:62027

Wang, Song Jia Bounded global self-adaptive predictions with peaks. (Chinese) (Not in MR)

Wong, Augustine see O'Brien, George L., 91a:62028

Wright, Tommy Probability proportional to size (xps) sampling using ranks. 91g:62011

Yoo, Roeng Yan (with Peng, Cheng Jiang) A sampling test method for deviations of the sum of a contrast population. (Chinese) (Not in MR)

Items with secondary classifications in 62D05

Becker, N. G. (with Heyde, C. C.) Estimating population size from multiple recapture experiments. 91k:62029

Bhattacharyya, Amit Kumar Sampling bias MSE and confidence intervals for some fertility measures under cluster sampling scheme. (Not in MR)

Brady, Henry E. Factor and ideal point analysis for interpersonally incomparable data. 91c:62277

Danaher, Peter J. A Markov chain model for magazine exposure. 91i:62109

D'Argenio, David Z. Incorporating prior parameter uncertainty in the design of sampling schedules for pharmacokinetic parameter estimation experiments. 91c:92032

Hedayat, A. S. The game of emptying boxes: theory and application. 91h:90150

Heyde, C. C. see Becker, N. G., 91k:62029

Horowitz, Joseph A uniform law of large numbers and empirical central limit theorem for limits of finite populations. 91i:60063

Kamps, U. Estimation based on equioverlapping samples. 91c:62023

Karakostas, K. X. Exact optimum sampling designs for autocorrelated finite populations. (Not in MR)

Kitagawa, Toshiro ★ Suisoku kateiron. (Japanese) [Sequential inference theory] 91g:62002

Koop, J. C. Systematic sampling of two-dimensional surfaces and related problems. (Not in MR)

Kramer, Morrey (with Starr, Norman) Optimal stopping in a size dependent search. 91m:62152

Leite, J. G. see Zacks, S.; et al., 91k:62085

Miao, Bai Qi (with Zhao, Lin Cheng) Nonuniform bounds of normal approximation for finite-population U-statistics. I. (Chinese summary) 91a:60067a

— (with Zhao, Lin Cheng) Nonuniform bounds of normal approximation for finite-population U-statistics. II. (Chinese summary) 91a:60067b

Pereira, Carlos Alberto de Bragança see Zacks, S.; et al., 91k:62085

Prádková, Zuzana Sampling from a finite set of random variables: the Berry-Esseen bound for the Studentized mean. 91j:60066

Sai, Shido (with Taguri, Masaaki) Optimum stratification based on a concomitant variable and its application to the current statistics of commerce. (Not in MR)

Starr, Norman see Kramer, Morrey, 91m:62152

Taguri, Masaaki see Sai, Shido, (Not in MR)

Yu, Qi Qing Admissibility of the empirical distribution function in the invariant problem. 91b:62015

Zacks, S. (with Pereira, Carlos Alberto de Bragança; Leite, J. G.) Bayes sequential estimation of the size of a finite population. 91k:62085

Zhao, Lin Cheng see Miao, Bai Qi, 91a:60067a and 91a:60067b

62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

Abd-El-Hakim, Nagi S. see El-Dab Ahmad, Khalaf, 91b:62028

Abu-Salih, M. S. see Khan, Abdul Hamid, (Not in MR)

Ahmed, Abdul-Hadi Nabih see Yehia, A. Y., (Not in MR)

Ahsanullah, M. Some characteristic properties of the exponential distribution. 91k:62019

— On characterizations of the uniform distribution based on functions of order statistics. (Not in MR)

— On characterizations of the normal distribution. 91c:62026

— Characterizations of the normal distribution by properties of linear statistics and chi-squared. 91f:62022

— Some characteristic properties of normal distribution. 91j:62015

Al-Hussaini, Essam K. A characterization of the Burr type XII distribution. (Not in MR)

Ali, M. Masoom see Beg, M. I., 91f:62023

Alzaid, Abdulhamid A. (with Rao, Calyampudi Radhakrishna; Shanbhag, D. N.) Solution of the integrated Cauchy functional equation on a half line using exchangeability. 91c:62027

— On the unimodality of mixtures. (Not in MR)

Antzoulakos, Demetris L. see Philippou, Andreas N.; et al., 91d:62015

Arnold, Barry C. see Shanmugam, Ramalingam, 91c:62038

Averous, Jean (with Meste, Michel) Location, skewness and tailweight in L_q sense: a coherent approach. 91c:62028

Balanda, Kevin P. (with MacGillivray, H. L.) Kurtosis and spread. 91h:62015

Balasubramanian, Krishnaswami see Beg, M. I., 91m:62025

Bar-Lev, Shaul K. (with Enis, Peter) On the construction of classes of variance stabilizing transformations. 91j:62016

Beg, G. J. see Qu, Yin Sheng; et al., 91g:62013

Beg, M. I. (with Ali, M. Masoom) Characterization of the exponential and Weibull distributions. 91f:62023

— (with Balasubramanian, Krishnaswami) Distributions determined by conditioning on a single order statistic. 91m:62025

— see also Khan, Abdul Hamid, 91b:62031

Behboodian, Javad Some characterization theorems on symmetry. 91i:62021

Berger, James O. see Fan, Tsai-Hung, 91f:62024

Bhattacharjee, Manish C. (with Sethuraman, Jayaram) Families of life distributions characterized by two moments. 91i:62022

Beczolich, Zoltán (with Székely, Gábor J.) When is a weighted average of ordered sample elements a maximum likelihood estimator of the location parameter? 91c:62029

Cacoullos, T. (with Papathanasiou, V.) Characterizations of distributions by variance bounds. 91c:62030

Castillo, Enrique (with Galambos, Janos) Conditional distributions and the bivariate normal distribution. 91a:62031

— (with Sarabia Alegria, José María) Bivariate distributions with second kind beta conditionals. 91k:62020

Ch'én, Li Su see Huang, Wên Chang, 91c:62011

Cheng, R. C. H. (with Iles, T. C.) Embedded models in three-parameter distributions and their estimation. 91c:62031

Chhikara, Raj S. see Deng, Lih-Yuan, 91k:62021

Cifarelli, Donato Michele (with Regazzini, Eugenio) On a general definition of concentration function. 91b:62026

Dallas, A. C. Some properties of record values coming from the geometric distribution. 91c:62010

Daniel, Edward J. Characterization of the special discrete distributions through infinite, noninfinite and finite divisibility. 91c:62032

Dasu, Tamraparni see Oakes, David, 91h:62018

Deng, Lih-Yuan (with Chhikara, Raj S.) On the characterization of the exponential distribution by the independence of its integer and fractional parts. 91k:62021

- Dimaki, Caterina (with Xekalaki, Evdokia) Identifiability of income distributions in the context of damage and generating models. 91m:62026
- Efron, Bradley (with Johnstone, Iain M.) Fisher's information in terms of the hazard rate. 91h:62027
- El-Dab Ahmad, Khalaf (with Abd-El-Hakim, Nagi S.) The identifiability of finite mixing of some noncentral distributions. 91h:62028
- Enis, Peter see Bar-Lev, Shaul K., 91j:62016
- Fagnola, Franco Une caractérisation des lois exponentielles et géométriques. (Italian summary) [A characterization of exponential and geometric distributions] 91i:62023
- Fan, Jian Qing (with Fang, Kai Tai) Maximum likelihood characterization of distributions. 91g:62012
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- Fang, Kai Tai see Fan, Jian Qing, 91g:62012 and Fang, Bi Qi, (91c:62006)
- Fuchs, Aimé (with Letta, Giorgio) Les lois géométrique et exponentielle comme solutions d'un problème de durée moyenne de vie. [Geometric and exponential distributions as solutions of an average-life-span problem] 91h:62016
- Galambos, Janos see Castillo, Enrique, 91a:62031
- Gather, U. (with Rauhut, Burkhard) The outlier behaviour of probability distributions. 91i:62024
- Genest, Christian (with Rivest, Louis-Paul) A characterization of Gumbel's family of extreme value distributions. 91h:62029
- Huang, Jin-sheng see Lin, Kuo Tung, 91h:62033
- Huang, Wen Chang (with Ch'en, Li Su) Note on a characterization of gamma distributions. 91c:62011
- Iles, T. C. see Cheng, R. C. H., 91c:62031
- Ish, Yoshiaki An application of the convolution inequality for the Fisher information. 91h:62030
- Johnson, Norman Lloyd² (with Kotz, Samuel) Characterization of an absolutely continuous distribution by the distribution of any order statistic. 91h:62025
- Johnstone, Iain M. see Efron, Bradley, 91h:62027
- Kagan, A. M. The Lukacs-King method applied to problems involving linear forms of independent random variables. (Italian summary) 91c:62033
- A multivariate analog of the Cramér theorem on components of the Gaussian distributions. 91f:62025
- (with Klebanov, L. B.) U -statistics in characterization problems. 91m:62027
- see also Zinger, A. A., 91c:62040
- Kagan, F. M. A refinement of Lukacs theorems. 91c:62034
- Khan, Abdul Hamid (with Beg, M. I.) Characterization of the Weibull distribution by conditional variance. 91h:62031
- (with Abu-Salih, M. S.) Characterizations of probability distributions by conditional expectation of order statistics. (Italian summary) (Not in MR)
- Klebanov, L. B. (with Neupokoeva, M. V.) Characterization of distributions by means of the property of mean values of order statistics. 91d:62014
- see also Kagan, A. M., 91m:62027
- Korwar, R. M. On a new system of discrete distributions and characterizations of several discrete distributions by equality of distributions. 91c:62012
- Kotz, Samuel see Johnson, Norman Lloyd², 91h:62025
- Kyriakoussis, A. Characterization of bivariate discrete distributions. 91f:62026
- Lau, Ka-Sing (with Prakasa Rao, B. L. S.) Characterization of the exponential distribution by the revelation transform. 91f:62026
- Letac, Gérard (with Mora, Marianne) Natural real exponential families with cubic variance functions. 91h:62032
- Letta, Giorgio see Fuchs, Aimé, 91h:62016
- Lin, Kuo Tung (with Huang, Jin-sheng) A note on the sequence of expectations of maxima and of record values. 91h:62033
- Characterizations of distributions via moments of order statistics: a survey and comparison of methods. 91m:62028
- see also Toe, Yeu-Hua, 91a:62036
- MacGillivray, H. L. see Balanda, Kevin P., 91h:62015
- Meste, Michel see Averous, Jean, 91c:62028
- Mora, Marianne see Letac, Gérard, 91h:62032
- Muñoz Pérez, J. (with Sanchez-Gomez, A.) A characterization of the distribution function: the dispersion function. 91h:62017
- Nagaraja, H. N. Some characterizations of continuous distributions based on regressions of adjacent order statistics and record values. 91c:62035
- (with Sen, Pali; Srivastava, Ramesh Chandra³) Some characterizations of geometric tail distributions based on record values. 91c:62036
- Neupokoeva, M. V. see Klebanov, L. B., 91d:62014
- Oakes, David (with Dasu, Tamraparni) A note on residual life. 91h:62018
- Ong, S. H. Mixture formulations of a bivariate negative binomial distribution with applications. 91h:62022
- Papathanasiou, V. Some characterizations of distributions based on order statistics. 91h:62019
- see also Cacoullos, T., 91c:62030
- Philippon, Andreas N. (with Tripsiannis, Gregory A.; Antzoulakos, Demetris L.) New Pólya and inverse Pólya distributions of order k . 91d:62015
- Pötschelberger, Klaus Updating of moments. 91f:62027
- Prakasa Rao, B. L. S. Characterization of probability measures by linear functions defined on a homogeneous Markov chain. 91c:62037
- see also Lan, Ka-Sing, 91i:62026
- Qu, Yin Sheng (with Beck, G. J.; Williams, G. W.) Pólya-Eggenberger distribution: parameter estimation and hypothesis tests. 91g:62013
- Rao, Calyampudi Radhakrishna (with Shanbhag, D. N.) Recent advances on the integrated Cauchy functional equation and related results in applied probability. 91a:62032
- (with Shanbhag, D. N.) Further extensions of the Choquet-Deny and Deny theorems with applications in characterization theory. 91a:62033
- see also Alzaid, Abdulhamid A.; et al., 91c:62027
- Rauhut, Burkhard Characterization of probability distribution by conditioned moments of spacings. (see 91f:60005)
- see also Gather, U., 91i:62024
- Regazzini, Eugenio see Cifarelli, Donato Michele, 91h:62026
- Rivest, Louis-Paul see Genest, Christian, 91h:62029
- Robert, Christian Generalized inverse normal distributions. (Not in MR)
- Roy, Dilip A characterization of Gumbel's bivariate exponential and Lindley and Singpurwalla's bivariate Lomax distributions. 91h:62020a
- Correction: "A characterization of Gumbel's bivariate exponential and Lindley and Singpurwalla's bivariate Lomax distributions". 91h:62020b
- Rudolfer, Stephan M. A Markov chain model of extrabinomial variation. 91f:62028
- Sanchez-Gomez, A. see Muñoz Pérez, J., 91h:62017
- Sander, Wolfgang A note on the exponential distribution. 91h:62027
- Sarabia Alegría, José María see Castillo, Enrique, 91h:62020
- Sen, Pali see Nagaraja, H. N.; et al., 91c:62036
- Sethuraman, Jayaram see Bhattacharjee, Manish C., 91c:62022
- Shah, B. K. On the generalization of t -distribution for nonidentically distributed variables and applications. 91a:62034
- Shanbhag, D. N. see Rao, Calyampudi Radhakrishna, 91a:62032; 91a:62033 and Alzaid, Abdulhamid A.; et al., 91c:62027
- Shanmugam, Ramalingam (with Arnold, Barry C.) Characterizations based on conditional distributions given the minimum value in the sample. 91h:62038
- Sibuya, Masaaki Log-concavity of Stirling numbers and unimodality of Stirling distributions. 91a:62035
- Srivastava, Ramesh Chandra³ see Nagaraja, H. N.; et al., 91c:62036
- Szekely, Gábor J. see Buczolic, Zoltán, 91c:62029
- Toe, Yeu-Hua (with Lin, Kuo Tung) Characterizations of uniform and exponential distributions. 91a:62036
- Tripsiannis, Gregory A. see Philippon, Andreas N.; et al., 91d:62015
- Viveros, R. An approximate normalizing power transformation for the F distribution. (Not in MR)
- Wesolowski, Jacek A regression characterization of the Poisson distribution. 91c:62039
- A constant regression characterization of the gamma law. 91h:62021
- Williams, G. W. see Qu, Yin Sheng; et al., 91g:62013
- Willmot, Gordon E. On the construction of a parameter orthogonal to the mean. 91f:62029
- Xekalaki, Evdokia see Dimaki, Caterina, 91m:62028
- Yehia, A. Y. (with Ahmed, Abdul-Hadi Nabih) Residual variance characterization of mixtures of exponential and geometric distributions. (Not in MR)
- Zinger, A. A. (with Kagan, A. M.) Condition of constancy of the regression for monomials of independent random variables. 91c:62040

Items with secondary classifications in 62E10

- Abd-El-Hakim, Nagi S. see Al-Hussaini, Essam K., 91c:62090
- Al-Hussaini, Essam K. (with Abd-El-Hakim, Nagi S.) Failure rate of the inverse Gaussian-Weibull mixture model. 91c:62090
- Al-Osh, M. A. see Alzaid, Abdulhamid A., 91f:60021
- Alzaid, Abdulhamid A. A weak quadrant dependence concept with applications. 91f:62106
- (with Al-Osh, M. A.) Some results on discrete α -monotonicity. 91f:60021
- Bagai, Isha see Deshpande, Jayant V.; et al., 91f:62159
- Bar-Lev, Shaul K. (with Plachky, Detlef) Boundedly complete families which are not complete. 91c:62007
- Block, Henry W. (with Fang, Zhao Ben) Setwise independence for some dependence structures. 91d:62081
- Castillo, Enrique (with Galambos, Janos) Bivariate distributions with Weibull conditionals. (Russian summary) 91f:62091
- Chari, Ravi On a connection between the noncentral χ^2 distribution and Bessel diffusions. 91j:60104
- Chen, Hong Jian (with Wu, Chuan Yi) Conditions for determining exponential families by variance functions. (Chinese) 91d:60032
- Chikuse, Yasuko The matrix angular central Gaussian distribution. 91h:62050
- Córnay, Vladimir Zero regression of linear statistic on another one and operator-semistable laws. 91c:60046
- Characterization of operator-semistable distributions. (Russian) 91h:60016
- Deshpande, Jayant V. (with Singh, Harshinder; Bagai, Isha; Jain, Kanchan) Some partial orders describing positive ageing. 91f:62159
- Dimitrov, B. (with Khalil, Z.) On a new characterization of the exponential distribution related to a queueing system with an unreliable server. 91j:60147
- Eichenauer-Herrmann, Jürgen (with Fieger, Werner) Minimax estimation in scale parameter families when the parameter interval is bounded. 91a:62018
- Fang, Zhao Ben see Block, Henry W., 91d:62081
- Feldman, G. M. Characterization of the Gaussian distribution on groups by the uniform distribution of linear statistics. (Russian) (see 91g:60003)
- * Арифметика вероятностных распределений и характеристические задачи на абелевых группах. (Russian) [The arithmetic of probability distributions and characterization problems on abelian groups] 91h:60011
- Fieger, Werner see Eichenauer-Herrmann, Jürgen, 91a:62018
- Galambos, Janos see Castillo, Enrique, 91f:62091
- Govone, José Silvio Stability for a theorem of Cramér and a theorem of Raikov. (Portuguese. English summary) 91g:60022
- Gupta, Pushpa Lata (with Gupta, Rameshwar D.) A bivariate random environmental stress model. 91h:62204
- Gupta, Rameshwar D. (with Richards, Donald St. P.) The Dirichlet distributions and polynomial regression. 91d:62067
- see also Gupta, Pushpa Lata, 91h:62204
- Hassenforder, C. Seules les affinités préservent le type de la loi gamma à paramètre entier. (English summary) [Only affine transformations preserve the type of the gamma distribution with integer parameter] 91m:60030

- Hitha, N. (with Unnikrishnan Nair, N.) Characterization of some discrete models by properties of residual life function. **91e:62256**
- Holgate, Philip The lognormal characteristic function. **91j:60029**
- Hoover, Douglas N. Tail fields of partially exchangeable arrays. **91a:60099**
- Hosking, J. R. M. L -moments: analysis and estimation of distributions using linear combinations of order statistics. **91b:62089**
- Hürtrmann, Werner On maximum likelihood estimation for count data models. **91e:62268**
- Jain, Kanchan see Deshpande, Jayant V.; et al., **91e:62159**
- Januškevičienė, O. One approach to the construction of stable estimation procedures. **91k:62035**
- Kagan, A. M. A generalized condition for identical distribution of random vectors in connection with the analytic theory of linear forms of independent random variables. **91d:60037**
- Khalil, Z. see Dimitrov, B., **91j:60147**
- Krishnaiah, Paruchuri R. see Nishih, Ryuei, **91a:62172**
- Küchler, Uwe (with Lauritzen, Steffen L.) Exponential families, extreme point models and minimal space-time invariant functions for stochastic processes with stationary and independent increments. **91b:62201**
- Kupka, Joseph (with Loo, Sonny) The hazard and vitality measures of ageing. **91a:62269**
- Lauritzen, Steffen L. see Küchler, Uwe, **91b:62201**
- Letac, Gérard (with Seshadri, Vanamamalai) The expectation of X^{-1} as a function of $E(X)$ for an exponential family on the positive line. **91e:60038**
- Liu, Kuo Tung Characterizations of uniform distributions and of exponential distributions. **91f:60023**
- Loo, Sonny see Kupka, Joseph, **91a:62269**
- Luschgy, Harald (with Mussmann, Dieter) A characterization of weakly dominated statistical experiments by compactness of the set of decision rules. **91b:62018**
- Marsaglia, George The $X + Y, X/Y$ characterization of the gamma distribution. **91a:60049**
- Marshall, Albert W. A bivariate uniform distribution. **91d:60033**
- Mukherjee, S. P. (with Roy, Dilip) Properties of classes of probability distributions based on the concept of reciprocal coordinate subtenant. **91e:62257**
- Muñoz Pérez, J. Dispersive ordering by the spread function. **91j:60023**
- Mussmann, Dieter see Luschgy, Harald, **91b:62018**
- Neupokoeva, M. V. Stability of the characterization properties of the geometric distribution. (Russian) (see **91g:60003**)
- Nikulin, V. N. On two metrics in application to problems on the stability of characterizations. **91j:60024**
- Nishih, Ryuei (with Krishnaiah, Paruchuri R.) On the moments of classical estimates of explanatory variables under a multivariate calibration model. **91a:62172**
- Plachky, Detlef A characterization of permutable functions with estimable mean value based on a finite number of observations. **91e:62063**
- see also Bar-Lev, Shaul K., **91e:62007**
- Ramachandran, B. On the equation $f(x) = \int_{-\infty}^{\infty} f(x+y) d\mu(y)$. **91b:45006**
- On the equation $f(x) = \int_{-\infty}^{\infty} f(x+y) d\mu(y)$ for $x \geq 0$. **91e:45011**
- Richards, Donald St. P. see Gupta, Rameshwar D., **91d:62067**
- Rohatgi, Vijay K. (with Székely, Gábor J.) Sharp inequalities between skewness and kurtosis. **91j:60025**
- Roy, Dilip see Mukherjee, S. P., **91e:62257**
- Seshadri, Vanamamalai see Letac, Gérard, **91e:60038**
- Singh, Harshinder see Deshpande, Jayant V.; et al., **91e:62159**
- Smith, Murray D. On the expectation of a ratio of quadratic forms in normal variables. **91a:62132**
- Szabłowski, Paweł J. Expansions of $E(X|Y + \varepsilon X)$ and their applications to the analysis of elliptically contoured measures. **91e:62137**
- Székely, Gábor J. see Rohatgi, Vijay K., **91j:60025**
- Titor, A. N. The components of maximum. **91a:60044**
- Unnikrishnan Nair, N. see Hitha, N., **91e:62256**
- Verducci, Joseph S. Minimum majorization decomposition. **91b:60024**
- Wesołowski, Jacek A characterization of the gamma process by conditional moments. **91a:60139**
- Witte, H.-J. Some characterizations of distributions based on the integrated Cauchy functional equation. **91g:60022**
- Wu, Chuan Yi see Chen, Hong Jian, **91d:60032**
- Wu, Zong Qi A necessary and sufficient condition for homogeneous linear functions and its application. (Chinese. English summary) (Not in MR)
- Zieliński, Wojciech A note on the Hsu problem. **91b:62149**
- 62E15 Exact distribution theory**
- Abdel-Samad, Ali I. see Ashour, Samir Kamel, (Not in MR)
- Adeyemi, Ezekiah O. see Ojo, Matthew O., (Not in MR)
- Ahsanullah, M. Record values of the Lomax distribution. (Not in MR)
- Aitchison, John (with Ho, C. H.) The multivariate Poisson-log normal distribution. **91a:62037**
- Al-Shboul, Qasim M. (with Khan, Abdul Hamid) Moments of order statistics from doubly truncated log-logistic distribution. (Not in MR)
- Ashour, Samir Kamel (with Abdel-Samad, Ali I.) On the computation of noncentral chi-square distribution function. (Not in MR)
- Audich, Sunil see Goyal, S. P., (Not in MR) and (Not in MR)
- Bagchi, S. B. (with Bagchi, Tapati) On compound power distributions. (Not in MR)
- Bagchi, Tapati see Bagchi, S. B., (Not in MR)
- Balakrishnan, Narayanaswamy Improving the Hartley-David-Gumbel bound for the mean of extreme order statistics. **91a:62038**
- (Barr, Alala) see Kotz, Samuel, **91e:62030**
- Bekker, A. see Roux, J. J. J.; et al., (Not in MR)
- Bowman, K. O. (with Shenton, L. R.) The approximate distribution of four moment statistics from type III distributions. (Not in MR)
- Cabuk, Serafettin (with Springer, Melvin D.) Distribution of the quotient of noncentral normal random variables. **91e:62028**
- Cartinshaw, Jack One-dimensional marginal density functions of a truncated multivariate normal density function. **91d:62016**
- Charalambides, Ch. A. Abel series distributions with applications to fluctuations of sample functions of stochastic processes. (Not in MR)
- On a generalized Eulerian distribution. (Not in MR)
- Chukwu, Walford I. E. (with Gupta, Devendra) On mixing generalized Poisson with generalized gamma distribution. (Italian summary) (Not in MR)
- Cifarelli, Donato Michele (with Regazzini, Eugenio) Distribution functions of means of a Dirichlet process. **91e:62013**
- Conou, P. C. Geeta distribution and its properties. **91k:62023**
- On some properties and applications of quasi-binomial distribution. (Not in MR)
- David, H. A. see Liu, Jingyu, **91j:62017**
- Dean, Angela M. (with Wolfe, Douglas A.) A note on exchangeability of random variables. **91f:62030**
- Dixit, U. J. see Sathe, Y. S., **91k:62025**
- Fan, Jian Qing Generalized noncentral t -, F -, and T^2 -distributions. **91e:62029**
- Farebrother, R. W. The cumulants of the logarithm of a gamma variable. **91e:62041**
- Feuerberger, Andrey On the empirical saddlepoint approximation. **91a:62039**
- Ghazal, G. A. Distribution of two-sample two-stage least squares estimator and its asymptotic expansion. (Not in MR)
- Goldstein, Larry Mark Poisson approximation and DNA sequence matching. (Not in MR)
- Goyal, S. P. (with Audich, Sunil) The distribution of the ratio of two random variables associated with the Fox's H -function. (Not in MR)
- (with Audich, Sunil) A general class of multivariate distributions involving Fox's H -functions. (Not in MR)
- Gupta, Devendra see Chukwu, Walford I. E., (Not in MR)
- Gupta, Pushpa Lata (with Tripathi, Ram C.) Effect of length-biased sampling on the modeling error. (Not in MR)
- Gupta, Ramesh C. see Tripathi, Ram C.; et al., **91b:62038**
- Ho, C. H. see Aitchison, John, **91a:62037**
- Huang, Mei-Ling Recurrence relations for the R -distribution. (Not in MR)
- Iyer, Hari K. (with Vecchia, Dominic F.) Exact moments of the symmetric cubic assignment statistic. **91b:62034**
- Johnson, Norman Lloyd² see Kotz, Samuel, **91e:62030**
- Jones, Michael C. The relationship between moments of truncated and original distributions plus some other simple structural properties of weighted distributions. **91d:62017**
- Kallenberg, Wilbert C. M. Inequalities for noncentral chi-square distributions. **91m:62029**
- Khan, Abdul Hamid (with Khan, R. U.) Relations among moments of order statistics in samples from doubly truncated Laplace and exponential distributions. (Not in MR)
- see also Al-Shboul, Qasim M., (Not in MR)
- Khan, R. U. see Khan, Abdul Hamid, (Not in MR)
- Khattree, Ravindra (with Yin, Yong Quan) A short note on the variance of the truncated distribution with an application. (Hindi summary) (Not in MR)
- Kocherlakota, Kathleen see Kocherlakota, Subrahmaniam, (Not in MR)
- Kocherlakota, Subrahmaniam (with Kocherlakota, Kathleen) The bivariate logarithmic series distribution. (Not in MR)
- Kong, Fanhui see Levin, Bruce, **91a:62040**
- Kotz, Samuel (with Johnson, Norman Lloyd²) Some comments on a paper by Aiala Barr: "A multivariate model for discrete data sets" [Comm. Statist. Theory Methods **18** (1989), no. 2, 445–459; MR 90g:62031]. **91e:62030**
- Kumbhat, R. K. see Saxena, Ram Kishore; et al., (Not in MR)
- Levin, Bruce (with Kong, Fanhui) Bartlett's bias correction to the profile score function is a saddlepoint correction. **91a:62040**
- Liu, Jin Tian A simpler logistic approximation to the normal tail probability and its inverse. (Not in MR)
- Lingappaiah, G. R. Generalised Dirichlet-type distributions. (Not in MR)
- Lagrange-negative binomial distribution in its simple and weighted forms. (Not in MR)
- On some generalizations of the Poisson distribution. **91a:62041**
- Stepwise generalized Poisson-type distributions. **91b:62035**
- Liu, Jingyu (with David, H. A.) Quantiles of sums and expected values of ordered sums. **91j:62017**
- Li, Shu² The approximate distribution of Nair test statistics for detecting outliers in a normal sample. (Chinese) (Not in MR)
- van der Merwe, Cay A. see Nel, D. G.; et al., **91e:62031** and Roux, J. J. J.; et al., (Not in MR)
- Mishra, Amarendra (with Singh, Shreekanth) A new generalisation of geometric series distribution. (Not in MR)
- Some new generalised discrete multivariate distributions based on predetermined strategy. (Not in MR)
- Moser, Barry K. see Nel, D. G.; et al., **91e:62031**
- Nel, D. G. (with van der Merwe, Cay A.; Moser, Barry K.) The exact distributions of the univariate and multivariate Behrens-Fisher statistics with a comparison of several solutions in the univariate case. **91e:62031**
- Norberg, Ragnar A class of conjugate hierarchical priors for gammoid likelihoods. **91k:62024**
- Ojo, Matthew O. (with Adeyemi, Ezekiah O.) On the convolution of random variables from the generalized logistic distribution. (Italian summary) (Not in MR)
- Panaretos, J. see Psarakis, S., **91j:62018**
- Patil, G. P. (with Taillie, C.) Probing encountered data, meta analysis and weighted distribution methods. (see **91i:62004**)
- Patil, Sargunda Anna (with Raghunandan, K.) Compound Hermite and stuttering Poisson distributions. (Not in MR)
- Payton, M. E. (with Young, L. J.; Young, Jerry H.) Bounds for the difference between median and mean of beta and negative binomial distributions. **91e:62032**
- Porteous, B. T. Stochastic inequalities relating a class of log-likelihood ratio statistics to their asymptotic χ^2 distribution. **91e:62031**
- Provost, Serge B. The distribution function of a statistic for testing the equality of scale parameters in two gamma populations. **91a:62042**
- On the distribution of the ratio of powers of sums of gamma random variables. (Not in MR)
- On sums of independent gamma random variables. **91m:62030**

- Pasakis, S. (with Panaretos, J.) The folded t distribution. **91j:62018**
- Raghuvaran, K. see Patil, Sargunda Anna. (Not in MR)
- Ram, Chena see Saxena, Ram Kishore; et al., (Not in MR)
- Rani, Sarita see Saran, Jagdish. **91b:62036**
- Rathie, Narraina The exact distribution of the quotient of independent Erlang variates. (Not in MR)
- Rathie, Pushpa N. Generalized hypergeometric functions and exact distributions of test statistics. **91c:62014**
- Regazzini, Eugenio see Cifarelli, Donato Michele. **91c:62013**
- Robert, Christian Modified Bessel functions and their applications in probability and statistics. **91g:62014**
- Roux, J. J. J. (with Bekker, A.; van der Merwe, Cay A.) On the unconditional lognormal distribution. (Afrikaans. English summary) (Not in MR)
- le Roux, N. J. see Steel, S. J., **91a:62043**
- Rust, P. F. see Volt, Eberhard O., (Not in MR)
- Saran, Jagdish (with Rani, Sarita) Generalized random walk and distributions of some rank order statistics. **91b:62036**
- Sathe, Y. S. (with Dixit, U. J.) On a recurrence relation for order statistics. **91k:62025**
- Saxena, Ram Kishore (with Ram, Chena; Kumbhat, R. K.) Applications of H -function in the distributions of random variables with random parameters. (Not in MR)
- Applications of special functions to probability distributions. **91f:62032**
- Sen, Pranab Kumar The mean-median-mode inequality and noncentral chi square distributions. **91j:62019**
- Shannugam, Ramalingam Asymptotic homogeneity tests for mean exponential family distributions. **91b:62037**
- Shenton, L. R. see Bowman, K. O., (Not in MR)
- Singh, Karan P. The cumulants and an exact expression of generalized logistic distribution. (Not in MR)
- Singh, Murari (with Singh, Rajendra P.) Approximation of first two moments and sampling distribution of Gini's coefficient. (Hindi summary) (Not in MR)
- Singh, Netra Pal¹ Bivariate extremes. (Not in MR)
- Singh, Rajendra P. see Singh, Murari. (Not in MR)
- Singh, Shreekanth see Mishra, Anarendra, (Not in MR)
- Sobel, Milton (with Wells, Martin T.) Dirichlet integrals and moments of gamma distribution order statistics. **91c:62042**
- Springer, Melvin D. see Cabuk, Serafettin. **91i:62028**
- Steel, S. J. (with le Roux, N. J.) A class of compound distributions of the reparameterised bivariate gamma extension. **91a:62043**
- Stefanski, Leonard A. A normal scale mixture representation of the logistic distribution. (Not in MR)
- Taillie, C. see Patil, G. P., **(91b:62004)**
- Todorovic, P. An extremal problem arising in soil erosion modeling. **91b:62022**
- Tripathi, Ram C. (with Gupta, Ramesh C.; White, Thomas J.) Some generalizations of the geometric distribution. **91b:62038**
- see also Gupta, Pushpa Lata, (Not in MR)
- Van Assche, Walter A random variable uniformly distributed between two independent random variables. **91b:62039**
- Vecchia, Dominic F. see Iyer, Hari K., **91b:62034**
- Volt, Eberhard O. (with Rust, P. F.) Evaluation of the noncentral t distribution with S -systems. (German summary) (Not in MR)
- Wells, Martin T. see Sobel, Milton. **91c:62042**
- White, Thomas J. see Tripathi, Ram C.; et al., **91b:62038**
- Wichura, Michael J. A note on Das's approximation to Mills's ratio. **91f:62033**
- Wolfe, Douglas A. see Dean, Angela M., **91f:62030**
- Xu, Jian Lun Inverse Dirichlet distribution and its applications [Acta Math. Appl. Sinica **10** (1987), no. 1, 91–100; MR **88d:62034**]. (see **91c:62006**)
- Yang, Sheng Some methods for proving that the statistic $\sum_{i=1}^n (x_i - \bar{x})^2$ has a χ^2 -distribution. (Chinese. English summary) (Not in MR)
- Yeh, Hsiao Chen Some bivariate Pareto distributions generated by geometric maximization procedures. (Not in MR)
- Yin, Yong Quan see Khattree, Ravindra, (Not in MR)
- Young, Jerry H. see Payton, M. E.; et al., **91b:62032**
- Young, L. J. see Payton, M. E.; et al., **91i:62032**
- Items with secondary classifications in 62E15
- Ahmad, S. Hasanuddin A bivariate distribution with Weibull margins. (Not in MR)
- Ahmed, S. E. see Balakrishnan, Narayanaswamy; et al., **91c:62127**
- Antzoulakos, Demetris L. see Philippou, Andreas N.; et al., **91f:62094**
- Arnold, Barry C. see Shannugam, Ramalingam. **91c:62038**
- Asmussen, Søren Exponential families generated by phase-type distributions and other Markov lifetimes. **91c:62020**
- Balakrishnan, Narayanaswamy (with Malik, Henrick J.; Ahmed, S. E.) Recurrence relations and identities for moments of order statistics. II. Specific continuous distributions. **91c:62127**
- Bapat, R. B. Permanents in probability and statistics. **91d:60031**
- Buckland, Stephen T. see Garthwaite, Paul H., (Not in MR)
- Chikuse, Yasuko Distributions of orientations on Stiefel manifolds. **91b:62049**
- Chou, Youn-Min (with Owen, Donald B.) On the distributions of the estimated process capability indices. **91a:62276**
- Cifarelli, Donato Michele (with Regazzini, Eugenio) On a general definition of concentration function. **91b:62026**
- Consul, P. C. see Kamoye, Kiya Felix. **91c:60135**
- Deng, Wei Cai see Teng, Cheng Ye; et al., **91c:62138**
- Dutta, S. K. see Nandi, S. B., (Not in MR)
- Fang, Hong Bin see Teng, Cheng Ye; et al., **91c:62138**
- Flury, Bernhard Principal points. **91a:62126**
- Garthwaite, Paul H. (with Buckland, Stephen T.) Analysis of a multiple-recapture census by computing conditional probabilities. (French summary) (Not in MR)
- Ghazal, G. A. On the distribution of test criterion for testing equality of regressions. (Not in MR)
- Hamouda, K. A. I. see Yehia, A. Y., (Not in MR)
- ul Haq, Masood Comparison of mid-range with median and arithmetic mean in logistic distribution. (Not in MR)
- van Heerwaarden, A. E. see Kaas, R., **91j:62150**
- Hsieh, H. K. Inferences on the coefficient of variation of an inverse Gaussian distribution. **91c:62040**
- Jammalamadaka, S. Rao (with Wells, Martin T.) A test of goodness-of-fit based on extreme spacings with some efficiency comparisons. **91a:62120**
- Jevremović, Vesna A note on mixed exponential distribution with negative weights. **91m:62161**
- Joe, Harry Families of min-stable multivariate exponential and multivariate extreme value distributions. **91c:62051**
- Joshi, Suneeta M. see Sathe, Y. S.; et al., (Not in MR)
- Kaas, R. (with van Heerwaarden, A. E.) Ordering of risks and ruin probabilities. **91j:62150**
- Kamoye, Kiya Felix (with Consul, P. C.) A stochastic urn model for the generalized negative binomial distribution. **91c:60135**
- Ling, K. D. On geometric distributions of order (k_1, \dots, k_m) . **91c:60030**
- Malik, Henrick J. see Balakrishnan, Narayanaswamy; et al., **91c:62127**
- McNichols, D. T. The exact solution to the MLE of a decreasing density based on arbitrarily right censored data. **91c:62095**
- Nabar, S. P. see Sathe, Y. S.; et al., (Not in MR)
- Nandi, S. B. (with Dutta, S. K.) Some developments in the generalized Bell distribution. (Not in MR)
- Nygård, Fredrik (with Sandström, Arne) The weighted mean difference. (Italian summary) **91a:62297**
- Ong, S. H. Mixture formulations of a bivariate negative binomial distribution with applications. **91k:62022**
- Owen, Donald B. see Chou, Youn-Min. **91a:62276**
- Panaretos, J. Some properties and applications of the stuttering generalized Waring distribution. **91f:60018**
- Pázmán, Andrej Almost exact distributions of estimators. I. Low-dimensional nonlinear regression. **91m:62116**
- Philippou, Andreas N. (with Antzoulakos, Demetris L.; Tripsiannis, Gregory A.) Multivariate distributions of order k . II. **91f:62094**
- Pillai, R. N. On Mittag-Leffler functions and related distributions. **91c:60040**
- Ramalingam, T. Symbolic computing the exact distributions of L -statistics from a uniform distribution. **91a:62121**
- Rathie, Narraina On the exact distribution of Pearson and Wilks likelihood test statistic. II. **91a:62131**
- Regazzini, Eugenio see Cifarelli, Donato Michele. **91b:62026**
- Rego, Vernon see Szpankowski, Wojciech. **91b:62091**
- Robert, Christian On some accurate bounds for the quantiles of a noncentral chi squared distribution. **91b:62023**
- Sandström, Arne see Nygård, Fredrik. **91a:62297**
- Sathe, Y. S. (with Joshi, Suneeta M.; Nabar, S. P.) Bounds for circular error probabilities. (Not in MR)
- Schwarz, Wolfgang see Vorberg, Dirk, (Not in MR)
- Shannugam, Ramalingam (with Arnold, Barry C.) Characterizations based on conditional distributions given the minimum value in the sample. **91c:62038**
- Skovgaard, Ib M. On the density of minimum contrast estimators. **91c:62136**
- Szpankowski, Wojciech (with Rego, Vernon) Yet another application of a binomial recurrence. Order statistics. (German summary) **91b:62091**
- Targhetta, M. Luisa On a family of indeterminate distributions. **91f:60027**
- Teng, Cheng Ye (with Fang, Hong Bin; Deng, Wei Cai) The generalized noncentral Wishart distribution. (Chinese summary) **91c:62138**
- Tripsiannis, Gregory A. see Philippou, Andreas N.; et al., **91f:62094**
- Vaduvu, L. On the probability distribution of the values of a distribution density. (French and Russian summaries) (Not in MR)
- Vorberg, Dirk (with Schwarz, Wolfgang) Rasch-representable reaction time distributions. (Not in MR)
- Wells, Martin T. see Jammalamadaka, S. Rao. **91a:62120**
- Yehia, A. Y. (with Hamouda, K. A. I.) Factorial study of a continuous probability product measure. (Arabic summary) (Not in MR)
- Zhang, Hong Qing¹ The distribution of the squared sum of the independent Cauchy variables. **91g:62043**

62E17 Approximations to distributions (nonasymptotic)

- Bagchi, Parthasarathy see Basak, Prasanta. **91j:62020**
- Basak, Prasanta (with Bagchi, Parthasarathy) Application of Laplace approximation to record values. **91j:62020**
- Booth, James G. (with Butler, Ronald W.) Randomization distributions and saddlepoint approximations in generalized linear models. **91m:62031**
- Butler, Ronald W. see Booth, James G., **91m:62031**
- DiCiccio, Thomas J. (with Field, Christopher A.; Fraser, D. A. S.) Approximations of marginal tail probabilities and inference for scalar parameters. **91k:62026**
- Field, Christopher A. see DiCiccio, Thomas J.; et al., **91k:62026**
- Fraser, D. A. S. see DiCiccio, Thomas J.; et al., **91k:62026**
- Robert, Christian On some accurate bounds for the quantiles of a noncentral chi squared distribution. **91b:62023**

Items with secondary classifications in 62E17

- Araújo, Mátyás Asymptotic inference for discrete vector AR processes. **91j:62125**
- Kallenberg, Wilbert C. M. Inequalities for noncentral chi-square distributions. **91m:62029**

62E20 Asymptotic distribution theory

- Aki, Sigeo (with Kashiwagi, Nobuhisa) Asymptotic properties of some goodness-of-fit tests based on the L^1 -norm. **91d:62018**
- Ali, Emad-Eldin A. A. Normalized spacings and goodness-of-fit tests. (Not in MR)

- Arcones, Miguel A. The bootstrap of the mean with arbitrary bootstrap sample size. (French summary) 91d:62019
- Arora, Sanjay (with Julka, A. A.; Bagai, O. P.) Testing the significance related to Gini ratio, nonparametric test statistics. 91h:62024
- Azharov, T. A. see Tserenbat, O. (Not in MR)
- Bagai, O. P. see Arora, Sanjay; et al., 91h:62024
- Basawa, I. V. (with Mallik, Ashim K.; McCormick, William P.; Taylor, Robert Lee) Bootstrapping explosive autoregressive processes. 91b:62040
- Boente, Graciela (with Fraiman, Ricardo) Robust nonparametric regression estimation. 91d:62020
- Burovnikov, V. P. Functional limit theorems for additive spacing and frequency statistics. (Russian) (see 91b:60003)
- Chaubey, Yogendra P. Edgeworth expansions with mixtures and applications. (Not in MR)
- Chen, Jia Xia Asymptotic distribution of sample covariance sequences in linear processes. (Chinese. English summary) 91h:62025
- Chitashvili, R. Ya. see Khmaladze, E. V., 91m:62032
- Cörgő, Sándor (with Mason, David M.) Bootstrapping empirical functions. 91a:62044
- Dekkers, Arnold L. M. (with Einmahl, John H. J.; de Haan, Laurens) A moment estimator for the index of an extreme-value distribution. 91b:62033
- Einmahl, John H. J. see Dekkers, Arnold L. M.; et al., 91b:62033
- Falk, Michael Weak convergence of the remainder term in the Bahadur representation of extreme quantiles. 91e:62043
- Fraiman, Ricardo see Boente, Graciela, 91d:62020
- Fraser, D. A. S. Tail probabilities from observed likelihoods. 91e:62044
- Frydenberg, Morten (with Jensen, Jens Ledet) Is the "improved likelihood ratio statistic" really improved in the discrete case? 91a:62045
- Fu, James C. (with Leu, C. M.; Peng, C. Y.) A numerical comparison of normal and large deviation approximation for tail probabilities. (Not in MR)
- Fujikoshi, Yasumori Error bounds for asymptotic expansions of the maximums of the multivariate t - and F -variables with common denominator. 91b:62041
- Gideon, Rudy A. (with Prentice, Michael J.; Pyke, Ronald) The limiting distribution of the rank correlation coefficient R_p . 91b:62034
- Girko, V. L. (with Stepankno, I. V.) An estimate for the Stieltjes transform of spectral functions of singular eigenvalues. 91j:62021
- Gregory, Gavin G. Generalized Hodges-Lehmann estimators for the analysis of variance. 91f:62034
- de Haan, Laurens see Dekkers, Arnold L. M.; et al., 91b:62033
- Höpfner, Reinhard (with Jacod, Jean; Ladelli, Lucia) Local asymptotic normality and mixed normality for Markov statistical models. 91b:62035
- Jacod, Jean see Höpfner, Reinhard; et al., 91b:62035
- Jensen, Jens Ledet see Frydenberg, Morten, 91a:62045
- Julka, A. A. see Arora, Sanjay; et al., 91h:62024
- Kadane, Joseph B. see Tierney, Luke; et al., 91c:62015
- Karablis, A. (with Slisoriaitienė, R.) Approximation of the density of the distribution of sums of independent random variables. 91j:62022
- Kashiwagi, Nobuhisa see Aki, Sigeo, 91d:62018
- Kass, Robert E. see Tierney, Luke; et al., 91c:62015
- Khmaladze, E. V. (with Chitashvili, R. Ya.) Statistical analysis of a large number of rare events and related problems. (Russian) 91m:62032
- Knight, Keith Limit theory for autoregressive-parameter estimates in an infinite-variance random walk. (French summary) 91b:62042
- Kolassa, John E. (with McCullagh, Peter) Edgeworth series for lattice distributions. 91f:62036
- Kuang, Hong Hai (with Yuan, Zhen Dong) Remarks on the asymptotic normality of least squares estimator for system identification. (Chinese summary) 91h:62026
- Kudlaev, E. M. Conditions for the asymptotic normality of decomposable statistics with contiguous alternatives. (Russian) (see 91b:60003)
- Ladelli, Lucia see Höpfner, Reinhard; et al., 91b:62035
- Leu, C. M. see Fu, James C.; et al., (Not in MR)
- Mallik, Ashim K. see Basawa, I. V.; et al., 91b:62040
- Mammen, Enno Asymptotics with increasing dimension for robust regression with applications to the bootstrap. 91a:62046
- Martin, Michael A. On using the jackknife to estimate quantile variance. (French summary) 91f:62035
- Mason, David M. see Cörgő, Sándor, 91a:62044
- McCormick, William P. see Basawa, I. V.; et al., 91b:62040
- McCullagh, Peter see Kolassa, John E., 91f:62036
- Nikabade, A. M. Innovation fields for vector random variables against general alternatives. (Russian. English and Georgian summaries) (Not in MR)
- Nikulin, M. S. A variant of the generalized omega-square statistic. (Russian) 91f:62036
- Peng, C. Y. see Fu, James C.; et al., (Not in MR)
- Prentice, Michael J. see Gideon, Rudy A.; et al., 91b:62034
- Protasov, A. M. see Vasilev, A. A., (91b:60003)
- Pyke, Ronald see Gideon, Rudy A.; et al., 91b:62034
- Qian, Wei A note on asymptotic inference for an asymmetric Ising model around a torus. 91g:62015
- Ross, William H. The expectation of the likelihood ratio criterion. (French summary) 91g:62016
- Schäbe, Hendrik Reihenentwicklung von Verteilungen in Laguerre-Polynomen. [Series expansion of distributions in Laguerre polynomials] (Not in MR)
- Seoh, Mansup An elementary proof of CLT for signed rank statistics with regression constants under hypothesis of symmetry. 91m:62033
- Slisoriaitienė, R. see Karablis, A., 91j:62022
- Solodovnikov, Yu. V. Direct and inverse problems in the nonparametric statistics of queueing systems. 91h:62027
- Stepankno, I. V. see Girko, V. L., 91j:62021
- Takemura, Akimichi (with Takeuchi, Kei) Some results on univariate and multivariate Cornish-Fisher expansion: algebraic properties and validity. 91e:62045
- Takeuchi, Kei see Takemura, Akimichi, 91e:62045
- Taraskin, A. F. Stable limit theorems in the asymptotic behavior of the likelihood ratio. (Russian) (see 91g:60003)
- Taylor, Robert Lee see Basawa, I. V.; et al., 91b:62040
- Tierney, Luke (with Kass, Robert E.; Kadane, Joseph B.) Approximate marginal densities of nonlinear functions. 91c:62015
- Tserenbat, O. (with Azharov, T. A.) An estimate for the rate of convergence of distributions of a modified chi-squared statistic for testing composite hypotheses. (Russian) (Not in MR)
- Vasilev, A. A. (with Protasov, A. M.) Distribution of linear decomposable statistics. (Russian) (see 91b:60003)
- Veraverbeke, Noël Large sample properties for generalizations of the trimmed mean. (see 91j:60004)
- Windmeijer, F. A. G. The asymptotic distribution of the sum of weighted squared residuals in binary choice models. 91b:62027
- Wu, Tzee-Jian A note on the L_p nonuniform rates of convergence to normality for signed linear rank statistics. 91h:62028
- L_p nonuniform bounds for asymptotic normality of linear rank statistics. 91g:62017
- Yuan, Zhen Dong see Kuang, Hong Hai, 91b:62026
- Zitikis, Rikardas Asymptotic expansions for derivatives of the distribution function of the Anderson-Darling statistic. (Russian. English and Lithuanian summaries) 91a:62047
- Items with secondary classifications in 62E20
- Aldous, D. (with Theodorescu, R.) On the strong uniform consistency of a new kernel density estimator. 91a:62090
- Aerts, Marc (with Callaert, H.) The accuracy of the normal approximation for U -statistics with a random summation index converging to a random variable. 91a:60056
- (with Geertsema, Jan C.) Bounded length confidence intervals in nonparametric regression. 91m:62146
- Aleksevičienė, Aldona Large deviations for linear combinations of order statistics. (Russian. English and Lithuanian summaries) 91e:60087
- Al-Mahmed, M. (with Hamdy, H. I.) Sequential estimation of linear models in three stages. 91b:62104
- Aly, Emad-Eldin A. A simple test for dispersive ordering. 91e:62110
- Amemiya, Yasuo A note on the limiting distribution of certain characteristic roots. 91e:62133
- Anderson, T. W. The asymptotic distribution of characteristic roots and vectors in multivariate components of variance. 91e:62134
- Angus, John E. Application of extreme value theory to the BEC family of distributions. 91a:62124
- Ara, Glinish (with Jammalamadaka, S. Rao; Zhou, Xian) Limit distribution of spacings statistics when the sample size is random. 91e:62126
- Arellano, Manuel (with Sargan, J. D.) Imhof approximations to econometric estimators. 91j:62155
- Arratia, Richard (with Waterman, Michael S.) The Erdős-Rényi strong law for pattern matching with a given proportion of mismatches. 91c:60031
- Babbal, Beate Invariance principles for U -statistics and von Mises functionals. 91a:60086
- Babu, Guttu Jagesh Applications of Edgeworth expansions to bootstrap—a review. 91m:62076
- Balanova, E. V. Asymptotic expansion of the error probability of the Bayes classification rule. (Russian) (see 91j:60002)
- Baringhaus, L. (with Henze, N.) A test for uniformity with unknown limits based on D'Agostino's D . 91f:62087
- Barnard, Ole E. (with Cox, D. R.) ★ Asymptotic techniques for use in statistics. 91h:62003
- Basu, A. K. (with Sen Roy, S.) On rates of convergence in the central limit theorem for parameter estimation in general autoregressive model. 91j:62127
- Bedrick, Edward J. On the large sample distributions of modified sample biserial correlation coefficients. 91j:62066
- Behnen, Konrad Rank processes and tied observations. 91e:62112
- Berilant, Jan (with Einmahl, John H. J.) Bahadur-Kiefer theorems for the product-limit process. 91k:60027
- Běláček, Jaromír Asymptotic normality of k th order jackknife. 91b:62053
- Bhattacharya, P. K. (with Gangopadhyay, Ashis K.) Kernel and nearest-neighbor estimation of a conditional quantile. 91e:62078
- Bhavsar, C. D. see Khatri, C. G., 91c:62052
- Blacher, René Loi asymptotique des estimateurs des moindres carrés en régression linéaire. (English summary) [Asymptotic distribution of least-squares estimators in linear regression] 91a:62158
- Borovikov, V. P. On the asymptotic theory of decomposable statistics based on frequencies. (Russian) 91f:60045
- Borovskikh, Yu. V. see Korolyuk, V. S., 91e:60071
- Browne, M. W. see Shapiro, Alexander, 91f:62104
- Bure, V. M. A criterion for randomness, based on sign differences for time series with a finite set of admissible values of the variable. (Russian) 91g:62031
- Bykov, S. I. Asymptotic normality of randomized decomposable statistics in a nonregular multinomial scheme. (Russian) (see 91b:60003)
- (with Ivanov, V. A.) Conditions for the asymptotic normality of multidimensional randomized decomposable statistics. 91e:60059
- Cal, Zang Wu Rates of strong convergence of density estimators for dependent random variables. (Chinese. English summary) 91j:62042
- Callaert, H. see Aerts, Marc, 91a:60056
- Carbon, Michel Sur la convergence uniforme presque complète de quelques paramètres fonctionnels dans le cadre de processus multivariés fortement mélangés et non nécessairement bornés. (English summary) [On the almost complete uniform convergence of some functional parameters of strongly mixing multivariate and not necessarily bounded processes] 91b:62194
- Chan, Ngai Hang Asymptotic inference for unstable autoregressive time series with drifts. 91h:62172
- Chang, Myron N. Weak convergence of a self-consistent estimator of the survival function with doubly censored data. 91b:62068

- Chen, Xi Ru. Large sample statistics in China—a review of some recent contributions. 91c:62003
- Cheng, Kuang Fu. *see* Cheng, Philip E. 91b:62069
- Cheng, Philip E. Nonparametric estimation of survival curve under dependent censorship. 91f:62067
- (with Cheng, Kuang Fu) Asymptotic normality for robust R -estimators of regression function. 91b:62069
- Cheng, R. C. H. (with Stephens, M. A.) A goodness-of-fit test using Moran's statistic with estimated parameters. 91a:62074
- Chesher, Andrew (with Spady, Richard) Asymptotic expansions of the information matrix test statistic. (Not in MR)
- Cox, D. R. *see* Barndorff-Nielsen, Ole E. 91b:62003
- Csörgő, Sándor Limit theorems for sums of order statistics. 91f:60047
- Cutler, Colleen D. (with Dawson, Donald A.) Nearest-neighbor analysis of a family of fractal distributions. 91d:60051
- Ćwik, J. (with Miśkiewicz, Jan) Estimating density ratio with application to discriminant analysis. 91a:62101
- Danišcheva, O. K. Approximation of the power of the ω^2 -test for a composite parametric hypothesis. 91b:62045
- Dasgupta, Ratan Some further results on nonuniform rates of convergence to normality. 91f:60036
- Davies, P. Laurie The asymptotics of S -estimators in the linear regression model. 91m:62118
- Davis, A. W. Distribution theory for some tests of independence of seemingly unrelated regressions. 91a:62136
- Dawson, Donald A. *see* Cutler, Colleen D. 91d:60051
- Devroye, Luc (with Krzyżak, Adam) An equivalence theorem for L_1 convergence of the kernel regression estimate. 91a:62102
- (with Györfi, László) No empirical probability measure can converge in the total variation sense for all distributions. 91f:62089
- DiCiccio, Thomas J. (with Hall, Peter Gavin; Romano, Joseph P.) Comparison of parametric and empirical likelihood functions. 91g:62038
- Dinges, H. Special cases of second order Wiener germ approximations. 91b:60026
- Duchinakis, Kyriatoulis Asymptotic expansion of moments of estimates for current error probability in classification problems. (Russian. English and Lithuanian summaries) (Not in MR)
- Dzhikiya, N. G. The limit distribution of maximal deviation of estimates for a regression curve. (Russian. English and Georgian summaries) 91b:62072
- Elamali, John H. J. *see* Beirlant, Jan. 91k:60027
- Ermoševa, T. Yu. Asymptotic behavior of estimates for regression coefficients of random processes with a priori inequality constraints. 91e:62232
- Falk, Michael Weak convergence of the maximum error of the bootstrap quantile estimate. 91b:62045
- Feigin, P. D. Semimartingale convergence theory and conditional inference for stochastic processes. (see 91j:60004)
- Freimer, Marshall (with Kollia, Georgia D.; Mudholkar, Govind S.; Lin, C. Thomas) Extremes, extreme spacings and outliers in the Tukey and Weibull families. 91f:60066
- Gangopadhyay, Ashis K. *see* Bhattacharya, P. K. 91c:62078
- Geurtsma, Jan C. *see* Aerts, Marc. 91m:62146
- Ghazal, G. A. Distribution of two-sample two-stage least squares estimator and its asymptotic expansion. (Not in MR)
- Giné, Evarist (with Zinn, Joel) Bootstrapping general empirical measures. 91g:60042
- Girka, V. L. (with Pavlenko, T. V.) G -estimation of the quadratic discriminant function. 91c:62158
- G_{25} -estimates for principal components. 91d:62083
- Gombay, Edit (with Horváth, Lajos) Asymptotic distributions of maximum likelihood tests for change in the mean. 91j:62025
- Götze, Friedrich Edgeworth expansions in functional limit theorems. 91d:60052
- Griffin, Philip S. (with Pruitt, William E.) Asymptotic normality and subsequential limits of trimmed sums. 91a:60063
- Grigorev, Yu. D. Asymptotic distribution of an estimate for the variance of the observations in a nonlinear regression model. 91f:62114
- Gudynas, Pranas P. Generalizations of an approximation inequality. (Russian. English and Lithuanian summaries) 91k:60013
- Gutter, Peter (with Lockhart, R. A.) On the asymptotic distributions of high-order spacings statistics. (French summary) (Not in MR)
- Györfi, László *see* Devroye, Luc. 91f:62089
- Haberman, Shelby J. Concavity and estimation. 91a:62075
- Hahn, Marjorie G. (with Kuelbs, James D.) Universal asymptotic normality for conditionally trimmed sums. 91g:60030
- Hall, Peter Gavin Effects of design and error on normal convergence rates in regression problems. 91f:62116
- Edgeworth expansions for nonparametric density estimators, with applications. 91m:62062
- *see also* DiCiccio, Thomas J.; et al. 91g:62038
- Hamdy, H. I. *see* Al-Mahmoud, M. 91b:62104
- Hansen, Lars Peter A central-limit result for instrumental variables estimators of linear time series models. 91f:62171
- Hawkins, D. L. Estimating changes in a multi-parameter exponential family. 91c:62018
- A note on the asymptotic distribution of a statistic for testing stability of a correlation coefficient. 91m:62088
- Hayakawa, Takeshi On tests for the mean direction of the Langevin distribution. 91f:62040
- Henze, N. An approximation to the limit distribution of the Epps-Palley test statistic for normality. 91b:62048
- *see also* Baringham, L. 91f:62087
- Höglund, Thomas *see* Robinson, John; et al. 91f:60069
- Holly, Alberto (with Rockinger, Georg Michael) Exact and approximate distribution of the t ratio test statistic in an AR(1) model. 91f:62121
- Holst, Lars *see* Robinson, John; et al. 91f:60069
- Hooghiemstra, G. Another visit to two halflines. 91d:60182
- Horváth, Lajos The limit distributions of likelihood ratio and cumulative sum tests for a change in a binomial probability. 91a:62057
- *see also* Gombay, Edit. 91j:62025
- Hosoya, Yuzo (with Tsukuda, Yoshihiko; Terui, Nobuhiko) Ancillarity and the limited information maximum-likelihood estimation of a structural equation in a simultaneous equation system. 91f:62172
- Huang, Da Wei Recursive method for ARMA model estimation. II. 91a:62243
- Huet, S. (with Jolivet, E.; Messéan, A.) Some simulations results about confidence intervals and bootstrap methods in nonlinear regression. (Not in MR)
- Huggins, R. M. The sign test for stochastic processes. 91b:62175
- Hwang, Synian (with Tsay, Ruey S.) On the asymptotic distribution of ratio and regression estimators. 91c:62021
- Inglot, Tadeusz (with Ledwina, Teresa) On probabilities of excessive deviations for Kolmogorov-Smirnov, Cramér-von Mises and chi-square statistics. 91b:60076
- Inoue, Hideyuki *see* Niki, Naoto; et al. 91f:60041
- Ismatullayev, Sh. A. *see* Sirazhdinov, S. Kh.; et al. 91c:60093
- Ivanov, V. A. *see* Bykov, S. I. 91c:60059
- Ivchenko, G. I. (with Khonov, S. A.) An asymptotic estimate for stratified finite populations. 91c:62022
- Jammalamadaka, S. Rao (with Zhou, Xian; Tiwari, Ram C.) Asymptotic efficiencies of spacings tests for goodness of fit. 91j:62054
- *see also* Aras, Girish; et al. 91c:62126
- Johnson, Richard A. (with Morrell, Christopher H.) Two sample rank tests under a random truncation model. 91m:62078
- Jolivet, E. *see* Huet, S.; et al. (Not in MR)
- de Jong, Peter A central limit theorem for generalized multilinear forms. 91m:60042
- Jurečková, Jana (with Sen, Pranab Kumar) Effect of the initial estimator on the asymptotic behavior of one-step M -estimator. 91m:62053
- Kakwani, Nanak Large sample distribution of several inequality measures: with application to Côte d'Ivoire. 91f:62142
- Khakhria, Ts. G. Limit theorems for the joint distribution of maximum likelihood estimates for change points. (Russian) 91m:62044
- Khalifa, N. M. Detection of outliers by the Chauvenet method in observations connected in a homogeneous Markov chain. (Russian) 91c:62249
- Khanin, A. G. *see* Turbin, A. F. 91c:62104
- Khashimov, Sh. A. Asymptotic properties of functions of spacings. 91c:62128
- Khatr, C. G. (with Bhavsar, C. D.) Asymptotic distribution of test statistics for covariance matrices concerning complex elliptical distributions. 91c:62052
- Khonov, S. A. *see* Ivchenko, G. I. 91c:62022
- Kim, Hae Kyung The strong consistency of nonlinear least squares estimators. 91c:62163
- Klaassen, Chris A. J. The asymptotic spread of estimators. 91b:62055
- Knight, Keith A note on the asymptotic covariance matrix of the Yule-Walker estimator. 91b:62183
- Kokic, P. N. (with Weber, N. C.) An Edgeworth expansion for U -statistics based on samples from finite populations. 91c:60068
- Kollia, Georgia D. *see* Freimer, Marshall; et al. 91f:60066
- Korolyuk, V. S. (with Borovskikh, Yu. V.) A random symmetric polynomial with increasing degree. (Russian. English summary) 91c:60071
- Krzyżak, Adam *see* Devroye, Luc. 91a:62102
- Kuelbs, James D. *see* Hahn, Marjorie G. 91g:60030
- Kukhaleishvili, R. É. Asymptotic distribution of the quadratic deviation of the regression curve recursive estimator. 91d:62047
- Kuo, Lynn (with Mukhopadhyay, Nitika) Multi-stage point and interval estimation of the largest mean of k normal populations and the associated second-order properties. 91j:62118
- Ledwina, Teresa *see* Inglot, Tadeusz. 91b:60076
- Leipps, R. Functional limit theorems for rank statistics in a "change point" problem. (Russian. English and Lithuanian summaries) 91b:62063
- Leung, C. Y. The Studentized location linear discriminant function. 91b:62057
- Liese, Friedrich Studentization of U -statistics of stationary uniformly strongly mixing processes. 91j:60064
- Lil, Keh Shin (with Rosenblatt, Murray) Asymptotic normality of cumulant spectral estimates. 91j:62137
- Lin, C. Thomas *see* Freimer, Marshall; et al. 91f:60066
- Lin'kov, Yu. N. Asymptotical methods of statistics for semimartingales. (see 91f:60002)
- Lockhart, R. A. *see* Gutter, Peter. (Not in MR)
- Lotov, V. I. (with Novikov, A. A.) Asymptotic expansions in some problems of sequential testing. (see 91j:60004)
- Malyshev, M. B. Local asymptotic normality in Gaussian model of variance components. (see 91j:60004)
- Mason, David M. (with Shorack, Galen R.) Necessary and sufficient conditions for asymptotic normality of trimmed L -statistics. 91b:62047
- Messéan, A. *see* Huet, S.; et al. (Not in MR)
- Miao, Bai Qi (with Zhao, Lin Cheng) Nonuniform bounds of normal approximation for finite-population U -statistics. I. (Chinese summary) 91a:60067a
- (with Zhao, Lin Cheng) Nonuniform bounds of normal approximation for finite-population U -statistics. II. (Chinese summary) 91a:60067b
- Mielniczuk, Jan *see* Ćwik, J. 91a:62101
- Miljares, Tito A. The normal approximation to the Bartlett-Nanda-Pillai trace test in multivariate analysis. (Not in MR)
- Milhaud, Xavier (with Raugi, Albert) Étude de l'estimateur du maximum de vraisemblance dans le cas d'un processus autorégressif: convergence, normalité asymptotique, vitesse de convergence. (English summary) [Study of the maximum likelihood estimator in the case of an autoregressive process: convergence, asymptotic normality, rate of convergence] 91c:62076
- Mirakhsedov, Sh. A. Randomized decomposable statistics in a generalized allocation scheme over a countable set of cells. (Russian) 91c:60076
- *see also* Sirazhdinov, S. Kh.; et al. 91c:60093
- Mirvaliev, M. Chi-square tests of fit for a family of multidimensional distributions. 91b:62029

- Micks, Joachim *see* Pham Dinh Tuan; et al., 91g:62033
- Móri, Tamás F. On the waiting time till each of some given patterns occurs as a run. 91a:60064
- Morrell, Christopher H. *see* Johnson, Richard A., 91m:62078
- Mudholkar, Girind S. *see* Freimer, Marshall; et al., 91f:60066
- Mukerjee, Rahul (with Sutradhar, Brajendra C.) Asymptotic results on the Durbin-Watson test. 91f:62043
- Mukhopadhyay, Nitis *see* Kuo, Lynn, 91j:62118
- Mustafi, C. K. Weak convergence of residual median process for dependent or randomly censored samples. 91a:60078
- Nabeya, Seiji (with Tanaka, Katsuto) A general approach to the limiting distribution for estimators in time series regression with nonstable autoregressive errors. 91d:62144
- Nagarsenker, B. N. (with Nagarsenker, P. B.) On a test of homogeneity of variances. (Not in MR)
- Nagarsenker, P. B. *see* Nagarsenker, B. N., (Not in MR)
- Nakagawa, Shigekazu *see* Niki, Naoto; et al., 91i:60041
- Navidi, William Edgeworth expansions for bootstrapping regression models. 91b:62135
- Neill, James W. (with Yang, Shie-Shien) Testing regression function adequacy in nonlinear multiresponse models. 91f:62115
- Neudecker, H. (with Wesselman, A. M.) The asymptotic variance matrix of the sample correlation matrix. 91g:62042
- Niemiro, Wojciech L^1 -optimal statistical discrimination procedures and their asymptotic properties. (Polish. English summary) 91a:62148
- Niki, Naoto (with Nakagawa, Shigekazu; Inoue, Hideyuki) Cumulants of random sum distributions. 91i:60041
- Novikov, A. A. *see* Lotov, V. I., (91j:60004)
- Ouliaris, S. *see* Phillips, Peter C. B., 91j:62134
- Panaretos, J. Some properties and applications of the stuttering generalized Waring distribution. 91f:60018
- Pavlenko, T. V. *see* Girko, V. L., 91e:62158
- Pázmán, Andrej Small-sample distributional properties of nonlinear regression estimators (a geometric approach). 91j:62089
- Pham Dinh Tuan (with Micks, Joachim; Sroka, Lothar) Asymptotic normality of double-indexed linear permutation statistics. 91g:62033
- Phillips, Peter C. B. Time series regression with a unit root and infinite-variance errors. 91f:62152
- (with Ouliaris, S.) Asymptotic properties of residual based tests for cointegration. 91j:62134
- Pollard, David Asymptotics via empirical processes. 91e:60112
- van Praag, Bernard M. S. (with Wesselman, Bertram M.) Elliptical multivariate analysis. 91a:62130
- Pruitt, William E. *see* Griffin, Philip S., 91a:60063
- Puri, Madan Lal (with Vincze, István) Measure of information and contiguity. 91e:62011
- Quine, M. P. *see* Robinson, John; et al., 91i:60069
- Rama Krishnaiah, Y. S. *see* Rao, M. Sudhakara, 91d:62061
- Rao, M. Sudhakara (with Rama Krishnaiah, Y. S.) Weak convergence of signed processes under strong mixing. 91d:62061
- Rangl, Albert *see* Milhaud, Xavier, 91c:62076
- Resnick, Sidney I. *see* Wilkings, E. K. E., 91a:60073
- Robinson, John (with Höglund, Thomas; Holst, Lars; Quine, M. P.) On approximating probabilities for small and large deviations in R^d . 91f:60069
- Rockinger, Georg Michael *see* Holly, Alberto, 91i:62121
- Romano, Joseph P. *see* DiCiccio, Thomas J.; et al., 91g:62038
- Rosenblatt, Murray *see* Li, Keh Shin, 91j:62137
- Rabčík, František On testing hypotheses approximable by cones. (Russian summary) 91a:62055
- Sargan, J. D. *see* Arellano, Manuel, 91j:62155
- Sen, Pranab Kumar *see* Jurečková, Jana, 91m:62053
- Sen Roy, S. *see* Basu, A. K., 91j:62127
- Seoh, Mansup Berry-Esseen-type bounds for signed linear rank statistics with a broad range of scores. 91j:62058
- Shao, Jun^a Asymptotic distribution of the weighted least squares estimator. 91b:62141
- (with et al.) A general theory for jackknife variance estimation. 91c:62043
- Bootstrapping for generalized L -statistics. 91a:62097
- Functional calculus and asymptotic theory for statistical analysis. 91e:62099
- Limiting behavior of Monte Carlo approximation to Bayesian action. 91j:62010
- Asymptotic theory in heteroscedastic nonlinear models. 91e:62183
- Shapiro, Alexander (with Browne, M. W.) On the treatment of correlation structures as covariance structures. 91f:62104
- Shi, Xi Quan^a Some asymptotic results for jackknifing the sample quantile. 91m:62072
- Shiraishi, Taka-aki R -estimators and confidence regions in one-way MANOVA. 91e:62184
- Shorack, Galen R. *see* Mason, David M., 91h:62047
- Shukrlaeva, Sh. K. *see* Volodin, N. A., 91h:60036
- Singh, Kesar Large deviations for noncentral t -statistics. 91j:60054
- Sirachdinov, S. Kh. (with Mirakhmedov, Sh. A.; Ismatullaev, Sh. A.) Probabilities of large deviations for randomized decomposable statistics in a multinomial scheme. 91e:60093
- Spady, Richard *see* Chesher, Andrew, (Not in MR)
- Srivastava, M. S. (with Yau, Wai Kwok) Saddlepoint method for obtaining tail probability of Wilks' likelihood ratio test. 91a:62133
- Sroka, Lothar *see* Pham Dinh Tuan; et al., 91j:62033
- Stefanski, Leonard A. Rates of convergence of some estimators in a class of deconvolution problems. 91e:62100
- Stein, Michael L. Asymptotic distributions of minimum norm quadratic estimators of the covariance function of a Gaussian random field. 91c:62088
- Correction: "Large sample properties of simulations using Latin hypercube sampling" [Technometrics 29 (1987), no. 2, 143–151; MR 88e:62055]. 91j:62023
- Stephens, M. A. *see* Cheng, R. C. H., 91a:62074
- Stute, Winfried Bootstrap of the linear correlation model. 91f:62122
- Sugiura, Nariaki *see* Takahashi, Hideto, 91e:62012
- Sutradhar, Brajendra C. *see* Mukerjee, Rahul, 91f:62043
- Takahashi, Hideto (with Sugiura, Nariaki) The rate of convergence of Fisher information for type II censored sample. 91e:62012
- Tanaka, Katsuto *see* Nabeya, Seiji, 91d:62144
- Tarakanin, A. F. Asymptotic behavior of the likelihood ratio for semimartingales. (Russian) (see 91g:60005)
- Terui, Nobuhiko *see* Hosoya, Yuzo; et al., 91f:62172
- Theodorescu, R. *see* Abdous, B., 91a:62090
- Thompson, Gerald L. Asymptotic distribution of rank statistics under dependencies with multivariate application. 91k:62047
- Tiwari, Ram C. *see* Jammalamadaka, S. Rao; et al., 91j:62054
- Todorovic, P. An extremal problem arising in soil erosion modeling. 91h:62022
- Tran, Lanh Tat Kernel density estimation on random fields. 91j:62050
- Rank statistics for serial dependence. 91a:62251
- Tsay, Ruey S. *see* Hwang, Synian, 91e:62021
- Tsukuda, Yoshihiko *see* Hosoya, Yuzo; et al., 91f:62172
- Tsybakov, A. B. Recurrent estimation of the mode of a multidimensional distribution. 91j:62051
- Turbin, A. F. (with Khanin, A. G.) The rate of convergence of a spline estimate for a density in the L_2 -metric. (Russian) 91c:62104
- Vincze, István *see* Puri, Madan Lal, 91e:62011
- Volodin, N. A. (with Shukrlaeva, Sh. K.) Rate of convergence of random sums of random vectors to Marshall-Olkin distribution. 91h:60036
- Wang, Suojin Saddlepoint approximations for bivariate distributions. 91k:62052
- Waterman, Michael S. *see* Arratia, Richard, 91c:60031
- Weber, N. C. *see* Kokic, P. N., 91e:60068
- Wesselman, A. M. *see* Neudecker, H., 91g:62042
- Wesselman, Bertram M. *see* van Praag, Bernard M. S., 91a:62130
- Willekens, E. K. E. (with Resnick, Sidney I.) Quantifying closeness of distributions of sums and maxima when tails are fat. 91a:60073
- Willmot, Gordon E. Limiting tail behaviour of some discrete compound distributions. 91j:62284
- Wu, Tzee-Jian L_1 nonuniform central limit bounds for generalized rank statistics. 91d:62063
- Xie, Min Yu Strong convergence of estimators for conditional risk functions in k -NN discrimination and prediction. (Chinese. English summary) 91c:62045
- Yang, Shie-Shien *see* Neill, James W., 91f:62115
- Yao, Yi-Ching On the asymptotic behavior of a class of nonparametric tests for a change-point problem. 91e:62124
- Yau, Wai Kwok *see* Srivastava, M. S., 91a:62133
- Yoo, Lin Feng The law of the iterated logarithm for spectral estimates of white noise. (Chinese. English summary) 91f:62156
- Yuan, Ao Consistency of the double kernel estimate of a conditional density with random window width. (Chinese. English summary) 91b:62078
- Zhang, Cun Hui Fourier methods for estimating mixing densities and distributions. 91e:62058
- Zhang, Di Xia Rates of strong uniform convergence of nearest neighbor density estimates on any compact set. 91f:62080
- Zhao, Lin Cheng *see* Miao, Bai Qi, 91a:60067a and 91a:60067b
- Zhou, Xian *see* Aras, Girish; et al., 91e:62126 and Jammalamadaka, S. Rao; et al., 91j:62054
- Zhou, Yong² Bootstrap approximation of Hodges-Lehmann estimators for two samples. (Chinese. English summary) 91a:62109
- Zinn, Joel *see* Giné, Evarist, 91g:60042

62E25 Monte Carlo studies

Devroye, Luc Coupled samples in simulation. 91b:62037

Stein, Michael L. Correction: "Large sample properties of simulations using Latin hypercube sampling" [Technometrics 29 (1987), no. 2, 143–151; MR 88e:62055]. 91j:62023

Items with secondary classifications in 62E25

Adkins, Lee C. (with Hill, R. Carter) An improved confidence ellipsoid for the linear regression model. (Not in MR)

Amey, Alphonse K. A. (with Gupta, Arjun K.; Norton, Victor T., Jr.; Székely, Gábor J.) On maximum likelihood estimation of the center of a centrally symmetric convex domain. (Not in MR)

Barry, Daniel (with Hartigan, J. A.) An omnibus test for departures from constant mean. 91i:62039

Bather, J. A. Stochastic approximation: a generalisation of the Robbins-Monro procedure. 91e:62209

Blevins, Donald *see* Robins, James M.; et al., 91k:62097

Calabria, R. (with Guida, M.; Pulcini, G.) Bayes estimation of prediction intervals for a power law process. 91k:62033

Chiu, Shean-Tsong On the asymptotic distributions of bandwidth estimates. 91i:62064

Critchley, F. *see* Hirst, D. J.; et al., 91k:62059

Dalal, Siddhartha R. Simultaneous confidence bands for regression with unknown unequal variances. (Not in MR)

Ford, I. *see* Hirst, D. J.; et al., 91k:62059

Fuller, Wayne A. Prediction of true values for the measurement error model. 91k:62053

Guida, M. *see* Calabria, R.; et al., 91k:62033Gupta, Arjun K. *see* Amey, Alphonse K. A.; et al., (Not in MR)

Gottrop, Peter (with Thompson, Mary Lou) Nonparametric estimation of intensities for sampled counting processes. 91e:62088

Hall, Peter Gavin (with Martin, Michael A.) A note on the accuracy of bootstrap percentile method confidence intervals for a quantile. 91d:62064

Hartigan, J. A. *see* Barry, Daniel, 91i:62039Hill, R. Carter *see* Adkins, Lee C., (Not in MR)

Hinkley, D. V. (with Shi, Sheng G.) Importance sampling and the nested bootstrap. 91i:62061

- Hirst, D. J. (with Ford, I.; Critchley, F.) An empirical investigation of methods for interval estimation of the log odds ratio in discriminant analysis. **91k:62059**
- Howlader, H. A. (with Weiss, Günter M. T.) On Bayesian estimation of the Cauchy parameters. **91e:62067**
- Lewis, Peter A. W. see *Ressler, Richard L.*, (Not in MR)
- Martin, Michael A. see *Hall, Peter Gavin*, **91d:62064**
- McAlevey, L. G. see *Rayner, J. C. W.*, (Not in MR)
- Mehrotra, K. G. (with Schick, Anton; Susarla, V.) Estimation in two sample type II censoring models. **91e:62096**
- Nebebe, Fassil (with Sim, Ah-Boon) The relative performances of improved ridge estimators and an empirical Bayes estimator: some Monte Carlo results. (Not in MR)
- Norton, Victor T., Jr. see *Amev, Alphonse K. A.*; et al., (Not in MR)
- Ocaña, Jordi (with Ruiz-Rivas, Carmen) Computer generation and estimation in a one-parameter system of bivariate distributions with specified marginals. (Not in MR)
- Peters, Simon (with Smith, Richard J.) Distributional specification tests against semiparametric alternatives. **91k:62098**
- Prentice, Ross L. see *Robins, James M.*; et al., **91k:62097**
- Palcini, G. see *Calabria, R.*; et al., **91k:62033**
- Quang, Pham Xuan Confidence intervals for densities in line transect sampling. (French summary) **91e:62275**
- Rayner, J. C. W. (with McAlevey, L. G.) Smooth goodness of fit tests for categorised composite null hypotheses. (Not in MR)
- Ressler, Richard L. (with Lewis, Peter A. W.) Variance reduction for quantile estimates in simulations via nonlinear controls. (Not in MR)
- Robins, James M. (with Prentice, Ross L.; Blevins, Donald) Designs for synthetic case-control studies in open cohorts. (French summary) **91k:62097**
- Ruiz-Rivas, Carmen see *Ocaña, Jordi*, (Not in MR)
- Schick, Anton see *Mehrotra, K. G.*; et al., **91e:62096**
- Shao, Jun¹ Limiting behavior of Monte Carlo approximation to Bayesian action. **91j:62010**
- Shi, Sheng G. see *Hinkley, D. V.*, **91k:62061**
- Sim, Ah-Boon see *Nebebe, Fassil*, (Not in MR)
- Smith, Richard J. see *Peters, Simon*, **91k:62098**
- Susarla, V. see *Mehrotra, K. G.*; et al., **91e:62096**
- Szekely, Gábor J. see *Amev, Alphonse K. A.*; et al., (Not in MR)
- Thompson, Mary Lou see *Guttman, Peter*, **91e:62088**
- Weiss, Günter M. T. see *Howlader, H. A.*, **91e:62067**

62E30 Formal computational methods (polykays, etc.)

- Bowman, K. O. (with Shenton, L. R.) ★ Continued fractions in statistical applications. **91g:62018**
- Shenton, L. R. see *Bowman, K. O.*, **91g:62018**

62E99 None of the above, but in this section

- D'Epifanio, Giallo On the construction of differentiable statistical estimators for the probability density function. (Italian. English summary) **91e:62016**
- Items with secondary classifications in 62E99
- Baxter, Laurence A. (with Rachev, Svetlozar T.) A note on the stability of the estimation of the exponential distribution. **91j:60030**
- Eaton, M. L. (with Gleser, L. J.) Some results on convolutions and a statistical application. **91g:60025**
- Gleser, L. J. see *Eaton, M. L.*, **91g:60025**
- Klebanov, L. B. (with Melamed, I. A.; Rachev, Svetlozar T.) On the products of a random number of random variables in connection with a problem from mathematical economics. **91e:60098**
- Melamed, I. A. see *Klebanov, L. B.*; et al., **91e:60098**
- Rachev, Svetlozar T. see *Klebanov, L. B.*; et al., **91e:60098** and *Baxter, Laurence A.*, **91j:60030**

62Fxx Parametric inference

62F03 Hypothesis testing

- Adegbeye, O. Sola (with Gupta, Arjun K.) On testing against restricted alternatives for the variances of Gaussian models. **91a:62048**
- Ahmed, Muhammad Salahuddin see *Al-Rawwash, Hussein*, **91f:62037**
- Ali Manzar Rizvi, S. On the slippage problem for power distribution. (Not in MR)
- Al-Rawwash, Hussein (with Ahmed, Muhammad Salahuddin) Testing simple hypothesis about the mean of normal distribution. **91f:62037**
- Barndorff-Nielsen, Ole E. A note on the standardized signed log likelihood ratio. **91f:62038**
- Barry, Daniel (with Hartigan, J. A.) An omnibus test for departures from constant mean. **91e:62039**
- Benag, Julian (with Clifford, Peter) Generalized Monte Carlo significance tests. **91e:62017**
- Best, D. J. see *Rayner, J. C. W.*, **91a:62053**
- Bhatta, A. R. S. see *Rao, K. Aruna*, (Not in MR)
- Cameron, A. Colla (with Trivedi, Pravin K.) Regression-based test for overdispersion in the Poisson model. (Not in MR)
- Carroll, Raymond J. see *Stefanski, Leonard A.*, **91f:62039**
- Chow, Shein-Chung see *Shao, Jun¹*, **91j:62024**
- Clifford, Peter see *Benag, Julian*, **91e:62017**
- Coles, Stuart G. On goodness-of-fit tests for the two-parameter Weibull distribution derived from the stabilized probability plot. **91a:62049**
- Conniffe, Denis Testing hypotheses with estimated scores. **91a:62050**
- Cramer, J. S. (with Ridder, Geert) Pooling states in the multinomial logit model. (Not in MR)
- Cressie, Noel (with Morgan, P. B.) Design considerations for Neyman-Pearson and Wald hypothesis testing. **91e:62046**
- Csörgő, Sándor (with Welsh, A. H.) Testing for exponential and Marshall-Olkin distributions. **91g:62019**
- Curnow, R. N. see *Fu, Yun-Xin*, **91f:62038**
- Fu, Yun-Xin (with Curnow, R. N.) Locating a changed segment in a sequence of Bernoulli variables. **91f:62038**
- Glaser, Ronald E. see *Keating, Jerome P.*; et al., (Not in MR)
- Gray, H. L. (with Woodward, Wayne A.; McCarty, Gary) Testing for the maximum mean in a mixture of normals. (Not in MR)
- Gupta, Arjun K. see *Adegbeye, O. Sola*, **91a:62048**
- Harishchandra, K. (with Subba Rao, S.) A note on statistical inference about the traffic intensity parameter in $M/E_k/1$ queue. **91b:62043**
- Hartigan, J. A. see *Barry, Daniel*, **91e:62039**
- Hawkins, D. L. Estimating changes in a multi-parameter exponential family. **91e:62018**
- Hayter, A. J. (with Liu, W.) The power function of the Studentized range test. **91b:62044**
- (with Liu, W.) Power assessment for tests of the equality of several proportions. (Not in MR)
- Henderson, Robin A problem with the likelihood ratio test for a change-point hazard rate model. (Not in MR)
- Hommel, Gerhard A comparison of two modified Bonferroni procedures. **91a:62051**
- Hsieh, H. K. Inferences on the coefficient of variation of an inverse Gaussian distribution. **91e:62040**
- Ivchenko, G. I. (with Lévin, V. V.; Nikolaev, A. S.) On testing the homogeneity of multinomial samples. (Russian) (see **91j:60002**)
- Keating, Jerome P. (with Glaser, Ronald E.; Ketchum, Norma S.) Testing hypotheses about the shape parameter of a gamma distribution. (Not in MR)
- Ketchum, Norma S. see *Keating, Jerome P.*; et al., (Not in MR)
- Kimber, Alan C. On Rosado's objective criterion for outliers. (Italian summary) (Not in MR)
- King, Maxwell L. The power of Student's t test: can a nonsimilar test do better? (Not in MR)
- Kocherlakota, Kathleen see *Kocherlakota, Subrahmaniam*, (Not in MR)
- Kocherlakota, Subrahmaniam (with Kocherlakota, Kathleen) Tests of hypotheses for the weighted binomial distribution. (French summary) (Not in MR)
- Kodlauer, E. M. Statistical tests that are based on sample blocks and on block frequencies. (Russian) (see **91j:60002**)
- Lévin, V. V. see *Ivchenko, G. I.*; et al., (see **91j:60002**)
- Liu, W. see *Hayter, A. J.*, **91b:62044** and (Not in MR)
- Luke, L. M. see *Pool, A. H.*, **91e:62047** and (Not in MR)
- Lucas, Larry A. (with Robertson, Tim; Wright, F. T.) Approximating the level probabilities for a unimodal ordering. (Not in MR)
- Malik, Henrick J. see *Pandey, B. N.*, (Not in MR)
- McCarty, Gary see *Gray, H. L.*; et al., (Not in MR)
- van der Meulen, Bert see *Schaafsma, Willem*; et al., **91m:62034**
- Mirvaliev, M. Chi-square tests of fit for a family of multidimensional distributions. **91k:62029**
- Morgan, P. B. see *Cressie, Noel*, **91e:62046**
- Moser, Barry K. (with Stevens, Gary R.; Watts, Christian L.) The two-sample t test versus Satterthwaite's approximate F test. (Not in MR)
- Nikolaev, A. S. see *Ivchenko, G. I.*; et al., (see **91j:60002**)
- Nikulin, M. S. (with Voinov, V. G.) A chi-square goodness-of-fit test for exponential distributions of the first order. **91e:62041**
- Pagurova, V. I. (with Rodionov, K. D.) On tests for outlying observations. (see **91j:60004**)
- (with Rodionov, K. D.) Criteria for the exclusion of outlying observations in regression and dispersion analysis. (Russian) (see **91g:60003**)
- Pandey, B. N. (with Malik, Henrick J.) Testing for the mean of the inverse Gaussian distribution and adaptive estimation of parameters. (Not in MR)
- Paul, S. R. see *Thiagarajah, K.*, (Not in MR)
- Pereira, Helena Iglésias Tests for the characteristic exponent and the scale parameter of symmetric stable distributions. (Not in MR)
- Peres, Albert Barycenter-aided least-favorable-pair testing and estimating. **91a:62052**
- del Pino, Guido E. A coordinate free approach to score tests. **91d:62021**
- Pool, A. H. (with Luke, L. M.) Powers of likelihood ratio tests in a nonlinear model. **91e:62047**
- (with Luke, L. M.) Errata: "Powers of likelihood ratio tests in a nonlinear model" [Bull. Malaysian Math. Soc. (2) 12 (1989), no. 2, 33–54]. (Not in MR)
- Rao, K. Aruna (with Bhatta, A. R. S.) A note on test for coefficient of variation. (Not in MR)
- Rayner, J. C. W. (with Best, D. J.) ★ Smooth tests of goodness of fit. **91a:62053**
- Ridder, Geert see *Cramer, J. S.*, (Not in MR)
- del Rio, Manuel A coordinate-free approach to testable hypotheses. **91a:62054**
- Robertson, Tim see *Lucas, Larry A.*; et al., (Not in MR)
- Rodionov, K. D. see *Pagurova, V. I.*, (see **91j:60003**) and (see **91j:60004**)
- Rom, Dror M. A sequentially rejective test procedure based on a modified Bonferroni inequality. (Not in MR)
- Royes, Th. Generalized maximum range tests for pairwise comparisons of several populations. **91h:62030**
- Rublik, Frantisek On testing hypotheses approximable by cones. (Russian summary) **91a:62055**
- Schaafsma, Willem (with Tolboom, Jeroen; van der Meulen, Bert) Discussing truth or falsity by computing a Q -value. **91m:62034**
- Shao, Jun¹ (with Chow, Shein-Chung) Test for treatment effect based on binary data with random sample sizes. **91j:62024**
- Shi, Ning Zhong Testing for umbrella order restrictions on multinomial parameters. **91h:62031**
- Stefanski, Leonard A. (with Carroll, Raymond J.) Score tests in generalized linear measurement error models. **91f:62039**
- Stevens, Gary R. see *Moser, Barry K.*; et al., (Not in MR)
- Subba Rao, S. see *Harishchandra, K.*, **91b:62043**
- Tadikamalla, Pande R. Kolmogorov-Smirnov type test-statistics for the gamma, Erlang-2 and the inverse Gaussian distributions when the parameters are unknown. (Not in MR)

- Thiagarajah, K. (with Paul, S. R.) Testing for the equality of scale parameters of $K (\geq 2)$ exponential populations based on complete and type II censored samples. (Not in MR)
- Tolboom, Jeroen *see* Schaafsma, Willem; et al., 91m:62034
- Trivedi, Pravin K. *see* Cameron, A. Colin; (Not in MR)
- Veinor, V. G. *see* Nikulin, M. S., 91i:62041
- Watts, Christian L. *see* Moser, Barry K.; et al., (Not in MR)
- Welsh, A. H. *see* Csörgő, Sándor, 91g:62019
- Woodward, Wayne A. *see* Gray, H. L.; et al., (Not in MR)
- Wright, F. T. *see* Lucas, Larry A.; et al., (Not in MR)

Items with secondary classifications in 62F03

- Aly, Emad-Eldin A. A. On testing exponentiality against IFRA alternatives. 91e:62251
- Andrews, Donald W. K. Power in econometric applications. 91g:62081
- Ascher, Steven A. Survey of tests for exponentiality. (Not in MR)
- Battaglia, Francesc Approximate power of portmanteau tests for time series. 91a:62235
- Bera, Anil K. (with McAleer, Michael) Nested and nonnested procedures for testing linear and log-linear regression models. 91e:62171
- Boos, Dennis D. *see* Brownie, Cavell; et al., (Not in MR)
- Brownie, Cavell (with Boos, Dennis D.; Hughes-Oliver, Jacqueline) Modifying the t and ANOVA F tests when treatment is expected to increase variability relative to controls. (French summary) (Not in MR)
- Bruner, Hazel *see* Whitehead, John Raymond, 91i:62103
- Chan, K. S. (with Tong, Howell) On likelihood ratio tests for threshold autoregression. 91k:62087
- Cox, D. R. Some aspects of conditional and asymptotic inference: a review. 91e:62068
- Davidson, Russell (with MacKinnon, James G.) Artificial regressions and $C(\alpha)$ tests. (Not in MR)
- Davis, Linda Jane Collapsibility of likelihood ratio tests in multidimensional contingency tables. 91m:62104
- Deo, Sheela *see* Kshirsagar, Anant M., 91b:62148
- Ebrahimi, Nader (with Habibullah, Mohamed) Testing whether the survival distribution is new better than used of specified age. 91b:62085
- Fong, Duncan K. H. A Bayesian approach to the comparison of two means. 91a:62081
- Ghosh, Malay (with Sinha, Bimal Kumar) Empirical and hierarchical Bayes competitors of preliminary test estimators in two sample problems. 91b:62056
- Groenewald, P. C. N. (with de Waal, D. J.) Bayesian tests for some precise hypotheses on multi-normal means. 91d:62031
- Habibullah, Mohamed *see* Ebrahimi, Nader, 91b:62085
- Hacking, Ian Telepathy: origins of randomization in experimental design. 91c:01031
- Hsü, Yü Li A nonparametric multiple comparison approach for regression slopes with a control. 91a:62169
- Hughes-Oliver, Jacqueline *see* Brownie, Cavell; et al., (Not in MR)
- Jandhyala, V. K. (with MacNeill, I. B.) Residual partial sum limit process for regression models with applications to detecting parameter changes at unknown times. 91b:62130
- Johnson, Dallas E. *see* Neill, James W., 91a:62171
- Johnson, Norman Lloyd² (with Kotz, Samuel; Wang, Qiwen) Randomized-sequential group testing procedures. 91j:62112
- Kabe, D. G. On solving linear zero integer programming problems of hypothesis testing theory. 91g:90109
- Kallenberg, Wilbert C. M. Inequalities for noncentral chi-square distributions. 91m:62029
- Kotz, Samuel *see* Johnson, Norman Lloyd²; et al., 91j:62112
- Krömer, Walter *see* Ploberger, Werner, 91j:62094
- Kshirsagar, Anant M. (with Radhakrishnan, R.) A likelihood ratio test for interaction among variances. 91a:62181
- (with Deo, Sheela) Distribution of the biased hypothesis sum of squares in linear models with missing observations. 91b:62148
- Laska, Eugene M. (with Meisner, Morris J.) Testing whether an identified treatment is best. (French summary) 91d:62059
- MacKinnon, James G. *see* Davidson, Russell, (Not in MR)
- MacNeill, I. B. *see* Jandhyala, V. K., 91b:62130
- Marden, John L. (with Perlman, Michael D.) On the inadmissibility of step-down procedures for the Hotelling T^2 problem. 91g:62047
- McAleer, Michael *see* Bera, Anil K., 91e:62171
- McCabe, B. P. M. An extension of Anderson's multiple decision procedure. 91d:62110
- Meisner, Morris J. *see* Laska, Eugene M., 91d:62059
- Neill, James W. (with Johnson, Dallas E.) A comparison of some lack of fit tests based on near replicates. 91a:62171
- Parkhurst, David F. Statistical hypothesis tests and statistical power in pure and applied science. 91k:03055
- Perlman, Michael D. *see* Marden, John L., 91g:62047
- Ploberger, Werner (with Krömer, Walter) The local power of the cusum and cusum of squares tests. 91j:62094
- Provost, Serge B. The distribution function of a statistic for testing the equality of scale parameters in two gamma populations. 91a:62042
- Qian, Wei A note on asymptotic inference for an asymmetric Ising model around a torus. 91g:62015
- Radhakrishnan, R. *see* Kshirsagar, Anant M., 91a:62181
- von Rosen, Dietrich A matrix formula for testing linear hypotheses in linear models. 91g:62052
- Schmid, Wolfgang Outliers in a multivariate autoregressive moving-average process. 91m:62168
- Singh, Bahadur (with Wright, F. T.) Testing for and against an order restriction in mixed-effects models. 91e:62194
- Sinha, Bimal Kumar *see* Ghosh, Malay, 91b:62056
- Theles, Brian J. Fisher information and dichotomies in equivalence/contiguity. 91b:60045
- Tong, Howell *see* Chan, K. S., 91k:62087
- de Waal, D. J. *see* Groenewald, P. C. N., 91d:62031
- Wang, Qiwen *see* Johnson, Norman Lloyd²; et al., 91j:62112
- Whitehead, John Raymond (with Bruner, Hazel) The double triangular test: a sequential test for the two-sided alternative with early stopping under the null hypothesis. 91i:62103

- Williams, Evan J. (with Yip, Paul) Conditional inference about an equicorrelation coefficient. 91e:62154
- Wright, F. T. *see* Singh, Bahadur, 91e:62194
- Wu, Guo Fa (with Zhong, You Ming) A method for identifying outliers by using linear models. (Chinese) 91a:62175
- Yip, Paul *see* Williams, Evan J., 91e:62154
- Zhong, You Ming *see* Wu, Guo Fa, 91a:62175
- Zoubaidi, Toufik Asymptotic approximations to the Bayes posterior risk. 91k:62009

62F04 Small sample properties of tests

- Malik, Henrick J. *see* Pandey, B. N.; et al., 91e:62048
- Nagaraj, Neerchal K. Locally optimal invariant tests for change in level. 91m:62035
- Ocaña, Jordi (with Ruiz-Rivas, Carmen) Computer generation and estimation in a one-parameter system of bivariate distributions with specified marginals. (Not in MR)
- Pandey, B. N. (with Malik, Henrick J.; Srivastava, Rakesh) Shrinkage testimators for the shape parameter of Weibull distribution under type II censoring. 91e:62048
- Ruiz-Rivas, Carmen *see* Ocaña, Jordi, (Not in MR)
- Sen Gupta, Ashis (with Vermeire, Lea) Locally optimal test for simultaneously testing the mean and variance of a normal distribution. 91d:62022
- Srivastava, Rakesh *see* Pandey, B. N.; et al., 91e:62048
- Vermeire, Lea *see* Sen Gupta, Ashis, 91d:62022

Items with secondary classifications in 62F04

- Ahmad, R. *see* Choi, Y. J.; et al., 91a:62110
- Bell, C. B. *see* Choi, Y. J.; et al., 91a:62110
- Chen, Lan Xiang Monotonicity of the power function and unbiasedness of some likelihood ratio tests. 91b:62109
- Choi, Y. J. (with Bell, C. B.; Ahmad, R.; Park, Chong Jin) Signal detection for uniform renewal processes. 91a:62110
- Dulawat, M. S. (with Rao, Chaluradi Venkateswara; Gupta, Vijaya Prakash) Admissibility of conditionally specified test procedure in analysis of variance of random and mixed models. 91a:62180
- Gupta, Vijaya Prakash *see* Dulawat, M. S.; et al., 91a:62180
- Khuri, André I. Exact tests for random models with unequal cell frequencies in the last stage. 91m:62128
- van der Meulen, Bert *see* Schaafsma, Willem; et al., 91m:62034
- Park, Chong Jin *see* Choi, Y. J.; et al., 91a:62110
- Rao, Chaluradi Venkateswara *see* Dulawat, M. S.; et al., 91a:62180 and Ravichandran, J., (Not in MR)
- Ravichandran, J. (with Rao, Chaluradi Venkateswara) On power function of a conditionally specified test procedure in an unbalanced random effects model. (Hindi summary) (Not in MR)
- Schaafsma, Willem (with Tolboom, Jeroen; van der Meulen, Bert) Discussing truth or falsity by computing a Q -value. 91m:62034
- Spruill, Carl Accurate detection of excess over a standard based on a random sample. 91a:62279
- Tolboom, Jeroen *see* Schaafsma, Willem; et al., 91m:62034

62F05 Asymptotic properties of tests

- Bickel, Peter J. Efficient testing in a class of transformation models: an outline. (see 91j:60004)
- Daniilcheva, O. K. Approximation of the power of the ω^2 -test for a composite parametric hypothesis. 91b:62045
- Drost, F. C. (with Kallenberg, Wilbert C. M.; Moore, D. S.; Oosterhoff, J.) Asymptotic error bounds for power approximations to multinomial tests of fit. 91a:62056
- El-Helwawy, Abdalla T. (with Hassan, Tawfik) A note on the Wald, Lagrangian multiplier and likelihood ratio tests when the information matrix is singular. (Not in MR)
- Gombay, Edit (with Horváth, Lajos) Asymptotic distributions of maximum likelihood tests for change in the mean. 91j:62025
- Gourieroux, Christian (with Monfort, A.) A general framework for testing a null hypothesis in a "mixed" form. 91b:62046
- Hassan, Tawfik *see* El-Helwawy, Abdalla T., (Not in MR)
- Hawkins, D. L. A test for a change point in a parametric model based on a maximal Wald-type statistic. 91b:62047
- Hayakawa, Takeshi On tests for the mean direction of the Langevin distribution. 91f:62040
- Henze, N. An approximation to the limit distribution of the Epps-Pulley test statistic for normality. 91b:62048
- Hörnig, K. Asymptotically optimal tests of hypotheses on the generator of a finite Markov process. 91e:62049
- Horváth, Lajos The limit distributions of likelihood ratio and cumulative sum tests for a change in a binomial probability. 91a:62057
- *see also* Gombay, Edit, 91j:62025
- Kallenberg, Wilbert C. M. *see* Drost, F. C.; et al., 91a:62056
- Kolomiets, É. I. On asymptotic optimality of the likelihood ratio test. 91f:62041
- Kourouklis, Stavros A relation between the Chernoff index and the Pitman efficacy. 91f:62042
- Lie'kov, Ya. N. A generalization of a lemma of Stein. (Russian) (see 91g:60005)
- Asymptotic discrimination between two simple statistical hypotheses. (Russian) 91g:62028
- Martens, Harald (with Næs, Tormod) ★ Multivariate calibration. 91e:62050
- Mirvaliev, M. Modification of the Pearson statistic in the case of estimation by the method of moments. (Russian) 91a:62058
- Monfort, A. *see* Gourieroux, Christian, 91b:62046
- Moore, D. S. *see* Drost, F. C.; et al., 91a:62056
- Mukerjee, Rahul Comparison of tests in the presence of a nuisance parameter. 91m:62036
- (with Sutradhar, Brajendra C.) Asymptotic results on the Durbin-Watson test. 91f:62043
- Comparison of tests in the multiparameter case. I. Second-order power. 91b:62032a

— Comparison of tests in the multiparameter case. II. A third-order optimality property of Rao's test. **91h:62032h**

Nes, Tormod. *see* Martens, Harald, **91e:62050**

Oosterhoff, J. *see* Drost, F. C.; et al., **91a:62056**

Schnell, Daniel J. A likelihood ratio test for error covariance specification in nonlinear measurement error models. (see **91h:62003**)

Satradhar, Brajendra C. *see* Mukerjee, Rahul, **91f:62043**

Items with secondary classifications in 62F05

Amemiya, Yasuo (with Anderson, T. W.) Asymptotic chi-square tests for a large class of factor analysis models. **91m:62110**

Anderson, T. W. *see* Amemiya, Yasuo, **91m:62110**

Bednarski, T. On the convergence rate of robust procedures and local equivalence of Hellinger and total variation distances. **91b:62065**

Bernstein, A. V. On asymptotically complete classes of tests. (see **91j:60004**)

Cline, Daren B. H. Consistency for least squares regression estimators with infinite variance data. **91e:62172**

Davis, Linda June Intersection union tests for strict collapsibility in three-dimensional contingency tables. **91d:62079**

DiCiccio, Thomas J. (with Hall, Peter Gavin; Romano, Joseph P.) Comparison of parametric and empirical likelihood functions. **91g:62038**

Fan, Jian Qing. *see* Fang, Kai Tai, (**91e:62006**)

Fang, Kai Tai (with Fan, Jian Qing) Asymptotic properties of estimation and hypothesis testing for distributions with rotational symmetries [Dongbei Shuxue 4 (1988), no. 4, 379–388; MR 90d:62068]. (see **91e:62006**)

Ferentinos, K. K. *see* Zografos, K.; et al., **91j:62008**

Frydenberg, Morten (with Jensen, Jens Ledet) Is the "improved likelihood ratio statistic" really improved in the discrete case? **91a:62045**

Gao, Hong Ye Identification and hypothesis testing on ARIMA (p, d, q) models. **91d:62136**

Gray, Robert M. *see* Longo, Maurizio; et al., **91b:94008**

Hall, Peter Gavin. *see* DiCiccio, Thomas J.; et al., **91g:62038**

Haighton, Dominique Size of the error in the choice of a model to fit data from an exponential family. **91h:62072**

Janssen, Arnold Local asymptotic normality for randomly censored models with applications to rank tests. **91b:62082**

Jensen, Jens Ledet. *see* Frydenberg, Morten, **91a:62045**

Khattree, Ravindra (with Naik, Dayanand N.) Optimum tests for random effects in unbalanced nested designs. **91g:62054**

Kim, Hyune-Ju (with Siegmund, David) The likelihood ratio test for a change-point in simple linear regression. **91h:62063**

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Liang, Ta-Chen On the convergence rates of a monotone empirical Bayes test for uniform distributions. **91m:62010**

Loh, Wei-Yin Bounds on the size of the χ^2 -test of independence in a contingency table. **91h:62112**

Longo, Maurizio (with Lookabaugh, Tom D.; Gray, Robert M.) Quantization for decentralized hypothesis testing under communication constraints. **91b:94008**

Lookabaugh, Tom D. *see* Longo, Maurizio; et al., **91b:94008**

Mallinowski, V. K. Power functions and the deficiency of asymptotically efficient tests in the case of Markov observations. **91e:62213**

Naik, Dayanand N. *see* Khattree, Ravindra, **91g:62054**

Neill, James W. (with Yang, Shie-Shien) Testing regression function adequacy in nonlinear multiresponse models. **91f:62115**

Nelson, Forrest D. (with Savin, N. E.) The danger of extrapolating asymptotic local power. (Not in MR)

Papaioannou, Takis. *see* Zografos, K.; et al., **91j:62008**

Pavlov, I. V. A sequential procedure for testing composite hypotheses with application to the Kiefer-Weiss problem. **91m:62144**

Ramalingam, T. Exact Bahadur efficiencies of tests for superadditivity of the mean function of a nonhomogeneous Poisson process. **91e:62108**

Romano, Joseph P. *see* DiCiccio, Thomas J.; et al., **91g:62038**

Ross, William H. The expectation of the likelihood ratio criterion. (French summary) **91g:62016**

Saikkonen, Pentti Asymptotic relative efficiency of the classical test statistics under misspecification. **91a:62298**

Savin, N. E. *see* Nelson, Forrest D., (Not in MR)

Shao, Jun¹ Asymptotic distribution of the weighted least squares estimator. **91b:62141**

Siegmund, David. *see* Kim, Hyune-Ju, **91h:62063**

Stadje, Wolfgang An upper bound for the accuracy of the Wiener process approximation of the error probabilities of the SPRT. **91h:62076**

Sweeting, T. J. On conditional weak convergence. **91a:60008**

Takahashi, Hajime Asymptotic expansions for $E_\theta(t)$ and $E_\theta(\bar{X}_t)$ which appear in the repeated significance tests for the normal means. **91m:62145**

Taraskin, A. F. Stable limit theorems in the asymptotic behavior of the likelihood ratio. (Russian) (see **91g:60003**)

Yang, Shie-Shien. *see* Neill, James W., **91f:62115**

Ziesel, Helmut On the power of the Durbin-Watson test under high autocorrelation. **91a:62176**

Zografos, K. (with Ferentinos, K. K.; Papaioannou, Takis) ϕ -divergence statistics: sampling properties and multinomial goodness of fit and divergence tests. **91j:62008**

62F07 Ranking and selection

Bechhofer, Robert E. (with Dunnett, Charles W.; Goldsman, David M.; Hartmann, Mark E.) A comparison of the performances of procedures for selecting the normal population having the largest mean when the populations have a common unknown variance. (Not in MR)

Bhandari, Subir Kumar (with Bose, Arup) Selecting the t -best cells in a multinomial distribution. **91c:62019**

Bofinger, Eve Posterior probability of correct selection. **91f:62044**

— *see also* Mengersen, Kerrie, (Not in MR)

Bose, Arup. *see* Bhandari, Subir Kumar, **91c:62019**

Chen, Pinyuen Truncated inverse sampling procedure for multinomial subset selection. **91c:62051**

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Driessen, Stefan (with van der Laan, Paul; van Putten, Brand) Robustness of the probability of correct selection against deviations from the assumption of a common known variance. (Not in MR)

Dunnett, Charles W. *see* Bechhofer, Robert E.; et al., (Not in MR)

Gill, Amar Nath (with Mehta, Gobind P.) Selection procedures for hazard rates based on two-sample statistics. **91d:62023**

— (with Mehta, Gobind P.) Selection procedures for scale parameters using two-sample statistics. **91j:62026**

Goldsman, David M. *see* Bechhofer, Robert E.; et al., (Not in MR)

Gupta, Shanti S. (with Liang, Ta-Chen) Selecting the best binomial population: parametric empirical Bayes approach. **91f:62045**

— (with Miescke, Klaus J.) On selecting the best of k lognormal distributions. **91c:62020**

— (with Huang, Teng Yuan) Erratum: "Selecting important independent variables in linear regression models" [J. Statist. Plann. Inference 20 (1988), no. 2, 155–167; MR 90a:62073]. **91a:62059**

Han, Kyung Soo. *see* Kum, Woo-Chul; et al., (Not in MR)

Hartmann, Mark E. *see* Bechhofer, Robert E.; et al., (Not in MR)

Hegazy, Sabry. *see* Ofofu, J. B.; et al., (Not in MR)

Huang, Teng Yuan. *see* Gupta, Shanti S., **91a:62059**

Huang, Wen T'ao (with Wu, Chin Ch'uan) Exponential subset selections based on censored data. **91g:62020**

Jabri, M. H. Z. *see* Ofofu, J. B.; et al., (Not in MR)

Jeon, Jong Woo. *see* Kum, Woo-Chul; et al., (Not in MR)

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van der Laan, Paul Selection from logistic populations. **91b:62049**

— *see also* Driessen, Stefan; et al., (Not in MR)

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Leu, Lii Yuh (with Liang, Ta-Chen) Selection of the best with a preliminary test for two-parameter exponential distributions. **91j:62027**

Liang, Ta-Chen. *see* Gupta, Shanti S., **91f:62045** and *see* Leu, Lii Yuh, **91j:62027**

Lin, Ché Yen An inverse sampling procedure for identifying or selecting the best cell in a multinomial distribution. **91m:62038**

Mehta, Gobind P. *see* Gill, Amar Nath, **91d:62023** and **91j:62026**

Mengersen, Kerrie (with Bofinger, Eve) Corrigendum: "Selecting the t best populations—scale parameter case" [Austral. J. Statist. 31 (1989), no. 2, 297–307]. (Not in MR)

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Misra, Neeraj. *see* Dhariyal, I. D.; et al., **91c:62052**

Miyazaki, Haruo. *see* Shimoda, Yukio, (Not in MR)

Ofofu, J. B. (with Hegazy, Sabry; Jabri, M. H. Z.) On the robustness of a minimax procedure for the population with largest (smallest) scale parameter. (Not in MR)

van Putten, Brand. *see* Driessen, Stefan; et al., (Not in MR)

Rathore, R. K. S. *see* Dhariyal, I. D.; et al., **91c:62052**

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Šidák, Zbyněk A sequential procedure for selecting the better of two trinomial populations. **91c:62053**

Steel, S. J. *see* Venter, J. H., (Not in MR)

Tamhane, Ajit C. An optimal procedure for partitioning a set of normal populations with respect to a control. **91b:62050**

Venter, J. H. (with Steel, S. J.) Estimation of the selected of two normal means. (Not in MR)

Wilcox, Rand R. Comparisons with a control in two-way and one-way designs, and determining whether the most effective treatment has been selected with probability $1 - \alpha$. (Not in MR)

Wu, Chin Ch'uan. *see* Huang, Wen T'ao, **91g:62020**

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Diaconis, Persi A generalization of spectral analysis with application to ranked data. **91a:60025**

Fong, Duncan K. H. A Bayesian approach to the comparison of two means. **91a:62081**

Frederickson, Greg N. (with Johnson, Donald B.) Erratum: "Generalized selection and ranking: sorted matrices" [SIAM J. Comput. 13 (1984), no. 1, 14–30; MR 85c:68025]. **91a:68128**

Johnson, Donald B. *see* Frederickson, Greg N., **91a:68128**

Judge, J. *see* Mukhopadhyay, Nitis, **91j:62113**

Kuo, Lynn. *see* Mukhopadhyay, Nitis, **91a:62220**

Mukhopadhyay, Nitis (with Kuo, Lynn) Fixed-width interval estimation of the largest location of k negative exponential populations. **91a:62220**

— (with Judge, J.) A note on a permutation-invariant sequential selection procedure. **91j:62113**

Turkington, Darrell A. Classical tests for contemporaneously uncorrelated disturbances in the linear simultaneous equations model. **91a:62300**

62F10 Point estimation

Abd-El-Hakim, Nagi S. *see* Al-Hussaini, Essam K., (Not in MR)

Ahlsvede, Rudolf (with Burnashev, M. V.) On minimax estimation in the presence of side information about remote data. **91d:62044**

- Ahsanullah, M. Estimation of the parameters of a power function distribution by record values. (Not in MR)
- Estimation of the parameters of the Gumbel distribution based on the m record values. (Not in MR)
- see also Klein, S. W., 91f:62054
- Akahira, Masafumi Behaviour of jackknife estimators in terms of asymptotic deficiency under true and assumed models. 91a:62061
- Akhter, Ahmad Saeed On estimating the parameters of truncated normal distribution using Grundy's correction. (Not in MR)
- Al-Hemyari, Z. A. see Kambo, N. S.; et al., 91c:62022
- Al-Hussaini, Essam K. (with Abd-El-Hakim, Nagi S.) Estimation of parameters of the inverse Gaussian-Weibull mixture model. (Not in MR)
- Ali, Mohamed Akkas An alternative approach to minimize model inadequacy. 91e:62054
- Al-Shboul, Qasim M. (with Khan, Abdul Hamid) On estimation and prediction from log-logistic population. (Not in MR)
- Amey, Alphonse K. A. (with Gupta, Arjun K.; Norton, Victor T., Jr.; Székely, Gábor J.) On maximum likelihood estimation of the center of a centrally symmetric convex domain. (Not in MR)
- An, Hong Zhi Regression analysis with errors in the independent variables. (Chinese. English summary) 91g:62021
- Auraku, K. (with Yanagimoto, T.) Estimation for the negative binomial distribution based on the conditional likelihood. (Not in MR)
- Artamonovskii, V. P. On the maximum likelihood estimator for location and scale parameters based on combined samples. 91e:62055
- Attia, A. F. Estimation of mixed truncated Weibull parameters from censored samples. (Not in MR)
- Balakrishnan, Narayanaswamy Approximate maximum likelihood estimation for a generalized logistic distribution. (Not in MR)
- Becker, N. G. (with Heyde, C. C.) Estimating population size from multiple recapture experiments. 91k:62029
- Berger, James O. On the inadmissibility of unbiased estimators. 91f:62047
- Berry, J. Calvin Bayes minimax estimation of a Bernoulli p in a restricted parameter space. 91e:62056
- Bhatt, M. B. see Patel, S. R., (Not in MR)
- Bhattacharya, Samir K. (with Ramkaran) A generalization of the some-times-pool estimator of the mean life. 91f:62048
- (with Kumar, Santosh?) Pretest estimator of the mean of a geometric distribution. (Italian summary) (Not in MR)
- Blass, Josef see Krishnamoorthy, K.; et al., 91a:62068
- Brown, Edward F. see Hassanein, Khatib M.; et al., 91a:62064
- Brown, Lawrence D. (with Low, Mark G.) Information inequality bounds on the minimax risk (with an application to nonparametric regression). 91m:62039
- Burnashev, M. V. see Ahlswede, Rudolf, 91d:62024
- Celeux, Gilles (with Diebolt, Jean) Une version de type recuit simulé de l'algorithme EM. (English summary) [A simulated-annealing-type EM algorithm] 91a:62062
- Chandra, Nimal Kumar (with Chaudhuri, Arijit Ray) On the efficiency of a testimator for the Weibull shape parameter. 91f:62049
- (with Chaudhuri, Arijit Ray) On testing the Weibull shape parameter. (Not in MR)
- On the efficiency of a testimator for the mean of an inverse Gaussian distribution. 91f:62042
- Chaudhuri, Arijit Ray see Chandra, Nimal Kumar, 91f:62049 and (Not in MR)
- Christensen, G. S. see Soliman, S. A., 91f:62044
- Cohen, A. Clifford (with Whitten, Betty Jones) ★ Parameter estimation in reliability and life span models. 91b:62051
- Cox, D. R. (with Wermuth, Nanny) An approximation to maximum likelihood estimates in reduced models. (Not in MR)
- Csiszár, Imre A geometric interpretation of Darroch and Ratcliff's generalized iterative scaling. 91a:62063
- Dahiya, Ram C. see Hegde, Laxman M., 91f:62053
- Dattatreya, G. R. (with Kanal, Laveen N.) Estimation of mixing probabilities in multiclass finite mixtures. 91d:62025
- Dattatreya Rao, A. V. (with Narasimham, V. L.) Linear estimation in double Weibull distribution. (Not in MR)
- Dey, Dipak K. Estimation of scale parameters in mixture distributions. (French summary) 91m:62040
- DiCiccio, Thomas J. (with Romano, Joseph P.) On adjustments based on the signed root of the empirical likelihood ratio statistic. 91f:62050
- Diebolt, Jean see Celeux, Gilles, 91a:62062
- Ducharme, Gilles R. (with Milasevic, Philip) Estimating the concentration of the Langevin distribution. (French summary) 91f:62051
- Eichennauer-Herrmann, Jürgen (with Gohout, W.; Lehn, J.) Minimax estimation of a binomial probability under weighted absolute error loss. 91e:62057
- Ferretinos, K. K. Minimum variance unbiased estimation in doubly type II censored samples from families of distributions involving two truncation parameters. 91f:62043
- From, Steven G. Optimal spacing of quantiles for the estimation of the mixing parameters in a mixture of two exponential distributions. 91c:62021
- Estimating means from a non-i.i.d. mixture of Poisson samples. (Not in MR)
- Ghitany, M. E. (with Laverly, W. H.) Bounds for the mean square error of reliability estimation from gamma distribution in presence of an outlier observation. 91f:62052
- Gill, P. S. see Tiku, M. L., 91a:62070
- Gohout, W. see Eichennauer-Herrmann, Jürgen; et al., 91e:62057
- Gordon, N. H. Maximum likelihood estimation for mixtures of two Gompertz distributions when censoring occurs. (Not in MR)
- Gorman, John D. (with Hero, Alfred O., III) Lower bounds for parametric estimation with constraints. 91j:62028
- Green, Peter J. On use of the EM algorithm for penalized likelihood estimation. 91k:62030
- Gupta, Arjun K. see Amey, Alphonse K. A.; et al., (Not in MR)
- Handa, B. R. see Kambo, N. S.; et al., 91c:62022
- Hassanein, Khatib M. (with Saleh, A. K. Md. Ehsanes; Brown, Edward F.) Simultaneous estimation of the location and scale parameters of the chi-distribution by selected order statistics. 91a:62064
- Hegde, Laxman M. (with Dahiya, Ram C.) Estimation of the parameters in a truncated normal distribution. 91f:62053
- Hero, Alfred O., III see Gorman, John D., 91j:62028
- Heyde, C. C. see Becker, N. G., 91k:62029
- Hjorth, Urban On model selection in the computer age. 91a:62065
- Hsu, Jason C. (with Nelson, Barry L.) Control variates for quantile estimation. (Not in MR)
- Hu, Chin Yüan see Huang, T'i Yüan, (Not in MR)
- Huang, T'i Yüan (with Hu, Chin Yüan) More comparisons of MLE with UMVUE for exponential families. (Not in MR)
- Jacobson, Martin Existence and unicity of MLEs in discrete exponential family distributions. 91e:62058
- Johnson, Roger W. Simultaneous estimation of binomial N 's. 91b:62052
- Kahle, Waltraud (with Köhlmann, Annette) Punkt- und Konfidenzschätzungen für den Stichprobenplan $[N, O, T]$ am Beispiel der Weibullverteilung. [Point and confidence estimates for the sampling plan $[N, O, T]$ using the example of Weibull distribution] (Not in MR)
- Kambo, N. S. (with Handa, B. R.; Al-Hemyari, Z. A.) On shrunken estimators for exponential scale parameter. 91c:62022
- Kamps, U. Estimation based on equioverlapping samples. 91c:62023
- Relative efficiency of estimates and the use of Chebyshev polynomials in a model of pairwise overlapping samples. 91a:62066
- Kanal, Laveen N. see Dattatreya, G. R., 91d:62025
- Kanter, Marek Discrimination distance bounds and statistical applications. 91m:62041
- Kapur, Jagat N. see Seth, Anand K., (91j:60007)
- Katalska, Krystyna On the estimation of total weight in singular spring balance weighing designs under the covariance matrix of errors $\sigma^2 G$. 91a:62067
- Katya, N. P. see Singh, Housila Prasad, (Not in MR) and (Not in MR)
- Kaufmann, Heinz see Oberhofer, Walter, 91e:62061
- Khakhobia, Ts. G. On the adaptive estimation of change points. 91c:62024
- Khan, Abdul Hamid see Al-Shboul, Qasim M., (Not in MR)
- Kim, Woo Chul see Park, Byeong Uk; et al., 91e:62062
- Klein, S. W. (with Ahsanullah, M.) Unbiasedness and range preservation in power series and other families. 91f:62054
- Krishnamoorthy, K. (with Rohatgi, Vijay K.; Blass, Josef) Unbiased estimation in type II censored samples from a one-truncation parameter density. 91a:62068
- Kubokawa, Tatsuya Closer estimators of a common mean in the sense of Pitman. 91c:62025
- Estimation of the common mean and its applications. (Japanese) 91j:62029
- Kühlmann, Annette see Kahle, Waltraud, (Not in MR)
- Kumar, Santosh? see Bhattacharya, Samir K., (Not in MR)
- Laslier, Jean-François Estimation of a Bernoulli [Bernoulli] parameter: a normative approach to replace the Bayesian one. 91h:62033
- Laverly, W. H. see Ghitany, M. E., 91f:62052
- Lehn, J. see Eichennauer-Herrmann, Jürgen; et al., 91e:62057
- Liu, Jin Quan Simultaneous estimation of location parameters under a class of weighted square loss functions. (Chinese. English summary) 91d:62026
- Low, Mark G. see Brown, Lawrence D., 91m:62039
- Madi, Mohamed (with Tsui, Kam-Wah) Estimation of the ratio of the scale parameters of two exponential distributions with unknown location parameters. 91f:62055
- Mahmoud, Mohamed Asymptotic variances and covariances of maximum likelihood estimators of parameters in the inverse Gaussian distribution, with unknown origin, from censored samples. (Not in MR)
- Milasevic, Philip see Ducharme, Gilles R., 91f:62051
- Mirkin, B. G. Paradigms of current mathematical statistics. (Russian) (Not in MR)
- Mohie El-Din, M. M. Estimation of the mean and standard deviation of Burr distribution by order statistics. (Not in MR)
- Müller-Funk, Ulrich (with Pukelsheim, Friedrich; Witting, Hermann) On the attainment of the Cramér-Rao bound in L_2 -differentiable families of distributions. 91d:62027
- Narasimham, V. L. see Dattatreya Rao, A. V., (Not in MR)
- Nayak, Tapan K. Estimation of location and scale parameters using generalized Pitman nearness criterion. 91e:62059
- Nelson, Barry L. see Hsu, Jason C., (Not in MR)
- Newey, Whitney K. Introduction à la théorie des bornes d'efficacité semi-paramétriques. (English summary) [An introduction to semi-parametric efficiency bounds] 91a:62069
- Nikulin, M. S. On estimation of the location parameter of a family of distributions. (Russian) (see 91h:60024)
- Norton, Victor T., Jr. see Amey, Alphonse K. A.; et al., (Not in MR)
- Nychka, Douglas Some properties of adding a smoothing step to the EM algorithm. 91e:62060
- Oberhofer, Walter (with Kaufmann, Heinz) Maximum likelihood estimation of a multivariate hypergeometric distribution. 91e:62061
- Pal, Nabendu (with Sinha, Bimal Kumar) Estimation of a common location of several exponentials. 91j:62030
- Park, Byeong Uk (with Kim, Woo Chul; Song, Moon S.) Asymptotically optimal estimators of the differences of two regression parameters. 91e:62062
- Patel, S. R. (with Bhatt, M. B.) Unbiased estimation in type II censored samples from two-truncation parameter family. (Not in MR)
- Pieczyski, Wojciech Time series and counting estimation. (French summary) (Not in MR)
- Piegorsch, Walter W. Maximum likelihood estimation for the negative binomial dispersion parameter. (French summary) (Not in MR)
- Plachky, Detlef A characterization of permutable functions with estimable mean value based on a finite number of observations. 91e:62063
- Prede, Vasile On the estimation of location parameters. (Not in MR)
- Provost, Serge B. Estimators for the parameters of a multivariate normal random vector with incomplete data on two subvectors and test of independence. 91f:62056
- Pukelsheim, Friedrich see Müller-Funk, Ulrich; et al., 91d:62027
- Radavičius, M. The rate of convergence to the normal law of the maximum likelihood estimator of a parameter in a density. 91m:62042
- Ramkaran see Bhattacharya, Samir K., 91f:62048

- Rida, Wasima N. Asymptotic properties of some estimators for the infection rate in the general stochastic epidemic model. (Not in MR)
- Rohatgi, Vijay K. Unbiased estimation of parametric functions in sampling from two one-truncation parameter families. 91c:62026
— see also Krishnamoorthy, K.; et al., 91a:62068
- Romano, Joseph P. see DiCiccio, Thomas J., 91f:62050
- Saleh, A. K. Md. Ehsanes see Hassanian, Khatib M.; et al., 91a:62064
- Schick, Anton On estimation in LAMN families when there are nuisance parameters present. 91f:62057
- Selvavel, K. Unbiased estimation in sampling from two one-truncation parameter families when both samples are type II censored. 91c:62027
- Seth, Anand K. (with Kapur, Jagat N.) A comparative assessment of entropic and nonentropic methods of estimation. (see 91j:00007)
- Shalaby, Osman Aly Estimation of Weibull parameters when sample size is unknown. (Not in MR)
- Shcherbinin, A. F. Conditional normalized likelihood estimates for the parameters of the binomial and the exponential distributions. (Not in MR)
- Singh, Housila Prasad (with Katyar, N. P.) A generalized class of estimators for common parameters of two normal distributions with known coefficient of variation. (Hindi summary) (Not in MR)
— (with Katyar, N. P.) Errata: "A generalized class of estimators for common parameters of two normal distributions with known coefficient of variation" [J. Indian Soc. Agricultural Statist. 40 (1988), no. 2, 127–149]. (Not in MR)
— Estimation of parameters in normal parent. (Not in MR)
- Sinha, Bimal Kumar see Pal, Nabendu, 91j:62030
- Sinha, Suresh Kumar A note on the variance of the uniformly-minimum variance-unbiased-estimator of the reliability function of exponential life distributions. (Not in MR)
- Sollman, S. A. (with Christensen, G. S.) New algorithm for optimal parameter estimation with linear constraints. 91f:62044
- Song, Moon S. see Park, Byoung Uk; et al., 91a:62062
- Steel, S. J. see Venter, J. H., (Not in MR) and (Not in MR)
- Stefanski, Leonard A. Unbiased estimation of a nonlinear function of a normal mean with application to measurement error models. 91c:62064
- Székely, Gábor J. see Amey, Alphons K. A.; et al., (Not in MR)
- Targhetta, M. Luisa A note on a mixing problem and the Schützenberger inequality. 91j:62031
- Taylor, Jeremy M. G. Properties of maximum likelihood estimates of the ratio of parameters in ordinal response regression models. (Not in MR)
- Tiku, M. L. (with Gill, P. S.) Modified maximum likelihood estimators for the bivariate normal based on type II censored samples. 91a:62070
- Tsui, Kam-Wah see Madi, Mohamed, 91f:62055
- van der Vaart, A. W. On estimating in models with infinitely many parameters. (see 91j:60004)
- Venter, J. H. (with Steel, S. J.) Estimation of two normal means which may be common. (Not in MR)
— (with Steel, S. J.) Estimation of the mean of the population selected from k populations. (Not in MR)
- Wang, Cheng Ming Equivariant asymptotically efficient estimators for location parameters of a class of truncated models. (Chinese. English summary) 91f:62058
- Wasilewski, Mariusz J. Estimation of the parameters of the mixture $k \geq 2$ of normal distributions. (Russian and Polish summaries) (Not in MR)
- Wermuth, Nanay see Cox, D. R., (Not in MR)
- Whittemore, Alice S. Errors-in-variables regression problems in epidemiology. (see 91h:62003)
- Whitten, Betty Jones see Cohen, A. Clifford, 91h:62051
- Witting, Hermann see Müller-Funk, Ulrich; et al., 91d:62027
- Wu, Chuan Yi The inverse Bhattacharyya information matrix for the multiparametric exponential family and its application to normal distributions. (Chinese. English summary) 91a:62071
- Yanagimoto, T. see Asaraka, K., (Not in MR)
- Yang, Ming Chung Compromise between generalized Bayes and Bayes estimators of Poisson means under entropy loss. 91f:62045
- Younes, Laurent Parametric inference for imperfectly observed Gibbsian fields. 91a:62072
- Yu, Qi Qing Admissibility of linear estimators in the fisheries census. 91g:62022
- Zhu, Li Xing Nonexistence of UMVUE for estimable functions of parameter in the two-side truncated family. 91m:62043
- Items with secondary classifications in 62F10
- Ahmed, S. E. Use of a priori information in the estimation of Poisson parameter. 91m:62047
- Akaike, Masafumi (with Takeuchi, Kei) Higher order asymptotics in estimation for two-sided Weibull type distributions. 91c:62004
- Al-Mahmoud, M. (with Hamdy, H. I.) Sequential estimation of linear models in three stages. 91f:62104
- Asano, Choochiro see Geng, Zhi, 91a:62082
- Baksalary, Jerzy K. (with Dobek, Anita; Gnot, Stanislaw) Characterizations of two-way layouts from the point of view of variance component estimation in the corresponding mixed linear models. 91j:62107
- Banks, H. T. (with Fitzpatrick, B. G.) Statistical methods for model comparison in parameter estimation problems for distributed systems. 91m:92002
- Barndorff-Nielsen, Ole E. (with Jupp, P. E.) Approximating exponential models. 91a:62006
- Beck, G. J. see Qu, Yin Sheng; et al., 91g:62013
- Bidabad, Bijan A proposed algorithm for least absolute error estimation. 91a:62157
- Blondan, M. On the choice of the loss function in covariance estimation. 91j:62068
- Brown, Lawrence D. (with Gajek, Lesław) Information inequalities for the Bayes risk. 91m:62007
- Casella, George Estimators with nondecreasing risk: application of a chi-squared identity. 91h:62013
- Chan, Ngai Hang Correction to: "On the nearly nonstationary seasonal time series" [Canad. J. Statist. 17 (1989), no. 3, 279–284; MR 90m:62207]. (Not in MR)
- Chang, I Shou (with Hsiung, Chao Agnes) Finite sample optimality of maximum partial likelihood estimation in Cox's model for counting processes. 91f:62138
- Chao, Lien Chü (with Li, Shen Ming) Estimating the number of unseen species with frequency counts. 91m:62185
- Chattopadhyay, A. K. (with Das, Kalyan) Inadmissibility of the usual estimate for the shape parameter of the Pareto distribution. (Not in MR)
- Chaturvedi, Anoop (with Shukla, Govind) Lindley-like mean correction in the improved estimation of regression models with nonscalar covariance matrix. 91a:62160
- Chen, Lan Xiang Γ -minimax estimation of the parameters of the multinomial distribution. (Chinese summary) 91f:62017
— (with Eichenauer-Herrmann, Jürgen; Hofmann, H.; Kindler, Jürgen) Gamma-minimax estimators in the exponential family. 91m:62018
- Cheng, R. C. H. (with Iles, T. C.) Embedded models in three-parameter distributions and their estimation. 91c:62031
- Chernoff, Herman (with Haitovsky, Yoel) Locally optimal design for comparing two probabilities from binomial data subject to misclassification. 91k:62073
- Chiu, Shean-Tsong Bandwidth selection for kernel estimate with correlated noise. 91h:62070
- Clarke, Judith A. Preliminary-test estimation of the standard error of estimate in linear regression. 91h:62062
- Cohen, Jonathan P. A comparison of estimators of functionals of the distribution of a maximum. 91h:62039
- Consul, P. C. Geeta distribution and its properties. 91k:62023
- Das, Kalyan see Chattopadhyay, A. K., (Not in MR)
- Davidian, M. Estimation of variance functions in assays with possibly unequal replication and nonnormal data. 91a:62286
- Davidson, A. C. (with Smith, Richard L.) Models for exceedances over high thresholds. 91k:62048
- Deshpande, M. N. (with Prabhu-Ajgaonkar, S. G.) On comparison between SRSWR and SRSWOR. 91c:62020
- Dey, Dipak K. (with Liu, Pei-San Liao) Estimation of parameters and reliability from generalized life models. 91f:62132
— see also Rukhin, Andrew L.; et al., 91c:62018 and Kuo, Lynn, 91m:62014
- Dobek, Anita see Baksalary, Jerzy K.; et al., 91j:62107
- Eichenauer-Herrmann, Jürgen Conditional minimax estimates. 91h:62017
— see also Chen, Lan Xiang; et al., 91m:62018
- Elpelt, Bärbel On linear statistical models of commutative quadratic type. 91d:62091
- Fan, Jian Qing (with Fang, Kai Tai) Inadmissibility of the usual estimator for the location parameters of spherically symmetric distributions [Chinese Sci. Bull. 34 (1989), no. 7, 533–537; MR 90k:62055]. (see 91c:62006)
- Fang, Kai Tai see Fan, Jian Qing, (91c:62006)
- Fellman, Johan see Nordström, Kenneth, 91d:62098
- Fitzpatrick, B. G. see Banks, H. T., 91m:92002
- Fong, Duncan K. H. A Bayesian approach to the comparison of two means. 91a:62081
- Gajek, Norbert (with Heiligers, Berthold) Bayes, admissible, and minimax linear estimators in linear models with restricted parameter space. 91c:62174
- Gajek, Lesław see Brown, Lawrence D., 91m:62007
- Gao, Dao De (with Wang, Jing Long) Efficiency of generalized least square estimates. (Chinese. English summary) 91c:62059
- Geng, Zhi (with Asano, Choochiro) Bayesian estimation methods for categorical data with misclassifications. 91a:62082
- Giri, Narayan C. see Perron, François, 91c:62144
- Gnot, Stanislaw see Baksalary, Jerzy K.; et al., 91j:62107
- Godambe, V. P. (with Thompson, M. E.) An extension of quasi-likelihood estimation. 91f:62004
- Gushchin, A. A. Inequalities of Rao-Cramér type on a space with a filtration. 91a:60119
- Haff, L. R. (with Johnson, Rodney W.) A note on simultaneous estimation of Pearson modes. 91k:62010
- Haitovsky, Yoel see Chernoff, Herman, 91k:62073
- Hamdy, H. I. see Al-Mahmoud, M., 91f:62104
- Harishchandra, K. (with Subba Rao, S.) A note on statistical inference about the traffic intensity parameter in $M|E_k|1$ queue. 91b:62043
- Heiligers, Berthold see Gajek, Norbert, 91c:62174
- (Hill, Joe R.) see del Pino, Guido E., 91b:62137
- Hofmann, H. see Chen, Lan Xiang; et al., 91m:62018
- Hsieh, H. K. (with Korwar, R. M.; Rukhin, Andrew L.) Inadmissibility of the maximum likelihood estimator of the inverse Gaussian mean. 91h:62010
- Hsiung, Chao Agnes see Chang, I Shou, 91f:62138
- Ibarrola, Pilar see Véliz Ibarrola, Ricardo, 91c:62207
- Iles, T. C. see Cheng, R. C. H., 91c:62031
- Jain, L. R. A note on Iyengar's method of estimating Engel elasticities from grouped data. (Not in MR)
- Jankovlevič, O. One approach to the construction of stable estimation procedures. 91k:62035
- Johnson, Rodney W. see Haff, L. R., 91k:62010
- Jones, Michael C. see Silverman, Bernard W.; et al., (Not in MR)
- Jørgensen, Bent see del Pino, Guido E., 91b:62137
- Jupp, P. E. see Barndorff-Nielsen, Ole E., 91a:62006
- Jurečková, Jana (with Saleh, A. K. Md. Ehsanes) Robustified version of Stein's multivariate location estimation. 91d:62032
- Karunamuni, Rohana On empirical Bayes sequential estimation. 91d:62005
- Ki, Fanny (with Tsui, Kam-Wah) Multiple-shrinkage estimators of means in exponential families. 91j:62071
- Kindler, Jürgen see Chen, Lan Xiang; et al., 91m:62018
- Klaassen, Chris A. J. The asymptotic spread of estimators. 91b:62055
- Klebanov, L. B. (with Melamed, I. A.) The maximum likelihood method in a scheme for estimating parameters from a sample of random size. (Russian) 91m:62148

- Kligient, Nerušė The probabilities of errors in likelihood estimation of a change-point in statistical models. 91f:62150
- Korkhin, A. S. On the estimation of variable parameters of linear regression. (Russian) 91k:62062
- Korwar, R. M. *see* Hsieh, H. K.; et al., 91k:62010
- Kozłowska, Maria (with Walkowiak, Ryszard) Incomplete homogeneous multiresponse models: testing of hypotheses. (Not in MR)
- Krishnamoorthy, K. (with Rohatgi, Vijay K.) Estimation of the common mean of a bivariate normal distribution. 91c:62141
- Kumar, Somesh (with Sharma, Divakar) On the Pitman estimator of ordered normal means. 91c:62017
- Kuo, Lynn (with Mukhopadhyay, Nitis) Multi-stage point and interval estimation of the largest mean of k normal populations and the associated second-order properties. 91j:62118
- (with Dey, Dipak K.) On the admissibility of the linear estimators of the Poisson mean using linex loss functions. 91m:62014
- *see also* Rukhin, Andrew L.; et al., 91c:62018
- Lange, Kenneth *see* Weeks, Daniel E., 91c:92039
- Levin, Bruce The saddlepoint correction in conditional logistic likelihood analysis. 91j:62088
- Levit, B. Ya. On second order admissibility in simultaneous estimation. (*see* 91j:60004)
- Li, Shen Ming *see* Zhao, Lian Chai, 91m:62185
- Lingappalaiah, G. S. Stepwise generalized Poisson-type distributions. 91b:62035
- Liu, Jin Quan *see* Zou, Guo Hua, 91f:62015
- Liu, Pei-San Liao *see* Dey, Dipak K., 91f:62132
- Livshits, K. I. Parameter estimation of a spline-like model of time series by the least squares method. 91j:62123
- Madan, Dilip (with Seneta, Eugene) Chebyshev polynomial approximations for characteristic function estimation: some theoretical supplements. 91a:60048
- Madi, Mohamed (with Tsui, Kam-Wah) Estimation of the common scale of several shifted exponential distributions with unknown locations. 91m:62015
- Martin, R. Douglas (with Zamar, Ruben H.) Asymptotically min-max bias robust M -estimates of scale for positive random variables. 91a:62092
- Martinez, José Raúl An optimal property of the (r, k) class estimators. 91j:62098
- (McCollagh, Peter) *see* del Pino, Guido E., 91b:62137
- McLeish, D. L. *see* Small, Christopher G., 91k:62005
- Melamed, I. A. *see* Klebanov, L. B., 91m:62148
- Michalek, J. H. Detection of changes in a simple regression model of a random process. (Russian summary) 91d:62143
- Mukhopadhyay, Nitis *see* Kuo, Lynn, 91j:62118
- Nair, Vijayan N. (with Wang, Paul C. C.) Maximum likelihood estimation under a successive sampling discovery model. 91a:62027
- Nikulin, M. S. (with Voinov, V. G.) A chi-square goodness-of-fit test for exponential distributions of the first order. 91j:62041
- Nordström, Kenneth (with Fellman, Johan) Characterizations and dispersion-matrix robustness of efficiently estimable parametric functionals in linear models with nuisance parameters. 91d:62098
- Nychka, Douglas *see* Silverman, Bernard W.; et al., (Not in MR)
- Pérez, Rigoberto Study of unbiased estimators of some uncertainty measures. (Spanish. English summary) (Not in MR)
- Perron, François (with Giri, Narayan C.) On the best equivariant estimator of mean of a multivariate normal population. 91c:62144
- del Pino, Guido E. The unifying role of iterative generalized least squares in statistical algorithms. 91b:62137
- Pollock, D. S. G. The misspecification of ARMA models. 91a:62257
- Prabhu-Ajgaonkar, S. G. *see* Deshpande, M. N., 91c:62020
- Qu, Yin Sheng (with Beck, G. J.; Williams, G. W.) Pólya-Eggenberger distribution: parameter estimation and hypothesis tests. 91g:62013
- Rama Krishnaiah, Y. S. *see* Rao, M. Sudhakara, 91f:60063
- Rao, M. Sudhakara (with Rama Krishnaiah, Y. S.) Weak convergence of empirical processes of strong mixing sequences under estimation of parameters. 91f:60063
- Rohatgi, Vijay K. *see* Krishnamoorthy, K., 91c:62141
- Rukhin, Andrew L. (with Kuo, Lynn; Dey, Dipak K.) A class of minimax estimators of the scale parameter of the uniform distribution. 91c:62018
- *see also* Hsieh, H. K.; et al., 91b:62010 and Skibinsky, Morris, 91k:62011
- Sai, Shido (with Taguri, Masaaki) Optimum stratification based on a concomitant variable and its application to the current statistics of commerce. (Not in MR)
- Saleh, A. K. Md. Ehsanes *see* Jurečková, Jana, 91d:62032
- Sant'Anna, A. P. Generalized inverses in recursive least squares estimation with multiple additional observations. 91b:62138
- Sarkar, Nityananda Comparisons among some estimators in misspecified linear models with multicollinearity. 91b:62140
- Schaffris, B. (with Toutenburg, H.) Weighted mixed regression. 91f:62121
- Schwandtke, Annette Some remarks on stereological estimation of particle densities. 91a:60039
- Seneta, Eugene *see* Madan, Dilip, 91a:60048
- Sharma, Divakar *see* Kumar, Somesh, 91c:62017
- Shukla, Govind *see* Chaturvedi, Anoop, 91a:62160
- Silverman, Bernard W. (with Jones, Michael C.; Nychka, Douglas; Wilson, J. D.) A smoothed EM approach to indirect estimation problems, with particular reference to stereology and emission tomography. (Not in MR)
- Singh, Bahadur (with Wright, F. T.) Testing for and against an order restriction in mixed-effects models. 91c:62194
- Singh, Balvir *see* Srivastava, M. S., 91a:62299
- Skibinsky, Morris (with Rukhin, Andrew L.) Admissible estimators of binomial probability and the inverse Bayes rule map. 91k:62011
- Small, Christopher G. (with McLeish, D. L.) Projection as a method for increasing sensitivity and eliminating nuisance parameters. 91k:62005
- Smith, Richard L. *see* Davison, A. C., 91k:62048
- Spruill, Carl Optimal designs for multivariate interpolation. 91b:62099
- Srivastava, M. S. (with Singh, Balvir) Bootstrapping in multiplicative models. 91a:62299
- Subba Rao, S. *see* Hariharachandra, K., 91b:62043
- Taguri, Masaaki *see* Sai, Shido, (Not in MR)
- Takeuchi, Kei *see* Akahira, Masafumi, 91c:62004
- Thompson, M. E. *see* Godambe, V. P., 91f:62004
- Toutenburg, H. *see* Schaffris, B., 91f:62121
- Trimble, S. Y. (with Wells, Jim; Wright, F. T.) Superadditive functions and a statistical application. 91a:62019
- Tsui, Kam-Wah *see* Li, Fanny, 91j:62071 and Madi, Mohamed, 91m:62015
- Varga, Stefan Quadratic estimations in mixed linear models. (Slovak summary) 91m:62129
- Vélez Ibarrola, Ricardo (with Ibarrola, Pilar) Optimal invariant estimation of a scale parameter of a continuous time stochastic process. 91c:62287
- Voinov, V. G. *see* Nikulin, M. S., 91f:62041
- Walkowiak, Ryszard *see* Kozłowska, Maria, (Not in MR)
- Wang, Jing Long *see* Gao, Dao De, 91c:62059
- Wang, Paul C. C. *see* Nair, Vijayan N., 91a:62027
- Weeks, Daniel E. (with Lange, Kenneth) Trials, tribulations, and triumphs of the EM algorithm in pedigree analysis. 91c:92039
- Wells, Jim *see* Trimble, S. Y.; et al., 91a:62019
- Werneck, K.-D. Computergerechte statistische Verfahren: jackknife, bootstrap und cross-validation—eine Einführung. [Statistical methods suitable for computers: jackknife, bootstrap and cross-validation—an introduction] (*see* 91b:62005)
- Werner, Hans-Joachim¹ On inequality constrained generalized least-squares estimation. 91c:62196
- Williams, G. W. *see* Qu, Yin Sheng; et al., 91g:62013
- Wilson, J. D. *see* Silverman, Bernard W.; et al., (Not in MR)
- Wong, Chi Song Linear models in a general parametric form. 91a:62174
- Wright, F. T. *see* Trimble, S. Y.; et al., 91a:62019 and Singh, Bahadur, 91c:62194
- Zaigraev, A. Ya. Quasiminimax estimates for unknown parameters and optimal designs for a regression experiment in a Hilbert space. (Russian) 91k:62067
- Zamar, Ruben H. *see* Martin, R. Douglas, 91a:62092
- Zou, Guo Hua (with Liu, Jin Quan) Robustness of C-Z type estimators with regard to loss functions. (Chinese. English summary) 91f:62015

62F11 Small sample properties of estimators

- Consul, P. C. (with Kamoye, Kiya Felix) Minimum variance unbiased estimation for the Lagrange power series distributions. 91c:62028
- Frydenberg, Morten (with Lauritzen, Steffen L.) Decomposition of maximum likelihood in mixed graphical interaction models. 91b:62034
- Kamoye, Kiya Felix *see* Consul, P. C., 91c:62028
- Lauritzen, Steffen L. *see* Frydenberg, Morten, 91b:62034
- Lutsenko, M. M. A game-theoretic method for estimating a parameter of a binomial law from the results of a single observation. 91a:62073
- Plachky, Detlef Characterization of MVU estimators in Bernoulli experiments. 91b:62035
- Slagh, Radhey S. *see* Srivastava, Virendra Kumar, 91b:62036
- Srivastava, Virendra Kumar (with Singh, Radhey S.) Uniformly minimum variance unbiased estimator of efficiency ratio in estimation of normal population mean. 91b:62036

Items with secondary classifications in 62F11

- Baksalary, Jerzy K. (with Dobek, Anita; Gnot, Stanisław) Characterizations of two-way layouts from the point of view of variance component estimation in the corresponding mixed linear models. 91j:62107
- Basu, Asit P. *see* Rigdon, Steven E., 91b:62173
- Bhattacharya, Samir K. *see* Tyagi, Ravinder K., 91j:62142
- Bhattacharya, B. B. *see* Richardson, Gary D., 91b:62123
- Bhattacharya, Sikha *see* Mukhopadhyay, Parimal, 91a:62026
- Carter, R. A. L. (with Srivastava, M. S.; Srivastava, Virendra Kumar; Ullah, Aman) Unbiased estimation of the MSE matrix of Stein-rule estimators, confidence ellipsoids, and hypothesis testing. 91f:62091
- Dobek, Anita *see* Baksalary, Jerzy K.; et al., 91j:62107
- Dodunokova, Rositsa On the minimax property of the linear minimax estimator in a stochastic model. (Russian. English summary) 91a:62231
- Ferentinos, K. K. Corrigenda: "Shortest confidence intervals and UMVU estimators for families of distributions involving truncation parameters" [Metrika 34 (1987), no. 6, 341–359; MR 90h:62061]. 91b:62062
- Ghosh, Malay (with Mantelle, Lily Llorens) Unbiased estimation for two parameter exponentials under type I censoring with replacement. 91a:62265
- Gnot, Stanisław *see* Baksalary, Jerzy K.; et al., 91j:62107
- Kremers, Walter K. Completeness and unbiased estimation in sequential multinomial sampling. 91f:62135
- Kubokawa, Tatsuya Estimation of the common mean and its applications. (Japanese) 91j:62029
- Kushwaha, K. S. *see* Singh, Housila Prasad, 91a:62030
- Liski, Erkki P. Comparing stochastically restricted linear estimators in a regression model. 91b:62132
- Maekawa, Koichi *see* Taniguchi, Masanobu, 91j:62127
- Mantelle, Lily Llorens *see* Ghosh, Malay, 91a:62265
- Mukhopadhyay, Parimal (with Bhattacharya, Sikha) On estimating the variance of a finite population under a superpopulation model. 91a:62026
- Naik-Nimbalkar, U. V. *see* Subramanyam, A., 91b:62178
- Özürk, Fikri Multicollinearity problem in the linear models; some interpretations and suggestions. (Turkish. English summary) 91a:62173
- Pázmán, Andrej Almost exact distributions of estimators. I. Low-dimensional nonlinear regression. 91m:62116
- Almost exact distributions of estimators. II. Flat nonlinear regression models. 91m:62117
- Radavičius, M. The rate of convergence to the normal law of the maximum likelihood estimator of a parameter in a density. 91m:62042

- Richardson, Gary D. (with Bhattacharyya, B. B.) Consistent L_1 -estimators in nonlinear regression for a noncompact parameter space. 91b:62123
- Rigdon, Steven E. (with Basu, Asit P.) Mean squared errors of estimators of the intensity function of a nonhomogeneous Poisson process. 91b:62173
- Rüschendorf, Ludger Estimation in random translation models. 91b:62056
- Sakis, R. M. Retransformation bias: a look at the Box-Cox transformation to linear balanced mixed ANOVA models. 91j:62100
- Sapra, Sunil K. Nonlinear instrumental variable estimation with exact linear restrictions. 91c:62063
- Sen, Pranab Kumar see Sinha, Bikas Kumar, 91b:62020
- Singh, Housila Prasad (with Kushwaha, K. S.) A class of almost unbiased dual to product estimators in sample survey. 91a:62030
- Sinha, Bikas Kumar (with Sen, Pranab Kumar) On averaging over distinct units in sampling with replacement. 91b:62020
- Srivastava, M. S. see Carter, R. A. L.; et al., 91b:62091
- Srivastava, Virendra Kumar see Carter, R. A. L.; et al., 91b:62091
- Subramanyam, A. (with Naik-Nimbalkar, U. V.) Optimal unbiased statistical estimating functions for Hilbert space valued parameters. 91b:62178
- Taniguchi, Masanobu (with Mackawa, Koichi) Asymptotic expansions of the distributions of statistics related to the spectral density matrix in multivariate time series and their applications. 91b:62127
- Tyagi, Ravinder K. (with Bhattacharya, Samir K.) A note on the MVU estimation of reliability for the Maxwell failure distribution. 91j:62142
- Ullah, Aman see Carter, R. A. L.; et al., 91b:62091
- Wei, Lai Sheng The convergence rates of empirical Bayes estimation for parameters of two-sided truncation distribution families. 91m:62011
- Zelterman, Daniel On tests for qualitative interactions. 91a:62276
- ### 62F12 Asymptotic properties of estimators
- Althai, B. U. (with Nagnur, B. N.) Second order efficiency of the BAN-estimators for the multinomial family. 91j:62032
- Amari, Shun-ichi Differential geometrical method in asymptotics of statistical inference. (see 91j:60004)
- Babu, Gatti Jagesh (with Rao, Calyampudi Radhakrishna) Estimation of the reciprocal of the density quantile function at a point. 91b:62037
- Bedański, T. On sensitivity of Cox's estimator. 91d:62028
- Biláček, Jaromír Asymptotical normality of k th order jackknife. 91b:62053
- Carroll, Raymond J. see Stefanski, Leonard A., (91b:62003)
- Chamberlin, S. R. (with Sprott, D. A.) Linear systems of pivots and associated pivotal likelihoods with applications. 91c:62029
- Cheng, R. C. H. (with Stephens, M. A.) A goodness-of-fit test using Moran's statistic with estimated parameters. 91a:62074
- Chitashvili, R. Ya. see Lazrieva, N. L.; et al., 91j:62035
- Cohen, Jonathan P. Fitting extreme value distributions to maxima. 91c:62065
- Dekkers, Arnold L. M. (with de Haan, Laurens) On the estimation of the extreme-value index and large quantile estimation. 91b:62054
- Genon-Catalot, Valentine (with Laredo, Catherine F.) An asymptotic sufficiency property of observations related to the first hitting times of a diffusion. 91j:62023
- Gnedenko, B. V. Estimating the unknown parameters of a distribution with a random number of independent observations. (Russian) 91j:62033
- de Haan, Laurens see Dekkers, Arnold L. M., 91b:62054
- Haberman, Shelby J. Convexity and estimation. 91a:62075
- Habib, Mohamed Gamal On root- n consistency of estimators for nuisance parameters of asymptotic optimal tests: the i.i.d. case. (Not in MR)
- van der Hoeck, G. see Paardekooper, H. B. A.; et al., 91f:62061
- Hooda, B. K. (with Singh, Netra Pal; Singh, Umed) Estimates of the parameters of type-II extreme value distribution from censored samples. (Not in MR)
- Hosoya, Yuzo Information amount and higher-order efficiency in estimation. 91j:62034
- Hrachovina, Ervin Note on uniform consistency of f -estimators of abstract parameters. 91c:62066
- Khakhubia, Ts. G. Limit theorems for the joint distribution of maximum likelihood estimates for change points. (Russian) 91m:62044
- Kim, Jeankyung (with Pollard, David) Cube root asymptotics. 91f:62059
- Klaassen, Chris A. J. The asymptotic spread of estimators. 91b:62055
- Kukush, A. G. Asymptotic properties of an estimator for an infinite-dimensional parameter of a nonlinear regression. (Russian) 91a:62076
- Laredo, Catherine F. see Genon-Catalot, Valentine, 91j:62023
- Lazrieva, N. L. (with Torondzhadze, T. A.) Asymptotic properties of the maximum likelihood estimator, Ito-Ventzel's formula for semimartingales and its application to the recursive estimation in a general scheme of statistical models. (see 91j:60004)
- (with Torondzhadze, T. A.) Asymptotic properties of an M -estimate in a general statistical experiment scheme. (Russian) 91b:62031
- (with Torondzhadze, T. A.; Chitashvili, R. Ya.) On asymptotic estimation theory with perturbation of a model in the general scheme of a statistical experiment. (Russian) 91j:62035
- Liang, Wen Ch'1 Strong consistency of constrained maximum likelihood estimator of finite normal mixture. 91c:62030
- Melamed, I. A. Asymptotic behavior of some statistical estimates in a scheme for estimating parameters on the basis of a sample of random size. (Russian. English and Georgian summaries) 91f:62060
- Mi, Jie Notes on the MLE of correlation coefficient in meta analysis. (Not in MR)
- Nagnur, B. N. see Althai, B. U., 91j:62032
- Paardekooper, H. B. A. (with Steens, H. B. A.; van der Hoeck, G.) A note on properties of iterative procedures of asymptotic inference. 91f:62061
- Pfanzagl, Johann Bounds for the asymptotic efficiency of estimators based on functional contractions; applications to the problem of estimation in the presence of random nuisance parameters. (see 91j:60004)
- Pollard, David see Kim, Jeankyung, 91f:62059
- Rao, Calyampudi Radhakrishna see Babu, Gatti Jagesh, 91b:62037
- Ronchetti, Elvezio Small sample asymptotics: a review with applications to robust statistics. (Not in MR)
- Seaman, John W., Jr. (with Young, Dean Max) A note on some aspects of Pitman nearness. 91a:62077
- Senoussi, R. Problème d'identification dans le modèle de Cox. (English summary) [An identification problem in Cox's model] 91b:62032
- Statistique asymptotique presque sûre de modèles statistiques convexes. (English summary) [Almost sure asymptotic statistics of convex statistical models] 91m:62045
- Singh, Netra Pal² see Hooda, B. K.; et al., (Not in MR)
- Singh, Umed see Hooda, B. K.; et al., (Not in MR)
- Sprott, D. A. see Chamberlin, S. R., 91c:62029
- Steens, H. B. A. see Paardekooper, H. B. A.; et al., 91f:62061
- Stefanski, Leonard A. (with Carroll, Raymond J.) Structural logistic regression measurement error models. (see 91b:62003)
- Stephens, M. A. see Cheng, R. C. H., 91a:62074
- Torondzhadze, T. A. see Lazrieva, N. L.; et al., 91j:62035; 91b:62031 and (91j:60004)
- Wefelmeyer, W. A generalization of asymptotically linear estimators. 91m:62046
- Whitney, Paul Approximation and information topologies. 91a:62078
- Young, Dean Max see Seaman, John W., Jr., 91a:62077
- Items with secondary classifications in 62F12
- Akaike, Masafumi (with Takeuchi, Kei) Third order asymptotic efficiency of the sequential maximum likelihood estimation procedure. 91b:62063
- Amemiya, Yasuo Instrumental variable estimation of the nonlinear measurement error model. (see 91b:62003)
- Amirkhalkhal, Saleh (with Rao, U. L. Gouranga) On the relative small sample properties of alternative estimators for regression with autocorrelated nonnormal errors. (Not in MR)
- Becker, N. G. (with Heyde, C. C.) Estimating population size from multiple recapture experiments. 91b:62029
- Blacher, René Loi asymptotique des estimateurs des moindres carrés en régression linéaire. (English summary) [Asymptotic distribution of least-squares estimators in linear regression] 91a:62158
- Buonaccorsi, John P. Errors-in-variables with systematic biases. 91a:62159
- Celeux, Gilles (with Diebolt, Jean) Une version de type recuit simulé de l'algorithme EM. (English summary) [A simulated-annealing-type EM algorithm] 91a:62062
- Čepar, Drage (with Radaji, Zoran) Some asymptotic behaviour of the bootstrap estimates on a finite sample. 91a:62021
- Chao, R. see Taniguchi, Masanobu; et al., 91a:62249
- Chiu, Shean-Tsung On the asymptotic distributions of bandwidth estimates. 91b:62064
- Dahlhaus, Rainer Efficient parameter estimation for self-similar processes. 91f:62142
- (with Pötscher, B. M.) Convergence results for maximum likelihood type estimators in multivariate ARMA models. II. 91b:62176
- Danielyan, E. A. see Liese, Friedrich, 91c:60027
- Dhar, Sunil K. Functional least squares estimators in an additive effects outliers model. 91c:62230
- DiCiccio, Thomas J. (with Romano, Joseph P.) On adjustments based on the signed root of the empirical likelihood ratio statistic. 91b:62050
- Diebolt, Jean see Celeux, Gilles, 91a:62062
- El-Helwawy, Abdalla T. (with Hassan, Tawfik) A note on the Wald, Lagrangian multiplier and likelihood ratio tests when the information matrix is singular. (Not in MR)
- Eubank, R. L. (with Hart, Jeffrey D.; Speckman, Paul) Trigonometric series regression estimators with an application to partially linear models. 91a:62152
- Fan, Jian Qing see Fang, Kai Tai, (91c:62006)
- Fan, Jin Cheng see Wu, Ke Fa; et al., 91b:62107
- Fang, Kai Tai (with Fan, Jian Qing) Asymptotic properties of estimation and hypothesis testing for distributions with rotational symmetries [Dongbei Shuxue 4 (1988), no. 4, 379–388; MR 90d:62068]. (see 91c:62006)
- Feuerberger, Andrey An efficiency result for the empirical characteristic function in stationary time-series models. (French summary) 91j:62129
- From, Steven G. Optimal spacing of quantiles for the estimation of the mixing parameters in a mixture of two exponential distributions. 91c:62021
- Gadzhiev, A. G. Statistical estimates in linear regression models with correlated errors of observation. 91d:62092
- Gao, Hong Ye Identification and hypothesis testing on ARIMA (p, d, q) models. 91b:62136
- Gay, R. see Heyde, C. C., 91a:62232
- Gill, P. S. see Tiku, M. L., 91a:62070
- Goégan, D. (with Pham Dinh Tuan) A note on the estimation of the parameters of the diagonal bilinear model by the method of least squares. 91g:62051a
- (with Pham Dinh Tuan) Correction note: "A note on the estimation of the parameters of the diagonal bilinear model by the method of least squares". 91g:62051b
- Hall, Alastair Amendments and corrections: "Testing for a unit root in the presence of moving average errors" [Biometrika 76 (1989), no. 1, 49–56; MR 90g:62218]. 91a:62242
- Hart, Jeffrey D. see Eubank, R. L.; et al., 91a:62152
- Hassan, Tawfik see El-Helwawy, Abdalla T., (Not in MR)
- Heyde, C. C. (with Gay, R.) On asymptotic quasi-likelihood estimation. 91a:62232
- see also Becker, N. G., 91b:62029
- Hipp, Christian Efficient estimators for ruin probabilities. 91b:62267
- Hou, Yu Hua (with Zhu, Yan Tang) M -estimators of parameters and their asymptotic properties in mixed regression models. (Chinese. English summary) 91f:62149
- Jinadasa, K. G. The information matrix of a sample of observations with missing data from a multivariate normal distribution with a covariance structure. 91b:62051
- Kafkas, Demetrios G. Strong consistency of least squares estimators in linear models. 91b:62131
- Kanter, Marek Discrimination distance bounds and statistical applications. 91m:62041
- Karunamuni, Rohana Some improvements on empirical Bayes testing in Lebesgue-exponential families. 91c:62015
- Katsiyba, O. A. see Zhdanov, A. I., 91i:93131
- Kharazishvili, A. B. On the existence of consistent estimators for strongly separable families of probability measures. (Russian) 91g:62008

- Kim, Hae Kyung The strong consistency of nonlinear least squares estimators. 91c:62163
- Knight, Keith Limit theory for autoregressive-parameter estimates in an infinite-variance random walk. (French summary) 91b:62042
- Krishnaiah, Paruchuri R. *see* Taniguchi, Masanobu; et al., 91a:62249
- Le Breton, Alain (with Musiela, M.) Order of convergence of regression parameter estimates in models with infinite variance. 91a:62170
- Lepskii, O. V. Asymptotically minimax estimation with prescribed properties. 91d:62007
- Li, Yao Wu *see* Wu, Ke Fa; et al., 91b:62107
- Liese, Friedrich (with Danielyan, E. A.) An estimator for the variance in the central limit theorem for dependent random variables. 91c:60027
- Merhar, Neri (with Ziv, Jacob) On universally efficient estimation of the first-order autoregressive parameter and universal data compression. 91b:62124
- Milhand, Xavier Un M estimateur pour un processus autoregressif non explosif. Quelques propriétés asymptotiques. [An M -estimator for a nonexplosive autoregressive process. Some asymptotic properties] 91m:62164
- (with Raugi, Albert) Étude de l'estimateur du maximum de vraisemblance dans le cas d'un processus autoregressif: convergence, normalité asymptotique, vitesse de convergence. (English summary) [Study of the maximum likelihood estimator in the case of an autoregressive process: convergence, asymptotic normality, rate of convergence] 91c:62076
- Musiela, M. *see* Le Breton, Alain, 91a:62170
- Nakamura, Tsuyoshi Corrected score function for errors-in-variables models: methodology and application to generalized linear models. 91c:62179
- Naridi, William Edgeworth expansions for bootstrapping regression models. 91b:62135
- Nguyen, Hung T. *see* Pham Dinh Tuan, 91c:62258
- Novotná, Jana M -estimators and gnostical estimators of location. (Russian summary) 91c:62076
- Pham Dinh Tuan (with Nguyen, Hung T.) Strong consistency of the maximum likelihood estimators in the change-point hazard rate model. 91c:62258
- *see also* Guégan, D., 91g:62051a and 91g:62051b
- Poskitt, D. S. Estimation and structure determination of multivariate input output systems. 91j:62135
- Pötscher, B. M. *see* Dahlhaus, Rainer, 91b:62176
- Radali, Zoran *see* Čepar, Drago, 91a:62021
- Radavičius, M. The rate of convergence to the normal law of the maximum likelihood estimator of a parameter in a density. 91m:62042
- Rao, U. L. Gouranga *see* Amirkhalkhal, Saleh, (Not in MR)
- Raugi, Albert *see* Milhand, Xavier, 91c:62076
- Romano, Joseph P. *see* DiCiccio, Thomas J., 91f:62050
- Rublik, Frantisek On testing hypotheses approximable by cones. (Russian summary) 91a:62055
- Schnell, Daniel J. A likelihood ratio test for error covariance specification in nonlinear measurement error models. (see 91b:62003)
- Sen, Pall (with Srivastava, Ramesh Chandra³) Parameter estimation for the compartmental model. 91b:62105
- Shao, Jun¹ Asymptotic theory in heteroscedastic nonlinear models. 91c:62183
- Speckman, Paul *see* Eubank, R. L.; et al., 91a:62152
- Srivastava, Ramesh Chandra³ *see* Sen, Pall, 91b:62105
- Stone, Charles J. Uniform error bounds involving log-spline models. 91b:62076
- Large-sample inference for log-spline models. 91m:62073
- Svensson, Åke Asymptotic estimation in counting processes with parametric intensities based on one realization. 91m:62158
- Sweeting, T. J. On conditional weak convergence. 91a:60008
- Szidő, László Limiting distributions of random symmetric polynomials of fifth degree. 91c:60028
- Takenuchi, Kei *see* Akahira, Masafumi, 91g:62063
- Taniguchi, Masanobu (with Krishnaiah, Paruchuri R.; Chao, R.) Normalizing transformations of some statistics of Gaussian ARMA processes. 91a:62249
- Tiku, M. L. (with Gill, P. S.) Modified maximum likelihood estimators for the bivariate normal based on type II censored samples. 91a:62070
- Toyooka, Yasuyuki No estimation effect up to the second-order for the covariance parameter of GLSE and MLE in a regression with a general covariance structure. 91b:62090
- van der Vaart, A. W. On the asymptotic information bound. 91a:62116
- Veres, Sándor M. Relations between information criteria for model-structure selection. III. Strong consistency of the predictive least squares criterion. 91g:62076
- Withers, C. S. Shrinkage estimates based on orthogonal decomposition of the sample space. 91m:62099
- Wu, Ke Fa (with Fan, Jin Cheng; Li, Yao Wu) Strongly consistent estimates for multivariate linear relationship models. (Chinese. English summary) 91b:62107
- Wu, Yao Hua¹ Variable selection in linear median regression. (Chinese) 91g:62053
- Xia, Ming Yuan Consistency of LS estimators of regression coefficients in linear models. (Chinese) 91c:62188
- Zhdanov, A. I. (with Katsyuba, O. A.) Strong consistency of estimates made by the method of orthogonal projections. 91i:93131
- Zhu, Yan Tang *see* Hou, Yu Hua, 91f:62149
- Ziv, Jacob *see* Merhar, Neri, 91b:62124
- Bolfarine, Helene *see* Achcar, Jorge Alberto; et al., (Not in MR)
- Bruno, G. Using pseudodensities for the Bayesian testing of uniformity hypotheses for a pseudorandom number sample. (Italian. English summary) (Not in MR)
- Bunke, Olaf Bayesian inference in semiparametric problems. (see 91j:60004)
- Calabria, R. (with Guida, M.; Pulcini, G.) Bayes estimation of prediction intervals for a power law process. 91k:62033
- (with Pulcini, G.) Bayes estimation in exponential censored samples with incomplete information. (Not in MR)
- Chion, Paul (with Georgiakodis, F. A.) On the choice of a Dirichlet prior distribution for multinomial distribution. (Not in MR)
- Consonni, Guido (with Veronese, Piero) A note on coherent invariant distributions as noninformative priors for exponential and location-scale families. 91d:62029
- Consul, P. C. *see* Shoukri, M. M., (Not in MR)
- Diebolt, Jean (with Robert, Christian) Estimation des paramètres d'un mélange par échantillonnage bayésien. (English summary) [Estimation of the parameters of a mixture by Bayesian sampling] 91j:62036
- Doksum, Kjell A. (with Lo, Albert Y.) Consistent and robust Bayes procedures for location based on partial information. 91a:62080
- Fong, Duncan K. H. A Bayesian approach to the comparison of two means. 91a:62061
- Geng, Zhi (with Asano, Choochiro) Bayesian estimation methods for categorical data with misclassifications. 91a:62082
- Georgiakodis, F. A. *see* Chion, Paul, (Not in MR)
- Ghitany, M. E. Estimation of the scale parameter of gamma model in the presence of outlier observations. 91d:62030
- Ghosh, Malay (with Sinha, Bimal Kumar) Empirical and hierarchical Bayes competitors of preliminary test estimators in two sample problems. 91b:62056
- Girón, F. J. *see* Bernardo, J.-M., 91a:62079
- Groenewald, P. C. N. (with de Waal, D. J.) Bayesian tests for some precise hypotheses on multi-normal means. 91d:62031
- Guida, M. *see* Calabria, R.; et al., 91k:62033
- Gupta, Arjun K. *see* Peña, Edsel A., 91b:62047
- Hasegawa, Hikaru On some comparisons between Bayesian and sampling theoretic estimators of a normal mean subject to an inequality constraint. 91g:62024
- Hjort, Nils Lid Semi-parametric Bayes estimators. (see 91j:60004)
- Howlader, H. A. (with Weiss, Günter M. T.) On Bayesian estimation of the Cauchy parameters. 91c:62067
- Jurečková, Jana (with Saleh, A. K. Md. Ehsanes) Robustified version of Stein's multivariate location estimation. 91d:62032
- Kadane, Joseph B. *see* Kass, Robert E.; et al., 91a:62083 and Wasserman, Larry Alan, 91f:62048
- Kass, Robert E. (with Tierney, Luke; Kadane, Joseph B.) Approximate methods for assessing influence and sensitivity in Bayesian analysis. 91a:62083
- Kulhavy, Rudolf Recursive Bayesian estimation under memory limitation. 91b:62057
- Kunte, Sudhakar (with Rattihalli, R. N.) Bayes set estimators for the mean of a multivariate normal distribution and rate of convergence of their posterior risk. 91b:62046
- Lahiri, P. (with Tiwari, Ram C.) Empirical Bayes rank order estimation with the Dirichlet prior. 91k:62034
- Lingappanah, Giri S. Bayes prediction of maxima and minima in exponential life tests in the presence of outliers. 91f:62062
- Inference in life tests based on a Weibull model when an outlier is present. (Not in MR)
- Lo, Albert Y. *see* Doksum, Kjell A., 91a:62080
- Maryak, John L. (with Spall, James C.) Weak convergence and the exponential rate of concentration for posterior density functions. 91f:62063
- Mortera, Julia (with San Martini, Aristide) Comparison of proportions with asymmetric prior information. (Not in MR)
- Papadopoulos, Alex S. A hierarchical approach to the study of the exponential failure model. (Not in MR)
- Patel, N. P. *see* Patel, S. R., (Not in MR)
- Patel, S. R. (with Patel, N. P.) On shrinkage type Bayes estimator of scale parameter of Weibull distribution. (Italian summary) (Not in MR)
- Peña, Edsel A. (with Gupta, Arjun K.) Bayes estimation for the Marshall-Olkin exponential distribution. 91b:62047
- Pepple, Patricia A. Hierarchical Bayes estimation of normal variances with application to a random effect model. 91j:62037
- Pericchi, Luis Raúl *see* Achcar, Jorge Alberto; et al., (Not in MR)
- Pettit, L. I. (with Young, K. D. S.) Measuring the effect of observations on Bayes factors. (Not in MR)
- The conditional predictive ordinate for the normal distribution. 91c:62068
- Polson, Nick (with Wasserman, Larry Alan) Prior distributions for the bivariate binomial. (Not in MR)
- Pulcini, G. *see* Calabria, R.; et al., 91k:62033 and (Not in MR)
- Rattihalli, R. N. *see* Kunte, Sudhakar, 91b:62046
- Robert, Christian *see* Diebolt, Jean, 91j:62036
- Rotondi, R. *see* Betrò, Bruno, (Not in MR)
- Saleh, A. K. Md. Ehsanes *see* Jurečková, Jana, 91d:62032
- Salem, Samia A. Bayesian prediction for Weibull distribution based on doubly censored samples. (Not in MR)
- Some Bayesian prediction distributions based on exponential and random sample size. (Not in MR)
- San Martini, Aristide *see* Mortera, Julia, (Not in MR)
- Shaban, S. A. Bayesian estimators of reliability for the inverse Gaussian distribution. 91a:62084
- Shalaby, Osman Aly Bayesian inference of truncated exponential distribution and reliability estimation. (Not in MR)
- Shoukri, M. M. (with Consul, P. C.) Bayesian analysis of a generalized Poisson distribution. (Not in MR)
- Sinha, Bimal Kumar *see* Ghosh, Malay, 91b:62056
- Spall, James C. *see* Maryak, John L., 91f:62063
- Steece, Bert M. Leverage in Bayesian regression. 91b:62058
- Stroud, T. W. F. Asymptotic mean squared error of shrinkage estimators. 91a:62085

62F15 Bayesian inference

- Tan, W. Y. (with Balakrishnan, Narayanaswamy) Bayesian approach to robust comparison of two means based on asymmetric type-II censored samples. **91b:62059**
- Tanner, Martin A. *see* Wei, Greg C. G., (Not in MR)
- Tierney, Luke *see* Kass, Robert E.; et al. **91a:62083**
- Tiwari, Ram C. *see* Lahiri, P., **91k:62034**
- Tyagi, Ravinder K. (with Bhattacharya, Samir K.) Bayes estimator of the Maxwell's velocity distribution function. (Italian summary) (Not in MR)
- Veronese, Piero *see* Consonni, Guido, **91d:62029**
- de Waal, D. J. *see* Groenewald, P. C. N., **91d:62031**
- Wasserman, Larry Alan (with Kadane, Joseph B.) Bayes' theorem for Choquet capacities. **91i:62048**
- *see also* Polson, Nick, (Not in MR)
- Wei, Greg C. G. (with Tanner, Martin A.) Calculating the content and boundary of the highest posterior density region via data augmentation. (Not in MR)
- Weiss, Günter M. T. *see* Howlader, H. A., **91e:62067**
- Young, K. D. S. *see* Pettit, L. I., (Not in MR)
- Items with secondary classifications in 62F15
- Awan, Hayat Muhammad The detection of change point in a switching multivariate regression model. A Bayesian approach. (Not in MR)
- Bagchi, Parthasarathy (with Draper, Norman R.; Guttman, Irwin) Bayesian assessment of assumptions of regression analysis. **91b:62117**
- Banks, David L. Histopline smoothing the Bayesian bootstrap. **91f:62081**
- (Barnard, G. A.) *see* Press, S. James, **91i:62008**
- (Bayes, Thomas) *see* Press, S. James, **91i:62008**
- Berger, James O. (with O'Hagan, Anthony) Ranges of posterior probabilities for unimodal priors with specified quantiles. **91f:62013**
- *see also* Delampady, Mohan, **91f:62008**
- Berry, J. Calvin Bayes minimax estimation of a Bernoulli p in a restricted parameter space. **91e:62056**
- Bhattacharya, Samir K. (with Saxena, Ashok K.) Multivariate modified Bessel distribution. **91e:62130**
- (with Tyagi, Ravinder K.) Bayesian reliability analysis based on first few observations from the two-parameter exponential distribution. (Not in MR)
- Bofinger, Eve Posterior probability of correct selection. **91f:62044**
- Bolstad, William M. The efficiency of dynamic linear model estimators applied to a linearly aggregated time series. **91e:62228**
- Broemeling, Lyle D. *see* Cook, Peyton; et al., (Not in MR)
- Carlin, J. B. An algorithmic approach to Bayesian linear model calculations. (Not in MR)
- Carota, Cinzia (with Corielli, Francesco) Some effects of choosing finitely additive priors when the base model belongs to the truncated exponential family. (Italian. English summary) **91f:62007**
- Chanda, Kamal C. Asymptotic expansions of the probabilities of misclassification for k -NN discriminant rules. **91k:62058**
- Chen, Qing Hua Bayes estimation of reliability for a series stress-strength system in the BVE case. (Chinese. English summary) **91c:62091**
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- Evans, Michael John (with Gilula, Zvi; Guttman, Irwin) Latent class analysis of two-way contingency tables by Bayesian methods. **91a:62141**
- Fieger, Werner *see* Eichenauer-Herrmann, Jürgen, **91a:62018**
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- Fong, Wai Kwan A Bayesian approach to successive sampling with partial replacement of units on two occasions. **91m:62020**
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- Gharaei, Mohammad *see* Cook, Peyton; et al., (Not in MR)
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- Kadane, Joseph B. *see* Tierney, Luke; et al., **91c:62015**
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- Morales González, Domingo *see* Quesada Paloma, Vicente; et al., **91e:62259**
- Morgan, P. B. *see* Cressie, Noel, **91e:62046**
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- O'Hagan, Anthony *see* Berger, James O., **91f:62013**
- Pardo, Leandro *see* Quesada Paloma, Vicente; et al., **91e:62259**
- Parsian, Ahmad On the admissibility of an estimator of a normal mean vector under a linear loss function. **91m:62097**
- Pázmán, Andrej A sufficient statistic and a nonstandard linearization in nonlinear regression. **91c:62058**
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- Prasad, B. (with Singh, Radhey S.) Estimation of prior distribution and empirical Bayes estimation in a nonexponential family. **91a:62015**
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- Quesada Paloma, Vicente (with Pardo, Leandro; Morales González, Domingo) Sequential estimation of survival functions with neutral-to-the-right priors. (Spanish. English summary) **91e:62259**
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- Shaked, Moshe (with Singpurwalla, Nozer D.) A Bayesian approach for quantile and response probability estimation with applications to reliability. **91a:62273**
- Sharples, Linda D. Identification and accommodation of outliers in general hierarchical models. **91k:62036**
- Singh, Radhey S. *see* Prasad, B., **91a:62015**
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- Sinha, Suresh Kumar Bayesian inference about the prediction/credible intervals and reliability function for lognormal distribution. **91a:62274**
- Sirazhdinov, S. Kh. (with Vakhobov, V.) A Bayesian single sampling plan that is based on linear costs and A. N. Kolmogorov's distribution. I. (Russian) **91f:62162**
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- Targhetta, M. Luisa A note on a mixing problem and the Schützenberger inequality. **91j:62031**
- Tierney, Luke (with Kass, Robert E.; Kadane, Joseph B.) Approximate marginal densities of nonlinear functions. **91c:62015**
- Tiwari, Ram C. *see* Wells, Martin T., **91e:62107**
- Tyagi, Ravinder K. *see* Bhattacharya, Samir K., (Not in MR)
- Vajda, Igor Distances and discrimination rates for stochastic processes. **91j:62007**
- Vakhobov, V. *see* Sirazhdinov, S. Kh., **91f:62162** and **91m:62183**
- Wasserman, Larry Alan Prior envelopes based on belief functions. **91b:62008**
- Wells, Martin T. (with Tiwari, Ram C.) Bayesian quantile plots and statistical inference for nonlinear models in the two sample case with incomplete data. **91e:62107**
- West, Mike (with Harrison, Jeff) ★ Bayesian forecasting and dynamic models. **91d:62149**
- Whitney, Paul Approximation and information topologies. **91a:62078**
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- Yu, Qi Qing Admissibility of linear estimators in the fisheries census. **91g:62022**
- Zacks, S. (with Pereira, Carlos Alberto de Bragança; Leite, J. G.) Bayes sequential estimation of the size of a finite population. **91k:62085**
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62F25 Tolerance and confidence regions

- Adkins, Lee C. Small sample performance of jackknife confidence intervals for the James-

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- Angus, John E. Generalization of the "universal pivot function" and its use in constructing confidence intervals and sets. **91j:62038**
- Arabatzi, Alexandros A. (with Gregoire, Timothy G.; Reynolds, Marion R., Jr.) Conditional interval estimation of the mean following rejection of a two sided test. **91b:62060**
- Awad, Adnan M. see Shayib, Mohammed A., (Not in MR)
- Bain, Lee J. (with Engelhardt, Max; Williams, David H.) Confidence bounds for the binomial N parameter: a classical approach. (Not in MR)
- Bairamov, I. G. (with Petunin, Yu. I.) The structure of invariant confidence intervals that contain the basic distributed mass. **91m:62048**
- Bartoszyński, Robert (with Chan, Wai) A remark on the shortest confidence interval of a normal mean. (Not in MR)
- Burstein, Herman (with Burstein, Neil) Binomial confidence limits adjusted for a confounding variable. (Not in MR)
- Burstein, Neil see Burstein, Herman, (Not in MR)
- Carroll, Raymond J. (with Ruppert, David) Prediction and tolerance intervals with transformation and/or weighting. (Not in MR)
- Casella, George (with Robert, Christian) Refining Poisson confidence intervals. (French summary) **91a:62086**
- Chakraborti, S. (with Mukerjee, Rahul) A confidence interval for a measure associated with the comparison of a treatment with a control. (Not in MR)
- Chan, Wai see Bartoszyński, Robert, (Not in MR)
- Conlon, Michael (with Thomas, Ronald G.) A new confidence interval for the difference of two binomial proportions. (Not in MR)
- Constantine, Kenneth (with Karson, Marvin J.; Tse, Siu-Keung) Confidence interval estimation of $P(Y < X)$ in the gamma case. (Not in MR)
- Dąbrowska, Dorota M. (with Doksum, Kjell A.; Song, Jae-Kee) Graphical comparison of cumulative hazards for two populations. **91b:62061**
- DiCiccio, Thomas J. (with Hall, Peter Gavin; Romano, Joseph P.) Comparison of parametric and empirical likelihood functions. **91g:62038**
- (with Romano, Joseph P.) The automatic percentile method: accurate confidence limits in parametric models. (French summary) **91a:62087**
- Doksum, Kjell A. see Dąbrowska, Dorota M.; et al., **91b:62061**
- Dong, Yun He Determining the lower confidence limit of the shape parameter m of the Weibull distribution by using the $R(0, 1)$ distribution. (Not in MR)
- Engelhardt, Max see Bain, Lee J.; et al., (Not in MR)
- Ferretinos, K. K. Corrigenda: "Shortest confidence intervals and UMVU estimators for families of distributions involving truncation parameters" [Metrika 34 (1987), no. 6, 341–359; MR 90h:62061]. **91b:62062**
- (with Kourouklis, Stavros) Shortest confidence interval estimation for families of distributions involving two truncation parameters. **91m:62049**
- Gart, John J. (with Nam, Jun Mo) Approximate interval estimation of the difference in binomial parameters: correction for skewness and extension to multiple tables. (French summary) (Not in MR)
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- Gregoire, Timothy G. see Arabatzis, Alexandros A.; et al., **91b:62060**
- Gulard, V. Some remarks on the estimation of the ratio of the expectation values of a two-dimensional normal random variable (correction of the theorem of Milliken). (German summary) **91e:62069**
- Hall, Peter Gavin see DiCiccio, Thomas J.; et al., **91g:62038**
- Huschens, Stefan Necessary sample sizes for categorical data. **91b:62063**
- Karson, Marvin J. see Constantine, Kenneth; et al., (Not in MR)
- Klein, S. W. Effect of sample size on width of confidence intervals for variance and variance ratios in normal populations. (Not in MR)
- Konijn, H. S. Note on point and interval estimation and prediction for normal equicorrelated data. **91m:62050**
- Kourouklis, Stavros see Ferretinos, K. K., **91m:62049**
- Liang, Xiao Yun The best confidence region for normal population parameters. (Chinese. English summary) (Not in MR)
- Mee, Robert W. Simultaneous tolerance intervals for normal populations with common variance. **91b:62064**
- Morton, Sally C. Bootstrap confidence intervals in a complex situation: a sequential paired clinical trial. (Not in MR)
- Mukerjee, Rahul see Chakraborti, S., (Not in MR)
- Nagata, Yasushi Improvements of interval estimations for the variance and the ratio of two variances. **91a:62088**
- Nam, Jun Mo see Gart, John J., (Not in MR) and (Not in MR)
- Odeh, Robert E. Simultaneous one-sided prediction intervals to contain all of k future means from a normal distribution. (Not in MR)
- Two-sided prediction intervals to contain at least k out of m future observations from a normal distribution. (Not in MR)
- Petunin, Yu. I. see Bairamov, I. G., **91m:62048**
- Reynolds, Marion R., Jr. see Arabatzis, Alexandros A.; et al., **91b:62060**
- Robert, Christian see Casella, George, **91a:62086**
- Romano, Joseph P. see DiCiccio, Thomas J., **91a:62087** and **91g:62038**
- Ruppert, David see Carroll, Raymond J., (Not in MR)
- Santner, Thomas J. see Wypij, David, **91e:62070**
- Shayib, Mohammed A. (with Awad, Adnan M.) Prediction interval for the difference between two sample means from exponential population: a Bayesian treatment. (Not in MR)
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- Song, Jae-Kee see Dąbrowska, Dorota M.; et al., **91b:62061**
- Thomas, Ronald G. see Conlon, Michael, (Not in MR)
- Tse, Siu-Keung see Constantine, Kenneth; et al., (Not in MR)
- Wilcox, Rand R. Comparing variances and means when distributions have nonidentical shapes. (Not in MR)
- Williams, David H. see Bain, Lee J.; et al., (Not in MR)
- Withers, C. S. Accurate confidence intervals when nuisance parameters are present. **91m:62051**
- Wypij, David (with Santner, Thomas J.) Interval estimation of the marginal probability of success for the beta-binomial distribution. **91e:62070**
- Items with secondary classifications in 62F25
- Aragon, Jorge see Bedrick, Edward J., **91a:62227**
- Bedrick, Edward J. (with Aragon, Jorge) Approximate confidence intervals for the parameters of a stationary binary Markov chain. **91a:62227**
- Berger, James O. see Lu, Kun Liang, **91a:62134**
- Birch, Nancy J. (with Burdick, Richard K.; Ting, Naitee) Confidence intervals and bounds for ratio of summed expected mean squares. **91i:62135**
- Brown, Philip J. (with Oman, Samuel D.) Problematic points in nonlinear calibration. (see **91h:62003**)
- Buonaccorsi, John P. Errors-in-variables with systematic biases. **91a:62159**
- Burdick, Richard K. see Ting, Naitee; et al., **91a:62184** and Birch, Nancy J.; et al., **91i:62135**
- Carter, R. A. L. (with Srivastava, M. S.; Srivastava, Virendra Kumar; Ullah, Aman) Unbiased estimation of the MSE matrix of Stein-rule estimators, confidence ellipsoids, and hypothesis testing. **91i:62091**
- Casella, George see Maatta, Jon M., **91h:62008** and Robert, Christian, **91h:62053**
- Chaturvedi, Ajit On a modified sequential procedure to construct confidence regions for regression parameters. (Hindi summary) (Not in MR)
- Chen, Bor-Chung (with Sargent, Robert G.) Confidence interval estimation for the variance parameter of stationary processes. **91a:62230**
- Critchley, F. see Hirst, D. J.; et al., **91k:62059**
- DiCiccio, Thomas J. (with Romano, Joseph P.) On adjustments based on the signed root of the empirical likelihood ratio statistic. **91f:62050**
- Dzienciolowski, Krzysztof (with Ross, William H.) Assessing case influence on confidence intervals in nonlinear regression. (French summary) **91e:62161**
- Ford, I. see Hirst, D. J.; et al., **91k:62059**
- Furnival, George M. (with Gregoire, Timothy G.; Valentine, Harry T.) Confidence intervals and significance tests for a single trial. **91a:62113**
- Geertsema, Jan C. see Govindarajulu, Z., **91a:62219**
- Govindarajulu, Z. (with Geertsema, Jan C.) Fixed-width estimation of the common mean of a set of normal populations with unknown and unequal variances. **91a:62219**
- Graybill, Franklin A. see Ting, Naitee; et al., **91a:62184** and Kazempour, Mohammad K., **91m:62127**
- Gregoire, Timothy G. see Furnival, George M.; et al., **91a:62113**
- Hirst, D. J. (with Ford, I.; Critchley, F.) An empirical investigation of methods for interval estimation of the log odds ratio in discriminant analysis. **91k:62059**
- Hsu, Jason C. (with Nelson, Barry L.) Control variates for quantile estimation. (Not in MR)
- Jain, Sudha² (with Templeton, J. G. C.) Confidence interval for $M/M/2$ queue with heterogeneous servers. (Not in MR)
- Jensen, D. R. Joint confidence sets in multiple dilution assays. **91g:62084**
- Jeyaratnam, S. see Ting, Naitee; et al., **91a:62184**
- Kahle, Waltraud (with Köhlmann, Annette) Punkt- und Konfidenzschätzungen für den Stichprobenplan $[N, O, T]$ am Beispiel der Weibullverteilung. [Point and confidence estimates for the sampling plan $[N, O, T]$ using the example of Weibull distribution] (Not in MR)
- Kala, R. (with Molińska, Anna; Moliński, Krzysztof) Approximate confidence intervals for a ratio of two variance components. **91b:62093**
- Kazempour, Mohammad K. (with Graybill, Franklin A.) Confidence bounds for proportion of σ_1^2 in unbalanced two-way crossed models. **91m:62127**
- Kim, Hyune-Ju (with Siegmund, David) The likelihood ratio test for a change-point in simple linear regression. **91h:62063**
- Köhlmann, Annette see Kahle, Waltraud, (Not in MR)
- Lin, Fu-Jen (with Seppänen, Eila; Uusipaikka, Esa) On pairwise comparisons of the components of the mean vector in multivariate normal distribution. **91f:62125**
- Liu, Zeng-Zhong see Nakao, Zensho, **91h:62009**
- Lu, Kun Liang (with Berger, James O.) Estimated confidence procedures for multivariate normal means. **91a:62134**
- Lu, Tai-Fang C. see Ting, Naitee; et al., **91a:62184**
- Maatta, Jon M. (with Casella, George) Developments in decision-theoretic variance estimation. **91h:62008**
- Meeden, Glen Admissible contour credible sets. **91f:62014**
- Molińska, Anna (with Moliński, Krzysztof) Interval estimation of parameters in an unbalanced mixed two-fold nested classification—the last-stage uniformity case. **91d:62109**
- see also Kala, R.; et al., **91b:62093**
- Moliński, Krzysztof see Molińska, Anna, **91d:62109** and Kala, R.; et al., **91b:62093**
- Moretton, Pedro A. see Neves, Maril M. C., **91m:62165**
- Mukhopadhyay, Nitis see Vik, G., **91b:62170**
- Naiman, Daniel Q. Volumes of tubular neighborhoods of spherical polyhedra and statistical inference. **91k:60024**
- Nakao, Zensho (with Liu, Zeng-Zhong) Empirical Bayesian interval estimation for the reliability function of a bivariate exponential model. **91h:62009**
- Nelson, Barry L. see Hsu, Jason C., (Not in MR)
- Neves, Maril M. C. (with Moretton, Pedro A.) Second-order expansion of the mean squared error of the Cochran-Orcutt estimator of time series regression models. **91m:62165**
- Oman, Samuel D. see Brown, Philip J., (91h:62003)
- Pázman, Andrej Almost exact distributions of estimators. II. Flat nonlinear regression models. **91m:62117**
- Pool, A. H. Region estimates based on likelihood ratio in a nonlinear model. **91e:62165**
- Errata: "Region estimates based on likelihood ratio in a nonlinear model" [Bull. Malaysian Math. Soc. (2) 12 (1989), no. 2, 73–82]. (Not in MR)
- Robert, Christian (with Casella, George) Improved confidence sets for spherically symmetric distributions. **91h:62053**
- Robson, Douglas S. see Rubin, Gail, **91b:60263**

- Romano, Joseph P. *see* DiCiccio, Thomas J., 91f:62050
- Ross, William H. *see* Dzieliński, Krzysztof, 91e:62161
- Rubin, Gall (with Robson, Douglas S.) A single server queue with random arrivals and balking: confidence interval estimation. 91f:62063
- Sargent, Robert G. *see* Chen, Bor-Chung, 91a:62230
- Sarkar, Sanat K. On improving the shortest length confidence interval for the generalized variance. 91b:62103
- Selvaraj, K. Unbiased estimation in sampling from two one-truncation parameter families when both samples are type II censored. 91c:62027
- Seppänen, Eila *see* Lin, Fu-Jen; et al., 91f:62125
- Siegmund, David *see* Kim, Hyune-Ju, 91h:62063
- Sobel, Marc The conditional level of confidence intervals for the normal variance and applications. 91d:62002
- Srivastava, M. S. *see* Carter, R. A. L.; et al., 91f:62091
- Srivastava, Virendra Kumar *see* Carter, R. A. L.; et al., 91f:62091
- Tahir, Mohamed Asymptotic expansions for sequential confidence levels in inverse linear regression. 91c:62006
- Templeton, J. G. C. *see* Jain, Sudha², (Not in MR)
- Ting, Naitze (with Burdick, Richard K.; Graybill, Franklin A.; Jayaratnam, S.; Lu, Tai-Fang C.) Confidence intervals on linear combinations of variance components that are unrestricted in sign. 91a:62184
- *see also* Birch, Nancy J.; et al., 91f:62135
- Ullah, Aman *see* Carter, R. A. L.; et al., 91f:62091
- Unsupalka, Eaa *see* Lin, Fu-Jen; et al., 91f:62125
- Valentine, Harry T. *see* Furnival, George M.; et al., 91a:62113
- Vik, G. (with Mukhopadhyay, Nitis) Triple sampling to construct fixed-width confidence intervals for estimable parameters based on U -statistics. (Italian summary) 91b:62170
- Wang, Chih Ming On the lower bound of confidence coefficients for a confidence interval on variance components. (French summary) (Not in MR)
- Williams, Evan J. (with Yip, Paul) Conditional inference about an equicorrelation coefficient. 91c:62154
- Wong, Chi Song Linear models in a general parametric form. 91a:62174
- Yip, Paul *see* Williams, Evan J., 91c:62154

62F30 Inference under constraints

- Akkerboom, Johan C. ★ Testing problems with linear or angular inequality constraints. 91c:62031
- Choi, Jae Rong *see* Kim, Byong-Dok; et al., 91m:62052
- Kim, Byong-Dok (with Choi, Jae Rong; Kudō, Akio) The algorithm of sweep-the-negatives and its applications to order restricted inference. 91m:62052
- Kudō, Akio *see* Kim, Byong-Dok; et al., 91m:62052
- Strömberg, Ulf An algorithm for isotonic regression with arbitrary convex distance function. (Not in MR)

Items listed otherwise than by author

Lecture Notes in Statistics *see* Akkerboom, Johan C., 91c:62031

Items with secondary classifications in 62F30

- Pillars, Carolyn *see* Robertson, Tim, 91j:51029
- Robertson, Tim (with Pillars, Carolyn) A geometric regularity from order-restricted statistical inference. 91j:51029
- Werner, Hans-Joachim¹ On inequality constrained generalized least-squares estimation. 91c:62196

62F35 Robustness and adaptive procedures

- Assas, B. M. *see* El-Sayyad, G. M.; et al., (Not in MR)
- Atiquiah, M. *see* El-Sayyad, G. M.; et al., (Not in MR)
- Awan, Hayat Muhammad Inference robustness studies in the contaminated inverse Gaussian distribution. (Not in MR)
- Bai, Zhi Dong (with Wu, Yue Hua; Chen, Xi Ru; Miao, Bai Qi) On solvability of an equation arising in the theory of M -estimates. 91j:62040
- Bednarski, T. On the convergence rate of robust procedures and local equivalence of Hellinger and total variation distances. 91b:62065
- Boente, Graciela (with Fraiman, Ricardo) Asymptotic distribution of robust estimators for nonparametric models from mixing processes. 91c:62071
- Chen, Xi Ru *see* Bai, Zhi Dong; et al., 91j:62040
- David, H. A. (with Yang, C. C.) Amendments and corrections: "Outlier resistance in small samples" [Biometrika 73 (1986), no. 1, 175–181; MR 88b:62069] by D. M. Rocke. 91c:62072
- De Vaux, Richard D. (with Krieger, Abba M.) Robust estimation of a normal mixture. (Not in MR)
- El-Sayyad, G. M. (with Assas, B. M.; Atiquiah, M.) Robustness to nonnormality of perpendicular least square estimator of a slope parameters. (Not in MR)
- Fraiman, Ricardo *see* Boente, Graciela, 91c:62071
- Gao, Duo De Robustness of an estimate and test statistics for a linear regression model. (Chinese. English summary) 91d:62033
- Hannusek, J. Robust Bayesian type estimators and their asymptotic representation. 91c:62073
- He, Xuming Introduction to robust statistics. (Not in MR)
- Horn, Paul S. Robust quantile estimators for skewed populations. (Not in MR)
- Hu, Wei Hou Cheng (with Lee, Shiow Jen) On the relative efficiency of trimmed mean versus mean under mixed normal distributions. 91c:62074
- Jamniković, O. One approach to the construction of stable estimation procedures. 91f:62035
- Jefferys, William H. Robust estimation when more than one variable per equation of condition has error. (Not in MR)
- Jurečková, Jana Consistency of M -estimators of vector parameters. 91c:62075

- (with Sen, Pranab Kumar) Effect of the initial estimator on the asymptotic behavior of one-step M -estimator. 91m:62053
- Krieger, Abba M. *see* De Vaux, Richard D., (Not in MR)
- Lee, Shiow Jen *see* Hu, Wei Hou Cheng, 91c:62074
- Magel, Rhonda C. Robust estimates of ordered parameters with right censored observations. (Not in MR)
- Miao, Bai Qi *see* Bai, Zhi Dong; et al., 91j:62040
- Novotná, Jana M -estimators and gnostical estimators of location. (Russian summary) 91c:62076
- Park, Byoung Uk Efficient estimation in the two-sample semiparametric location-scale models. 91f:62049
- Riedel, Manfred On the bias-robustness in the location model. I, II. 91d:62034
- Rivet, Louis-Paul De l'unicité des estimateurs robustes en régression lorsque le paramètre d'échelle et le paramètre de la régression sont estimés simultanément. (English summary) [Uniqueness of robust regression estimators when the scale parameter and the regression parameter are estimated simultaneously] 91a:62089
- (Rocke, David M.) *see* David, H. A., 91c:62072
- Sai, Shido (with Taguri, Masaaki) Optimum stratification based on a concomitant variable and its application to the current statistics of commerce. (Not in MR)
- Sen, Pranab Kumar *see* Jurečková, Jana, 91c:62053
- Sharples, Linda D. Identification and accommodation of outliers in general hierarchical models. 91c:62036
- Sheather, Simon J. *see* Staudte, Robert G., 91f:62064
- Smith, Jeffrey W. The use of auxiliary data in robust univariate mean estimation. (Not in MR)
- Staudte, Robert G. (with Sheather, Simon J.) ★ Robust estimation and testing. 91f:62064
- Taguri, Masaaki *see* Sai, Shido, (Not in MR)
- Wiens, Douglas P. (with Wu, K. H. Eden) Asymptotic minimax properties of M -estimators of scale. 91f:62050
- Wu, K. H. Eden *see* Wiens, Douglas P., 91f:62050
- Yue, Yue Hua *see* Bai, Zhi Dong; et al., 91j:62040
- Yang, C. C. *see* David, H. A., 91c:62072
- Yohai, Victor J. (with Zamar, Ruben H.) Bounded influence estimation in the errors-in-variables model. (see 91h:62003)
- Zamar, Ruben H. *see* Yohai, Victor J., (91h:62003)
- Zieliński, Ryszard The robustness of certain two-sample tests to the violation of the assumption of the independence of samples. (Polish. English summary) 91m:62054

Items with secondary classifications in 62F35

- Aazhang, Behnaam *see* Orsak, Geoffrey C., 91m:65012
- Ali, M. Masoom *see* Sawaris, Nashat B., 91j:62074
- Ali, Mohamed Akkas An alternative approach to minimize model inadequacy. 91c:62054
- Arnold, Steven F. *see* Schmoyer, Richard L., 91d:62101
- Boente, Graciela (with Fraiman, Ricardo) Robust nonparametric regression estimation. 91d:62028
- Carter, E. M. Power function studies. 91b:62108
- Chan, Han Fu (with Gao, Ai Jun) Robustness analysis for stochastic approximation algorithms. 91a:62224
- Chen, Jian Bao Robustness of MMLUE of regression coefficients and parameters in stochastic effect linear models. (Chinese. English summary) 91b:62128
- Chow, Shein-Chung *see* Wang, Song Gui, 91c:62191
- Davies, P. Laurie The asymptotics of S -estimators in the linear regression model. 91m:62118
- Doksum, Kjell A. (with Lo, Albert Y.) Consistent and robust Bayes procedures for location based on partial information. 91a:62080
- Farnsworth, David L. The effect of a single point on correlation and slope. (Not in MR)
- Fellman, Johan *see* Nordström, Kenneth, 91d:62098
- Fraiman, Ricardo *see* Boente, Graciela, 91d:62020
- Frees, Edward W. Trimmed slope estimates for simple linear regression. 91m:62059
- Gadzhiev, A. G. Statistical estimates in regression models. 91j:62092
- Gao, Ai Jun *see* Chen, Han Fu, 91a:62224
- Ghitany, M. E. Estimation of the scale parameter of gamma model in the presence of outlier observations. 91d:62030
- Giri, Narayan C. Some robust tests of independence in symmetrical multivariate distributions. (French summary) 91f:62100
- Gonin, René (with Money, Arthur H.) ★ Nonlinear L_p -norm estimation. 91d:65222
- Jones, Michael C. On the robustness of shrinkage prediction in regression to a change in the linear relationship. 91f:62087
- Jurečková, Jana (with Saleh, A. K. Md. Ehsanes) Robustified version of Stein's multivariate location estimation. 91d:62032
- Kadane, Joseph B. *see* Wasserman, Larry Alan, 91f:62048
- Koutrouvelis, Ioannis A. *see* Meintanis, Simos, 91h:62042
- Lo, Albert Y. *see* Doksum, Kjell A., 91a:62080
- Lopuhaä, Hendrik P. On the relation between S -estimators and M -estimators of multivariate location and covariance. 91g:62044
- Meintanis, Simos (with Koutrouvelis, Ioannis A.) Adaptive estimation of the center of symmetry based on the empirical characteristic function. 91h:62042
- Money, Arthur H. *see* Gonin, René, 91d:65222
- Nalik, Dayanand N. On detection of outliers in symmetric normal models. 91h:62054
- Nawata, Kazumitsu Robust estimation based on grouped-adjusted data in censored regression models. 91h:62136
- Robust estimation based on grouped-adjusted data in linear regression models. 91h:62223
- Niinimäa, A. (with Oja, Hannu; Tableman, Mara) The finite-sample breakdown point of the Oja bivariate median and of the corresponding half-samples version. 91m:62068
- Nordström, Kenneth (with Fellman, Johan) Characterizations and dispersion-matrix robustness of efficiently estimable parametric functionals in linear models with nuisance parameters. 91d:62098
- Oja, Hannu *see* Niinimäa, A.; et al., 91m:62068

- Orsak, Geoffrey C. (with Aazhang, Behnaam) Constrained solutions in importance sampling via robust statistics. **91m:65012**
- Ronchetti, Elvezio Small sample asymptotics: a review with applications to robust statistics. (Not in MR)
- Saleh, A. K. Md. Ehsanes (with Shiraishi, Taka-aki) On some R - and M -estimators of regression parameters under uncertain restriction. **91e:62182**
- see also Jurečková, Jana, **91d:62032**
- Saweris, Nashat B. (with Ali, M. Masoom) The distributions of some statistics associated with two multivariate hypotheses under violations in the complex case. **91j:62074**
- Schick, Anton On estimation in LAMN families when there are nuisance parameters present. **91f:62057**
- Schmoyer, Richard L. (with Arnold, Steven F.) Shrinking techniques for robust regression. **91d:62101**
- Shao, Jun¹ Half-sample estimation of sampling distributions. **91a:62098**
- Shiraishi, Taka-aki see Saleh, A. K. Md. Ehsanes, **91e:62182**
- Štulajter, František Robustness of the best linear unbiased estimator and predictor in linear regression models. (Russian and Slovak summaries) **91e:62185**
- Tableman, Mara see Nilinima, A.; et al., **91m:62068**
- Tanaka, Yutaka¹ Corrections for "Sensitivity analysis in principal component analysis: influence on the subspace spanned by principal components" [Comm. Statist. Theory Methods **17** (1988), no. 9, 3157–3175; MR **89i:62097**]. **91e:62156**
- Wang, Song Gui (with Chow, Shein-Chung) A note on adaptive generalized ridge regression estimator. **91e:62191**
- Wasserman, Larry Alan (with Kadane, Joseph B.) Bayes' theorem for Choquet capacities. **91i:62048**
- Wiens, Douglas P. Robust minimax designs for multiple linear regression. **91g:62059**
- Zamar, Ruben H. Robustness against unexpected dependence in the location model. **91h:62079**
- Zieliński, Wojciech Robust estimation of variance components. (Polish. English summary) **91e:62195**
- Zolotarev, I. V. Asymptotic properties of M -estimates for regression parameters and their applications to the optimal design of an experiment. (Russian) **91h:62125**

62F99 None of the above, but in this section

- Alvo, M. (with Cabilio, P.) Sampling designs for the estimation of the difference between two means of a bivariate normal. **91h:62066**
- Cabilio, P. see Alvo, M., **91h:62066**
- Hartigan, J. A. Partition models. (Not in MR)
- Items with secondary classifications in 62F99
- Barndorff-Nielsen, Ole E. Likelihood, ancillarity and strings. (see **91j:60004**)
- Efremov, Yu. N. (with Pavlovskaya, E. D.) Determination of the epoch of the star catalogue *Almagest* by analyzing the proper motion of the stars (on a problem of the authorship of Ptolemy's star catalogue). (Russian) **91c:01007**
- Egger, A. G. Maximum likelihood and best approximations. **91h:65029**
- Jacod, Jean Regularity, partial regularity, partial information process, for a filtered statistical model. **91m:62002**
- Nikabadze, A. M. Innovation fields for vector random variables against general alternatives. (Russian. English and Georgian summaries) (Not in MR)
- Nomakuchi, Kentaro A sufficient condition for obtaining solutions of a maximizing problem by a projection. **91k:90177**
- Pavlovskaya, E. D. see Efremov, Yu. N., **91c:01007**
- (Ptolemy) see Efremov, Yu. N., **91c:01007**
- Skovgaard, L. T. Differential geometry and statistical inference. (see **91j:60004**)
- Spiegelman, Cliff H. Plotting techniques for errors-in-variables problems. (see **91h:62003**)

62Gxx Nonparametric inference

Items with secondary classifications in 62Gxx

- Lee, A. J. ★ U -statistics. **91k:60026**

62G05 Estimation

- Abdous, B. (with Theodorescu, R.) On the strong uniform consistency of a new kernel density estimator. **91a:62090**
- (with Theodorescu, R.) On the L^1 strong consistency of a new kernel probability density estimator. **91f:62065**
- Adapting the classical kernel density estimator to data. (Not in MR)
- Ahmad, Manzoor (with Singh, Radhey S.) Role of concomitant variate and additional data in density estimation. **91c:62032**
- Amanov, A. K. Asymptotic properties of nonparametric estimates of a probability density of dependent observations. (Russian) **91f:62066**
- Antoch, J. (with Janssen, Paul) Nonparametric regression M -quantiles. **91e:62077**
- Atilgan, Taskin (with Bozdoğan, Hamparsum) Selecting the number of knots in fitting cardinal B -splines for density estimation using AIC. **91m:62055**
- Bhattacharya, P. K. (with Gangopadhyay, Ashis K.) Kernel and nearest-neighbor estimation of a conditional quantile. **91e:62078**
- Bickel, Peter J. (with Ritov, Y.) Estimating integrated squared density derivatives: sharp best order of convergence estimates. **91e:62079**
- Birgé, Lucien The Grenander estimator: a nonasymptotic approach. **91d:62035**
- Bobkov, S. G. Maximum likelihood estimation of a density as an infinite-dimensional Gaussian shift. (Russian) **91g:62025**
- Boente, Graciela (with Fraiman, Ricardo) Chain rule density estimates. **91j:62041**
- Boese, F. G. Estimating and testing with the Bhattacharya plot. (Not in MR)
- Bozdoğan, Hamparsum see Atilgan, Taskin, **91m:62055**
- Brunk, H. D. (with Jones, Peter Watts) Fitting conditional distributions using orthogonal expansions. **91m:62056**
- Borman, Prabir (with Chen, Keh-Wei) Nonparametric estimation of a regression function. **91d:62036**
- A comparative study of ordinary cross-validation, v -fold cross-validation and the repeated learning-testing methods. **91e:62080**
- Estimation of generalized additive models. **91e:62081**
- Cal, Zong Wu Rates of strong convergence of density estimators for dependent random variables. (Chinese. English summary) **91j:62042**
- Capa Santos, Holger A review of the estimation of a function and its derivatives by the kernel method. (Spanish. English summary) (Not in MR)
- Carroll, Raymond J. (with Hall, Peter Gavin) Nonparametric estimation of optimal performance criteria in quality engineering. **91h:62067**
- see also Stefanski, Leonard A., **91j:62049**
- Castellana, J. V. Integrated consistency of smoothed probability density estimators for stationary sequences. **91c:62033**
- Chai, Gen Xiang Consistency of nearest-neighbor density estimates of stationary processes. (Chinese) **91j:62043**
- Chang, Myron N. Weak convergence of a self-consistent estimator of the survival function with doubly censored data. **91h:62068**
- Chen, Keh-Wei Asymptotical optimality of Akaike's final prediction error. (Italian summary) **91e:62082**
- see also Borman, Prabir, **91d:62036**
- Chen, Ping² Nonparametric Bayesian estimation of survival functions with doubly censored data. (Chinese. English summary) **91h:62038**
- Ch'en, T'ien Wên (with Yang, C. C.) On the regression function estimation by Legendre polynomial. **91d:62037**
- (with Chien, C. W.) On regression function estimation by second kind Tchebichef polynomial. **91e:62083**
- Cheng, Kuang Fu see Cheng, Philip E., **91h:62069**
- Cheng, Philip E. Nonparametric estimation of survival curve under dependent censorship. **91f:62067**
- Applications of kernel regression estimation: a survey. (Not in MR)
- (with Cheng, Kuang Fu) Asymptotic normality for robust R -estimators of regression function. **91h:62069**
- Chien, C. W. see Ch'en, T'ien Wên, **91e:62083**
- Chiu, Shean-Tsong Bandwidth selection for kernel estimate with correlated noise. **91h:62070**
- Why bandwidth selectors tend to choose smaller bandwidths, and a remedy. **91d:62038**
- Cohen, Arthur see Kashary, D., **91c:62040**
- Cohen, Jonathan P. A comparison of estimators of functionals of the distribution of a maximum. **91h:62039**
- Cuevas, Antonio (with Sanz, Paloma) A class of qualitatively robust estimates. **91f:62068**
- Cunningham, J. K. (with Eubank, R. L.; Hsing, Tailen) M -type smoothing splines with auxiliary scale estimation. **91m:62057**
- Darkhovskii, B. S. Nonparametric methods in problems on the change point of a random sequence. (Russian) **91m:62058**
- Devroye, Luc The double kernel method in density estimation. **91h:62071**
- Consistent deconvolution in density estimation. (French summary) **91e:62084**
- On the nonconsistency of the L_2 -cross-validated kernel density estimate. **91c:62034**
- A universal lower bound for the kernel estimate. **91d:62039**
- Dzhikiya, N. G. The limit distribution of maximal deviation of estimates for a regression curve. (Russian. English and Georgian summaries) **91h:62072**
- El-Fahham, M. M. see Hosni, A. K., **91m:62063**
- El-Fahham, Mostafa Properties of Legendre series estimation of probability density. (Not in MR)
- see also Hosni, A. K., (Not in MR)
- El-Sayyad, G. M. see Samiuddin, M., **91k:62041**
- Engel, Joachim Density estimation with Haar series. **91e:62085**
- see also Gasser, Theo, **91j:62044**
- van Es, Bert (with Hoogendoorn, Adriaan) Kernel estimation in Wicksell's corpuscle problem. **91d:62040**
- Eubank, R. L. (with Speckman, Paul) Curve fitting by polynomial-trigonometric regression. **91c:62035**
- see also Cunningham, J. K.; et al., **91m:62057**
- Evans, Denis A. see Smith, Laurel A., (Not in MR)
- Fabian, Václav Complete cubic spline estimation of nonparametric regression functions. **91e:62086**
- Fraiman, Ricardo see Boente, Graciela, **91j:62041**
- Frees, Edward W. Trimmed slope estimates for simple linear regression. **91m:62059**
- From, Steven G. Nonparametric estimation of a change point in positive shift models. (Not in MR)
- Gangopadhyay, Ashis K. see Bhattacharya, P. K., **91e:62078**
- Gao, Ji Ti (with Li, Sheng Wen) The asymptotic structure of nonparametric density estimators for a class of functionals. (Chinese) (Not in MR)
- Gasser, Theo (with Engel, Joachim) The choice of weights in kernel regression estimation. **91j:62044**
- Ghoral, J. K. Nonparametric Bayesian estimation of a survival function under the proportional hazard model. **91d:62041**
- (with Rejtő, Lidia) Relative deficiency of kernel type estimators of quantiles based on right censored data. **91k:62037**
- Gijbels, Irine (with Veraverbeke, Noël) Smooth estimation of a distribution function and its quantiles based on a censored sample. **91e:62087**
- (with Mielniczuk, Jan) Estimating the density of a copula function. **91m:62060**
- Gill, Richard D. Non- and semi-parametric maximum likelihood estimators and the von Mises method. I. **91d:62042**
- Golubev, G. K. Quasilinear estimates for signals in L_2 . **91e:62051**
- González Manteiga, Wenceslao Asymptotic normality of generalized functional estimators dependent on covariables. **91f:62069**
- Gore, A. P. see Prayag, V. R., (Not in MR)
- Granovsky, B. L. (with Müller, Hans-Georg) On the optimality of a class of polynomial kernel functions. **91c:62036**

- Grill, Karl A note on the stochastic geyser problem. 91m:62061
- Guttorp, Peter (with Thompson, Mary Lou) Nonparametric estimation of intensities for sampled counting processes. 91e:62088
- Györfi, László (with Masry, Elias) The L_1 and L_2 strong consistency of recursive kernel density estimation from dependent samples. 91h:62073
- Hall, Peter Gavin Pseudo-likelihood theory for empirical likelihood. 91h:62052
- (with Marron, J. S.) On variance estimation in nonparametric regression. (Not in MR)
- Edgeworth expansions for nonparametric density estimators, with applications. 91m:62062
- see also Carroll, Raymond J., 91h:62067 and Jones, Michael C., (Not in MR)
- Härdle, Wolfgang (with Marron, J. S.) Semiparametric comparison of regression curves. 91e:62089
- (with Marron, J. S.; Wand, M. P.) Bandwidth choice for density derivatives. 91e:62037
- Harel, Michel (with Puri, Madan Lal) Théorème central limite de l'estimateur de densité et de l'erreur quadratique intégrée pour des variables aléatoires non stationnaires. (English summary) [Central limit theorem for the density estimator and integrated square error based on nonstationary random variables] 91k:62038
- Hart, Jeffrey D. (with Vieu, Philippe) Data-driven bandwidth choice for density estimation based on dependent data. 91h:62040
- Hendriks, Harrie Nonparametric estimation of a probability density on a Riemannian manifold using Fourier expansions. 91g:62026
- Holliday, D. B. The estimation of derivatives of a nonparametric regression function when the data are correlated. 91d:62043
- Hong, Sheng Yan Laws of the iterated logarithm for nearest-neighbor density estimators. (Chinese) 91d:62044
- Hoogendoorn, Adriaan see van Es, Bert, 91d:62040
- Hosni, A. K. (with El-Fahham, Mostafa) A note on mean square rate of density estimation based on delta sequence. (Not in MR)
- Estimation of the scaling parameter for a symmetric design function. (Not in MR)
- (with El-Fahham, M. M.) Efficiency of a sequential density estimator under autoregressive dependence model. 91m:62063
- Hsing, Taiten see Cunningham, J. K.; et al., 91m:62057
- Hu, Cheng Ji see Tong, Heng Qing, (Not in MR)
- Huesemann, J. A. (with Stevens, R. R.) Computation of optimal parameters for bivariate histograms. (Not in MR)
- Izenman, Alan Julian (with Tran, Lanh Tat) Kernel estimation of the survival function and hazard rate under weak dependence. 91g:62027
- Janssen, Paul see Antoch, J., 91e:62077
- Joe, Harry Estimation of entropy and other functionals of a multivariate density. 91a:62091
- Johnstone, Iain M. (with Silverman, Bernard W.) Speed of estimation in positron emission tomography and related inverse problems. 91c:62038
- Jones, Michael C. Variable kernel density estimates and variable kernel density estimates. (Not in MR)
- The performance of kernel density functions in kernel distribution function estimation. 91e:62090
- (with Hall, Peter Gavin) Mean squared error properties of kernel estimates of regression quantiles. (Not in MR)
- On correcting for variance inflation in kernel density estimation. (Not in MR)
- Jones, Peter Watts see Brunk, H. D., 91m:62056
- Jurečková, Jana (with Sen, Pranab Kumar) Uniform second order asymptotic linearity of M -statistics in linear models. 91d:62045
- Karr, Alan F. see Zucker, David M., 91e:62108
- Karunamuni, Rohana (with Mehra, K. L.) Improvements on strong uniform consistency of some known kernel estimates of a density and its derivatives. 91e:62091
- Kam, Amarjot (with Singh, Harshinder) Estimation of a distribution function bounded by two known distribution functions. 91m:62064
- Khanin, A. G. An estimate for the rate of convergence in the central limit theorem for mean-square measure of quality of the S -statistic of a density. (Russian) 91h:62041
- Asymptotic behavior of a global measure of the quality of a spline density estimate. (Russian) 91e:62039
- see also Turbin, A. F., 91e:62104 and 91e:62105
- Khashimov, Sh. A. A remark on the limit distribution for generalized von Mises functionals with degenerate kernels. (Russian) 91d:62046
- Knopov, P. S. A nonparametric estimate for a function in L_2 that is observed with an additive random noise. (Russian. English summary) 91j:62045
- Koshkin, G. M. Asymptotic properties of functions of statistics and their applications to nonparametric estimation. 91h:62074
- Koul, Hira L. (with Pflog, Georg Ch.) Weakly adaptive estimators in explosive autoregression. 91k:62039
- Koutrouvelis, Ioannis A. see Meintanis, Simos, 91h:62042
- Krikhell, B. M. Asymptotic behavior of a kernel estimator that is constructed on the basis of a sample of random size. (Russian. English and Georgian summaries) (Not in MR)
- Nonparametric regression estimates based on a sample of random size. (Russian. English and Georgian summaries) 91h:62053
- Kukhaleshvili, R. E. Asymptotic distribution of the quadratic deviation of the regression curve recursive estimator. 91d:62047
- Kulperger, Reg Estimating nonlinear shifts in stationary mixing processes in the two-sample case. 91f:62070
- Kushary, D. (with Cohen, Arthur) Estimating ordered location and scale parameters. 91c:62040
- Lebedev, V. S. Minimax estimation of linear functionals in two-dimensional noise. 91e:62092
- Leung, Sia Fai (with Wong, Wing Hung) Nonparametric hazard estimation with time-varying discrete covariates. 91j:62046
- Lewis, Peter A. W. see Reseller, Richard L., (Not in MR)
- Li, Sheng Wen see Gao, Ji Ti, (Not in MR)
- Liebscher, E. Kernel estimators for probability densities with discontinuities. 91d:62048
- Lia, D. Y. see Wei, L. J.; et al., 91k:62043
- Lia, Y. L. (with Padgett, W. J.) A note on the asymptotically optimal bandwidth for Nadaraya's quantile estimator. 91m:62065
- Liu, Ming Chang (with Taylor, Robert Lee) A consistent nonparametric density estimator for the deconvolution problem. (French summary) 91e:62041
- Mack, Y. P. (with Matloff, Norman S.) Estimating a mixing distribution in a multiple observation setting. 91h:62054
- Maliboroda, R. E. A median estimate for the change point in the case of weakly dependent observations. (Russian) 91j:62047
- Mammitzsch, Volker A note on kernels of order ν, k . 91e:62093
- Markovich, Yu. P. see Pottosina, S. A., (Not in MR)
- Marron, J. S. see Härdle, Wolfgang; et al., 91c:62037; 91e:62089 and Hall, Peter Gavin, (Not in MR)
- Martin, R. Douglas (with Yohai, Victor J.; Zamar, Ruben H.) Min-max bias robust regression. 91e:62094
- (with Zamar, Ruben H.) Asymptotically min-max bias robust M -estimates of scale for positive random variables. 91a:62092
- Masry, Elias see Györfi, László, 91h:62073
- Matloff, Norman S. see Mack, Y. P., 91h:62054
- Matukhin, P. G. (with Ostrovskii, E. I.) Nonparametric density estimation based on the results of multifactor experiments. 91m:62066
- McNichols, D. T. The exact solution to the MLE of a decreasing density based on arbitrarily right censored data. 91e:62095
- Mehra, K. L. see Karunamuni, Rohana, 91e:62091
- Mehrotra, K. G. (with Schick, Anton; Susarla, V.) Estimation in two sample type II censoring models. 91e:62096
- Meintanis, Simos (with Koutrouvelis, Ioannis A.) Adaptive estimation of the center of symmetry based on the empirical characteristic function. 91h:62042
- Meloche, J. Asymptotic behaviour of the mean integrated squared error of kernel density estimators for dependent observations. (French summary) 91h:62055
- Mielniczuk, Jan (with Sarda, Pascal; Vieu, Philippe) Local data-driven bandwidth choice for density estimation. 91d:62049
- Remark concerning data-dependent bandwidth choice in density estimation. 91e:62097
- see also Gijbels, Irene, 91m:62060
- Morales González, Domingo (with Pardo, Leandro; Quesada Paloma, Vicente) Estimation of a survival function with doubly censored data and Dirichlet process prior knowledge on the observable variable. 91f:62071
- Moret, Bernard M. E. see Tseng, Chia-Tin, (Not in MR)
- Müller, Hans-Georg Adaptive nonparametric peak estimation. 91a:62093
- (with Wang, Jane-Ling) Nonparametric analysis of changes in hazard rates for censored survival data: an alternative to change-point models. 91f:62072
- (with Wang, Jane-Ling) Locally adaptive hazard smoothing. 91m:62067
- see also Granovsky, B. L., 91e:62036
- Nadaraya, E. A. Limit distribution of the quadratic deviation of a generalized kernel-type estimator of the density of a distribution. (Russian. English and Georgian summaries) (Not in MR)
- Neumann, Michael H. ★ Asymptotic results for kernel estimators of the mean vector and the heteroscedastic variance vector without replications at the design points. 91h:62040
- Niinimaa, A. (with Oja, Hannu; Tienari, Marja) The finite-sample breakdown point of the Oja bivariate median and of the corresponding half-samples version. 91m:62068
- Novotná, Jana M -estimators and gnostical estimators of location. (Russian summary) 91f:62073
- Nychka, Douglas The average posterior variance of a smoothing spline and a consistent estimate of the average squared error. 91e:62042
- Oja, Hannu see Niinimaa, A.; et al., 91m:62040
- Ostrovskii, E. I. see Matukhin, P. G., 91m:62066
- Otero Cepeda, X. L. see Prada Sánchez, J. M., 91a:62095
- Padgett, W. J. see Lia, Y. L., 91k:62043
- Pardo, Leandro see Morales González, Domingo; et al., 91f:62071
- Park, Byoung Uk On the plug-in bandwidth selectors in kernel density estimation. 91e:62098
- Peracchi, Franco Robust M -estimators. 91m:62069
- Pfanzagl, Johann ★ Estimation in semiparametric models. 91f:62074
- Pflog, Georg Ch. see Koul, Hira L., 91k:62039
- Polyak, B. T. (with Tsibakov, A. B.) Asymptotic optimality of the C_p -test in the projection estimation of a regression. 91h:62070
- Pottosina, S. A. (with Markovich, Yu. P.) Estimation of the probability density of nonstationary random processes. (Russian) (Not in MR)
- Powell, James L. (with Stock, James H.; Stoker, Thomas M.) Semiparametric estimation of index coefficients. 91a:62094
- see also Peracchi, Franco, 91m:62069
- Prada Sánchez, J. M. (with Otero Cepeda, X. L.) The use of smooth bootstrap techniques for estimating the error rate of a prediction rule. 91a:62095
- (Præstgaard, Jens) see Gill, Richard D., 91d:62042
- Prayag, V. R. (with Gore, A. P.) Density estimation for randomly distributed circular objects. (Not in MR)
- Palatov, B. N. A lower bound on minimax risk of nonparametric estimates for regression functions. (Russian) 91d:62050
- Puri, Madan Lal see Harel, Michel, 91h:62038
- Puri, Prem S. (with Singh, Harshinder) On recursive formulas for isotonic regression useful for statistical inference under order restrictions. 91h:62043
- Quesada Paloma, Vicente see Morales González, Domingo; et al., 91f:62071
- Rajš, Lidia see Ghorai, J. K., 91k:62037
- Reissner, Richard L. (with Lewis, Peter A. W.) Variance reduction for quantile estimates in simulations via nonlinear controls. (Not in MR)
- Rice, John A. (with Silverman, Bernard W.) Estimating the mean and covariance structure nonparametrically when the data are curves. (Not in MR)
- Ritov, Y. Estimation in a linear regression model with censored data. 91a:62096
- see also Bickel, Peter J., 91e:62079
- Rojo, Javier (with Samaniego, Francisco J.) On nonparametric maximum likelihood estimation of a distribution uniformly stochastically smaller than a standard. 91m:62071
- Romass, George G. Some asymptotic properties of an estimate of the survival function

- under dependence conditions. 91f:62075
- Nonparametric regression estimation under mixing conditions. 91j:62048
- Rüschendorf, Ludger Estimation in random translation models. 91f:62056
- Rychlik, Tomasz Unbiased nonparametric estimation of the derivative of the mean. 91f:62076
- Sabry, Hegazi On nonparametric estimation of regression function. (Not in MR)
- Samaniego, Francisco J. see Rojo, Javier, 91m:62071
- Samiuddin, M. (with El-Sayyad, G. M.) On nonparametric kernel density estimates. 91k:62041
- Sanz, Paloma see Cuevas, Antonio, 91f:62068
- Sarda, Pascal (with Vieu, Philippe) Estimation non paramétrique de la fonction de hasard. (English summary) [Nonparametric estimation of the hazard function] 91d:62051
- see also Mielniczuk, Jan; et al., 91d:62049
- Scariano, Stephen M. (with Watkins, Terry A.) Comparisons of changepoint estimators. (Not in MR)
- Schäbe, Hendrik Nichtparametrische Auswertung von stochastisch beidseitig zensierten Stichproben. (English summary) [Nonparametric estimation from stochastically doubly censored samples] 91b:62075
- Schick, Anton see Mehrotra, K. G.; et al., 91e:62096
- Sedransk, J. see Titterton, D. M., 91b:62077
- Sen, Pranab Kumar see Jurečková, Jana, 91d:62045 and Sinha, Bimal Kumar, 91d:62052
- Shao, Jun¹ (with et al.) A general theory for jackknife variance estimation. 91c:62043
- Bootstrapping for generalized L-statistics. 91a:62097
- Half-sample estimation of sampling distributions. 91a:62098
- Functional calculus and asymptotic theory for statistical analysis. 91e:62099
- Shi, Xi Quan¹ Some asymptotic results for jackknifing the sample quantile. 91m:62072
- Silverman, Bernard W. see Johnstone, Iain M., 91c:62038 and Rice, John A., (Not in MR)
- Singh, Harshinder see Puri, Prem S., 91h:62043 and Kaur, Amarjot, 91m:62064
- Singh, Radhey S. see Ahmad, Manzoor, 91c:62032
- Sinha, Bimal Kumar (with Sen, Pranab Kumar) Nonparametric estimation of the generalized variance. 91d:62052
- Smith, Laurel A. (with Evans, Denis A.) Estimating a population distribution of sequences of k items from cross-sectional data. (Not in MR)
- Speckman, Paul see Eubank, R. L., 91c:62035
- Staniswalis, Joan G. Local bandwidth selection for kernel estimates. 91c:62044
- Stefanski, Leonard A. Rates of convergence of some estimators in a class of deconvolution problems. 91e:62100
- (with Carroll, Raymond J.) Deconvoluting kernel density estimators. 91j:62049
- Stevens, R. R. see Huesemann, J. A., (Not in MR)
- Stock, James H. see Powell, James L.; et al., 91a:62094
- Stoker, Thomas M. see Powell, James L.; et al., 91a:62094
- Stone, Charles J. Uniform error bounds involving log-spline models. 91b:62076
- Large-sample inference for log-spline models. 91m:62073
- Susarla, V. see Mehrotra, K. G.; et al., 91e:62096
- Tableman, Mara see Nijmman, A.; et al., 91m:62068
- Taylor, Robert Lee see Liu, Ming Chung, 91c:62041
- Theodorescu, R. see Abdous, B., 91a:62090 and 91f:62065
- Thomas-Agnan, Christine Smoothing periodic curves by a method of regularization. 91m:62074
- Thompson, Mary Lou see Guttorp, Peter, 91c:62088
- Tiago de Oliveira, J. Intrinsic estimation of the dependence structure for bivariate extremes. 91e:62101
- Titterton, D. M. (with Sedransk, J.) Imputation of missing values using density estimation. 91b:62077
- Tiwari, Ram C. see Wells, Martin T., 91e:62107
- Tong, Hong Qing (with Hu, Cheng Ji) Derivative interpolation estimates for densities. (Chinese) (Not in MR)
- Traa, Lanh Tat The L_1 convergence of kernel density estimates under dependence. (French summary) 91e:62102
- Kernel density estimation on random fields. 91j:62050
- Kernel density estimation under dependence. 91h:62044
- see also Izenman, Alan Julian, 91g:62027
- Tsai, Wei-Yann Testing the assumption of independence of truncation time and failure time. 91c:62103
- Tseng, Chae-Tin (with Moret, Bernard M. E.) A method for the choice of smoothing parameter. (Not in MR)
- Tsiliatis, Anastasios A. Estimating regression parameters using linear rank tests for censored data. 91k:62042
- Tsybakov, A. B. Recurrent estimation of the mode of a multidimensional distribution. 91j:62051
- see also Polyak, B. T., 91m:62070
- Turbin, A. F. (with Khanin, A. G.) The rate of convergence of a spline estimate for a density in the L_2 -metric. (Russian) 91e:62104
- (with Khanin, A. G.) Uniform strong consistency of interpolation and smoothing S-statistics. 91e:62105
- Vardi, Y. Multiplicative censoring, renewal processes, deconvolution and decreasing density: nonparametric estimation. 91f:62057
- Vela, Raja P. Reduced rank models with two sets of regressors. (Not in MR)
- Veraverbeke, Noël see Gijbels, Irene, 91c:62087
- Vieu, Philippe see Mielniczuk, Jan; et al., 91d:62049; Sarda, Pascal, 91d:62051 and Hart, Jeffrey D., 91h:62040
- Villar Fernández, Juan M. Recursive kernel-type estimation of the autoregression function on the basis of dependent data. (Spanish. English summary) 91d:62053
- Volf, Petr A nonparametric analysis of proportional hazard regression model. (Russian summary) 91e:62106
- A large sample study of nonparametric proportional hazard regression model. 91m:62075
- Wahba, Grace ★ Spline models for observational data. 91g:62028
- Wand, M. P. see Härdle, Wolfgang; et al., 91c:62037
- Wang, Jane-Ling see Müller, Hans-Georg, 91f:62072 and 91m:62067
- Watkins, Terry A. see Scariano, Stephen M., (Not in MR)
- Wei, L. J. (with Ying, Zhiliang; Lin, D. Y.) Linear regression analysis of censored survival data based on rank tests. 91k:62043
- Weissfeld, L. A. Influence diagnostics for the proportional hazards model. (Not in MR)
- (Wellner, Jon A.) see Gill, Richard D., 91d:62042
- Wells, Martin T. (with Tiwari, Ram C.) Bayesian quantile plots and statistical inference for nonlinear models in the two sample case with incomplete data. 91e:62107
- Welsh, A. H. A note on the statistical properties of the secant algorithm for calculating rank estimators. 91f:62077
- Wernecke, K.-D. Computergerechte statistische Verfahren: jackknife, bootstrap und cross-validation—eine Einführung. [Statistical methods suitable for computers: jackknife, bootstrap and cross-validation—an introduction] (see 91b:62005)
- Wong, Wing Hung see Leung, Sin Fai, 91j:62046
- Wu, C.-F. J. On the asymptotic properties of the jackknife histogram. 91f:62078
- Xie, Min Yu Strong convergence of estimators for conditional risk functions in k -NN discrimination and prediction. (Chinese. English summary) 91c:62045
- Xue, Lin Gen Rates of convergence of kernel estimates for regression functions. (Chinese) 91f:62079
- Yang, C. C. see Ch'en, T'ien Wen, 91d:62037
- Yatracos, Yannis G. A regression type problem. 91c:62046
- On the estimation of the derivatives of a function with the derivatives of an estimate. 91c:62047
- Ying, Zhiliang see Wei, L. J.; et al., 91k:62043
- Yohai, Victor J. see Martin, R. Douglas; et al., 91e:62094
- Yuan, Ao Consistency of the double kernel estimate of a conditional density with random window width. (Chinese. English summary) 91b:62078
- Zamar, Ruben H. Robustness against unexpected dependence in the location model. 91h:62079
- see also Martin, R. Douglas, 91a:62092 and 91e:62094
- Zhang, Cun Hui Fourier methods for estimating mixing densities and distributions. 91f:62058
- Zhang, Di Xin Rates of strong uniform convergence of nearest neighbor density estimates on any compact set. 91f:62080
- Zhang, Wen Yang A consistent kernel estimate of the error distribution in a linear model. (Chinese. English summary) 91g:62029
- Zucker, David M. (with Karr, Alan F.) Nonparametric survival analysis with time-dependent covariate effects: a penalized partial likelihood approach. 91e:62108

Items with secondary classifications in 62G05

- Abbar, H. see Jacob, Pierre M., 91k:60057
- Aerts, Marc (with Geertsema, Jan C.) Bounded length confidence intervals in nonparametric regression. 91m:62146
- Antoniadis, Anastis (with Grégoire, Gérard) Estimation régulière de la fonction d'intensité d'un processus ponctuel: méthodes non paramétriques. (English summary) [Regular estimation of the intensity function of a point process: nonparametric methods] 91e:62218
- (with Grégoire, Gérard) Penalized likelihood estimation for rates with censored survival data. 91e:62252
- Ardenti, Pier Giorgio Bootstrapping, jackknife and James-Stein estimators. (Italian. English and French summaries) 91a:62178
- Bai, Zhi Dong (with Wu, Yue Hua; Chen, Xi Ru; Miao, Bai Qi) On solvability of an equation arising in the theory of M -estimates. 91j:62040
- Bakalsky, Jerry K. (with Pordzik, Pawel R.) Inverse-partitioned-matrix method for the general Gauss-Markov model with linear restrictions. 91a:62155
- Barndorff-Nielsen, Ole E. (with James, I. R.; Leigh, George Michael) A note on a semiparametric estimator of mortality. 91a:62285
- Bednarski, T. On sensitivity of Cox's estimator. 91d:62028
- Belyaev, Yu. K. (with Chistyakova, N. V.) A nonparametric estimate for the queue length distribution in a system with a processor sharing discipline. (Russian) (see 91b:60003)
- Bickel, Peter J. see Ritor, Y., 91g:62034
- Boente, Graciela (with Fraiman, Ricardo) Robust nonparametric regression estimation. 91d:62020
- (with Fraiman, Ricardo) Asymptotic distribution of robust estimators for nonparametric models from mixing processes. 91e:62071
- Boyles, R. A. see Reness, D. M.; et al., 91m:62179
- Cambanis, Stamatis see Masry, Elias, 91b:65004
- Cavazos-Cadena, Rolando see Hernández-Lerma, Osmélimo, 91i:93132
- Chanda, Kamal C. (with Ruymgaart, Frits H.) Asymptotic estimate of probability of misclassification for discriminant rules based on density estimates. 91a:62145
- Asymptotic expansions of the probabilities of misclassification for k -NN discriminant rules. 91k:62058
- Chang, Myron N. (with Rao, Pejavar Vishwamver) Berry-Esseen bound for the Kaplan-Meier estimator. 91a:62263
- Chen, Xi Ru Large sample statistics in China—a review of some recent contributions. 91e:62003
- see also Bai, Zhi Dong; et al., 91j:62040
- Chervonakis, A. V. see Vapnik, V. N., (91j:60004)
- Chistyakova, N. V. see Belyaev, Yu. K., (91h:60003)
- Choudhury, Japobrata Sequential confidence intervals based on generalized Hodges-Lehmann location estimators and related statistics. 91j:62117
- Christensen, Ronald see Johnson, Wesley, 91h:62086
- Croux, Kristof (with Veraverbeke, Noël) Nonparametric estimators for the probability of ruin. 91j:62145
- Dikta, Gerhard Bootstrap approximation of nearest neighbor regression function estimates. 91h:62121
- Eubank, R. L. (with Whitney, Paul) Convergence rates for estimation in certain partially linear models. 91c:62057
- Feservenger, Audrey On the empirical saddlepoint approximation. 91a:62039
- Fraiman, Ricardo see Boente, Graciela, 91d:62020 and 91e:62071
- Friedman, Jerome H. (with Silverman, Bernard W.) Flexible parsimonious smoothing and additive modeling. 91a:62153

- Gaver, D. P., Jr. (with Jacobs, Patricia A.) System availability: time dependence and statistical inference by (semi) nonparametric methods. **91b:62203**
- Geurtsma, Jan C. *see* Aerts, Marc, **91m:62146**
- Genon-Catalot, Valentine (with Laredo, Catherine F.; Picard, Dominique) Estimation non paramétrique de la variance d'une diffusion par méthodes d'ondelettes. (English summary) [Nonparametric estimation of the diffusion coefficient of a diffusion process by wavelet methods] **91f:62143**
- Georgiev, Alexander A. Nonparametric multiple function fitting. **91h:62058**
- Ghorai, J. K. Deficiency of the MLE of a smooth survival function under the proportional hazard model. **91f:62160**
- Ginoyan, M. S. Distribution of quadratic functionals of a stationary Gaussian process. (Russian. Armenian summary) **91j:60069**
- Golubev, G. K. (with Nussbaum, Michael) A risk bound in Sobolev class regression. **91f:62065**
- González Manteiga, Wenceslao A general perspective, including new results, of the product-limit estimator of a distribution function under random censorship or truncation. (Spanish. English summary) **91a:62165**
- *see also* Stute, Winfried, **91f:62089**
- Graham, Ronald L. (with Hinkley, D. V.; John, Peter W. M.; Shi, Sheng G.) Balanced design of bootstrap simulations. **91d:62117**
- Grégoire, Gérard *see* Antoniadis, Anestis, **91e:62218** and **91e:62252**
- Gregory, Gavin G. Generalized Hodges-Lehmann estimators for the analysis of variance. **91f:62034**
- Gu, Ming Gao² (with Lai, Te Leung) Functional laws of the iterated logarithm for the product-limit estimator of a distribution function under random censorship or truncation. **91c:60034**
- Hall, Peter Gavin Optimal convergence rates in signal recovery. **91e:60134**
- Akaike's information criterion and Kullback-Leibler loss for histogram density estimation. **91h:62006**
- On the law of the logarithm for density estimators. **91h:60038**
- Hanousek, J. Robust Bayesian type estimators and their asymptotic representation. **91e:62073**
- Härdle, Wolfgang Automatic curve smoothing. (*see* **91j:60004**)
- (Hastie, Trevor) *see* Friedman, Jerome H., **91a:62153**
- (Hawkins, Douglas M.) *see* Friedman, Jerome H., **91a:62153**
- Hernández-Lerma, Onésimo (with Cavazos-Cadena, Rolando) Density estimation and adaptive control of Markov processes: average and discounted criteria. **91f:62132**
- Hinkley, D. V. *see* Graham, Ronald L.; et al., **91d:62117**
- Hosni, A. K. Efficiency of a sequential density estimator under autoregressive dependence model. (Not in MR)
- Isoag, Elichi Nonparametric recursive estimation in stationary Markov processes. **91a:62228**
- Jacob, Pierre M. (with Abbar, H.) Estimating the edge of a Cox process area. **91k:60057**
- Jacobs, Patricia A. *see* Gaver, D. P., Jr., **91b:62203**
- James, I. R. *see* Barndorff-Nielsen, Ole E.; et al., **91a:62285**
- John, Peter W. M. *see* Graham, Ronald L.; et al., **91d:62117**
- Johnson, Wesley (with Christensen, Ronald) Nonparametric Bayesian analysis of the accelerated failure time model. **91h:62086**
- Jurečková, Jana Consistency of M -estimators of vector parameters. **91e:62075**
- Khakhubia, Ts. G. On the adaptive estimation of change points. **91c:62024**
- Klein, John P. (with Lee, Shih Chang; Moeschberger, M. L.) A partially parametric estimator of survival in the presence of randomly censored data. (French summary) **91j:62151**
- Koenker, Roger *see* Portney, Stephen, **91d:62100**
- Lahiri, P. (with Tiwari, Ram C.) Empirical Bayes rank order estimation with the Dirichlet prior. **91k:62034**
- Lai, Te Leung *see* Gu, Ming Gao², **91c:60034**
- Lániká, Vera On the effect of misspecification in Cox's regression model. **91g:62079**
- Laredo, Catherine F. *see* Genon-Catalot, Valentine; et al., **91f:62143**
- Leconte, Jean-Pierre Uniform consistency of a class of regression function estimators for Banach-space valued random variable. **91h:62059**
- Lee, Shih Chang *see* Klein, John P.; et al., **91j:62151**
- Leigh, George Michael *see* Barndorff-Nielsen, Ole E.; et al., **91a:62285**
- Leskow, Jacek Histogram maximum likelihood estimator of a periodic function in the multiplicative intensity model. **91d:62132**
- Lugosi, E. *see* Yakowitz, S., **91h:68153**
- Maiboroda, R. E. A median test for the homogeneity of a sample. (Russian) **91m:62079**
- Masry, Elias (with Cambanis, Stamatis) Trapezoidal Monte Carlo integration. **91h:65004**
- McKeague, Ian W. (with Utikal, Klaus J.) Inference for a nonlinear counting process regression model. **91j:62123**
- Miao, Bai Qi *see* Bai, Zhi Dong; et al., **91j:62040**
- Moeschberger, M. L. *see* Klein, John P.; et al., **91j:62151**
- Mukerjee, Hari A strong law of large numbers for nonparametric regression. **91f:60062**
- Nakutis, Evaldas Identification of nonlinear stationary stochastic processes in a class of models $L \otimes H$, $H \otimes L$ (results of experiments). (Russian. English and Lithuanian summaries) **91h:93072**
- Nemirovskii, A. S. Necessary conditions for efficient estimation of functionals of a nonparametric signal observed in white noise. **91e:62223**
- Newey, Whitney K. Introduction à la théorie des bornes d'efficacité semi-paramétriques. (English summary) [An introduction to semi-parametric efficiency bounds] **91a:62069**
- Nieuwenhuis, Gert (with Ruymgaart, Frits H.) Some stochastic inequalities and asymptotic normality of serial rank statistics in general linear processes. **91h:60034**
- Nussbaum, Michael *see* Golubev, G. K., **91f:62065**
- Ohtaki, Mogo Some estimators of covariance matrix in multivariate nonparametric regression and their applications. **91e:62164**
- Park, Byoung Uk Efficient estimation in the two-sample semiparametric location-scale models. **91f:62049**
- Picard, Dominique *see* Genon-Catalot, Valentine; et al., **91f:62143**
- Pinelis, I. F. On minimax risk. **91f:62019**
- Pordzik, Pawel R. *see* Bakasalary, Jerzy K., **91a:62155**
- Portney, Stephen (with Koenker, Roger) Correction: "Adaptive L -estimation for linear models" [Ann. Statist. 17 (1989), no. 1, 362–381; MR 90d:62089]. **91d:62100**
- Rao, Pejavar Vishwamver *see* Chang, Myron N., **91a:62263**
- Reneau, D. M. (with Samaniego, Francisco J.; Boyles, R. A.) Estimating a survival curve when new is better than used with respect to a distinguished set. **91m:62179**
- Riedel, Manfred On the bias-robustness in the location model. I, II. **91d:62034**
- Ritov, Y. (with Bickel, Peter J.) Achieving information bounds in non and semiparametric models. **91g:62034**
- Ruymgaart, Frits H. *see* Chanda, Kamal C., **91a:62145** and **Nieuwenhuis, Gert**, **91h:60034**
- Samaniego, Francisco J. *see* Reneau, D. M.; et al., **91m:62179**
- Sarda, Pascal (with Vieu, Philippe) Empirical distribution function for mixing random variables. Application in nonparametric hazard estimation. **91f:62090**
- Schick, Anton (with Susarla, V.) An infinite-dimensional convolution theorem with applications to random censoring and missing data models. **91a:62115**
- Sen, Pranab Kumar Asymptotic theory of sequential shrunken estimation of statistical functionals. **91f:62136**
- Shao, Jun¹ Bootstrap variance and bias estimation in linear models. (French summary) **91f:62084**
- Shi, Sheng G. *see* Graham, Ronald L.; et al., **91d:62117**
- Shiraiishi, Taka-aki R -estimators and confidence regions in one-way MANOVA. **91e:62184**
- Silverman, Bernard W. *see* Friedman, Jerome H., **91a:62153**
- Solodovnikov, Yu. V. Direct and inverse problems in the nonparametric statistics of queueing systems. **91h:62027**
- Stein, Michael L. A comparison of generalized cross validation and modified maximum likelihood for estimating the parameters of a stochastic process. **91f:62129**
- Stute, Winfried (with González Manteiga, Wenceslao) Nearest neighbor smoothing in linear regression. **91f:62089**
- Susarla, V. *see* Schick, Anton, **91a:62115**
- Tiwari, Ram C. *see* Lahiri, P., **91k:62034**
- Tutz, Gerhard On cross-validation for discrete kernel estimates in discrimination. **91f:62081**
- Utikal, Klaus J. *see* McKeague, Ian W., **91j:62123**
- Vapnik, V. N. (with Chervonenkis, A. Ya.) Minimization of expected risk based on empirical data. (*see* **91j:60004**)
- Inductive principles of the search for empirical dependences (methods based on weak convergence of probability measures). (*see* **91e:68014**)
- Veraverbeke, Noël *see* Cronx, Kristof, **91j:62145**
- Vieu, Philippe *see* Sarda, Pascal, **91f:62090**
- Vitek, Jan Amos Estimation of contamination level in model of contamination with general neighbourhoods. **91h:62013**
- Volf, Petr An identification of proportionality of hazards for nonhomogeneous lifetime data. **91e:62262**
- Whitney, Paul *see* Eubank, R. L., **91c:62057**
- Wiens, Douglas P. Minimax-variance L - and R -estimators of location. (French summary) **91m:62019**
- (with Wu, K. H. Eden) Asymptotic minimax properties of M -estimators of scale. **91f:62050**
- Wu, K. H. Eden *see* Wiens, Douglas P., **91f:62050**
- Wu, Yue Hua *see* Bai, Zhi Dong; et al., **91j:62040**
- Yakovitz, S. (with Lugosi, E.) Random search in the presence of noise, with application to machine learning. **91h:68153**
- Yatchew, Adonis John Some tests of nonparametric regression models. **91f:62083**
- Zavarin, A. N. A projection estimate for a regression function. **91h:62124**

62G07 Curve estimation (nonparametric regression, density estimation, etc.)

- Attilgan, Taskin On derivation and application of AIC as a data-based criterion for histograms. (Not in MR)
- Beneš, Viktor Probability density estimation of truncated distribution. **91a:62099**
- Chiu, Shean-Tsong (with Marron, J. S.) The negative correlations between data-determined bandwidths and the optimal bandwidth. (Not in MR)
- Cuevas, Antonio A review of recent results in density estimation. (Spanish. English summary) **91a:62100**
- Čwik, J. (with Mielniczak, Jan) Estimating density ratio with application to discriminant analysis. **91a:62101**
- Devroye, Luc (with Krzyżak, Adam) An equivalence theorem for L_1 convergence of the kernel regression estimate. **91a:62102**
- Doukhan, Paul (with León R., José Rafael) Déviation quadratique d'estimateurs de densité par projections orthogonales. (English summary) [Quadratic deviation of projection density estimates] **91a:62103**
- Györfi, László (with Härdle, Wolfgang; Sarda, Pascal; Vieu, Philippe) ★ Nonparametric curve estimation from time series. **91a:62104**
- Härdle, Wolfgang *see* Györfi, László; et al., **91a:62104**
- Ioffe, M. O. (with Katkovnik, V. Ya.) Pointwise and uniform convergence with probability 1 of nonparametric regression estimates. **91a:62105**
- (with Katkovnik, V. Ya.) The rate of pointwise and uniform convergence with probability 1 of nonparametric estimates for the regression function and its derivatives. **91a:62106**
- Katkovnik, V. Ya. *see* Ioffe, M. O., **91a:62105** and **91a:62106**
- Krzyżak, Adam *see* Devroye, Luc, **91a:62102**
- León R., José Rafael *see* Doukhan, Paul, **91a:62103**
- Marron, J. S. *see* Chiu, Shean-Tsong. (Not in MR)
- Mielniczak, Jan *see* Čwik, J., **91a:62101**
- Sarda, Pascal *see* Györfi, László; et al., **91a:62104**
- Taylor, Charles C. Bootstrap choice of the smoothing parameter in kernel density estimation. **91a:62107**
- Vieu, Philippe *see* Györfi, László; et al., **91a:62104**
- Items with secondary classifications in 62G07
- Burman, Prabir Rate of convergence of the spline estimates for Markov chains. **91d:62130**

Chen, Xi Ru (with Zhao, Lin Cheng) Necessary and sufficient conditions for the convergence of integrated and mean-integrated r th order error of histogram density estimates. 91g:62032

Zhao, Lin Cheng see Chen, Xi Ru, 91g:62032

62G09 Resampling methods

Babu, Guttu Jogesh Applications of Edgeworth expansions to bootstrap—a review. 91m:62076

— see also Singh, Kesar, 91h:62046

Banks, David L. Histopline smoothing the Bayesian bootstrap. 91f:62081

Borovskikh, Yu. V. see Korolyuk, V. S., 91f:62082

Daniels, H. E. see Young, G. A., (Not in MR)

Dandin, J.-J. (with Duby, C.; Trécourt, P.) PCA stability studied by the bootstrap and the infinitesimal jackknife method. 91c:62048

Dehling, Herold (with Denker, Manfred; Woyczyński, Wojbor A.) Resampling U -statistics using p -stable laws. 91f:62059

Denker, Manfred see Dehling, Herold; et al., 91f:62059

Dikta, Gerhard (with Ghorai, J. K.) Bootstrap approximation with censored data under the proportional hazard model. 91g:62030

Donegani, M. Asymptotic and approximative distribution of a statistic by resampling with or without replacement. (Not in MR)

Duby, C. see Dandin, J.-J.; et al., 91c:62048

Efron, Bradley Three examples of computer-intensive statistical inference. 91c:62109

Falk, Michael Weak convergence of the maximum error of the bootstrap quantile estimate. 91h:62045

Faraway, Julian J. Bootstrap selection of bandwidth and confidence bands for nonparametric regression. (Not in MR)

Fisher, Nicholas I. (with Hall, Peter Gavin) Bootstrap algorithms for small samples. (Not in MR)

Ghorai, J. K. see Dikta, Gerhard, 91g:62030

Hall, Peter Gavin Antithetic resampling for the bootstrap. 91a:62108

— On efficient bootstrap simulation. 91k:62044

— Using the bootstrap to estimate mean squared error and select smoothing parameter in nonparametric problems. 91h:62060

— On the relative performance of bootstrap and Edgeworth approximations of a distribution function. 91m:62077

— (with Pittelkow, Y. E.) Simultaneous bootstrap confidence bands in regression. (Not in MR)

— Performance of balanced bootstrap resampling in distribution function and quantile problems. 91c:62049

— see also Fisher, Nicholas I., (Not in MR)

Hinkley, D. V. (with Shi, Sheng G.) Importance sampling and the nested bootstrap. 91h:62061

Korolyuk, V. S. (with Borovskikh, Yu. V.) An elementary symmetric bootstrap-polynomial. (Russian. English summary) 91f:62082

Müller, Paul Hermann The jackknife and bootstrap approach in regression analysis. (see 91f:60007)

Pittelkow, Y. E. see Hall, Peter Gavin, (Not in MR)

Rajarshi, M. B. Bootstrap in Markov-sequences based on estimates of transition density. 91j:62052

Romano, Joseph P. Do bootstrap confidence procedures behave well uniformly in P ? (French summary) 91f:62083

Shao, Jun¹ Bootstrap variance and bias estimation in linear models. (French summary) 91f:62084

Shi, Sheng G. see Hinkley, D. V., 91h:62061

Shi, Xi Quan² Smooth bootstrap approximation in the independent, not identically distributed case. (Chinese) 91f:62085

Singh, Kesar (with Babu, Guttu Jogesh) On asymptotic optimality of the bootstrap. 91h:62046

Trécourt, P. see Dandin, J.-J.; et al., 91c:62048

Woyczyński, Wojbor A. see Dehling, Herold; et al., 91f:62059

Young, Alastair Nonparametric smoothing of the bootstrap. (see 91j:60004)

Young, G. A. (with Daniels, H. E.) Bootstrap bias. (Not in MR)

— Alternative smoothed bootstraps. (Not in MR)

Zhou, Yong² Bootstrap approximation of Hodges-Lehmann estimators for two samples. (Chinese. English summary) 91a:62109

Items with secondary classifications in 62G09

Arcones, Miguel A. The bootstrap of the mean with arbitrary bootstrap sample size. (French summary) 91d:62019

Athreya, K. B. Bootstrap of the mean in the infinite variance case. (see 91j:60004)

Chen, Jia Hua see Shi, Xi Quan²; et al., 91j:60059

Dutta, Jayasri On resampling inference in econometric models. 91c:62280

Hall, Peter Gavin Asymptotic properties of the bootstrap for heavy-tailed distributions. 91j:60042

— Pseudo-likelihood theory for empirical likelihood. 91h:62052

— Edgeworth expansions for nonparametric density estimators, with applications. 91m:62062

Helmers, R. (with Janssen, Paul; Serfling, Robert J.) Berry-Esséen and bootstrap results for generalized L -statistics. 91c:62125

Horváth, Lajos see Yandell, Brian S., 91h:62211

Janssen, Paul see Helmers, R.; et al., 91c:62125

Lee, Kee-Won Bootstrapping logistic regression models with random regressors. 91m:62114

Léger, Laurent Error prediction and model selection in projection pursuit regression. (Italian. English summary) 91m:62115

Morton, Sally C. Bootstrap confidence intervals in a complex situation: a sequential paired clinical trial. (Not in MR)

Moulton, Lawrence H. (with Zeger, Scott L.) Bootstrapping generalized linear models. 91m:62130

Rayner, Robert K. Bootstrap tests for generalized least squares regression models. 91j:62095

Sen, Pranab Kumar Functional approaches in resampling plans: a review of some recent developments. 91c:62004

Serfling, Robert J. see Helmers, R.; et al., 91c:62125

Shi, Xi Quan¹ (with Wu, C.-F. J.; Chen, Jia Hua) Weak and strong representations for quantile processes from finite populations with application to simulation size in resampling inference. (French summary) 91j:60059

Stute, Winfried Bootstrap of the linear correlation model. 91f:62122

Thomas-Agnan, Christine Smoothing periodic curves by a method of regularization. 91m:62074

Wu, C.-F. J. On the asymptotic properties of the jackknife histogram. 91f:62078

— see also Shi, Xi Quan¹; et al., 91j:60059

Yandell, Brian S. (with Horváth, Lajos) Bootstrapped multi-dimensional product limit process. 91h:62211

Zeger, Scott L. see Moulton, Lawrence H., 91m:62130

62G10 Hypothesis testing

Abdushukurov, A. A. Some variants of statistics of two-sample tests under random censoring. (Russian) 91d:62054

Adler, Robert J. (with Brown, Lawrence D.; Lu, Kun Liang) Tests and confidence bands for bivariate cumulative distribution functions. (Not in MR)

Ahluwalia, Rashpal see Rohatgi, Vijay K.; et al., 91j:62057

Ahmad, R. see Choi, Y. J.; et al., 91a:62110

Ali, M. Masoom see Umbach, Dale, (Not in MR)

Aly, Emad-Eldin A. A simple test for dispersive ordering. 91c:62110

— On some tests for exponentiality against IFR alternatives. 91f:62086

Amita (with Kocher, Subhash C.) Some distribution-free tests for testing homogeneity of location parameters against ordered alternatives. 91h:62045

Antoch, J. (with Hušková, M.) Some M -tests for detection of a change in linear models. 91c:62111

Aras, Girish (with Jammalamadaka, S. Rao; Kafai, Mohammad) A rank test for stochastically ordered alternatives. 91d:62055

Ascher, Steven A survey of tests for exponentiality. (Not in MR)

Auinger, Karl Ein Anpassungstest für exponentialverteilte Variable. (English summary) [A goodness-of-fit test for exponentially distributed variables] 91d:62056

Baringhaus, L. (with Henze, N.) A test for uniformity with unknown limits based on D'Agostino's D . 91f:62087

de Beer, C. F. see Swanepoel, J. W. H., (Not in MR)

Behnen, Konrad Rank processes and tied observations. 91c:62112

Bell, C. B. see Choi, Y. J.; et al., 91a:62110

Blum, Gilles An invariance principle for the changepoint problem. 91h:62080

Brits, S. J. M. (with Lemmer, H. H.) An adjusted Friedman test for the nested design. 91f:62053

Brown, Lawrence D. see Adler, Robert J.; et al., (Not in MR)

Bure, V. M. A criterion for randomness, based on sign differences for time series with a finite set of admissible values of the variable. (Russian) 91g:62031

Chakraborti, S. A one-sided test of homogeneity against simple tree alternative for right-censored data. (Not in MR)

— A class of tests for homogeneity of quantiles under unequal right-censorship. 91c:62113

Cheng, Kuang Fu (with Hsiung, Chin Yuan) Testing equality of two Weibull distributions with jointly type II censored samples. 91h:62081

Choi, Y. J. (with Bell, C. B.; Ahmad, R.; Park, Chong Jin) Signal detection for uniform renewal processes. 91a:62110

Csörgő, Sándor Testing for the proportional hazards model of random censorship. 91c:62114

Domanski, Czesław (with Tomaszewicz, Andrzej S.) Conditional number-of-runs and length-of-run distributions. (see 91f:90007)

Donegani, M. A nonparametric procedure for choosing a location test. (Not in MR)

Drost, F. C. (with Oosterhoff, J.; Kallenberg, Wilbert C. M.) On chi-squared goodness-of-fit tests for location-scale models. (see 91j:60004)

Finelli, George B. see Lee, Larry, 91f:62088

Fisher, Nicholas I. (with Hall, Peter Gavin) On bootstrap hypothesis testing. (Not in MR)

Gall, Mitchell H. see Wicand, Sam; et al., 91h:62084

Govindarajulu, Z. see Shetty, Ishwar D., 91d:62062

Gupta, Rajenda P. see Kocher, Subhash C., 91j:62055

Guttorp, Peter (with Lockhart, R. A.) On the asymptotic distributions of high-order spacings statistics. (French summary) (Not in MR)

Haara, Pentti A note on the asymptotic behaviour of the empirical score in Cox's regression model for counting processes. (see 91j:60003)

Habib, Mohamed Gamal Efficiency and power comparisons of goodness-of-fit tests for the Weibull distribution in the case of censored data. (Not in MR)

Hall, Peter Gavin see Fisher, Nicholas I., (Not in MR)

Hallin, Marc (with Laforet, Annie; Mélard, Guy) Distribution-free tests against serial dependence: signed or unsigned ranks? (Not in MR)

He, Ying Hui Intervals of uniform convergence for probabilities of large deviations of simple linear rank statistics. (Chinese. English summary) 91d:62057

Henze, N. see Baringhaus, L., 91f:62087

Hjort, Nils Lfd Goodness of fit tests in models for life history data based on cumulative hazard rates. 91h:62062

Hsiung, Chin Yuan see Cheng, Kuang Fu, 91h:62081

Huškova, M. Adaptive procedures for detection of change. (see 91j:60004)

— see also Antoch, J., 91c:62111

Jain, Madhu Bala see Sen, Kanwar, (Not in MR)

James, Barry R. see Wicand, Sam; et al., 91h:62084

James, Kang L. see Wicand, Sam; et al., 91h:62084

Jammalamadaka, S. Rao (with Zhou, Xian; Tiwari, Ram C.) Asymptotic efficiencies of spacings tests for goodness of fit. 91j:62054

— see also Aras, Girish; et al., 91d:62055

- Janssen, Arnold Local asymptotic normality for randomly censored models with applications to rank tests. 91j:62082
- Jerdack, George R. (with Sen, Pranab Kumar) Nonparametric test of restricted interchangeability. 91j:62115
- Ji, Ping see Rohatgi, Vijay K.; et al., 91j:62057
- Johnson, Richard A. (with Morrell, Christopher H.) Two sample rank tests under a random truncation model. 91m:62078
- Juang, Shing-Her (with Wolfe, Douglas A.) Nonparametric changepoint procedures for repeated measures data. (Not in MR)
- Kafai, Mohammad see Aras, Girish; et al., 91d:62055
- Kallenberg, Wilbert C. M. see Drost, F. C.; et al., (91j:60004)
- Khan, Khushnood A. see Tracy, Derrick S.; (Not in MR)
- King, Dennis W. (with Longnecker, Michael T.) Computing the distribution of the Wilcoxon statistic with applications to process control. (Not in MR)
- Kocher, Subhash C. (with Gupta, Rajenda P.) Distribution-free tests based on sub-sample extrema for testing against positive dependence. 91j:62055
- see also Amita, 91k:62045
- Kolia, Georgia D. see Mudholkar, Govind S.; et al., (Not in MR)
- Konev, V. V. see Vorobeichikov, S. E.; 91e:62123
- Kozek, Andrzej S. A nonparametric test of fit of a linear model. 91d:62058
- Laforet, Annie see Hallin, Marc; et al., (Not in MR)
- Laska, Eugene M. (with Meisner, Morris J.) Testing whether an identified treatment is best. (French summary) 91d:62059
- Lee, Larry (with Finelli, George B.) A transformation for testing the fit of an exponential order statistics model. 91f:62088
- Leipus, R. Functional limit theorems for rank statistics in a "change point" problem. (Russian. English and Lithuanian summaries) 91j:62063
- Lemmer, H. H. see Brits, S. J. M.; 91j:62053
- Leonen, R. S. Asymptotic behavior of P -values for Kolmogorov-Smirnov goodness-of-fit tests. 91a:62111
- Lia, C. Thomas see Mudholkar, Govind S.; et al., (Not in MR)
- Lockhart, R. A. see Guttorf, Peter; (Not in MR)
- Longnecker, Michael T. see King, Dennis W.; (Not in MR)
- Lu, Kun Liang see Adler, Robert J.; et al., (Not in MR)
- Luganberg, D. An approximate Bartlett adjustment for testing the goodness of fit of multinomial regression models. (Not in MR)
- Madhava Rao, K. S. see Mehra, K. L.; et al., 91m:62080
- Maiboroda, R. E. A median test for the homogeneity of a sample. (Russian) 91m:62079
- Mansouri, Hossein Linear rank tests for homogeneity against ordered alternatives in ANOVA and ANOCOVA. 91d:62060
- Rank tests for ordered alternatives in analysis of variance. 91b:62083
- Matveichuk, S. A. (with Petunin, Yu. I.) Generalized Bernoulli schemes that arise in order statistics. I. 91j:62056
- McAlevey, L. G. see Rayner, J. C. W.; (Not in MR)
- Mehra, K. L. (with Narashimha Prasad, N. G.; Madhava Rao, K. S.) A class of nonparametric tests for the one-sample location problem. 91m:62080
- Meisner, Morris J. see Laska, Eugene M.; 91d:62059
- Méland, Guy see Hallin, Marc; et al., (Not in MR)
- Mironova, I. Yu. A criterion for testing normality based on a large number of samples. (Russian) (see 91b:60003)
- Mirvaliev, M. Chi-squared test statistics based on subsamples. (see 91j:60004)
- Morrell, Christopher H. see Johnson, Richard A.; 91m:62078
- Mudholkar, Govind S. (with Kolia, Georgia D.; Lin, C. Thomas; Patel, Kartik R.) A graphical procedure for comparing goodness-of-fit tests. (Not in MR)
- Narashimha Prasad, N. G. see Mehra, K. L.; et al., 91m:62080
- Neuhäus, Georg Linear rank tests with estimated score functions for the two-sample problem with randomly censored data. 91e:62116
- Nikitin, Ya. Yu. On Hodges-Lehmann indices of nonparametric tests. (see 91j:60004)
- Chernoff efficiency of the sign and Wilcoxon tests for testing the hypothesis of symmetry. (Russian) 91e:62117
- Öhman, Marie-Louise A Monte Carlo study of some censored data Wilcoxon rank tests. (Not in MR)
- Oosterhoff, J. see Drost, F. C.; et al., (91j:60004)
- Park, Chong Jin see Choi, Y. J.; et al., 91a:62110
- Patel, Kartik R. see Mudholkar, Govind S.; et al., (Not in MR)
- Peters, Dawn see Randles, Ronald H.; (Not in MR)
- Petunin, Yu. I. see Matveichuk, S. A.; 91j:62056
- Prasanna, Jaap Efficiency of nonparametric tests for scale shift at an unknown time point. 91e:62118
- Rama Krishnaiah, Y. S. see Rao, M. Sudhakara; 91d:62061
- Randles, Ronald H. (with Peters, Dawn) Multivariate rank tests for the two-sample location problem. (Not in MR)
- Rao, M. Sudhakara (with Rama Krishnaiah, Y. S.) Weak convergence of signed processes under strong mixing. 91d:62061
- Rayner, J. C. W. (with McAlevey, L. G.) Smooth goodness of fit tests for categorised composite null hypotheses. (Not in MR)
- Roehmel, Joachim see Streiberg, Bernd; (Not in MR)
- Rohatgi, Vijay K. (with Saleh, A. K. Md. Ehsanes; Ahluwalia, Rashpal; Ji, Ping) Locally most powerful tests for the two sample problem when the combined sample is type II censored. 91j:62057
- Rosenbaum, P. R. Sensitivity analysis for matched observational studies with many ordered treatments. 91e:62119
- Saleh, A. K. Md. Ehsanes see Rohatgi, Vijay K.; et al., 91j:62057
- Schemper, Michael A closed-form jackknife solution for the Behrens-Fisher problem. (German summary) (Not in MR)
- Sen, Kanwar (with Jain, Madhu Bala) A test for bivariate exponentiality against BHNBLUE alternative. (Not in MR)
- Sen, Pranab Kumar see Jerdack, George R.; 91e:62115 and Tsai, Ming-Tan M.; 91m:62082
- Seoh, Munsup Berry-Essen-type bounds for signed linear rank statistics with a broad range of scores. 91j:62058
- Shanbhag, Ashok A class of distribution-free tests for two-way layout. 91j:62059
- Shetty, Ishwar D. (with Govindarajulu, Z.) An LMP rank test for random effects: its asymptotic distribution under local alternatives and asymptotic relative efficiency. 91d:62062
- Shirahata, Shingo Rank tests for the k -sample problem based on a linked line chart. 91m:62081
- Strasser, Helmut Global extrapolation of local efficiency. 91e:62120
- Streitberg, Bernd (with Roehmel, Joachim) On tests that are uniformly more powerful than the Wilcoxon-Mann-Whitney test. (French summary) (Not in MR)
- Swanepoel, J. W. H. (with de Beer, C. F.) A powerful test for uniformity to detect highly peaked alternative densities. (Not in MR)
- Terpstra, T. J. Asymptotically optimal nonparametric experimental design tests for the log linear model under censoring. 91a:62112
- Tiwari, Ram C. see Jammalamadaka, S. Rao; et al., 91j:62054
- Tomaszewicz, Andrzej S. see Domański, Czesław; (91f:90007)
- Tracy, Derrick S. (with Khan, Khushnood A.) Comparison of some MRPP and standard rank tests for three equal sized samples. (Not in MR)
- Tsai, Ming-Tan M. (with Sen, Pranab Kumar) Asymptotically efficient rank MANOVA tests for restricted alternatives in randomized block designs. 91m:62082
- Umbach, Dale (with Ali, M. Masoom) Three goodness-of-fit tests based on selected order statistics. (Not in MR)
- Vasudevan, M. On Kolmogorov-Smirnov type aligned test in k -sample linear regression. 91e:62121
- Volkova, L. Yu. Nonparametric tests in problems of accumulation of incomplete data. (Russian) 91e:62122
- Vorobeichikov, S. E. (with Konev, V. V.) On the detection of change points in dynamical systems. 91e:62123
- Wienand, Sam (with Gail, Mitchell H.; James, Barry R.; James, Kang L.) A family of nonparametric statistics for comparing diagnostic markers with paired or unpaired data. 91f:62084
- Wolfe, Douglas A. see Juang, Shing-Her; (Not in MR)
- Wu, Tzee-Jian Contiguous alternatives which preserve Cramér-type large deviations for a general class of statistics. 91k:62046
- L_1 nonuniform central limit bounds for generalized rank statistics. 91d:62063
- Yao, Yi-Ching On the asymptotic behavior of a class of nonparametric tests for a change-point problem. 91e:62124
- Zhou, Xian see Jammalamadaka, S. Rao; et al., 91j:62054
- Zieliński, Ryszard Robustness of the one-sided Mann-Whitney-Wilcoxon test to dependency between samples. (Not in MR)

Items with secondary classifications in 62G10

Aki, Sigee (with Kashiwagi, Nobuhisa) Asymptotic properties of some goodness-of-fit tests based on the L^1 -norm. 91d:62018

Aly, Emad-Eldin A. A. On testing exponentiality against IFRA alternatives. 91e:62251

— Normalized spacings and goodness-of-fit tests. (Not in MR)

— Testing exponentiality against IFRA or NBU alternatives with type II censored data. 91m:62175

Azharov, T. A. see Tsirenbat, O.; (Not in MR)

Babbel, Beate Invariance principles for U -statistics and von Mises functionals. 91a:60086

Bagai, Isha (with Deshpande, Jayant V.; Kocher, Subhash C.) Distribution free tests for stochastic ordering in the competing risks model. 91a:62261

Bandyopadhyay, Dipankar (with Basu, Asit P.) A class of tests for exponentiality against decreasing mean residual life alternatives. 91j:62139

Basu, Asit P. see Bandyopadhyay, Dipankar; 91j:62139

Best, D. J. see Rayner, J. C. W.; 91a:62053

Bickel, Peter J. Efficient testing in a class of transformation models: an outline. (see 91j:60004)

Blough, David K. Multivariate symmetry via projection pursuit. 91g:62050

Boldin, M. V. On hypothesis testing in a moving average scheme by the Kolmogorov-Smirnov and the ω^2 tests. 91d:62134

Borovikov, V. P. Functional limit theorems for additive spacing and frequency statistics. (Russian) (see 91b:60003)

Carroll, Raymond J. see Yin, Y.; 91g:62048

Cheng, R. C. H. (with Stephens, M. A.) A goodness-of-fit test using Moran's statistic with estimated parameters. 91a:62074

Crowley, John J. see Jones, Michael P.; 91a:62287

Csörgő, Sándor (with Welsh, A. H.) Testing for exponential and Marshall-Olkin distributions. 91g:62019

Darkhovskii, B. S. Nonparametric methods in problems on the change point of a random sequence. (Russian) 91m:62058

Deshpande, Jayant V. see Bagai, Isha; et al., 91a:62261

Dietz, E. Jacqueline Multivariate generalizations of Jonckheere's test for ordered alternatives. 91h:62054

Drost, F. C. (with Kallenberg, Wilbert C. M.; Moore, D. S.; Oosterhoff, J.) Asymptotic error bounds for power approximations to multinomial tests of fit. 91a:62056

Durbin, James First passage densities of Gaussian and point processes to general boundaries with special reference to Kolmogorov-Smirnov tests when parameters are estimated. (see 91j:60004)

Efron, Bradley Three examples of computer-intensive statistical inference. 91e:62109

Figurnov, V. E. see Tyurin, Yu. N.; 91e:65017

Fleming, Thomas R. see Therneau, Terry M.; et al., 91e:62241

Goetghebuer, Els (with Ryan, Louise) A modified log rank test for competing risks with missing failure type. 91a:62266

Grambsch, Patricia M. see Therneau, Terry M.; et al., 91e:62241

Hallin, Marc (with Méland, Guy) Rank-based tests for randomness against first-order serial dependence. 91d:62138

Harel, Michel (with Puri, Madan Lal) Limiting behavior of U -statistics, V -statistics, and one sample rank order statistics for nonstationary absolutely regular processes. 91m:60006

— (with Puri, Madan Lal) Weak convergence of serial rank statistics under dependence with applications in time series and Markov processes. 91h:60029

- (with Puri, Madan Lal) Weak convergence of the serial linear rank statistic with unbounded scores and regression constants under mixing conditions. 91b:60030
- Jones, Michael P. (with Crowley, John J.) A general class of nonparametric tests for survival analysis. (French summary) 91a:62287
- Kallenberg, Wilbert C. M. see Drost, F. C.; et al., 91a:62056
- Karunamuni, Rohana Some improvements on empirical Bayes testing in Lebesgue-exponential families. 91a:62015
- Kashiwagi, Nobuhisa see Aki, Sigeo, 91d:62018
- Kocher, Subhash C. see Bagai, Ishu; et al., 91a:62261
- Margolin, Barry H. see Simpson, Douglas G., 91d:62066
- Méland, Guy see Hallin, Marc, 91d:62138
- Milbrodt, Hartmut (with Strasser, Helmut) On the asymptotic power of the two-sided Kolmogorov-Smirnov test. 91b:62066
- Moore, D. S. see Drost, F. C.; et al., 91a:62056
- Oosterhoff, J. see Drost, F. C.; et al., 91a:62056
- Puri, Madan Lal see Harel, Michel, 91a:60006; 91b:60029 and 91b:60030
- Rayner, J. C. W. (with Best, D. J.) ★ Smooth tests of goodness of fit. 91a:62053
- Robinson, P. M. Hypothesis testing in semiparametric and nonparametric models for econometric time series. 91b:62095
- Ryan, Louise see Goetghebuer, Els, 91a:62266
- Seoh, Munsup An elementary proof of CLT for signed rank statistics with regression constants under hypothesis of symmetry. 91a:62033
- Shannugam, Ramalingam Asymptotic homogeneity tests for mean exponential family distributions. 91b:62037
- Shiraishi, Taka-aki *M*-tests in multivariate models. 91b:62074
- Simpson, Douglas G. (with Margolin, Barry H.) Nonparametric testing for dose-response curves subject to downturns: asymptotic power considerations. 91d:62066
- Stephens, M. A. see Cheng, R. C. H., 91a:62074
- Strasser, Helmut see Milbrodt, Hartmut, 91b:62066
- Therneau, Terry M. (with Grambsch, Patricia M.; Fleming, Thomas R.) Martingale-based residuals for survival models. 91a:62241
- Thompson, Gerald L. Asymptotic distribution of rank statistics under dependencies with multivariate application. 91b:62047
- Tserenbat, O. (with Azlarov, T. A.) An estimate for the rate of convergence of distributions of a modified chi-squared statistic for testing composite hypotheses. (Russian) (Not in MR)
- Tyurin, Yu. N. (with Figurnov, V. E.) Testing random number generators. 91a:65017
- Welsh, A. H. see Csörgő, Sándor, 91b:62019
- Wu, Tzee-Jian A note on the L_p nonuniform rates of convergence to normality for signed linear rank statistics. 91b:62028
- Yin, V. (with Carroll, Raymond J.) A diagnostic for heteroscedasticity based on the Spearman rank correlation. 91b:62048
- Zieliński, Ryszard The robustness of certain two-sample tests to the violation of the assumption of the independence of samples. (Polish. English summary) 91a:62054
- Zitikis, Ritasdas Asymptotic expansions for derivatives of the distribution function of the Anderson-Darling statistic. (Russian. English and Lithuanian summaries) 91a:62047
- ### 62G15 Tolerance and confidence regions
- Bristel, D. R. Distribution-free confidence intervals for the difference between quantiles. (Not in MR)
- Carroll, Raymond J. (with Sacks, Jerome; Spiegelman, Cliff H.) Correction to: "A quick and easy multiple-use calibration-curve procedure" [Technometrics 30 (1988), no. 2, 137-141; MR 89d:62038]. (Not in MR)
- Chung, Chang-Jo F. (with Csörgő, Miklós; Horváth, Lajos) Confidence bands for quantile function under random censorship. 91b:62083
- Csörgő, Miklós see Chung, Chang-Jo F.; et al., 91a:62083
- Furnival, George M. (with Gregoire, Timothy G.; Valentine, Harry T.) Confidence intervals and significance tests for a single trial. 91a:62113
- Gregoire, Timothy G. see Furnival, George M.; et al., 91a:62113
- Hall, Peter Gavin (with Martin, Michael A.) A note on the accuracy of bootstrap percentile method confidence intervals for a quantile. 91d:62064
- Horváth, Lajos see Chung, Chang-Jo F.; et al., 91a:62083
- Huet, S. (with Jolivet, E.; Messéan, A.) Some simulations results about confidence intervals and bootstrap methods in nonlinear regression. (Not in MR)
- Jolivet, E. see Huet, S.; et al., (Not in MR)
- Martin, Michael A. see Hall, Peter Gavin, 91d:62064
- Messéan, A. see Huet, S.; et al., (Not in MR)
- Qin, Hong Sequential nearest neighbour density estimation. (Chinese. English summary) 91b:62085
- Sacks, Jerome see Carroll, Raymond J.; et al., (Not in MR)
- Spiegelman, Cliff H. see Carroll, Raymond J.; et al., (Not in MR)
- Valentine, Harry T. see Furnival, George M.; et al., 91a:62113
- Items with secondary classifications in 62G15
- Beirlant, Jan (with Deheuvels, Paul) On the approximation of P-P and Q-Q plot processes by Brownian bridges. 91b:60081
- Biden, Edmund N. see Olshen, Richard A.; et al., 91b:62122
- Csörgő, Sándor (with Mason, David M.) Bootstrapping empirical functions. 91a:62044
- Deheuvels, Paul see Beirlant, Jan, 91b:60081
- DiCiccio, Thomas J. (with Romano, Joseph P.) The automatic percentile method: accurate confidence limits in parametric models. (French summary) 91a:62087
- Dikta, Gerhard (with Ghorai, J. K.) Bootstrap approximation with censored data under the proportional hazard model. 91b:62030
- Ghorai, J. K. see Dikta, Gerhard, 91b:62030
- Gijbels, Irène (with Veraverbeke, Noël) Sequential fixed-width confidence intervals for quantiles in the presence of censoring. 91b:62168
- Hall, Peter Gavin (with Keenan, Daniel M.) Bootstrap methods for constructing confidence regions for hands. 91a:68230
- Horváth, Lajos see Yandell, Brian S., 91b:62211

- Keenan, Daniel M. see Hall, Peter Gavin, 91a:68230
- Martinezek, Adam T. Sequential estimation in regression models using analogues of trimmed means. 91d:62128
- Mason, David M. see Csörgő, Sándor, 91a:62044
- Morton, Sally C. Bootstrap confidence intervals in a complex situation: a sequential paired clinical trial. (Not in MR)
- Nychka, Douglas The average posterior variance of a smoothing spline and a consistent estimate of the average squared error. 91c:62042
- Olshen, Richard A. (with Biden, Edmund N.; Wyatt, Marilyn P.; Sutherland, David H.) Gait analysis and the bootstrap. 91b:62122
- Owen, Art Empirical likelihood ratio confidence regions. 91b:62037
- Quang, Pham Xuan Confidence intervals for densities in line transect sampling. (French summary) 91a:62275
- Romano, Joseph P. Do bootstrap confidence procedures behave well uniformly in P ? (French summary) 91b:62083
- see also DiCiccio, Thomas J., 91a:62087
- Shiraishi, Taka-aki *R*-estimators and confidence regions in one-way MANOVA. 91a:62184
- Sutherland, David H. see Olshen, Richard A.; et al., 91b:62122
- Veraverbeke, Noël see Gijbels, Irène, 91b:62168
- Wyatt, Marilyn P. see Olshen, Richard A.; et al., 91b:62122
- Yandell, Brian S. (with Horváth, Lajos) Bootstrapped multi-dimensional product limit process. 91b:62211

62G20 Asymptotic properties

- Bickel, Peter J. see Ritov, Y., 91b:62034
- Chen, Xi Ru (with Zhao, Lin Cheng) Necessary and sufficient conditions for the convergence of integrated and mean-integrated r th order error of histogram density estimates. 91b:62032
- Chiu, Shean-Tsong On the asymptotic distributions of bandwidth estimates. 91b:62064
- Dhar, Deepak see Mukhopadhyay, Anis C., (Not in MR)
- Eplett, W. J. R. Optimality ranges of tests under Bahadur efficiency. 91b:62086
- Golubev, G. K. (with Nussbaum, Michael) A risk bound in Sobolev class regression. 91b:62065
- Harris, Ian R. Predictive fit for natural exponential families. 91d:62065
- Helmers, R. (with Janssen, Paul; Serfling, Robert J.) Berry-Esséen and bootstrap results for generalized L -statistics. 91a:62125
- Jammalamadaka, S. Rao see Zhou, Xian, 91b:62087
- Janssen, Paul see Helmers, R.; et al., 91a:62125
- Kallenberg, Wilbert C. M. On local and nonlocal measures of efficiency. (see 91j:60004)
- Margolin, Barry H. see Simpson, Douglas G., 91d:62066
- Milbrodt, Hartmut (with Strasser, Helmut) On the asymptotic power of the two-sided Kolmogorov-Smirnov test. 91b:62066
- Möck, Joachim see Pham Dinh Tuan; et al., 91b:62033
- Mukhopadhyay, Anis C. (with Dhar, Deepak) Exponential model under random censorship. (Not in MR)
- Nussbaum, Michael see Golubev, G. K., 91b:62065
- Pham Dinh Tuan (with Möck, Joachim; Sroka, Lothar) Asymptotic normality of double-indexed linear permutation statistics. 91b:62033
- Ritov, Y. (with Bickel, Peter J.) Achieving information bounds in non and semiparametric models. 91b:62034
- Roth, G. Some rank tests for one-sided many-one comparisons. 91a:62114
- Schick, Anton (with Susarla, V.) An infinite-dimensional convolution theorem with applications to random censoring and missing data models. 91a:62115
- Serfling, Robert J. see Helmers, R.; et al., 91a:62125
- Simpson, Douglas G. (with Margolin, Barry H.) Nonparametric testing for dose-response curves subject to downturns: asymptotic power considerations. 91d:62066
- Sroka, Lothar see Pham Dinh Tuan; et al., 91b:62033
- Strasser, Helmut see Milbrodt, Hartmut, 91b:62066
- Susarla, V. see Schick, Anton, 91a:62115
- Thompson, Gerald L. Asymptotic distribution of rank statistics under dependencies with multivariate application. 91b:62047
- van der Vaart, A. W. On the asymptotic information bound. 91a:62116
- Zhao, Lin Cheng see Chen, Xi Ru, 91b:62032
- Zhou, Xian (with Jammalamadaka, S. Rao) Bahadur efficiencies of spacings test for goodness of fit. 91b:62087

Items with secondary classifications in 62G20

- Antoch, J. (with Hušková, M.) Some *M*-tests for detection of a change in linear models. 91a:62111
- Babu, Guttu Jogenah see Singh, Kesar, 91b:62046
- Bandyopadhyay, Dipankar (with Basu, Asit P.) A class of tests for exponentiality against decreasing mean residual life alternatives. 91j:62139
- Basu, Asit P. see Bandyopadhyay, Dipankar, 91j:62139
- Bednarski, T. On the convergence rate of robust procedures and local equivalence of Hellinger and total variation distances. 91b:62065
- Bickel, Peter J. (with Ritov, Y.) Estimating integrated squared density derivatives: sharp best order of convergence estimates. 91a:62079
- Booth, James G. (with Butler, Ronald W.) Randomization distributions and saddlepoint approximations in generalized linear models. 91a:62031
- Butler, Ronald W. see Booth, James G., 91a:62031
- Carroll, Raymond J. see Stefanski, Leonard A., 91j:62049 and (91b:62003)
- Chai, Gen Xiang Consistency of nearest-neighbor density estimates of stationary processes. (Chinese) 91j:62043
- Chen, Ping Nonparametric Bayesian estimation of survival functions with doubly censored data. (Chinese. English summary) 91b:62038
- Chen, Xi Ru Large sample statistics in China—a review of some recent contributions. 91a:62003
- Chervonenkis, A. Ya. see Vapnik, V. N., 91b:62011
- Cuevas, Antonio (with Sanz, Paloma) A class of qualitatively robust estimates. 91b:62068

- Deng, Ji Xian *see* Song, Xing Yuan, 91d:62146
- Dzhaparidze, K. On asymptotic efficiency of the Cox estimator. (see 91j:60004)
- Falk, Michael Weak convergence of the maximum error of the bootstrap quantile estimate. 91h:62045
- Gideon, Rudy A. (with Prentice, Michael J.; Pyke, Ronald) The limiting distribution of the rank correlation coefficient R_g . 91i:62034
- Govindarajulu, Z. *see* Shetty, Ishwar D., 91d:62062
- Gregory, Gavin G. Generalized Hodges-Lehmann estimators for the analysis of variance. 91f:62034
- Hall, Peter Gavin Antithetic resampling for the bootstrap. 91a:62108
- On efficient bootstrap simulation. 91h:62044
- Edgeworth expansions for nonparametric density estimators, with applications. 91m:62062
- Hanousek, J. Robust Bayesian type estimators and their asymptotic representation. 91e:62073
- Hu, Wei Hou Cheng (with Lee, Shioh Jen) On the relative efficiency of trimmed mean versus mean under mixed normal distributions. 91e:62074
- Hutková, M. *see* Antoch, J., 91e:62111
- Ingol, Tadeusz (with Ledwina, Teresa) On probabilities of excessive deviations for Kolmogorov-Smirnov, Cramér-von Mises and chi-square statistics. 91f:60076
- Jammalamadaka, S. Rao (with Zhou, Xian; Tiwari, Ram C.) Asymptotic efficiencies of spacings tests for goodness of fit. 91j:62054
- Janssen, Paul (with Veraverbeke, Noël; Serfling, Robert J.) U -statistics on Winsorized and trimmed samples. 91j:62060
- Jerdack, George R. (with Sen, Pranab Kumar) Nonparametric test of restricted interchangeability. 91e:62115
- Johnson, Richard A. (with Morrell, Christopher H.) Two sample rank tests under a random truncation model. 91m:62078
- Jurečková, Jana Consistency of M -estimators of vector parameters. 91e:62075
- Karunamuni, Rohana (with Mehra, K. L.) Improvements on strong uniform consistency of some known kernel estimates of a density and its derivatives. 91e:62091
- Knapov, P. S. A nonparametric estimate for a function in L_2 that is observed with an additive random noise. (Russian. English summary) 91j:62045
- Ledwina, Teresa *see* Ingol, Tadeusz, 91f:60076
- Lee, Shioh Jen *see* Hu, Wei Hou Cheng, 91e:62074
- Leung, Siu Fai (with Wong, Wing Hung) Nonparametric hazard estimation with time-varying discrete covariates. 91j:62046
- Liu, Regina Y. (with Singh, Kesar; Lo, Shaw-Hwa) On a representation related to the bootstrap. 91g:62035
- Lo, Shaw-Hwa *see* Liu, Regina Y.; et al., 91g:62035
- Madhava Rao, K. S. *see* Mehra, K. L.; et al., 91m:62000
- Madhoroda, R. E. A median estimate for the change point in the case of weakly dependent observations. (Russian) 91j:62047
- A median test for the homogeneity of a sample. (Russian) 91m:62079
- Mansouri, Hossain Linear rank tests for homogeneity against ordered alternatives in ANOVA and ANOCOVA. 91d:62060
- Mehra, K. L. (with Narashimha Prasad, N. G.; Madhava Rao, K. S.) A class of nonparametric tests for the one-sample location problem. 91m:62080
- *see also* Karunamuni, Rohana, 91e:62091
- Mehrotra, K. G. (with Schick, Anton; Susarla, V.) Estimation in two sample type II censoring models. 91e:62096
- Morrell, Christopher H. *see* Johnson, Richard A., 91m:62078
- Müller, Hans-Georg Adaptive nonparametric peak estimation. 91a:62093
- Narashimha Prasad, N. G. *see* Mehra, K. L.; et al., 91m:62000
- Neumann, Michael H. ★ Asymptotic results for kernel estimators of the mean vector and the heteroscedastic variance vector without replications at the design points. 91k:62040
- Nikitin, Ya. Yu. Chernoff efficiency of the sign and Wilcoxon tests for testing the hypothesis of symmetry. (Russian) 91e:62117
- Park, Byoung Uk Efficient estimation in the two-sample semiparametric location-scale models. 91e:62049
- Pesaran, M. Hashem (with Smith, Richard J.) A unified approach to estimation and orthogonality tests in linear single-equation econometric models. 91g:62087
- Phillips, Peter C. B. Time series regression with a unit root and infinite-variance errors. 91f:62152
- Praegman, Jaap Efficiency of nonparametric tests for scale shift at an unknown time point. 91e:62118
- Prentice, Michael J. *see* Gideon, Rudy A.; et al., 91i:62034
- Pyke, Ronald *see* Gideon, Rudy A.; et al., 91i:62034
- Ritov, Y. Estimation in a linear regression model with censored data. 91a:62096
- *see also* Nickel, Peter J., 91e:62079
- Sanz, Paloma *see* Cuevas, Antonio, 91f:62068
- Schick, Anton *see* Mehrotra, K. G.; et al., 91e:62096
- Sen, Pranab Kumar *see* Jerdack, George R., 91e:62115
- Serfling, Robert J. *see* Janssen, Paul; et al., 91j:62060
- Shao, Jun Bootstrap variance and bias estimation in linear models. (French summary) 91f:62084
- Shetty, Ishwar D. (with Govindarajulu, Z.) An LMP rank test for random effects: its asymptotic distribution under local alternatives and asymptotic relative efficiency. 91d:62062
- Shi, Zhan Loi du logarithme itéré pour le processus empirique associé aux U -statistiques. (English summary) [The law of iterated logarithm for the empirical process of U -statistic structure] 91d:60079
- Singh, Kesar (with Babu, Guttu Jogesh) On asymptotic optimality of the bootstrap. 91h:62046
- *see also* Liu, Regina Y.; et al., 91g:62035
- Smith, Richard J. *see* Pesaran, M. Hashem, 91g:62087
- Song, Xing Yuan (with Deng, Ji Xian) Strong consistency of estimates of parameters in multidimensional threshold autoregressive models. (Chinese. English summary) 91d:62146
- Stefanski, Leonard A. (with Carroll, Raymond J.) Structural logistic regression measurement error models. (see 91h:62003)
- (with Carroll, Raymond J.) Deconvoluting kernel density estimators. 91j:62049
- Stein, Michael L. A comparison of generalized cross validation and modified maximum likelihood for estimating the parameters of a stochastic process. 91e:62129
- Susarla, V. *see* Mehrotra, K. G.; et al., 91e:62096
- Tiwari, Ram C. *see* Jammalamadaka, S. Rao; et al., 91j:62054
- Tran, Lanh Tai Kernel density estimation under dependence. 91h:62044
- Tsybakov, A. B. Recurrent estimation of the mode of a multidimensional distribution. 91j:62051
- Vapnik, V. N. (with Chervonenkis, A. Ya.) Necessary and sufficient conditions for the consistency of the empirical risk minimization method. (Russian) 91i:62011
- Vasudaven, M. On Kolmogorov-Smirnov type aligned test in k -sample linear regression. 91e:62121
- Veraverbeke, Noël *see* Janssen, Paul; et al., 91j:62060
- Wong, Wing Hung *see* Leung, Siu Fai, 91j:62046
- Wu, C.-F. J. On the asymptotic properties of the jackknife histogram. 91f:62078
- Wu, Tzee-Jian A note on the L_p nonuniform rates of convergence to normality for signed linear rank statistics. 91h:62028
- Xue, Liu Gen Rates of convergence of kernel estimates for regression functions. (Chinese) 91f:62079
- Zhang, Cun Hui Fourier methods for estimating mixing densities and distributions. 91e:62058
- Zhang, Di Xin Rates of strong uniform convergence of nearest neighbor density estimates on any compact set. 91f:62080
- Zhou, Xian *see* Jammalamadaka, S. Rao; et al., 91j:62054

62G30 Order statistics; empirical distribution functions

- Ahmed, S. E. *see* Balakrishnan, Narayanaswamy; et al., 91e:62127
- Ahsanullah, M. (with Houchens, Robert L.) A note on record values from a Pareto distribution. 91a:62117
- Al-Osh, M. A. *see* Alzaid, Abdulhamid A., 91h:62088
- Alzaid, Abdulhamid A. (with Al-Osh, M. A.) Ordering probability distributions by tail behavior. 91h:62088
- Aras, Girish (with Jammalamadaka, S. Rao; Zhou, Xian) Limit distribution of spacings statistics when the sample size is random. 91e:62126
- Balakrishnan, Narayanaswamy (with Malik, Henrick J.; Ahmed, S. E.) Recurrence relations and identities for moments of order statistics. II. Specific continuous distributions. 91e:62127
- Bapat, R. B. (with Beg, M. L.) Identities and recurrence relations for order statistics corresponding to nonidentically distributed variables. 91a:62118
- (with Beg, M. L.) Order statistics for nonidentically distributed variables and permanents. 91e:62067
- Beg, M. L. *see* Bapat, R. B., 91a:62118 and 91e:62067
- David, H. A. *see* Kim, S. H., 91h:62090
- Davison, A. C. (with Smith, Richard L.) Models for exceedances over high thresholds. 91a:62048
- Devroye, Luc (with Györfi, László) No empirical probability measure can converge in the total variation sense for all distributions. 91f:62089
- Fang, Kai Tai (with Liang, Jia Juang) Inequalities for the partial sums of elliptical order statistics related to genetic selection. (French summary) (Not in MR)
- Györfi, László *see* Devroye, Luc, 91f:62089
- Haiman, George (with Puri, Madan Lal) A strong invariance principle concerning the J -upper order statistics for stationary m -dependent sequences. 91m:62084
- ul Haq, Masood Comparison of mid-range with median and arithmetic mean in logistic distribution. (Not in MR)
- Hesse, C. H. A Bahadur-type representation for empirical quantiles of a large class of stationary, possibly infinite-variance, linear processes. 91e:62068
- Hoover, Donald R. Bounds on expectations of order statistics for dependent samples. 91e:62119
- Hosking, J. R. M. L -moments: analysis and estimation of distributions using linear combinations of order statistics. 91h:62089
- Houchens, Robert L. *see* Ahsanullah, M., 91a:62117
- Jammalamadaka, S. Rao (with Wells, Martin T.) A test of goodness-of-fit based on extreme spacings with some efficiency comparisons. 91a:62120
- *see also* Aras, Girish; et al., 91e:62126
- Janssen, Paul (with Veraverbeke, Noël; Serfling, Robert J.) U -statistics on Winsorized and trimmed samples. 91j:62060
- Khamis, H. J. The δ -corrected Kolmogorov-Smirnov test for goodness of fit. (Not in MR)
- Khashimov, Sh. A. Asymptotic properties of functions of spacings. 91e:62128
- Kim, S. H. (with David, H. A.) On the dependence structure of order statistics and concomitants of order statistics. 91h:62090
- Kocher, Subhash C. Some partial ordering results on record values. 91j:62061
- Liang, Jia Juang *see* Fang, Kai Tai, (Not in MR)
- Lingappalath, Giri S. Prediction in samples from a generalized logistic population of first or second kind when an outlier is present. (Portuguese summary) 91f:62069
- Liu, Regina Y. (with Singh, Kesar; Lo, Shaw-Hwa) On a representation related to the bootstrap. 91g:62035
- Lo, Shaw-Hwa *see* Liu, Regina Y.; et al., 91g:62035
- Malik, Henrick J. *see* Balakrishnan, Narayanaswamy; et al., 91e:62127
- Mărgăritescu, Eugen (with Nicolae, T.) Best linear bounds for order statistics in terms of the mean and the generalized range. 91j:62062
- Mason, David M. (with Shorack, Galen R.) Necessary and sufficient conditions for asymptotic normality of trimmed L -statistics. 91h:62047
- Nagaraja, H. N. Some reliability properties of order statistics. 91g:62036
- Nicolae, T. *see* Mărgăritescu, Eugen, 91j:62062
- Owen, Art Empirical likelihood ratio confidence regions. 91g:62037
- Puri, Madan Lal *see* Haiman, George, 91m:62084
- Ramalingam, T. Symbolic computing the exact distributions of L -statistics from a uniform distribution. 91a:62121

- Rego, Vernon *see* Szpankowski, Wojciech, 91b:62091
- Sarda, Pascal (with Vieu, Philippe) Empirical distribution function for mixing random variables. Application in nonparametric hazard estimation. 91f:62090
- Sathe, Y. S. A note on the mean of the order statistics based on independent exponential random variables. (Not in MR)
- Serfling, Robert J. *see* Janssen, Paul; et al., 91j:62060
- Shorack, Galen R. *see* Mason, David M., 91b:62047
- Singh, Kesar *see* Liu, Regina Y.; et al., 91j:62035
- Smith, Richard L. *see* Davison, A. C., 91k:62048
- Szpankowski, Wojciech (with Rego, Vernon) Yet another application of a binomial recurrence. Order statistics. (German summary) 91b:62091
- Veraverbeke, Noël *see* Janssen, Paul; et al., 91j:62060
- Vieu, Philippe *see* Sarda, Pascal, 91f:62090
- Wells, Martin T. *see* Jammalamadaka, S. Rao, 91a:62120
- Zhou, Xian *see* Aras, Girish; et al., 91e:62126
- Items with secondary classifications in 62G30
- Abu-Salih, M. S. *see* Khan, Abdul Hamid, (Not in MR)
- Ahsanullah, M. On characterizations of the normal distribution. 91e:62026
- Aksent'ev, A. Transfer theorems in a max-scheme. (Russian. English and Lithuanian summaries) 91d:60049
- Aleksevich, Aldona Large deviations for linear combinations of order statistics. (Russian. English and Lithuanian summaries) 91e:60087
- Aly, Emad-Eldin A. A. On testing exponentiality against IFRA alternatives. 91e:62251
- Angus, John E. Application of extreme value theory to the BEC family of distributions. 91a:62124
- Arnold, Barry C. *see* Shanmugam, Ramalingam, 91e:62038
- Bairamov, I. G. (with Petunin, Yu. I.) The structure of invariant confidence intervals that contain the basic distributed mass. 91m:62048
- Balakrishnan, Narayanaswamy Improving the Hartley-David-Gumbel bound for the mean of extreme order statistics. 91a:62038
- Balasubramanian, Krishnaswami *see* Beg, M. I., 91m:62025
- Barakat, H. M. Limit theorems for lower-upper extreme values from two-dimensional distribution function. (Not in MR)
- Baringhaus, L. (with Henze, N.) A test for uniformity with unknown limits based on D'Agostino's D. 91f:62087
- Beg, M. I. (with Balasubramanian, Krishnaswami) Distributions determined by conditioning on a single order statistic. 91m:62025
- *see also* Khan, Abdul Hamid, 91b:62031
- Berred, Mohamed Lois du logarithme itéré pour les valeurs extrêmes des distributions appartenant au domaine d'attraction de la loi de Gumbel. (English summary) [Laws of iterated logarithm for extremes belonging to the domain of attraction of the Gumbel distribution] 91d:60069
- Laws of iterated logarithm for extremes belonging to the domains of attraction of the Fréchet and Weibull distributions. (French summary) 91d:60070
- Bretagnolle, J. (with Massart, P.) Hungarian constructions from the nonasymptotic viewpoint. 91b:60026
- Brown, Edward F. *see* Hassanein, Khatib M.; et al., 91a:62064
- Bruss, F. Thomas (with Jammalamadaka, S. Rao; Zhou, Xian) On an interval splitting problem. 91m:60027
- Buczelich, Zoltán (with Székely, Gábor J.) When is a weighted average of ordered sample elements a maximum likelihood estimator of the location parameter? 91e:62029
- Chen, Ji Hua *see* Shi, Xi Quan; et al., 91j:60059
- Coffman, E. G., Jr. (with Fayolle, Guy; Jacquet, Philippe; Robert, Philippe) Largest-first sequential selection with a sum constraint. 91f:60082
- Cohen, Jonathan P. Fitting extreme value distributions to maxima. 91e:62065
- Csörgő, Sándor (with Mason, David M.) Approximations of weighted empirical processes with applications to extreme, trimmed and self-normalized sums. (see 91j:60004)
- Limit theorems for sums of order statistics. 91f:60047
- (with Teugels, Jozef L.) Empirical Laplace transform and approximation of compound distributions. 91e:60050
- Cuevas, Antonio (with Sanz, Paloma) A class of qualitatively robust estimates. 91f:62068
- David, H. A. *see* Liu, Jingyu, 91j:62017
- Deheuvels, Paul (with Mason, David M.) Bahadur-Kiefer-type processes. 91j:60055
- (with Mason, David M.) Nonstandard functional laws of the iterated logarithm for tail empirical and quantile processes. 91j:60056
- Dekkers, Arnold L. M. (with de Haan, Laurens) On the estimation of the extreme-value index and large quantile estimation. 91b:62054
- (with Einmahl, John H. J.; de Haan, Laurens) A moment estimator for the index of an extreme-value distribution. 91b:62033
- Dixit, U. J. *see* Sathe, Y. S., 91k:62025
- Downey, Peter J. Distribution-free bounds on the expectation of the maximum with scheduling applications. 91b:90047
- Egorov, V. A. Functional law of the iterated logarithm for ordered sums. 91m:60058
- Einmahl, John H. J. (with Mason, David M.) A unifying approach to functional laws of the iterated logarithm and Glivenko-Cantelli theorems for weighted empirical processes. 91e:60085
- On the standardized empirical process. 91e:60098
- *see also* Dekkers, Arnold L. M.; et al., 91j:62033
- Falk, Michael Weak convergence of the remainder term in the Bahadur representation of extreme quantiles. 91e:62043
- Fang, Bi Qi (with Fang, Kai Tai) Distributions of order statistics of the I_1 -norm symmetric multivariate distributions and applications [Chinese J. Appl. Probab. Statist. 4 (1988), no. 1, 44-52; MR 89g:62075]. (see 91e:62006)
- Fang, Kai Tai *see* Fang, Bi Qi, 91e:62006
- Fayolle, Guy *see* Coffman, E. G., Jr.; et al., 91f:60082
- Fodor, János C. On domain of attraction of the double exponential distribution. 91j:60039
- Freimer, Marshall (with Kollia, Georgia D.; Mudholkar, Govind S.; Lin, C. Thomas) Extremes, extreme spacings and outliers in the Tukey and Weibull families. 91f:60066
- Gafurov, M. U. (with Khamdamov, I. M.) An estimate of the rate of convergence in the law of large numbers for sums of order statistics and their applications. (see 91f:60004)
- (with Kendzhaev, R. Kh.) Probabilistic inequalities for sums of order statistics when extremal terms are excluded. 91e:60019
- Genest, Christian (with Rivest, Louis-Paul) A characterization of Gumbel's family of extreme value distributions. 91b:62029
- Ghoral, J. K. Deficiency of the MLE of a smooth survival function under the proportional hazard model. 91f:62160
- Grill, Karl A note on the stochastic geyser problem. 91m:62061
- de Haan, Laurens (with Weissman, I.) The index of the outstanding observation among n independent ones. (see 91j:60004)
- Fighting the arch-enemy with mathematics. 91e:60137
- *see also* Dekkers, Arnold L. M., 91b:62054 and 91b:62033
- Hassanein, Khatib M. (with Saleh, A. K. Md. Ehsanes; Brown, Edward F.) Simultaneous estimation of the location and scale parameters of the chi-distribution by selected order statistics. 91a:62064
- Henze, N. *see* Baringhaus, L., 91f:62087
- Horváth, Lajos A note on the rate of Poisson approximation of empirical processes. 91m:60059
- Huang, Wen Tao (with Wu, Chin Ch'uan) Exponential subset selections based on censored data. 91j:62020
- Jacquet, Philippe *see* Coffman, E. G., Jr.; et al., 91f:60082
- Jammalamadaka, S. Rao *see* Bruss, F. Thomas; et al., 91m:60027
- Janssen, Arnold The domain of attraction of stable laws and extreme order statistics. 91e:60065
- Johnson, Norman Lloyd² (with Kotz, Samuel) Characterization of an absolutely continuous distribution by the distribution of any order statistic. 91e:62025
- Kendzhaev, R. Kh. *see* Gafurov, M. U., 91f:60019
- Khamdamov, I. M. *see* Gafurov, M. U., (91f:60004)
- Khan, Abdul Hamid (with Khan, R. U.) Relations among moments of order statistics in samples from doubly truncated Laplace and exponential distributions. (Not in MR)
- (with Beg, M. I.) Characterization of the Weibull distribution by conditional variance. 91b:62031
- (with Abu-Salih, M. S.) Characterizations of probability distributions by conditional expectation of order statistics. (Italian summary) (Not in MR)
- Khan, R. U. *see* Khan, Abdul Hamid, (Not in MR)
- Kim, Jeankyung (with Pollard, David) Cube root asymptotics. 91f:62059
- Kolchinskii, V. I. Convergence of empirical measures. (Russian) 91b:60007
- Kollia, Georgia D. *see* Freimer, Marshall; et al., 91f:60066
- Konakov, V. D. Maximal deviations of Gaussian processes and empirical density functions. (see 91j:60004)
- Kotz, Samuel *see* Johnson, Norman Lloyd², 91e:62025
- Kovar, J. G. *see* Rao, J. N. K.; et al., 91k:62018
- Kulperger, Reg Estimating nonlinear shifts in stationary mixing processes in the two-sample case. 91f:62070
- Lange, Nicholas (with Ryan, Louise) Assessing normality in random effects models. 91e:62177
- Leon'ev, R. S. Asymptotic behavior of P -values for Kolmogorov-Smirnov goodness-of-fit tests. 91a:62111
- Lin, C. Thomas *see* Freimer, Marshall; et al., 91f:60066
- Lin, Kuo Tung Characterizations of distributions via moments of order statistics: a survey and comparison of methods. 91m:62028
- *see also* Too, Yeu-Hua, 91a:62036
- Lingappaiah, Giri S. Inference in life tests based on a Weibull model when an outlier is present. (Not in MR)
- Liu, Jingyu (with David, H. A.) Quantiles of sums and expected values of ordered sums. 91j:62017
- Mantel, H. J. *see* Rao, J. N. K.; et al., 91k:62018
- Martin, R. Douglas (with Zamar, Ruben H.) Asymptotically min-max bias robust M -estimates of scale for positive random variables. 91a:62092
- Mason, David M. *see* Einmahl, John H. J., 91b:60005; Deheuvels, Paul, 91j:60055; 91j:60056 and Csörgő, Sándor, (91j:60004)
- Massart, P. The tight constant in the Dvoretzky-Kiefer-Wolfowitz inequality. 91i:60052
- *see also* Bretagnolle, J., 91b:60026
- Mudholkar, Govind S. *see* Freimer, Marshall; et al., 91f:60066
- Mukherjee, Arunava (with Stephens, Richard) Identification of parameters by the distribution of the maximum random variable: the general multivariate normal case. 91d:62069
- Nagaraja, H. N. Some characterizations of continuous distributions based on regressions of adjacent order statistics and record values. 91e:62035
- (with Sen, Pali; Srivastava, Ramesh Chandra³) Some characterizations of geometric tail distributions based on record values. 91e:62036
- Necir, Abdel Hakim Sur le comportement asymptotique des combinaisons linéaires de statistiques d'ordre extrêmes issues d'une distribution appartenant au domaine d'attraction de la loi de Gumbel. (English summary) [On the asymptotic behavior of linear combinations of extreme order statistics from a distribution in the domain of attraction of a Gumbel law] 91m:60053
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- Petunin, Yu. I. *see* Bairamov, I. G., 91m:62048
- Pollard, David Asymptotics via empirical processes. 91e:60112

— see also Kim, Jeankyung, 91f:62859

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Rao, J. N. K. (with Kovar, J. G.; Mantel, H. J.) On estimating distribution functions and quantiles from survey data using auxiliary information. 91k:62018

Rivest, Louis-Paul see Genest, Christian, 91b:62029

Robert, Philippe see Coffman, E. G., Jr.; et al., 91f:68082

Ryan, Louise see Lange, Nicholas, 91c:62177

Saleh, A. K. Md. Ehsanes see Hassanein, Khatib M.; et al., 91a:62064

Sanz, Paloma see Cuevas, Antonio, 91f:62068

Sathe, V. S. (with Dixit, U. J.) On a recurrence relation for order statistics. 91k:62025

Sen, Pall see Nagaraja, H. N.; et al., 91c:62036

Seoh, Munsoo An elementary proof of CLT for signed rank statistics with regression constants under hypothesis of symmetry. 91m:62033

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Shi, Xi Quan¹ (with Wu, C.-F. J.; Chen, Jia Hua) Weak and strong representations for quantile processes from finite populations with application to simulation size in resampling inference. (French summary) 91j:60059

Singh, Harshinder see Puri, Prem S., 91h:62043

Singh, Netra Pal² Bivariate extremes. (Not in MR)

Sobel, Milton (with Wells, Martin T.) Dirichlet integrals and moments of gamma distribution order statistics. 91c:62042

Srivastava, Ramesh Chandra³ see Nagaraja, H. N.; et al., 91c:62036

Stengle, Gilbert (with Yukich, J. E.) Some new Vapnik-Chervonenkis classes. 91f:60014

Stephens, Richard see Mukherjee, Arunava, 91d:62069

Szekely, Gábor J. see Buczelich, Zoltán, 91c:62029

Teugels, Josef L. see Csörgő, Sándor, 91c:60050

Tiago de Oliveira, J. Intrinsic estimation of the dependence structure for bivariate extremes. 91c:62101

Tao, Yen-Hua (with Lin, Kuo Tung) Characterizations of uniform and exponential distributions. 91a:62036

Vardi, Y. Multiplicative censoring, renewal processes, deconvolution and decreasing density: nonparametric estimation. 91b:62057

Voens, W. J. Stability of extremes with random sample size. 91c:60042

Weissman, I. see de Haan, Laurens, 91j:60004

Wells, Martin T. see Sobel, Milton, 91c:62042

Wu, C.-F. J. see Shi, Xi Quan¹; et al., 91j:60059

Wu, Chin Ch'uan see Huang, Wen T'ao, 91c:62020

Wu, Min Jia Percentiles of functions and ordered functions and their applications. (Chinese. English summary) (Not in MR)

Yang, Yong Xia The joint asymptotic distributions of upper and lower extremes in exchangeable sequences. (Chinese. English summary) 91c:60029

Yatzacos, Yannis G. A regression type problem. 91c:62046

Yoshikawa, Ken-ichi Conditional empirical processes defined by ϕ -mixing sequences. 91a:60091

Yukich, J. E. see Stengle, Gilbert, 91f:60014

Zamar, Ruben H. see Martin, E. Douglas, 91a:62092

Zhou, Xian see Brass, F. Thomas; et al., 91m:60027

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Zolotarev, V. M. Two analytic problems in probability theory. (Russian) 91b:60072

62G35 Robustness

Items with secondary classifications in 62G35

Cuevas, Antonio (with Sanz, Paloma) A class of qualitatively robust estimates. 91f:62068

Novotná, Jana M_n -estimators and gnostical estimators of location. (Russian summary) 91f:62073

Sanz, Paloma see Cuevas, Antonio, 91f:62068

Strasser, Helmut Global extrapolation of local efficiency. 91c:62120

62G99 None of the above, but in this section

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Bin Daud, I. see Pettitt, A. N., (Not in MR)

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Papaioannou, Takis see Lozka, Sotiris, (Not in MR)

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Gaver, D. P., Jr. (with Jacobs, Patricia A.) On inference concerning time-dependent queue performance: the $M/G/1$ example. 91f:60164

Greblicki, Włodzisław (with Pawlak, Mirosław) Nonparametric identification of Hammerstein systems. 91c:93095

Harel, Michel (with Puri, Madan Lal) Weak invariance of generalized U -statistics for nonstationary absolutely regular processes. 91c:60109

Jacobs, Patricia A. see Gaver, D. P., Jr., 91f:60164

Jacod, Jean Regularity, partial regularity, partial information process, for a filtered statistical model. 91m:62062

Möller, Olaf A fast statistical procedure solving Wicksell's corpuscle problem. (German and Russian summaries) 91d:60027

Pawlak, Mirosław see Greblicki, Włodzisław, 91c:93095

Puri, Madan Lal see Harel, Michel, 91c:60109

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Wahba, Grace (with Wang, Yong Hua) When is the optimal regularization parameter insensitive to the choice of the loss function? 91j:65201

Wang, Yong Hua see Wahba, Grace, 91j:65201

Yu, Kai Fun On a problem of counting by weighing. (French summary) 91c:62203

Zitikis, Ričardas see Bentkus, Vidmantas-Kastytis Jurgio, 91m:60048

62Hxx Multivariate analysis [see also 60Exx]

(Aivazyan, S. A.) see Multivariate statistical analysis and probabilistic modeling of real processes, 91h:62048

(Kuznetsov, S. E.) see Multivariate statistical analysis and probabilistic modeling of real processes, 91h:62048

Items listed otherwise than by author

Multivariate statistical analysis and probabilistic modeling of real processes ★ Многомерный статистический анализ и вероятностное моделирование реальных процессов. (Russian) [Multivariate statistical analysis and probabilistic modeling of real processes] 91h:62048

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Girko, V. L. ★ Theory of random determinants. 91k:60001

Hansohm, Jürgen ★ Die Behandlung qualitativer Datenstrukturen in quantitativen Analysemethoden durch das Prinzip der optimalen Skalierung. (German) [The treatment of qualitative data structures in quantitative methods of analysis, using the principle of optimal scaling] 91c:62001

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Banerjee, K. S. see Nagase, G., 91f:62092

Bhattacharya, Samir K. (with Saxena, Ashok K.) Multivariate modified Bessel distribution. 91c:62130

Block, Henry W. (with Chhetry, D.; Fang, Zhao Ben; Sampson, Allan R.) Partial orders on permutations and dependence orderings on bivariate empirical distributions. 91m:62086

Cabrera, Javier F. (with Watson, Geoffrey S.) On a spherical median related distribution. 91j:62063

Carlstein, E. Asymptotic multivariate normality for the subseries values of a general statistic from a stationary sequence with applications to nonparametric confidence intervals. 91j:62064

Castillo, Enrique (with Galambos, Janos) Bivariate distributions with Weibull conditionals. (Russian summary) 91f:62091

Chen, Han Feng see Zhang, Yao Ting; et al., (91c:62006)

Chhetry, D. see Block, Henry W.; et al., 91m:62086

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Edwards, David G. Hierarchical interaction models. 91g:62039

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Galambos, Janos see Castillo, Enrique, 91f:62091

George, Sabu (with Pillai, R. N.) A characterization of spherical distributions and some applications of Meijer's G -function. 91m:62087

Golasi, Silvia The curvature induced by covariance. 91a:62122

Gupta, Arjun K. see Kabe, D. G., 91c:62131

Gupta, Rameshwar D. (with Richards, Donald St. P.) The Dirichlet distributions and polynomial regression. 91d:62067

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Khatri, C. G. (with Mukerjee, Rahul) Characterization of bijective and bimeasurable transformations for bivariate normal variates. 91b:62092

— Characterization of bijective and bimeasurable transformations of normal variates. 91b:62093

Kotz, Samuel see Fang, Kai Tai; et al., 91c:62070

Liu, Regina Y. On a notion of data depth based on random simplices. 91d:62068

Mathar, Rudolf Multidimensional scaling with constraints on the configuration. 91j:62065

Maurin, Michel Le mesurage des intervalles successifs doubles, une application des distributions bivariées à marges données. [Measuring double successive intervals: an application of bivariate distributions with known margins] (Not in MR)

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Ng, Kai Wang see Fang, Kai Tai; et al., 91f:62070

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Pillai, R. N. see George, Sabu, 91m:62087

Rao, C. Y. C. Calyampudi Radhakrishna see Alzaid, Abdulhamid A.; et al., 91e:62129

Ratthakul, R. N. Region of maximum probability content of fixed diameter. 91a:62123

Richards, Donald St. P. see Gupta, Rameshwar D., 91d:62067

Sampson, Allan R. see Block, Henry W.; et al., 91m:62086

Saxena, Ashok K. see Bhattacharya, Samir K., 91e:62130

Shanbhag, D. N. see Alzaid, Abdulhamid A.; et al., 91e:62129

Stephens, Richard see Mukherjee, Arunava, 91d:62069

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Watson, Geoffrey S. see Cabrera, Javier F., 91j:62063

Xu, Jian Lan see Fang, Kai Tai, (91e:62006)

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(Barr, Alaina) see Kotz, Samuel, 91f:62030

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Hsing, Tailen Extreme value theory for multivariate stationary sequences. 91a:60095

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Johnson, Norman Lloyd² see Kotz, Samuel, 91f:62030

Kotz, Samuel (with Johnson, Norman Lloyd²) Some comments on a paper by Aiala Barr: "A multivariate model for discrete data sets" [Comm. Statist. Theory Methods 18 (1989), no. 2, 445–459; MR 90g:62031]. 91f:62030

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Mallows, Colin L. see Dembo, Amir; et al., 91k:62094

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Marshall, Albert W. A bivariate uniform distribution. 91d:60033

Philippou, Andreas N. (with Antzoulakos, Demetris L.) Multivariate distributions of order k on a generalized sequence. 91f:60024

Puntanen, Simo see Baksalary, Jerzy K., 91h:62060

Puaz, J. On characterization of generalized logistic and Pareto distributions. 91g:60020

Rachev, Svetlozar T. see Rüschendorf, Ludger, 91e:60041a and 91e:60041b

Richards, Donald St. P. see Gross, Kenneth L., 91k:33005

Rüschendorf, Ludger (with Rachev, Svetlozar T.) A characterization of random variables with minimum L^2 -distance. 91e:60041a

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Shaked, Moshe see Scarsini, Marco, 91f:60054

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Sorooshian, Soroosh see Vazirinejad, Shamsedin, 91j:62097

Tong, Yung Liang Probability inequalities for n -dimensional rectangles via multivariate majorization. 91c:60022

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Vazirinejad, Shamsedin (with Sorooshian, Soroosh) A comparison of simultaneous-equations, weighted regression, and noise-in-variables models. 91j:62097

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Whitaker, Lyn R. see Sampson, Allan R., 91f:62078

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62H10 Distribution of statistics

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— The asymptotic distribution of characteristic roots and vectors in multivariate components of variance. 91e:62134

Angus, John E. Application of extreme value theory to the BEC family of distributions. 91a:62124

Antzoulakos, Demetris L. see Philippou, Andreas N.; et al., 91f:62094

Bedrick, Edward J. On the large sample distributions of modified sample biserial correlation coefficients. 91j:62066

Bhavsar, C. D. see Khatri, C. G., 91e:62052

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— The matrix angular central Gaussian distribution. 91h:62050

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Deng, Wei Cai see Teng, Cheng Ye; et al., 91e:62138

Dunne, T. T. see Schall, R., 91h:62098

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Hayakawa, Takeshi Invariant polynomials and related tests. 91e:62135

- Hsu, Huang Noncentral distributions of quadratic forms for elliptically contoured distributions. **91m:62089**
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- Korhonen, Pekka J. (with Narula, Subhash C.) The probability distribution of the ratio of the absolute values of two normal variables. **91a:62128**
- Korwar, R. M. On the observed number of classes from multivariate power series and hypergeometric distributions. **91b:62096**
- Lā, Gang Moments of a random vector and its quadratic forms. **91g:62041**
- Lin, Chun Tu Extremes of determinants and optimality of canonical variables. **91m:62091**
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- Nagarsenker, P. B. see Nagarsenker, B. N., (Not in MR)
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- Neudecker, H. (with Wesselman, A. M.) The asymptotic variance matrix of the sample correlation matrix. **91g:62042**
- Neumann, Peter About Owen's T -function and its application in probability theory. **91a:62129**
- Oller, José M. see Calvo, Miquel, **91b:62049**
- Pederzoli, G. see Mathai, A. M., **91c:62097**
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- de los Reyes, J. P. Upper bound for singular normal probability integrals by integration over a hypersphere. **91k:62051**
- Roy, Rishin see Resnick, Sidney I., **91k:62050**
- Saweris, Nashat B. On the moment generating function of Pillai's $V^{(p)}$ criterion in connection with three multivariate hypotheses in the complex case. (Not in MR)
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- Shteynberg, A. L. see Grometskiĭ, B. N., (Not in MR)
- Skovgaard, Ib M. On the density of minimum contrast estimators. **91c:62136**
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- Sugiura, Nariaki Graphs of the distributions of bivariate Wishart roots and their cumulants. **91m:62092**
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- Tsai, I. Moments and cumulants of multivariate elliptical distribution with some applications. (Russian summary) (Not in MR)
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- Tripsiannis, Gregory A. see Philippou, Andreas N.; et al., **91f:62094**
- Walster, G. William see Tretter, Marietta J., **91d:62073**
- Wang, Sunjin Saddlepoint approximations for bivariate distributions. **91k:62052**
- Wesselman, A. M. see Neudecker, H., **91g:62042**
- Wesselman, Bertram M. see van Praag, Bernard M. S., **91a:62130**
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- Bhavsar, C. D. see Khatri, C. G., **91c:62137**
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- Browne, M. W. see Shapiro, Alexander, **91f:62104**
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- Cartinhour, Jack One-dimensional marginal density functions of a truncated multivariate normal density function. **91d:62016**
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- Gupta, Rajendra P. see Kshirsagar, Anant M., **91f:62102**
- Gupta, Rameshwar D. see Khattree, Ravindra, **91c:62071**
- Ho, C. H. see Altchison, John, **91a:62037**
- Hsu, Huang Generalized T^2 -test for multivariate elliptically contoured distributions. **91m:62101**
- Judge, George G. see Yancey, Thomas; et al., **91b:62145**
- Kadane, Joseph B. see Tierney, Luke; et al., **91c:62015**
- Kagan, A. M. A multivariate analog of the Cramér theorem on components of the Gaussian distributions. **91f:62025**
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- Kass, Robert E. see Tierney, Luke; et al., **91c:62015**
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- Misiewicz, Jolanta K. Positive definite norm dependent functions on l^∞ . **91g:60019**
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- Neudecker, H. see Bekker, Paul A., **91c:62170**
- Ojima, Kazuya see Aoshima, Makoto; et al., **91f:62095** and (Not in MR)
- Oktaba, Wiktor F -tests for hypotheses with block matrices and under conditions of orthogonality in the general multivariate Gauss-Markoff model. **91d:62099**
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- Quade, Dana see Salama, Ibrahim A., **91f:62079**
- Rathie, Pushpa N. Generalized hypergeometric functions and exact distributions of test statistics. **91c:62014**
- Rattihalli, R. N. Region of maximum probability content of fixed diameter. **91a:62123**
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- Samanta, M. *see* Schwarz, C. J., 91b:62104
- Santillán, María R. (with Viollaz, Aldo J.) Distribution of the largest squared canonical correlation for small sample sizes. (Spanish. English summary) 91a:62142
- Schwarz, C. J. (with Samanta, M.) Minimum variance unbiased estimation in a multivariate linear regression. 91b:62104
- Shapiro, Alexander (with Browne, M. W.) On the treatment of correlation structures as covariance structures. 91f:62104
- Spall, James C. *see* Maryak, John L., 91f:62063
- Stepakhno, I. V. *see* Girko, V. L., 91j:62021
- Sungur, Engin A. Dependence information in parameterized copulas. 91m:62108
- Tierney, Luke (with Kass, Robert E.; Kadane, Joseph B.) Approximate marginal densities of nonlinear functions. 91c:62015
- Tran, Lanh Tat Rank statistics for serial dependence. 91a:62251
- Viollaz, Aldo J. *see* Santillán, María R., 91a:62142
- Wysocki, W. A geometric approach to measuring dependence between random vectors. 91m:62109
- Yancey, Thomas (with Judge, George G.; Bohrer, Robert) Sampling performance of some joint one-sided preliminary test estimators under squared error loss. 91b:62145
- ## 62H12 Estimation
- Al-Hussaini, Essam K. (with El-Dab Ahmad, Khalaf; Moustafa, Hanim M.) Information matrix of the vector of parameters of the bivariate inverse Gaussian distribution. (Not in MR)
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- Ali, M. Masoom *see* Sawaris, Nashat B., 91j:62074
- Anami, Yukiko *see* Aoshima, Makoto; et al., 91f:62095 and (Not in MR)
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- Bhandary, Madhusudan Detection of outliers in signal processing and detection of number of signals in presence of outliers. 91f:62096
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- Casella, George *see* Robert, Christian, 91h:62053
- Das Gupta, Suresh (with Kunte, Sudhakar; Rattihalli, R. N.) Fixed volume parallelepiped of maximum probability content. 91f:62097
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- Girko, V. L. (with Stepakhno, I. V.) G_{22} -estimates of singular eigenvalues of matrices. (Russian. English summary) 91m:62095
- Gupta, Ramesh C. *see* Gupta, Rameshwar D., 91e:62140
- Gupta, Rameshwar D. (with Gupta, Ramesh C.) Estimation of $\Pr(a'x > b'y)$ in the multivariate normal case. 91e:62140
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- Hsu, Huang *see* Anderson, T. W.; et al., (91e:62006)
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- Ki, Fanny (with Tsui, Kam-Wah) Multiple-shrinkage estimators of means in exponential families. 91j:62071
- Konno, Yoshihiko *see* Kubokawa, Tatsuya, 91m:62096
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- Kubokawa, Tatsuya (with Konno, Yoshihiko) Estimating the covariance matrix and the generalized variance under a symmetric loss. 91m:62096
- Kunte, Sudhakar *see* Das Gupta, Suresh; et al., 91f:62097
- Lee, Carl M.-S. On the characterization of Pitman measure of nearness. 91e:62142
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- Liski, Erkki P. (with Nummi, Tapio) Prediction in growth curve models using the EM algorithm. (Not in MR)
- Lopuhaä, Hendrik P. On the relation between S -estimators and M -estimators of multivariate location and covariance. 91g:62044
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- Neudecker, H. A generalization of a result of Trenkler and Trenkler. 91h:62052
- Nummi, Tapio *see* Liski, Erkki P., (Not in MR)
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- Parsian, Ahmad On the admissibility of an estimator of a normal mean vector under a linear loss function. 91m:62097
- Perron, François Equivariant estimators of the covariance matrix. (French summary) 91j:62073
- (with Giri, Narayan C.) On the best equivariant estimator of mean of a multivariate normal population. 91e:62144
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- Rogers, Janet E. *see* Boggs, Paul T., (91h:62003)
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- Saleh, A. K. Md. Ehsanes *see* Ali, Abdunnabi M., 91d:62074
- Samanta, M. *see* Schwarz, C. J., 91b:62104
- Sarkar, Sanat K. On improving the shortest length confidence interval for the generalized variance. 91h:62103
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- Schwarz, C. J. (with Samanta, M.) Minimum variance unbiased estimation in a multivariate linear regression. 91b:62104
- Sen, Pall (with Srivastava, Ramesh Chandra³) Parameter estimation for the compartmental model. 91h:62105
- Shil'man, S. V. *see* Nemirovskii, A. S., 91b:62101
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- Critchley, F. see Hirst, D. J.; et al. **91a:62059**
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- Koutková, Helena Estimation of a parameter by the least squares method in a nonlinear regression model with a singular covariance matrix. (Czech. English and Russian summaries) **91m:62113**
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- Zontek, Stefan (with Klonecki, Witold) Limiting admissible estimators for variance components. **91m:62016**

62H15 Hypothesis testing

- Bai, Zhi Dong see Nishii, Ryuei; et al., **91c:62054**
- Bertelsen, Aksel On nonnull distributions connected with testing that a real normal distribution is complex. **91a:62135**
- Bhatti, Muhammad I. (with King, Maxwell L.) A beta-optimal test of the equicorrelation coefficient. (Not in MR)
- Bhavsar, C. D. see Khatri, C. G., **91a:62137**
- Bohrer, Robert see Judge, George G.; et al., **91f:62101**
- Boik, Robert J. Inference on covariance matrices under rank restrictions. **91f:62099**
- Browne, M. W. see Shapiro, Alexander, **91f:62104**
- Caroni, C. (with Prescott, P.) Multivariate outlier tests with structured covariance matrices. (Not in MR)
- Carter, E. M. Power function studies. **91h:62108**
- Chen, Lan Xiang Monotonicity of the power function and unbiasedness of some likelihood ratio tests. **91h:62109**
- Chen, Yun-Shiow see Wolfe, Douglas A., (Not in MR)
- Cohen, Ayala see Shapiro, Alexander, **91f:62073**
- Davis, A. W. Distribution theory for some tests of independence of seemingly unrelated regressions. **91a:62136**
- Dietz, E. Jacquelin Multivariate generalizations of Jonckheere's test for ordered alternatives. **91h:62054**
- Eguchi, Shinto see Wakaki, Hirofumi; et al., **91h:62110**
- Fang, Kai Tai see Qian, Hui, **(91a:62006)**
- Fujikoshi, Yasumori see Wakaki, Hirofumi; et al., **91h:62110**
- Geller, Nancy L. see Tang, Del-In; et al., **91a:62139**
- Giri, Narayan C. (with Sinha, Bimal Kumar) Robust tests of mean vector in symmetrical multivariate distributions. **91c:62053**
- Some robust tests of independence in symmetrical multivariate distributions. (French summary) **91f:62100**
- Gnecco, Clare see Tang, Del-In; et al., **91a:62139**
- Gong, Li Qiang On the unbiasedness of simultaneous tests for the expectations and the covariances of multivariate complex normal distributions. (Chinese. English summary) **91d:62076**
- The problem of testing both the equality of covariance and the nullity of expected values in multivariate normal distributions. (Not in MR)
- Grushko, A. A. A test for the homogeneity of two samples of random vectors that is based on proximity matrices. (Russian) (see **91j:60002**)
- Gupta, Arjun K. see Tang, Jen, (Not in MR)
- Gupta, Rajenda P. see Kshirsagar, Anant M., **91f:62102**
- Hasofer, A. M. (with Stein, G. Z.) Testing for multivariate normality after coordinate transformation. **91g:62045**
- Houghton, Dominique Size of the error in the choice of a model to fit data from an exponential family. **91f:62072**
- Hsu, Huang Generalized T^2 -test for multivariate elliptically contoured distributions. **91m:62101**
- Hudon, Georges Tests for the mean of a multivariate normal population. (French summary) **91c:62145**
- Judge, George G. (with Bohrer, Robert; Yancey, Thomas) Some statistical implications of multivariate inequality constrained testing. **91f:62101**
- Kabe, D. G. On a constrained least squares hypothesis testing problem. **91m:62102**
- Khatri, C. G. (with Bhavsar, C. D.) Asymptotic distributions of test statistics for matrices concerning elliptical distributions. **91a:62137**
- King, Maxwell L. see Bhatti, Muhammad I., (Not in MR)
- Krishnaiah, Paruchuri R. see Nishii, Ryuei; et al., **91c:62054**
- Kshirsagar, Anant M. (with Gupta, Rajenda P.) Direction and collinearity factors of Wilks's A —a review. **91f:62102**
- Levy, Martin S. (with Neill, James W.) Testing for lack of fit in linear multiresponse models based on exact or near replicates. **91j:62075**
- Marco, Virgil R. see Young, Dean Max; et al., **91f:62105**
- Marden, John I. (with Periman, Michael D.) On the inadmissibility of the modified step-down test based on Fisher's method for combining independent p -values. **91d:62077**
- McKay, R. J. Simultaneous procedures for covariance matrices. **91d:62078**
- McLaren, Mara Lee Asymptotic results for decomposing a likelihood-ratio statistic into separate components. **91j:62076**
- Mijares, Tito A. On the normal approximation to the Lawley-Hotelling trace criterion. (Not in MR)
- Nagao, Hisao Tests of hypotheses for covariance matrices and distributions under multivariate normal populations. **91c:62146**
- Naik, Dayanand N. On detection of outliers in symmetric normal models. **91k:62054**
- Neill, James W. see Levy, Martin S., **91j:62075**
- Nishida, Nobuo Admissibility of the likelihood ratio test for linear constraints. **91j:62077**
- Nishii, Ryuei (with Bai, Zhi Dong; Krishnaiah, Paruchuri R.) Strong consistency of the information criterion for model selection in multivariate analysis. **91c:62054**
- O'Brien, Ralph G. On the Tiku-Balakrishnan tests for equality of covariance matrices. **91a:62138**
- Pace, L. (with Salvan, Alessandra) Best conditional tests for separate families of hypotheses. **91c:62147**
- Parur, Robert see Young, Dean Max; et al., **91f:62105**
- Periman, Michael D. see Marden, John I., **91d:62077**
- Prentice, Michael J. Spherical regression on matched pairs of orientation statistics. **91c:62055**

- Prescott, P. *see* Caroni, C. (Not in MR)
- Quan, Hui Some optimal properties of testing hypotheses of elliptically contoured distribution. 91f:62103
- (with Fang, Kai Tai) Unbiasedness of the parameter tests for generalized multivariate distributions [Acta Math. Appl. Sinica 10 (1987), no. 2, 215–234; MR 88g:62114]. (see 91f:62006)
- Rencher, Alvin C. (with Scott, Del T.) Assessing the contribution of individual variables following rejection of a multivariate hypothesis. (Not in MR)
- Ruymgaart, Frits H. (with Smith, William Boyce) A note on homogeneity tests of covariance matrices. 91e:62148
- Salvan, Alessandra *see* Pace, L., 91e:62147
- Scott, Del T. *see* Rencher, Alvin C. (Not in MR)
- Shapiro, Alexander (with Browne, M. W.) On the treatment of correlation structures as covariance structures. 91f:62104
- (with Cohen, Ayala) Testing and estimation of equal variances for correlated variables. 91f:62073
- Shiraishi, Taka-aki *M*-tests in multivariate models. 91f:62074
- Sinha, Bimal Kumar *see* Giri, Narayan C., 91c:62053
- Smith, William Boyce *see* Ruymgaart, Frits H., 91e:62148
- Stein, G. Z. *see* Hasofer, A. M., 91g:62045
- Tang, Del-In (with Gnecco, Clare; Geller, Nancy L.) An approximate likelihood ratio test for a normal mean vector with nonnegative components with application to clinical trials. 91a:62139
- Tang, Jen (with Gupta, Arjun K.) Testing independence of several groups of variables. (Not in MR)
- Wakaki, Hirofumi (with Eguchi, Shinto; Fujikoshi, Yasunori) A class of tests for a general covariance structure. 91b:62110
- Wolfe, Douglas A. (with Chen, Yun-Shiow) The changepoint problem in a multinomial sequence. (Not in MR)
- Yancey, Thomas *see* Judge, George G.; et al., 91f:62101
- Young, Dean Max (with Pavur, Robert; Marco, Virgil R.) On the effect of correlation and unequal variances in detecting a spurious observation. (French summary) 91f:62105

Items with secondary classifications in 62H15

- All, Abdunnabi M. (with Saleh, A. K. Md. Ehsanes) Estimation of the mean vector of a multivariate normal distribution under symmetry. 91d:62074
- Amemiya, Yasuo (with Anderson, T. W.; Lewis, Peter A. W.) Percentage points for a test of rank in multivariate components of variance. 91k:62069
- Amey, Alphonse K. A. Robustness of the multiple correlation coefficient when sampling from a mixture of two multivariate normal populations. 91m:62107
- Anderson, T. W. (with Fang, Kai Tai) Inference in multivariate elliptically contoured distributions based on maximum likelihood. 91m:62093
- (with Fang, Kai Tai; Hsu, Huang) Maximum-likelihood estimates and likelihood-ratio criteria for multivariate elliptically contoured distributions [Canad. J. Statist. 14 (1986), no. 1, 55–59; MR 87m:62173]. (see 91e:62006)
- *see also* Amemiya, Yasuo; et al., 91k:62069
- Baczkowski, A. J. (with Mardia, K. V.) A test of spatial symmetry with general application. 91b:62083
- Bhandary, Madhusudan Detection of outliers in signal processing and detection of number of signals in presence of outliers. 91f:62096
- Bhappkar, V. P. (with Darroch, J. N.) Marginal symmetry and quasisymmetry of general order. 91m:62103
- Bhargava, Alok Missing observations and the use of the Durbin-Watson statistic. 91a:62156
- Bohrer, Robert *see* Yancey, Thomas; et al., 91b:62145
- Calvo, Miguel (with Oller, José M.) A distance between multivariate normal distributions based in an embedding into the Siegel group. 91k:62049
- Catalani, Mario ★ Teoria delle matrici. (Italian) [Matrix theory] 91k:15001
- Chen, Han Feng *see* Zhang, Yao Ting; et al., (91e:62006)
- Darroch, J. N. *see* Bhappkar, V. P., 91m:62103
- Davis, Linda June Intersection union tests for strict collapsibility in three-dimensional contingency tables. 91d:62079
- (Egidi, Massimo) *see* Catalani, Mario, 91k:15001
- Fan, Jian Qing On rotationally invariant distributions [Dongbei Shuxue 4 (1988), no. 1, 29–42; MR 90a:62134]. (see 91e:62006)
- (with Fang, Kai Tai) Inadmissibility of sample mean and sample regression coefficients for elliptically contoured distributions [Dongbei Shuxue 1 (1985), no. 1, 68–81; MR 87g:62014]. (see 91e:62006)
- Fang, Bi Qi (with Fang, Kai Tai) MLE and LRC for location and scale parameters of the l_1 -norm symmetric multivariate distributions [Acta Math. Appl. Sinica (English Ser.) 4 (1988), no. 1, 13–22; MR 89k:62071]. (see 91e:62006)
- Fang, Kai Tai *see* Anderson, T. W., 91m:62093; Zhang, Yao Ting; et al., (91e:62006); Anderson, T. W.; et al., (91e:62006); Fan, Jian Qing. (91e:62006); Fang, Bi Qi. (91e:62006) and Quan, Hui; et al., (91e:62006)
- Fox, David R. Conditional multivariate calibration. 91a:62163
- Galard, V. Some remarks on the estimation of the ratio of the expectation values of a two-dimensional normal random variable (correction of the theorem of Milliken). (German summary) 91e:62069
- Gupta, Arjun K. *see* Tayal, Vipin; et al., 91b:62099
- Hawkins, D. L. A U-I approach to retrospective testing for shifting parameters in a linear model. 91a:62167
- Hayakawa, Takeshi Invariant polynomials and related tests. 91e:62135
- Hosmane, Balakrishna S. On the adjusted Wald statistic for testing log-linear hypothesis in categorical data. 91b:62111
- Hsu, Huang *see* Anderson, T. W.; et al., (91e:62006)
- Judge, George G. *see* Yancey, Thomas; et al., 91b:62145
- Khatril, C. G. Multivariate generalization of t -statistic based on the mean square successive difference. 91d:62070
- Lewis, Peter A. W. *see* Amemiya, Yasuo; et al., 91k:62069
- Mardia, K. V. *see* Baczkowski, A. J., 91b:62083
- Muddapur, M. V. A simple test for correlation coefficient in a bivariate normal distribution. 91b:62115
- Murray, Leigh W. A note on connectedness in fixed effects MANOVA and GMANOVA models with missing cells. 91e:62193
- Nagar, D. K. *see* Tayal, Vipin; et al., 91b:62099
- Naik, Dayanand N. Detection of outliers in the multivariate linear regression model. 91k:62065
- Ohtaki, Megu Some estimators of covariance matrix in multivariate nonparametric regression and their applications. 91e:62164
- Oktaba, Wiktor *F*-tests for hypotheses with block matrices and under conditions of orthogonality in the general multivariate Gauss-Markoff model. 91d:62099
- Oller, José M. *see* Calvo, Miguel, 91k:62049
- Porteous, B. T. Stochastic inequalities relating a class of log-likelihood ratio statistics to their asymptotic χ^2 distribution. 91f:62031
- Provost, Serge B. Estimators for the parameters of a multivariate normal random vector with incomplete data on two subvectors and test of independence. 91f:62056
- Pukhal'skii, E. A. Symmetry groups and invariant statistical tests for families of multivariate Gaussian distributions. (see 91j:60004)
- Quan, Hui (with Fang, Kai Tai; Teng, Cheng Ye) The application of information function for spherical distribution [Dongbei Shuxue 5 (1989), no. 1, 27–32; MR 90k:62017]. (see 91e:62006)
- Rao, Calyampudi Radhakrishna Methodology based on the L_1 -norm, in statistical inference. 91e:62181
- Rathie, Navratna On the exact distribution of Pearson and Wilks likelihood test statistic. II. 91a:62131
- Ray Chaudhuri, Atasi Some invariant sequential and nonsequential rules for identifying a multivariate normal population. 91k:62060
- Saleh, A. K. Md. Ehsanes *see* All, Abdunnabi M., 91d:62074
- Sawaris, Nashat B. The moment generating function of Pillai's criterion concerning three hypotheses under violations in the complex case. 91d:62071
- Schoett, James R. Two-stage tests of hypotheses for principal components. 91b:62119
- Sutradhar, Brajendra C. Testing linear hypothesis with t error variable. 91f:62123
- Tayal, Vipin (with Gupta, Arjun K.; Nagar, D. K.) Testing homogeneity of covariance matrices of completely symmetric Gaussian models. (Italian summary) 91b:62099
- Teng, Cheng Ye *see* Quan, Hui; et al., (91e:62006)
- Watson, Geoffrey S. Statistics of rotations. 91b:62106
- Yancey, Thomas (with Judge, George G.; Bohrer, Robert) Sampling performance of some joint one-sided preliminary test estimators under squared error loss. 91b:62145
- Zhang, Yao Ting (with Fang, Kai Tai; Chen, Han Feng) Matrix elliptically contoured distributions [Acta Math. Sci. (Chinese) 5 (1985), no. 3, 341–353; MR 87m:62166]. (see 91e:62006)

62H17 Contingency

- Agresti, Alan ★ Categorical data analysis. 91k:62055
- Astrain R., Jorge *see* Gravalosa C., Ana J.; et al., (Not in MR)
- Becker, Mark P. On the bivariate normal distribution and association models for ordinal categorical data. 91a:62140
- Quasisymmetric models for the analysis of square contingency tables. (Not in MR)
- Bhappkar, V. P. (with Darroch, J. N.) Marginal symmetry and quasisymmetry of general order. 91m:62103
- Bonett, Douglas G. *see* Evans, Marc A., (Not in MR)
- Boja, Andreas Remarks on functional canonical variates, alternating least squares methods and ACE. 91g:62046
- Choudhury, Soma (with Shil, Rabindra Nath) An alternative method of calculating the value of χ^2 in case of 2×3 contingency table. (Bengali summary) (Not in MR)
- D'Ambra, Luigi (with Lauro, Natale) Nonsymmetrical analysis of three-way contingency tables. (see 91j:62003)
- Darroch, J. N. *see* Bhappkar, V. P., 91m:62103
- Davis, Linda June Intersection union tests for strict collapsibility in three-dimensional contingency tables. 91d:62079
- Collapsibility of likelihood ratio tests in multidimensional contingency tables. 91m:62104
- Evans, Marc A. (with Bonett, Douglas G.) Maximum likelihood estimation for the negative multinomial log-linear model. (Not in MR)
- Evans, Michael John (with Gilula, Zvi; Guttman, Irwin) Latent class analysis of two-way contingency tables by Bayesian methods. 91a:62141
- Fuentes, Marta *see* Gravalosa C., Ana J.; et al., (Not in MR)
- Gilula, Zvi *see* Evans, Michael John; et al., 91a:62141
- Gravalosa C., Ana J. (with Fuentes, Marta; Hernández, Yolanda; Astrain R., Jorge) Comparison of the Bayesian, pseudo-Bayesian and linear logarithmic estimators in contingency tables. (Spanish. English summary) (Not in MR)
- Guttman, Irwin *see* Evans, Michael John; et al., 91a:62141
- Hagenaars, Jacques A. ★ Categorical longitudinal data. 91b:62055
- Harrington, David P. *see* Lipsitz, Stuart R.; et al., 91e:62149
- Haslett, Stephen Degrees of freedom and parameter estimability in hierarchical models for sparse complete contingency tables. (Not in MR)
- Hernández, Yolanda *see* Gravalosa C., Ana J.; et al., (Not in MR)
- Hosmane, Balakrishna S. On the adjusted Wald statistic for testing log-linear hypothesis in categorical data. 91b:62111
- Kroonenberg, Pieter M. Singular value decompositions of interactions in three-way contingency tables. (see 91j:62003)
- Laird, Nan M. *see* Lipsitz, Stuart R.; et al., 91e:62149
- Lauro, Natale *see* D'Ambra, Luigi, (91j:62003)
- Li, Jian Li An investigation of exact probability tests of three-dimensional contingency tables. (Chinese) (Not in MR)
- Lipsitz, Stuart R. (with Laird, Nan M.; Harrington, David P.) Finding the design matrix for the marginal homogeneity model. 91e:62149
- Loh, Wei-Yin Bounds on the size of the χ^2 -test of independence in a contingency table. 91b:62112

- Madigan, David** (with Mosurki, Krzysztof) An extension of the results of Asmussen and Edwards on collapsibility in contingency tables. 91f:62075
- Marden, John I.** (with Perlman, Michael D.) On the inadmissibility of step-down procedures for the Hotelling T^2 problem. 91g:62047
- Messafra, H.** Maximal association for the sum of squares of a contingency table. (French summary) 91e:62150
- Mosurki, Krzysztof** see **Madigan, David**, 91f:62075
- Perlman, Michael D.** see **Marden, John I.**, 91g:62047
- Pigeot, Iris** A class of asymptotically efficient noniterative estimators of a common odds ratio. 91j:62078
- Qian, Wang Dong** see **Scott, David J.**, 91m:62105
- Ralambondrainy, Henri** How to deal with categorical data using clustering methods. (see 91j:62003)
- Rao, J. N. K.** see **Scott, A. J.**; et al., 91e:62151
- Rudas, T.** Prescribed conditional interaction models for binary contingency tables. (see 91j:60004)
- Scott, A. J.** (with Rao, J. N. K.; Thomas, D. Roland) Weighted least-squares and quasilielihood estimation for categorical data under singular models. 91e:62151
- Scott, David J.** (with Qian, Wang Dong) An iterative method for estimation of parameters in a clustered sampling model. 91m:62105
- Shil, Rabindra Nath** see **Choudhury, Soma**, (Not in MR)
- Smith, Woodcott** A maximum likelihood estimator for totally positive probability tables: a method for smoothing two-way tables. 91d:62080
- Snijders, Ronald C.** (with Turek, Richard J.) A partial correlation test for the Goodman-Kruskal λ on a dichotomy. (Not in MR)
- Tengels, Josef L.** Some representations of the multivariate Bernoulli and binomial distributions. 91b:62113
- Thomas, D. Roland** see **Scott, A. J.**; et al., 91e:62151
- Tillé, Yves** Méthodes d'ajustement d'un tableau à des marges, propriétés des ajustements et choix des critères à optimiser. (English summary) [Methods for adjusting a table to some marginals, adjustment properties and selection of criteria to optimize] (Not in MR)
- Tomizawa, Sadao** Decompositions for conditional symmetry model into palindromic symmetry and modified marginal homogeneity models. 91e:62076
- A decomposition of Akaike's information criterion for the conditional symmetry model. 91m:62106
- Turek, Richard J.** see **Snijders, Ronald C.**, (Not in MR)
- Zanella, Angelo** Directions of maximum resolution for the Goodman-Kruskal and Cramér indices: a comparative study. (Italian. English summary) (Not in MR)
- Items with secondary classifications in 62H17**
- Bolascio, S.** see **Multway data analysis**, 91j:62003
- Coppi, R.** see **Multway data analysis**, 91j:62003
- Dial, Gur** see **Pessoa, Franquiberto**, (Not in MR)
- Edwards, David G.** Hierarchical interaction models. 91g:62039
- Harrisek, Tomáš** Model search in large model families. (see 91f:60004)
- Lauritzen, Steffen L.** (with Spiegelhalter, David J.) Local computations with probabilities on graphical structures and their application to expert systems. 91a:68252
- Mehran, Farhad** Analysis of discrete longitudinal data: infinite-lag Markov models. (see 91f:62004)
- Pessoa, Franquiberto** (with Dial, Gur) An informational measure of correlation of order α for contingency tables. (Not in MR)
- Rudolfer, Stephan M.** A Markov chain model of extrabinomial variation. 91f:62028
- Spiegelhalter, David J.** see **Lauritzen, Steffen L.**, 91a:68252
- Tutz, Gerhard** Log-linear parameterizations in discriminant analysis. (Not in MR)
- Windmeijer, F. A. G.** The asymptotic distribution of the sum of weighted squared residuals in binary choice models. 91k:62027
- Items listed otherwise than by author**
- Meeting:**
- Analysis of Multiway Data Matrices** ★ Multiway data analysis. 91j:62003
- Multway data analysis** ★ Multiway data analysis. 91j:62003
- Rome** ★ Multiway data analysis. 91j:62003
- 62H20 Measures of association (correlation, canonical correlation, etc.)**
- Alzaid, Abdulhamid A.** A weak quadrant dependence concept with applications. 91f:62106
- Amey, Alphonse K. A.** Robustness of the multiple correlation coefficient when sampling from a mixture of two multivariate normal populations. 91m:62107
- Block, Henry W.** (with Fang, Zhao Ben) Setwise independence for some dependence structures. 91d:62081
- Carroll, Raymond J.** see **Yin, Y.**, 91g:62048
- Chun, C. S. Y.** (with Dunn, O. J.; Jennrich, R. I.) Calculation of the asymptotic covariance between squared multiple correlation coefficients. (Not in MR)
- Dunn, O. J.** see **Chun, C. S. Y.**; et al., (Not in MR)
- Fang, Zhao Ben** see **Block, Henry W.**, 91d:62081
- Frydenberg, Morten** Marginalization and collapsibility in graphical interaction models. 91e:62077
- Giovagnoli, Alessandra** (with Romanazzi, Mario) A group majorization ordering for correlation matrices. 91e:62152
- Greene, Tom** The depiction of linear association by matroids. (Not in MR)
- Guinag, Silvii** Selecting relevant projections onto subsets of coordinates: a minimax dependence-based approach. 91c:62056
- Jennrich, R. I.** see **Chun, C. S. Y.**; et al., (Not in MR)
- Joe, Harry** Relative entropy measures of multivariate dependence. 91e:62153
- Kabe, D. G.** On canonical variables as optimal predictors. 91f:62107
- Kapur, Jagat N.** Matusita's generalized measure of affinity. (Turkish summary) (Not in MR)
- Khatri, C. G.** Study of redundancy of vector variables in canonical correlations. 91b:62114
- Lafosse, Roger** Proposal for a generalized canonical analysis. (see 91j:62003)
- Lauritzen, Steffen L.** Mixed graphical association models. 91f:62108
- Marazzi, Alfio** Computing robust covariances with collinear data. (see 91f:62004)
- Moddappur, M. V.** A simple test for correlation coefficient in a bivariate normal distribution. 91b:62115
- Nag, A. K.** see **Sastry, D. V. S. S.**, (Not in MR)
- Quade, Dana** see **Salama, Ibrahim A.**, 91j:62079
- Rao, C. Veerendra** see **Rao, C. Veerendra**, 91b:62116
- Rao, C. Veerendra** Stationary values of the product of two Raleigh quotients: homologous canonical correlations. 91b:62116
- Romanazzi, Mario** see **Giovagnoli, Alessandra**, 91e:62152
- Salama, Ibrahim A.** (with Quade, Dana) On the asymptotic permutational normality of certain weighted measures of correlation. 91j:62079
- Sampson, Allan R.** (with Whitaker, Lyn R.) Computational aspects of association for bivariate discrete distributions. 91b:62078
- Santillán, María R.** (with Violaz, Aldo J.) Distribution of the largest squared canonical correlation for small sample sizes. (Spanish. English summary) 91a:62142
- Sastry, D. V. S. S.** (with Nag, A. K.) Influence of large observations on coefficient of correlation. (Not in MR)
- Schechtman, Y.** Inner products and association indices for analysing some multiway tables. (see 91j:62003)
- Schneeweiss, Hans** Models with latent variables: LISREL versus PLS. (see 91b:62003)
- Sungur, Engin A.** Dependence information in parameterized copulas. 91m:62108
- Vaughan, D. C.** Comparison of test statistics for the correlation coefficient in bivariate normal samples with type II censoring. (Not in MR)
- Violaz, Aldo J.** see **Santillán, María R.**, 91a:62142
- Whitaker, Lyn R.** see **Sampson, Allan R.**, 91b:62078
- Williams, Evan J.** (with Yip, Paul) Conditional inference about an equicorrelation coefficient. 91e:62154
- Wysocki, W.** A geometric approach to measuring dependence between random vectors. 91m:62109
- Yin, Y.** (with Carroll, Raymond J.) A diagnostic for heteroscedasticity based on the Spearman rank correlation. 91g:62048
- Yip, Paul** see **Williams, Evan J.**, 91e:62154
- Items with secondary classifications in 62H20**
- Bai, Zh. Dong** see **Nishii, Ryuei**; et al., 91c:62054
- Bedrick, Edward J.** On the large sample distributions of modified sample biserial correlation coefficients. 91j:62066
- (van den Berg, Gerda)** see **Gifi, Albert**, 91k:62056
- Boja, Andreas** Remarks on functional canonical variates, alternating least squares methods and ACE. 91g:62046
- Castano-Tostado, Eduardo** see **Tanaka, Yutaka**, 91f:62113
- Degerlin, Serge** Canonical partial autocorrelation function of a multivariate time series. 91j:62128
- Dial, Gur** see **Pessoa, Franquiberto**, (Not in MR)
- Flournoy, Nancy** Dependency in multivariate Markov chains. 91m:62154
- Gideon, Rudy A.** (with Prentice, Michael J.; Pyke, Ronald) The limiting distribution of the rank correlation coefficient R_s . 91f:62034
- Gifi, Albert** ★ Nonlinear multivariate analysis. 91k:62056
- (Heiser, Willem)** see **Gifi, Albert**, 91k:62056
- Huba, G. J.** see **Tanaka, J. S.**, 91b:62092
- Joag-Dev, Kumar** (with Proschan, Frank) A covariance inequality for coherent structures. 91i:62133
- Joe, Harry** Majorization and divergence. 91b:60018
- Kabe, D. G.** The exact noncentral distribution of the generalized multiple correlation matrix. (Not in MR)
- Kanter, Marek** Discrimination distance bounds and statistical applications. 91m:62041
- Krishnaiah, Paruchuri R.** see **Nishii, Ryuei**; et al., 91c:62054
- (de Leeuw, Jan)** see **Gifi, Albert**, 91k:62056
- Liu, Chun Tu** Extremes of determinants and optimality of canonical variables. 91m:62091
- Marco, Virgil R.** see **Young, Dean Max**; et al., 91f:62105
- Mayer-Wolf, Eduardo** The Cramér-Rao functional and limiting laws. 91m:60008
- (Meulman, Jacqueline)** see **Gifi, Albert**, 91k:62056
- Mian, I. U. H.** (with Shoukri, M. M.; Tracy, Derrick S.) Maximum likelihood estimation of sibling correlations in the analysis of family data. 91m:62120
- Mirkin, B. G.** Paradigms of current mathematical statistics. (Russian) (Not in MR)
- Nishii, Ryuei** (with Bai, Zhi Dong; Krishnaiah, Paruchuri R.) Strong consistency of the information criterion for model selection in multivariate analysis. 91c:62054
- Pavur, Robert** see **Young, Dean Max**; et al., 91f:62105
- Pessoa, Franquiberto** (with Dial, Gur) An informational measure of correlation of order α for contingency tables. (Not in MR)
- Pettit, L. I.** The conditional predictive ordinate for the normal distribution. 91e:62068
- Prentice, Michael J.** see **Gideon, Rudy A.**; et al., 91f:62034
- Proschan, Frank** see **Joag-Dev, Kumar**, 91i:62133
- Pyke, Ronald** see **Gideon, Rudy A.**; et al., 91f:62034
- Quade, Dana** see **Salama, Ibrahim A.**, (Not in MR)
- Salama, Ibrahim A.** (with Quade, Dana) A note on Spearman's footrule. (Not in MR)
- Shoukri, M. M.** see **Mian, I. U. H.**; et al., 91m:62120
- Tanaka, J. S.** (with Huba, G. J.) A general coefficient of determination for covariance structure models under arbitrary GLS estimation. 91b:62092
- Tanaka, Yutaka** (with Castano-Tostado, Eduardo) Sensitivity analysis in multivariate methods: decomposition of an arbitrary influence into a finite number of components. 91f:62113
- Tengels, Josef L.** Some representations of the multivariate Bernoulli and binomial distributions. 91b:62113
- Tiao, George C.** (with Tsay, Ruey S.) Model specification in multivariate time series. 91a:62250
- Tong, Yung Liang** ★ The multivariate normal distribution. 91g:60021
- Tracy, Derrick S.** see **Mian, I. U. H.**; et al., 91m:62120
- Tsay, Ruey S.** see **Tiao, George C.**, 91a:62250
- Wang, Juan** see **Zhang, Yao Ting**, (Not in MR)

- Young, Dean Max (with Pavur, Robert; Marco, Virgil R.) On the effect of correlation and unequal variances in detecting a spurious observation. (French summary) 91f:62105
- Zhang, Jie Heng Some problems of two-dimensional correlativity. (Chinese. English summary) (Not in MR)
- Zhang, Yao Ting (with Wang, Juan) Induced inequalities and induced correlated measures. (Chinese. English summary) (Not in MR)

62H25 Factor analysis and principal components; correspondence analysis

- Amemiya, Yasuo (with Anderson, T. W.) Asymptotic chi-square tests for a large class of factor analysis models. 91m:62110
- Anderson, T. W. see Amemiya, Yasuo, 91m:62110
- Bekker, Paul A. Identification in restricted factor models and the evaluation of rank conditions. 91f:62109
- see also van Rijkevorsel, Jan L. A.; et al., 91g:62049
- Benali, H. (with Escobar, B.) Smooth factorial analysis and factorial analysis of local differences. (see 91j:62003)
- Benasseni, Jacques Computational aspects for perturbation problems in multivariate descriptive statistical methods. 91f:62110
- Sensitivity coefficients for the subspaces spanned by principal components. (Not in MR)
- (van den Berg, Gerda) see Gifi, Albert, 91k:62056
- ten Berge, Jos M. F. see Kiers, Henk A. L., 91h:62118
- Besse, P. see van Rijkevorsel, Jan L. A.; et al., 91g:62049
- Boudou, Alain (with Dauxois, Jacques) Analyses de mesures aléatoires; application aux séries stationnaires. (English summary) [Analysis of random measures; applications to stationary series] 91h:62117
- Carlier, André (with Lavit, Christine; Pagés, Monique; Pernin, Marie-Odile; Turlot, Jean-Christophe) A comparative review of methods which handle a set of indexed data tables. (see 91j:62003)
- Castano-Tostado, Eduardo see Tanaka, Yutaka¹, 91f:62113 and 91k:62057
- Dauxois, Jacques see Boudou, Alain, 91h:62117
- Deng, Qi Rong The optimal properties of the principal component estimator. (Chinese. English summary) (Not in MR)
- Escobar, B. see Benali, H., (91j:62003)
- Ferré, Louis Choix de la dimension optimale pour certains types d'analyse en composantes principales. (English summary) [Optimal dimension of graphical displays for principal component analysis] 91a:62143
- Focke, J. (with Schulze, Ralf) On a DC-optimization-problem from statistical factor analysis. 91d:62082
- Franc, Alain Multiway arrays: some algebraic remarks. (see 91j:62003)
- Gifi, Albert ★ Nonlinear multivariate analysis. 91k:62056
- Girko, V. L. G_{25} -estimates for principal components. 91d:62083
- Goldstein, Harvey see McDonald, Roderick P., 91f:62111
- Hamouda, K. A. I. (with Yehia, A. Y.) Étude factorielle de l'effet Guttman dans le cas continu binaire. (English and Arabic summaries) [Factorial study of the Guttman effect in the continuous binary case] (Not in MR)
- Harshman, R. A. see Kruskal, J. B.; et al., (91j:62003)
- Hayashi, Chikio Multiway data matrices and method of quantification of qualitative data as a strategy of data analysis. (see 91j:62003)
- van der Heijden, P. G. M. see de Leeuw, Jan; et al., 91e:62155
- (Heister, Willem) see Gifi, Albert, 91k:62056
- Ibrahim Hamouda, Kamal el din Étude factorielle d'une correspondance semi-dégénérée ternaire. [Factor analysis of a ternary semidegenerate correspondence] (Not in MR)
- Ichikawa, Masanori see Yanai, Haruo, 91j:62084
- Kano, Yutaka Comparative studies of noniterative estimators based on Ihara and Kano's method in exploratory factor analysis. (Not in MR)
- Kiers, Henk A. L. (with ten Berge, Jos M. F.) Alternating least squares algorithms for simultaneous components analysis with equal component weight matrices in two or more populations. 91h:62118
- Kocherlakota, Kathleen see Kshirsagar, Anant M.; et al., 91d:62084
- Kocherlakota, Subrahmanian see Kshirsagar, Anant M.; et al., 91d:62084
- Kratochvíl, Petr The determination of factors in linear models of factor analysis. (Russian and Czech summaries) 91j:62080
- Kruskal, J. B. Rank, decomposition, and uniqueness for 3-way and N -way arrays. (see 91j:62003)
- (with Harshman, R. A.; Lundy, M. E.) How 3-MFA data can cause degenerate PARAFAC solutions, among other relationships. (see 91j:62003)
- Krzyszowski, W. J. Between-group analysis with heterogeneous covariance matrices: the common principal component model. (Not in MR)
- Kshirsagar, Anant M. (with Kocherlakota, Subrahmanian; Kocherlakota, Kathleen) Classification procedures using principal component analysis and stepwise discriminant function. 91d:62084
- Lafosse, Roger Ressemblance et différence entre deux tableaux totalement appariés. (English summary) [Agreement and dissimilarity between two paired tables] (Not in MR)
- Lavit, Christine see Carlier, André; et al., (91j:62003)
- de Leeuw, Jan (with van der Heijden, P. G. M.; Verboon, P.) A latent time-budget model. 91e:62155
- see also van Rijkevorsel, Jan L. A.; et al., 91g:62049 and Gifi, Albert, 91k:62056
- Lundy, M. E. see Kruskal, J. B.; et al., (91j:62003)
- Martin, J.-F. see van Rijkevorsel, Jan L. A.; et al., 91g:62049
- McDonald, Roderick P. (with Goldstein, Harvey) Balanced versus unbalanced designs for linear structural relations in two-level data. 91f:62111
- (Meulman, Jacqueline) see Gifi, Albert, 91k:62056
- Mirkin, B. G. A sequential fitting procedure for linear data analysis models. 91j:62081
- Muthén, Bengt O. Tobit factor analysis. (Not in MR)
- Neudecker, H. On the identification of restricted factor loading matrices: an alternative condition. 91m:62111
- Odaka, Yoshimasa see Tanaka, Yutaka¹, 91a:62144 and 91f:62112
- Pagés, Monique see Carlier, André; et al., (91j:62003)
- Pernin, Marie-Odile see Carlier, André; et al., (91j:62003)
- Ponsee, Alain Extensions and asymptotic studies of multivariate analyses. (see 91j:60004)
- van Rijkevorsel, Jan L. A. (with de Leeuw, Jan; Bekker, Paul A.; Besse, P.; Martin, J.-F.; Winsberg, S.) ★ Component and correspondence analysis. 91g:62049
- Sato, Masahito Some remarks on principal component analysis as a substitute for factor analysis in monofactor cases. 91j:62082
- Schott, James R. Two-stage tests of hypotheses for principal components. 91h:62119
- Schulze, Ralf see Focke, J., 91d:62082
- Sobel, Michael E. Effect analysis and causation in linear structural equation models. 91j:62083
- Tanaka, Yutaka¹ Corrections for "Sensitivity analysis in principal component analysis: influence on the subspace spanned by principal components" [Comm. Statist. Theory Methods 17 (1988), no. 9, 3157–3175; MR 89i:62097]. 91e:62156
- (with Odaka, Yoshimasa) Sensitivity analysis in maximum likelihood factor analysis. 91f:62112
- Influence functions related to eigenvalue problems which appear in multivariate analysis. 91h:62056
- (with Tarumi, Tomoyuki) Sensitivity analysis in canonical factor analysis. (Not in MR)
- (with Odaka, Yoshimasa) Influential observations in principal factor analysis. 91a:62144
- (with Castano-Tostado, Eduardo) Sensitivity analysis in multivariate methods: decomposition of an arbitrary influence into a finite number of components. 91f:62113
- (with Castano-Tostado, Eduardo) Quadratic perturbation expansions of certain functions of eigenvalues and eigenvectors and their application to sensitivity analysis in multivariate methods. 91k:62057
- Tarumi, Tomoyuki see Tanaka, Yutaka¹, (Not in MR)
- Turlot, Jean-Christophe see Carlier, André; et al., (91j:62003)
- Verboon, P. see de Leeuw, Jan; et al., 91e:62155
- Verhees, Jaap see Wansbeek, Tom, 91d:62085
- Wansbeek, Tom (with Verhees, Jaap) The algebra of multimode factor analysis. 91d:62085
- Winsberg, S. see van Rijkevorsel, Jan L. A.; et al., 91g:62049
- Yanai, Haruo (with Ichikawa, Masanori) New lower and upper bounds for communality in factor analysis. 91j:62084
- Yehia, A. Y. see Hamouda, K. A. I., (Not in MR)
- Zhanstauov, S. U. The inverse problem of the principal component analysis. (see 91j:60004)

Items with secondary classifications in 62H25

- Barthélemy, Jean-Pierre Median graphs and tree analysis of dichotomous data, an approach to qualitative factor analysis. 91c:92124
- (Bolasco, S.) see Multiway data analysis, 91j:62003
- Browne, M. W. (with Shapiro, Alexander) Robustness of normal theory methods in the analysis of linear latent variate models. 91c:62095
- Cavazzana, Angelo (with Pavon, Michele) Principal component analysis for multivariate stochastic processes. 91f:60080
- (Coppé, R.) see Multiway data analysis, 91j:62003
- Daudin, J.-J. (with Duby, C.; Trécourt, P.) PCA stability studied by the bootstrap and the infinitesimal jackknife method. 91c:62048
- Duby, C. see Daudin, J.-J.; et al., 91c:62048
- Flury, Bernhard Principal points. 91a:62126
- Kozák, Josef Application of Demidenko's approach to the solution of the prediction problem: continued. (Czech summary) 91d:62094
- Mante, Claude Analyse en composantes principales d'un processus multiple non stationnaire: une application à des données météorologiques. (English summary) [Principal component analysis of a nonstationary multiple process: an application to meteorological data] (Not in MR)
- Marx, Brian D. (with Smith, Eric Peter) Principal component estimation for generalized linear regression. (Not in MR)
- Muthén, Bengt O. Moments of the censored and truncated bivariate normal distribution. (Not in MR)
- Pavon, Michele see Cavazzana, Angelo, 91f:60080
- Picci, Giorgio Parametrization of factor analysis models. 91d:62089
- Schekhtman, Y. Inner products and association indices for analysing some multiway tables. (see 91j:62003)
- Shapiro, Alexander see Browne, M. W., 91c:62095
- Smith, Eric Peter see Marx, Brian D., (Not in MR)
- Sugiyama, Takakazu Distribution of latent vector corresponding to the largest roots of intraclass correlation matrix with evaluation of the approximation by F distribution. 91d:62072
- Trécourt, P. see Daudin, J.-J.; et al., 91c:62048
- Wang, Zheng Ming Improved principal component estimation for regression coefficients. (Chinese) (Not in MR)

Items listed otherwise than by author

Meeting:

- Analysis of Multiway Data Matrices ★ Multiway data analysis. 91j:62003
- Multiway data analysis ★ Multiway data analysis. 91j:62003
- Rome ★ Multiway data analysis. 91j:62003

62H30 Classification and discrimination; cluster analysis [see also 68T10]

- Abusev, R. A. Bayes estimates, and statistical group classification. (Russian. English and Lithuanian summaries) (Not in MR)
- Balasanova, E. V. Asymptotic expansion of the error probability of the Bayes classification rule. (Russian) (see 91j:60002)
- Baldessari, Bruno (with Weber, Jean E.) Optimal classification regions under the intrinsic inference model for normal random vectors with separable dependence. (Italian summary) 91e:62157
- Batagelj, Vladimir see Košmelj, Katarina, (Not in MR)

- Biscay, R. (with Valdes, P.; Pascual, R.) Modified Fisher's linear discriminant function with reduction of dimensionality. (Not in MR)
- Bressier, Gildas Piecewise hierarchical clustering. 91j:62079
- Chanda, Kamal C. (with Ruymgaart, Frits H.) Asymptotic estimate of probability of misclassification for discriminant rules based on density estimates. 91a:62145
- Asymptotic expansions of the probabilities of misclassification for k -NN discriminant rules. 91k:62058
- Critchley, F. see Hirst, D. J.; et al., 91k:62059
- Dijkman-Caes, Chantal see Sijnders, Tom A. B.; et al., (Not in MR)
- Dormaar, Maarten see Sijnders, Tom A. B.; et al., (Not in MR)
- Drissen, Ger see Sijnders, Tom A. B.; et al., (Not in MR)
- Duchinskas, Kyastutis Asymptotic expansion of moments of estimates for current error probability in classification problems. (Russian. English and Lithuanian summaries) (Not in MR)
- Dzemyda, Gintautas Grouping on a sphere. (Russian. English and Lithuanian summaries) (Not in MR)
- Ford, I. see Hirst, D. J.; et al., 91k:62059
- Frank, Ove see Hansen, Pierre; et al., 91a:62147
- Ganesalingam, S. Maximum likelihood approach to clustering. (Chinese summary) (Not in MR)
- (with Lynn, Robert) ★ Posterior probability based estimator for the overall error rate associated with a linear discriminant function. (Not in MR)
- Ganesanandam, S. (with Krzanowski, W. J.) Error-rate estimation in two-group discriminant analysis using the linear discriminant function. (Not in MR)
- Girko, V. L. (with Pavlenko, T. V.) G -estimation of the regularized Mahalanobis distance in the case of nonnormal distribution of observations. (Russian. English summary) 91a:62146
- (with Pavlenko, T. V.) G -estimation of the quadratic discriminant function. 91e:62158
- (with Pavlenko, T. V.) Asymptotic normality of the G -estimate of the Anderson-Fisher discriminant function. (Russian) 91j:62085
- Gordon, A. D. Constructing dissimilarity measures. (Not in MR)
- Greene, Tom (with Rayens, William S.) Partially pooled covariance matrix estimation in discriminant analysis. 91i:62080
- see also Rayens, William S., (Not in MR)
- Gu, Hua Min (with Lei, Jing Chao) Analysis of diversity and its application. (Chinese) (Not in MR)
- Hansen, Pierre (with Jaumard, Brigitte; Frank, Ove) Maximum sum-of-splits clustering. 91a:62147
- (with Jaumard, Brigitte; Musitu, K.) Weight constrained maximum split clustering. (Not in MR)
- Hirst, D. J. (with Ford, I.; Critchley, F.) An empirical investigation of methods for interval estimation of the log odds ratio in discriminant analysis. 91k:62059
- Honda, Masayuki see Konishi, Sadanori, (Not in MR)
- Hublin, Pascal see Vasseur, Christian; et al., (Not in MR)
- Jahnke, Hermann ★ Clusteranalyse als Verfahren der schließenden Statistik. (German) [Cluster analysis as a method in inference statistics] 91b:62120
- Jajuga, Krzysztof L_1 -norm based fuzzy clustering. (Not in MR)
- Jaumard, Brigitte see Hansen, Pierre; et al., 91a:62147 and (Not in MR)
- Juhász, Ferenc On the theoretical backgrounds of cluster analysis based on the eigenvalue problem of the association matrix. 91d:62086
- Kaufman, Leonard (with Rousseeuw, Peter J.) ★ Finding groups in data. 91e:62159
- Konishi, Sadanori (with Honda, Masayuki) Comparison of procedures for estimation of error rates in discriminant analysis under nonnormal populations. (Not in MR)
- Koizumi, Katarina (with Batagelj, Vladimir) Cross-sectional approach for clustering time varying data. (Not in MR)
- Krishnan, T. (with Nandy, Subhas C.) Efficiency of discriminant analysis when initial samples are classified stochastically. (Not in MR)
- Krusinska, E. (with Liebhart, J.) Clear graphical representation of the location model in mixed variable discriminant analysis. (Not in MR)
- Krzanowski, W. J. see Ganesanandam, S., (Not in MR)
- Lahiff, Maureen (with Whitcomb, Kathleen M.) Empirical influence functions for misclassification rates in discriminant analysis. (Not in MR)
- Lakel, Rabah see Vasseur, Christian; et al., (Not in MR)
- Läuter, J. Discriminant analysis for special parameter structures. (see 91j:60004)
- Lei, Jing Chao see Gu, Hua Min, (Not in MR)
- Lerman, I. C. Foundations of the likelihood linkage analysis (LLA) classification method. (Not in MR)
- Leung, C. Y. The Studentized location linear discriminant function. 91k:62057
- Liebhart, J. see Krusinska, E., (Not in MR)
- Lynn, Robert see Ganesalingam, S., (Not in MR)
- McMorris, F. R. The median procedure for n -trees as a maximum likelihood method. (Not in MR)
- Meshalkin, I. D. Asymptotics of increasing dimensionality in classification. (see 91j:60004)
- Meulepas, E. On a criterion for omitting variables in discriminant analysis. (French summary) (Not in MR)
- Muniz, K. see Hansen, Pierre; et al., (Not in MR)
- Nandy, Subhas C. see Krishnan, T., (Not in MR)
- Niemiro, Wojciech L^1 -optimal statistical discrimination procedures and their asymptotic properties. (Polish. English summary) 91a:62148
- Pascual, R. see Biscay, R.; et al., (Not in MR)
- Pavlenko, T. V. see Girko, V. L., 91a:62146; 91e:62158 and 91j:62085
- Ray Chaudhuri, Atasi Some invariant sequential and nonsequential rules for identifying a multivariate normal population. 91k:62060
- Rayens, William S. (with Greene, Tom) Covariance pooling and stabilization for classification. (Not in MR)
- see also Greene, Tom, 91i:62080
- Rousseeuw, Peter J. see Kaufman, Leonard, 91e:62159
- Ruymgaart, Frits H. see Chanda, Kamal C., 91a:62145
- Sarychev, A. P. Solution of the GMDH partitioning problem when calculating the regularity criterion in an active experiment. (Not in MR)
- A discriminant analysis scheme with training and verification observation subsamples. (Not in MR)
- van Schuur, Wijnbrandt H. see Sijnders, Tom A. B.; et al., (Not in MR)
- Sijnders, Tom A. B. (with Dormaar, Maarten; van Schuur, Wijnbrandt H.; Dijkman-Caes, Chantal; Drissen, Ger) Distribution of some similarity coefficients for dyadic binary data in the case of associated attributes. (Not in MR)
- Sobel, Marc Nonparametric loss functions for partitioning problems. 91e:62160
- Sriram, N. Clique optimization: a method to construct parsimonious ultrametric trees from similarity data. (Not in MR)
- Stefanescu, Maria Viorica General algorithms for a hierarchical classification. (French and Russian summaries) 91d:62087
- Telegdi, L. Multidimensional scaling of dichotomous variables. (Italian summary) (Not in MR)
- Tsaregradskii, I. P. Sequential classification of objects according to the given hierarchical class structure. (see 91j:60002)
- Tutz, Gerhard On cross-validation for discrete kernel estimates in discrimination. 91i:62081
- Log-linear parameterizations in discriminant analysis. (Not in MR)
- Valdes, P. see Biscay, R.; et al., (Not in MR)
- Vasseur, Christian (with Lakel, Rabah; Hublin, Pascal) Estimation récurrente des caractéristiques d'une classe en reconnaissance des formes. (English summary) [Recursive estimation of the characteristics of a class in pattern recognition] (Not in MR)
- Vlachonikolis, I. G. Predictive discrimination and classification with mixed binary and continuous variables. (Not in MR)
- Wakaki, Hirofumi Comparison of linear and quadratic discriminant functions. 91a:62149
- Weber, Jean E. see Baldessari, Bruno, 91e:62157
- Weiss, Günter M. T. An algorithm for discriminating populations with unequal variance matrices. 91a:62150
- Whitcomb, Kathleen M. see Lahiff, Maureen, (Not in MR)
- Zhu, Qiuming On the minimum probability of error of classification with incomplete patterns. (Not in MR)

Items with secondary classifications in 62H30

- Aldarkhanov, M. B. Some metric properties of the space of classifications. (Russian) (Not in MR)
- Arenas, C. see Cuadras, C. M., 91i:62085
- Bai, Zhi Dong see Nishii, Ryuei; et al., 91c:62054
- Bandelt, Hans-Jürgen (with Dress, Andreas W. M.) Weak hierarchies associated with similarity measures—an additive clustering technique. 91a:92021
- Croweover, Richard M. A least squares approach to linear discriminant analysis. 91k:65071
- Cuadras, C. M. (with Arenas, C.) A distance based regression model for prediction with mixed data. 91i:62085
- Cwik, J. (with Mielniczuk, Jan) Estimating density ratio with application to discriminant analysis. 91a:62101
- Dress, Andreas W. M. see Bandelt, Hans-Jürgen, 91a:92021
- Dubey, Richard C. see Jain, Anil K., 91b:68155
- Dudekiewicz, Edward J. (with Taneja, Vidya S.) Heteroscedastic discriminant analysis with expert systems and NMR applications. 91i:68146
- Fang, Kai Tai see Quan, Hai; et al., (91e:62006)
- Filatov, D. A. see Grusho, A. A., (91j:60002)
- Fukunaga, Keinosuke ★ Introduction to statistical pattern recognition. 91i:68131
- Georgiakodis, F. A. see Jerwood, D., 91d:62075
- Grusho, A. A. (with Filatov, D. A.) Random mappings in cluster analysis. (Russian) (see 91j:60002)
- Hamamoto, Yoshihiko (with Kanaoka, Taiho; Tomita, Shingo) Orthonormal discriminant vectors of pattern recognition. 91i:68132
- Herden, G. Dissimilarity coefficients which are independent of a special set of data. 91c:92048
- Jain, Anil K. (with Dubey, Richard C.) ★ Algorithms for clustering data. 91b:68155
- Jerwood, D. (with Georgiakodis, F. A.) On the construction of point estimates for the Mahalanobis distance in discriminant analysis. 91d:62075
- Juhász, Ferenc On the characteristic values of nonsymmetric block random matrices. 91d:15042
- Kanaoka, Taiho see Hamamoto, Yoshihiko; et al., 91i:68132
- Khatree, Ravindra Some prediction procedures with special reference to selection. 91j:62093
- Krishnaiah, Paruchuri R. see Nishii, Ryuei; et al., 91c:62054
- Mielniczuk, Jan see Cwik, J., 91a:62101
- Mirkin, B. G. (with Satarov, G. A.) The method of fuzzy additive types for the analysis of multidimensional data. I. A model and its properties. 91i:92017
- (with Satarov, G. A.) The method of fuzzy additive types for the analysis of multidimensional data. II. An algorithm and its properties. 91i:92018
- Paradigms of current mathematical statistics. (Russian) (Not in MR)
- A sequential fitting procedure for linear data analysis models. 91j:62081
- Miyamoto, Sadaaki ★ Fuzzy sets in information retrieval and cluster analysis. 91g:04005
- Muchnik, I. B. see Zaks, Yu. M., 91a:68234
- Nishii, Ryuei (with Bai, Zhi Dong; Krishnaiah, Paruchuri R.) Strong consistency of the information criterion for model selection in multivariate analysis. 91c:62054
- Ostashevskii, Egidijus Recognition of random processes that can be described by a threshold autoregression model. (Russian. English and Lithuanian summaries) (Not in MR)
- Pirna, Kalev Sample approximation of the distribution by means of k points: a consistency result for separable metric spaces. (see 91j:60004)
- Quan, Hai (with Fang, Kai Tai; Teng, Cheng Ye) The application of information function for spherical distribution [Dongbei Shuxue 5 (1989), no. 1, 27–32; MR 90k:62017]. (see 91e:62006)
- Rahamondrainy, Henri How to deal with categorical data using clustering methods. (see 91j:62003)
- Rao, B. Raja see Talwalker, Sheela, (Not in MR)
- Rudakov, K. V. On the algebraic theory of universal and local constraints for classification problems. (Russian) (see 91f:68004)

- Satarov, G. A. *see* Mirkin, B. G., 91i:92017 and 91i:92018
- Talwalker, Sheela (with Rao, B. Raja) Modified quadratic analysis in prediction with mixed binary and continuous explanatory variables. (Not in MR)
- Taneja, Vidya S. *see* Dudewicz, Edward J., 91i:68146
- Teng, Cheng Ye *see* Quan, Hui; et al., (91e:62006)
- Therrien, Charles W. ★ Decision estimation and classification. 91f:68181
- Tomita, Shingo *see* Hamamoto, Yoshihiko; et al., 91i:68132
- Uberti, Mariacristina The use of branch and bound methods for the maximization of some statistical indexes. (see 91f:90007)
- Urba, K. Mutual redundancy of features in a diagnostic problem. (Russian. English and Lithuanian summaries) (see 91e:92001)
- Vajda, Igor Asymptotic rate of discrimination of random processes. 91m:62156
- Xie, Min Yu Strong convergence of estimators for conditional risk functions in k -NN discrimination and prediction. (Chinese. English summary) 91e:62045
- Zaks, Yu. M. (with Muchnik, I. B.) Monotone systems for construction of incomplete classifications of a finite set of objects. 91a:68234

62H40 Projection pursuit

- Blough, David K. Multivariate symmetry via projection pursuit. 91g:62050
- Cui, Heng Jian Is a p -dimensional population normally distributed when its distributions in any N projection directions are normal? (Chinese) (Not in MR)
- Öhrvik, J. Structure or noise. 91j:62086
- Posse, C. An effective two-dimensional projection pursuit algorithm. (Not in MR)
- Items with secondary classifications in 62H40
- Léger, Laurent Error prediction and model selection in projection pursuit regression. (Italian. English summary) 91m:62115
- Ruyngaert, Frits H. (with Smith, William Boyce) A note on homogeneity tests of covariance matrices. 91e:62148
- Smith, William Boyce *see* Ruyngaert, Frits H., 91e:62148

62H99 None of the above, but in this section

- d'Aubigny, G. (with Polit, E.) Some optimality properties of the generalization of the Tucker method to the analysis of n -way tables with specified metrics. (see 91j:62003)
- Bentler, Peter M. *see* Satorra, Albert, (Not in MR)
- Bookstein, Fred L. (with Sampson, Paul D.) Statistical models for geometric components of shape change. (Not in MR)
- Brown, Philip J. *see* Sundberg, Rolf, (Not in MR)
- Chatterjee, Samprit *see* Chatterjee, Sangit, (Not in MR)
- Chatterjee, Sangit (with Chatterjee, Samprit) A note on finding extreme points in multivariate space. (Not in MR)
- Girko, V. L. Introduction in general statistical analysis. (see 91j:60004)
- Kendall, David G. Random Delaunay simplexes in R^m . (Not in MR)
- Polit, E. *see* d'Aubigny, G., (91j:62003)
- Sampson, Paul D. *see* Bookstein, Fred L., (Not in MR)
- Satorra, Albert (with Bentler, Peter M.) Model conditions for asymptotic robustness in the analysis of linear relations. (Not in MR)
- Schmidli, Heinz *see* Weihs, Claus, (Not in MR)
- Sundberg, Rolf (with Brown, Philip J.) Multivariate calibration with more variables than observations. (Not in MR)
- Tracy, Derrick S. Balanced partitioned matrices and their Kronecker products. 91m:62112
- Weihs, Claus (with Schmidli, Heinz) OMEGA (online multivariate exploratory graphical analysis): routine searching for structure. (Not in MR)

Items with secondary classifications in 62H99

- Baksalary, Jerzy K. (with Hauke, Jan) A further algebraic version of Cochran's theorem and matrix partial orderings. 91k:15043
- Bhandari, Subir Kumar Multivariate majorization and directional majorization; positive results. 91k:15036
- *see also* Das Gupta, Somesh, 91f:60035
- Busygin, B. S. *see* Cheponis, K. A.; et al., (Not in MR)
- Cheponis, K. A. (with Žvirėnaitė, Dausa; Busygin, B. S.; Miroshnichenko, L. V.) ★ Методы, критерии и алгоритмы, используемые при преобразованиях, выделениях и выборе признаков в анализе данных. (Russian) [Methods, criteria and algorithms that can be used in the transformation, selection and choice of features in data analysis] (Not in MR)
- Colonius, Hans Possibly dependent probability summation of reaction time. (Not in MR)
- Das Gupta, Somesh (with Bhandari, Subir Kumar) Multivariate majorization. 91f:60035
- Girko, V. L. Asymptotics of the distribution of the spectrum of random matrices. 91h:60027
- Hauke, Jan *see* Baksalary, Jerzy K., 91k:15043
- Kaur, Amarjot (with Singh, Harshinder) Estimation of a distribution function bounded by two known distribution functions. 91m:62064
- Kendall, David G. A survey of the statistical theory of shape. 91a:60037
- Krantz, David M. *see* Suppes, Patrick; et al., 91g:00022
- Kobokawa, Tatsuya Sequential point estimation with bounded risk in a multivariate regression model. 91m:62149
- Kuritsyn, Yu. G. One family of order relations for random vectors. 91g:60027
- Le, Hui Ling A stochastic calculus approach to the shape distribution induced by a complex normal model. 91j:58176
- Luce, R. Duncan *see* Suppes, Patrick; et al., 91g:00022
- Meaux, Laurie M. (with Seaman, John W., Jr.) Probability inequalities for quadratic forms. 91j:60031
- Miroshnichenko, L. V. *see* Cheponis, K. A.; et al., (Not in MR)
- Neudecker, H. The variance matrix of a matrix quadratic form under normality assumptions. A derivation based on its moment-generating function. (Not in MR)
- Polyak, B. T. (with Tsybakov, A. B.) Asymptotic optimality of the C_p -test in the projection estimation of a regression. 91m:62070
- Seaman, John W., Jr. *see* Meaux, Laurie M., 91j:60031

- Silverstein, Jack W. Weak convergence of random functions defined by the eigenvectors of sample covariance matrices. 91j:60047
- Singh, Harshinder *see* Kaur, Amarjot, 91m:62064
- Suppes, Patrick (with Krantz, David M.; Luce, R. Duncan; Tversky, Amos) ★ Foundations of measurement. Vol. II. 91g:00022
- Tsybakov, A. B. *see* Polyak, B. T., 91m:62070
- Tversky, Amos *see* Suppes, Patrick; et al., 91g:00022
- Žvirėnaitė, Dausa *see* Cheponis, K. A.; et al., (Not in MR)

62Jxx Linear inference, regression

62J02 General nonlinear regression

- Amemiya, Yasuo Instrumental variable estimation of the nonlinear measurement error model. (see 91h:62003)
- Bacchetti, Peter Additive isotonic models. 91a:62151
- Bates, Douglas M. *see* Kang, Gunseog, 91m:62162
- Bhattacharyya, B. B. *see* Richardson, Gary D., 91b:62123
- Biden, Edmund N. *see* Olshen, Richard A.; et al., 91b:62122
- Bierens, Herman J. A consistent conditional moment test of functional form. 91i:62082
- Cao, Guo Liang *see* Wei, Bo Cheng, 91a:62154
- Celmiņš, Alvars A practical approach to nonlinear fuzzy regression. (Not in MR)
- Chen, Ting *see* Wang, Shu Ning; et al., (Not in MR)
- Dargahi-Noubary, G. R. A method for parameter estimation of nonlinear regression with autocorrelated errors. (Not in MR)
- Dijkstra, Gerhard Bootstrap approximation of nearest neighbor regression function estimates. 91h:62121
- Dzieliński, Krzysztof (with Ross, William H.) Assessing case influence on confidence intervals in nonlinear regression. (French summary) 91e:62161
- Ermolova, T. Yu. Estimation of regression parameters in problems with constraints. (Russian) (see 91m:90005)
- Eubank, R. L. (with Whitney, Paul) Convergence rates for estimation in certain partially linear models. 91e:62057
- (with Hart, Jeffrey D.; Speckman, Paul) Trigonometric series regression estimators with an application to partially linear models. 91a:62152
- Friedman, Jerome H. (with Silverman, Bernard W.) Flexible parsimonious smoothing and additive modeling. 91a:62153
- Georgiev, Alexander A. Nonparametric multiple function fitting. 91h:62058
- Grigor'ev, Yu. D. Asymptotic distribution of an estimate for the variance of the observations in a nonlinear regression model. 91f:62114
- Han, Guang Wen *see* Wang, Shu Ning; et al., (Not in MR)
- Härdle, Wolfgang Automatic curve smoothing. (see 91j:60004)
- Hart, Jeffrey D. *see* Eubank, R. L.; et al., 91a:62152
- (Hastie, Trevor) *see* Friedman, Jerome H., 91a:62153
- (Hawkins, Douglas M.) *see* Friedman, Jerome H., 91a:62153
- Jain, L. R. A note on Iyengar's method of estimating Engel elasticities from grouped data. (Not in MR)
- Jinadasa, K. G. (with Tracy, Derrick S.) Multivariate linear ultrastructural relationships model. 91j:62087
- Kang, Gunseog (with Bates, Douglas M.) Approximate inferences in multiresponse regression analysis. 91e:62162
- Kim, Hae Kyung The strong consistency of nonlinear least squares estimators. 91e:62163
- Knafl, George (with Sacks, Jerome; Spiegelman, Cliff H.) Calibrating for differences. 91d:62088
- Koutková, Helena Estimation of a parameter by the least squares method in a nonlinear regression model with a singular covariance matrix. (Czech. English and Russian summaries) 91m:62113
- Leconte, Jean-Pierre Uniform consistency of a class of regression function estimators for Banach-space valued random variable. 91h:62059
- Lee, Kee-Won Bootstrapping logistic regression models with random regressors. 91m:62114
- Léger, Laurent Error prediction and model selection in projection pursuit regression. (Italian. English summary) 91m:62115
- Levin, Bruce The saddlepoint correction in conditional logistic likelihood analysis. 91j:62088
- Neill, James W. (with Yang, Shie-Shien) Testing regression function adequacy in nonlinear multiresponse models. 91f:62115
- Ohtaki, Megu Some estimators of covariance matrix in multivariate nonparametric regression and their applications. 91e:62164
- Olshen, Richard A. (with Biden, Edmund N.; Wyatt, Marilyn P.; Sutherland, David H.) Gait analysis and the bootstrap. 91b:62122
- Pázmán, Andrej A sufficient statistic and a nonstandard linearization in nonlinear regression. 91c:62058
- Small-sample distributional properties of nonlinear regression estimators (a geometric approach). 91j:62089
- Almost exact distributions of estimators. I. Low-dimensional nonlinear regression. 91m:62116
- Almost exact distributions of estimators. II. Flat nonlinear regression models. 91m:62117
- Picci, Giorgio Parametrization of factor analysis models. 91d:62089
- Pool, A. H. Region estimates based on likelihood ratio in a nonlinear model. 91e:62165
- Errata: "Region estimates based on likelihood ratio in a nonlinear model" [Bull. Malaysian Math. Soc. (2) 12 (1989), no. 2, 73–82]. (Not in MR)
- Richardson, Gary D. (with Bhattacharyya, B. B.) Consistent L_1 -estimators in nonlinear regression for a noncompact parameter space. 91b:62123
- Ross, William H. *see* Dzieliński, Krzysztof, 91e:62161
- Sacks, Jerome *see* Knafl, George; et al., 91d:62088
- Schafer, Daniel W. Measurement error model estimation using iteratively weighted least squares. (see 91h:62003)
- Silverman, Bernard W. *see* Friedman, Jerome H., 91a:62153

- Speckman, Paul *see* Eubank, R. L.; et al., 91a:62152
- Spiegelman, Cliff H. *see* Knafl, George; et al., 91d:62088
- Srivastava, Jagdish N. Some aspects of response surface theory, and the philosophy of statistical experimental design. 91c:62166
- Sutherland, David H. *see* Olshen, Richard A.; et al., 91b:62122
- Tracy, Derrick S. *see* Jinadasa, K. G., 91j:62087
- Turney, Peter The curve fitting problem: a solution. (Not in MR)
- Wang, Shu Ning (with Han, Guang Wen; Chen, Ting) A method for estimating stochastic parameters with a normal distribution. (Chinese. English summary) (Not in MR)
- Wei, Bo Cheng (with Cao, Guo Liang) Nonlinear regression models with linear constraints. (Chinese. English summary) 91a:62154
- Whitney, Paul *see* Eubank, R. L., 91c:62057
- Wyatt, Marilyn P. *see* Olshen, Richard A.; et al., 91b:62122
- Yang, Shie-Shien *see* Nelli, James W., 91f:62115
- Yatchew, Adonis John Some tests of nonparametric regression models. 91b:62083
- Zavarin, A. N. A projection estimate for a regression function. 91b:62124
- Zolotarev, I. V. Asymptotic properties of M -estimates for regression parameters and their applications to the optimal design of an experiment. (Russian) 91b:62125
- Zwanig, Silvelyn On an asymptotic minimax result in nonlinear errors-in-variables models. 91d:62099
- Items with secondary classifications in 62J02
- Bera, Anil K. (with McAleer, Michael) Nested and nonnested procedures for testing linear and log-linear regression models. 91c:62171
- Brown, Philip J. (with Oman, Samuel D.) Problematic points in nonlinear calibration. (see 91b:62093)
- Brunk, H. D. (with Jones, Peter Watts) Fitting conditional distributions using orthogonal expansions. 91m:62056
- Bujs, Andreas Remarks on functional canonical variates, alternating least squares methods and ACE. 91g:62046
- (Bunke, Helga) *see* Humak, K. M. S., 91a:62001
- (Bunke, Olaf) *see* Humak, K. M. S., 91a:62001
- Burman, Prabir (with Chen, Keh-Wei) Nonparametric estimation of a regression function. 91d:62036
- Chen, Keh-Wei *see* Burman, Prabir, 91d:62036
- Ching, Kuang Fu *see* Cheng, Philip E., 91b:62069
- Cheng, Philip E. (with Ching, Kuang Fu) Asymptotic normality for robust R -estimators of regression function. 91b:62069
- Detle, H. A generalization of D - and D_1 -optimal designs in polynomial regression. 91k:62074
- Domowitz, Ian (with Muus, Lars) Likelihood inference in the nonlinear regression model with explosive linear dynamics. 91g:62085
- Dzhikiya, N. G. The limit distribution of maximal deviation of estimates for a regression curve. (Russian. English and Georgian summaries) 91b:62072
- Eubank, R. L. (with Speckman, Paul) Curve fitting by polynomial-trigonometric regression. 91c:62035
- Fabian, Václav Complete cubic spline estimation of nonparametric regression functions. 91c:62086
- Golubev, G. K. (with Nussbaum, Michael) A risk bound in Sobolev class regression. 91i:62065
- Gonin, René (with Money, Arthur H.) \star Nonlinear L_p -norm estimation. 91d:65222
- Huet, S. (with Jolivet, E.; Messéan, A.) Some simulations results about confidence intervals and bootstrap methods in nonlinear regression. (Not in MR)
- Humak, K. M. S. \star Statistical methods of model building. Vol. II. 91a:62001
- Hurvich, Clifford M. (with Tsai, Chih-Ling) Regression and time series model selection in small samples. 91c:62083
- Ioffe, M. O. (with Katkovnik, V. Ya.) Pointwise and uniform convergence with probability 1 of nonparametric regression estimates. 91a:62105
- (with Katkovnik, V. Ya.) The rate of pointwise and uniform convergence with probability 1 of nonparametric estimates for the regression function and its derivatives. 91a:62106
- Jolivet, E. *see* Huet, S.; et al., (Not in MR)
- Jones, Peter Watts *see* Brunk, H. D., 91m:62056
- Karr, Alan F. *see* Zucker, David M., 91c:62108
- Katkovnik, V. Ya. *see* Ioffe, M. O., 91a:62105 and 91a:62106
- Kukhaleishvili, R. E. Asymptotic distribution of the quadratic deviation of the regression curve recursive estimator. 91d:62047
- Kukush, A. G. Asymptotic properties of an estimator for an infinite-dimensional parameter of a nonlinear regression. (Russian) 91a:62076
- Kyriakoussis, A. (with Papageorgiou, H.) On characterization of power series distributions by a marginal distribution and a regression function. 91b:62206
- Loke, L. M. *see* Pool, A. H., 91e:62047 and (Not in MR)
- Martin, R. Douglas (with Yohai, Victor J.; Zamar, Ruben H.) Min-max bias robust regression. 91c:62094
- McAleer, Michael *see* Bera, Anil K., 91c:62171
- McKeague, Ian W. (with Utikal, Klaus J.) Inference for a nonlinear counting process regression model. 91j:62123
- Messéan, A. *see* Huet, S.; et al., (Not in MR)
- Michalek, Jiří Detection of changes in a simple regression model of a random process. (Russian summary) 91d:62143
- Mitchell, Toby J. *see* Sacks, Jerome; et al., 91a:62213
- Money, Arthur H. *see* Gonin, René, 91d:65222
- Muus, Lars *see* Domowitz, Ian, 91g:62085
- Myers, Raymond H. *see* Wardrop, Daniel M., 91i:62100
- Nelson, Forrest D. (with Savin, N. E.) The danger of extrapolating asymptotic local power. (Not in MR)
- Nussbaum, Michael *see* Golubev, G. K., 91i:62065
- Oman, Samuel D. *see* Brown, Philip J., (91b:62093)
- Papageorgiou, H. *see* Kyriakoussis, A., 91b:62206
- Pool, A. H. (with Loke, L. M.) Powers of likelihood ratio tests in a nonlinear model. 91e:62047
- (with Loke, L. M.) Errata: "Powers of likelihood ratio tests in a nonlinear model" [Bull. Malaysian Math. Soc. (2) 12 (1989), no. 2, 33–54]. (Not in MR)
- Pulato, B. N. A lower bound on minimax risk of nonparametric estimates for regression functions. (Russian) 91d:62050
- Puri, Prem S. (with Singh, Harshinder) On recursive formulas for isotonic regression useful for statistical inference under order restrictions. 91b:62043
- Roussas, George G. Nonparametric regression estimation under mixing conditions. 91j:62048
- Sacks, Jerome (with Welch, William J.; Mitchell, Toby J.; Wynn, Henry P.) Design and analysis of computer experiments. 91a:62213
- Savin, N. E. *see* Nelson, Forrest D., (Not in MR)
- Shao, Jun¹ Bootstrap variance and bias estimation in linear models. (French summary) 91f:62084
- Singh, Harshinder *see* Puri, Prem S., 91b:62043
- Speckman, Paul *see* Eubank, R. L., 91c:62035
- Strömberg, Ulf An algorithm for isotonic regression with arbitrary convex distance function. (Not in MR)
- Thomas-Agnan, Christine Smoothing periodic curves by a method of regularization. 91m:62074
- Tsai, Chih-Ling *see* Hurvich, Clifford M., 91c:62083
- Utikal, Klaus J. *see* McKeague, Ian W., 91j:62123
- Vapnik, V. N. Inductive principles of the search for empirical dependences (methods based on weak convergence of probability measures). (see 91c:68014)
- Volf, Petr A nonparametric analysis of proportional hazard regression model. (Russian summary) 91c:62106
- Wahba, Grace \star Spline models for observational data. 91g:62028
- Wardrop, Daniel M. (with Myers, Raymond H.) Some response surface designs for finding optimal conditions. 91i:62100
- Wei, Lai Sheng Empirical Bayes test of regression coefficient in a multiple linear regression model. 91m:62012
- Welch, William J. *see* Sacks, Jerome; et al., 91a:62213
- Whitney, Paul Approximation and information topologies. 91a:62078
- Wynn, Henry P. *see* Sacks, Jerome; et al., 91a:62213
- Yohai, Victor J. *see* Martin, R. Douglas; et al., 91c:62094
- Zaigraev, A. Ya. Optimal design of experiments for the regression of a regressive random element. (Russian) 91b:62157
- Zamar, Ruben H. *see* Martin, R. Douglas; et al., 91c:62094
- Zucker, David M. (with Karr, Alan F.) Nonparametric survival analysis with time-dependent covariate effects: a penalized partial likelihood approach. 91c:62108
- ## 62J05 Linear regression
- Adkins, Lee C. (with Hill, R. Carter) An improved confidence ellipsoid for the linear regression model. (Not in MR)
- Aksenova, T. I. (with Yurachkovskii, Yu. P.) A characterization of unbiased structures and conditions for their J -optimality. 91c:62167
- Albrecht, Matthias *see* Näther, Wolfgang, 91m:62122
- All, Mir Maswood (with Ponnappalli, R.) An optimal property of the Gauss-Markoff estimator. 91c:62168
- All, Mohamed Akkas On procedures frequently used in multiple regression analysis for dealing with missing values. 91b:62126
- Anh, V. V. On the Hildreth-Houck estimator for random coefficient regression models. 91h:62127
- Arenas, C. *see* Cuadras, C. M., 91i:62085
- Arnold, Steven F. *see* Schmoey, Richard L., 91d:62101
- Awat, Hayat Muhammad The detection of change point in a switching multivariate regression model. A Bayesian approach. (Not in MR)
- Bailey, K. R. *see* Wu, Margaret C., (Not in MR)
- Bakalary, Jerzy K. (with Pordzik, Paweł R.) Inverse-partitioned-matrix method for the general Gauss-Markov model with linear restrictions. 91a:62155
- (with Markiewicz, Augustyn) Admissible linear estimators of an arbitrary vector of parametric functions in the general Gauss-Markov model. 91k:62061
- (with Pordzik, Paweł R.) A note on comparing the unrestricted and restricted least-squares estimators. 91c:62169
- (with Puntanen, Simo) Characterizations of the best linear unbiased estimator in the general Gauss-Markov model with the use of matrix partial orderings. 91b:62060
- Bansal, Naveen K. Comparison of the slope parameters in errors-in-variables model. 91i:62084
- Bekker, Paul A. (with Neudecker, H.) Albert's theorem applied to problems of efficiency and MSE superiority. 91c:62170
- Bera, Anil K. (with McAleer, Michael) Nested and nonnested procedures for testing linear and log-linear regression models. 91c:62171
- Bhargava, Alek Missing observations and the use of the Durbin-Watson statistic. 91a:62156
- Bidabad, Bijan A proposed algorithm for least absolute error estimation. 91a:62157
- Binkley, James K. (with Nelson, Carl H.) How much better is disaggregate data? (Not in MR)
- Blacher, René Loi asymptotique des estimateurs des moindres carrés en régression linéaire. (English summary) [Asymptotic distribution of least-squares estimators in linear regression] 91a:62158
- Bohrer, Robert *see* Yancey, Thomas; et al., 91b:62145
- Brada, Dan *see* Hawkins, Douglas M., 91f:62117
- Brommeling, Lyle D. *see* Cook, Peyton; et al., (Not in MR)
- Brownstone, David Bootstrapping improved estimators for linear regression models. (Not in MR)
- Buonaccorsi, John P. Errors-in-variables with systematic biases. 91a:62159
- Burns, Patrick J. The L_1 solution set in two-way tables. 91b:62061
- Callanan, Terrance P. (with Harville, David A.) Some new algorithms for computing restricted maximum likelihood estimates of variance components. (Not in MR)
- Carlin, J. B. An algorithmic approach to Bayesian linear model calculations. (Not in MR)

- de Carvalho Filho, Antonio Assiz. Theoretical results obtained by applying the singular value decomposition to a linear Gauss-Markov model. (Portuguese. English summary) (Not in MR)
- Chaturvedi, Anoop (with Shukla, Govind). Lindley-like mean correction in the improved estimation of regression models with nonscalar covariance matrix. 91a:62160
- Chen, Ding Geng. Comparison of linear models. (Chinese. English summary) (Not in MR)
- Chen, Jian Bao. Robustness of MMLUE of regression coefficients and parameters in stochastic effect linear models. (Chinese. English summary) 91b:62128
- Chen, Zhao Guo (with Ni, Jun Yuan). Subset regressor: time series and its modeling procedures. 91a:62161
- Chow, Shein-Chung. See Wang, Song Gui; et al., 91a:62186
- Clarke, Judith A. Preliminary-test estimation of the standard error of estimate in linear regression. 91b:62062
- see also Giles, David E. A., 91a:62164
- Cline, Daren B. H. Consistency for least squares regression estimators with infinite variance data. 91a:62172
- Cook, Peyton (with Broemeling, Lyle D.; Gharaff, Mohammad). A Bayesian analysis of the mixed linear model. (Not in MR)
- Cook, R. Dennis. See Thomas, William, 91b:62142
- Cremers, Heinz (with Fieger, Werner). On minimax and best equivariant estimation functions in the linear model with A -unimodal density and quasiconvex loss. 91a:62162
- Cuadras, C. M. (with Arenas, C.). A distance based regression model for prediction with mixed data. 91b:62085
- Cullis, B. R. See McGilchrist, C. A., 91m:62119
- Dai, Bo Xin. Detection and assessment of collinearity. (Chinese) (Not in MR)
- Dai, Yi Sheng. See Zhang, Shi Ying. (Not in MR)
- Dalal, Siddhartha R. Simultaneous confidence bands for regression with unknown unequal variances. (Not in MR)
- Davies, P. Laurie. The asymptotics of S -estimators in the linear regression model. 91m:62118
- Dezhbakhsh, Hashem. See Thursby, Jerry G., 91d:62103
- Dollinger, Michael B. (with Staude, Robert G.). The construction of equileverage designs for multiple linear regression. 91j:62090
- Dorfman, Alan H. Sound confidence intervals in the heteroscedastic linear model through leveraging. (Not in MR)
- Dorsett, D. See Odell, P. L.; et al., 91c:62062
- Dunne, T. T. See Schall, R., 91j:62096
- Eklund, Håkan. Generation of test problems for L_p - and Huber regression. (Not in MR)
- El-Arisly, Samia M. (with Saleh, Amina A.). Uniformly better estimator in the linear mixed model having k -variance components. (Not in MR)
- El Bassiouni, M. Y. (with Elshahat, M. A. T.). On testing treatment effects in the unbalanced random one-way model. (Not in MR)
- Elpelt, Bärbel. On linear statistical models of commutative quadratic type. 91d:62091
- Elshahat, M. A. T. See El Bassiouni, M. Y., (Not in MR)
- Engel, Jan. Quasi-likelihood inference in a generalized linear mixed model for balanced data. (Not in MR)
- Fan, Qi Bin. A reduced algorithm for MINQUE estimation in heteroscedastic linear models. (Chinese) (Not in MR)
- Farnsworth, David L. The effect of a single point on correlation and slope. (Not in MR)
- Fellman, Johan. See Nordström, Kenneth, 91d:62098
- Fieger, Werner. See Cremers, Heinz, 91a:62162
- Firozi, Fathali K. A transformation of the inequality-constrained linear model. 91j:62091
- Fox, David E. Conditional multivariate calibration. 91a:62163
- Fraser, D. A. S. (with Lee, H. S.; Reid, N.). Nonnormal linear regression: an example of significance levels in high dimensions. 91c:62173
- Fujino, Yoritake. Estimating the value of control variable x with $\Pr(Y > c|x) = p$ in normal linear regression. (Not in MR)
- Gadzhiev, A. G. Statistical estimates in linear regression models with correlated errors of observation. 91d:62092
- Statistical estimates in regression models. 91j:62092
- Gaffke, Norbert (with Heiligers, Berthold). Bayes, admissible, and minimax linear estimators in linear models with restricted parameter space. 91c:62174
- Gao, Dao De (with Wang, Jing Long). Efficiency of generalized least square estimates. (Chinese. English summary) 91c:62059
- Gastwirth, Joseph L. (with Nayak, Tapan K.; Wang, Jane-Ling). Statistical properties of measures of between-group income differentials. 91c:62060
- Gharaff, Mohammad. See Cook, Peyton; et al., (Not in MR)
- Ghazal, G. A. Test of equality of coefficients in two sets of seemingly unrelated regressions. (Not in MR)
- The error of forecast for seemingly unrelated regression (SUR) equations. (Not in MR)
- On the distribution of test criterion for testing equality of regressions. (Not in MR)
- Ghosh, Malay. See Khuri, André L., 91f:62120
- Giles, David E. A. (with Clarke, Judith A.). Preliminary-test estimation of the scale parameter in a mis-specified regression model. 91a:62164
- González Mantega, Wenceslao. A general perspective, including new results, of the application of nonparametric estimation to linear regression. (Spanish. English summary) 91a:62165
- see also Stute, Winfried, 91f:62089
- Granger, Clive W. J. (with Uhlig, Harald F.). Reasonable extreme-bounds analysis. 91c:62175
- Griffiths, W. E. See Surekha, K., (Not in MR)
- Guegan, D. (with Pham Dinh Tuan). A note on the estimation of the parameters of the diagonal bilinear model by the method of least squares. 91g:62051a
- (with Pham Dinh Tuan). Correction note: "A note on the estimation of the parameters of the diagonal bilinear model by the method of least squares". 91g:62051b
- Hall, Peter Gavin. Effects of design and error on normal convergence rates in regression problems. 91f:62116
- Harville, David A. See Zimmerman, Dale L., 91a:62177 and Callanan, Terrance P., (Not in MR)
- Hashimoto, Noriko (with Ohtani, Kazuhiro). An exact test for linear restrictions in seemingly unrelated regressions with the same regressions. 91a:62166
- Hawkins, D. L. A U-I approach to retrospective testing for shifting parameters in a linear model. 91a:62167
- Hawkins, Douglas M. (with Bradu, Dan). Application of the Moore-Penrose inverse of a data matrix in multiple regression. 91f:62117
- Heiligers, Berthold. See Gaffke, Norbert, 91c:62174
- Heller, Glenn (with Simonoff, Jeffrey S.). A comparison of estimators for regression with a censored response variable. (Not in MR)
- Henderson, Harold V. (with Searle, Shyale R.). Generalized dispersion matrices for covariance structural analysis. 91f:62118
- Herzberg, Agnes M. (with Vere-Jones, D.). Some notes on design insensitivity to changes in covariance structure. 91b:62086
- (Hill, Joe R.). See del Pino, Guido E., 91b:62137
- Hill, R. Carter (with Judge, George G.). Improved estimation under collinearity and squared error loss. 91a:62168
- see also Adkins, Lee C., (Not in MR)
- Hoque, Asraul. The efficiency of the Cochran-Orcutt procedure. 91c:62176
- Hsü, Yü Li. A nonparametric multiple comparison approach for regression slopes with a control. 91a:62169
- Huang, Wén T'sao (with Wu, Chin Ch'uan). Least squares regression estimations based on censored data with measurement errors. (Not in MR)
- Igwé, J. See Odell, P. L.; et al., 91c:62062
- Iwase, Kōsei. Linear regression through the origin with constant coefficient of variation for the inverse Gaussian distribution. 91b:62129
- Jandhyala, V. K. (with MacNeill, I. B.). Detection of parameter changes at unknown times in linear regression models. (see 91j:60004)
- (with MacNeill, I. B.). Residual partial sum limit process for regression models with applications to detecting parameter changes at unknown times. 91b:62130
- Johnson, Dallas E. See Neill, James W., 91a:62171
- Jones, Michael C. On the robustness of shrinkage prediction in regression to a change in the linear relationship. 91f:62087
- (Jørgensen, Bent). See del Pino, Guido E., 91b:62137
- Judge, George G. See Hill, R. Carter, 91a:62168 and Yancey, Thomas; et al., 91b:62145
- Kaffes, Demetrios G. Strong consistency of least squares estimators in linear models. 91b:62131
- Kanazaki, Yoshiya. Coefficient of determination in multivariate linear model. 91f:62119
- Kariya, Takeaki. An identity in regression with missing observations. 91d:62093
- Khatree, Ravindra. Some prediction procedures with special reference to selection. 91j:62093
- Khuri, André L. (with Ghosh, Malay). Minimal sufficient statistics for the unbalanced two-fold nested model. 91f:62120
- Kim, Hyun-Ju (with Siegmund, David). The likelihood ratio test for a change-point in simple linear regression. 91b:62063
- Koenker, Roger. See Portnoy, Stephen, 91d:62100
- Korkhin, A. S. On the estimation of variable parameters of linear regression. (Russian) 91b:62062
- Kozak, Josef. Application of Demidenko's approach to the solution of the prediction problem: continued. (Czech summary) 91d:62094
- Kozłowska, Maria (with Walkowiak, Ryszard). Incomplete homogeneous multiresponse models: estimation. 91b:62064
- (with Walkowiak, Ryszard). Incomplete homogeneous multiresponse models: testing of hypotheses. (Not in MR)
- Kozumi, Hideo. On small sample properties of the Wald, LR and LM tests in a linear model with AR(1) errors. (Not in MR)
- Krämer, Walter. See Ploberger, Werner, 91j:62094
- Krishnaiah, Paruchuri R. See Nishii, Ryuei, 91a:62172
- Kubokawa, Tatsuya. Minimax estimation of common coefficients of several regression models under quadratic loss. 91c:62061
- Lange, Nicholas (with Ryan, Louise). Assessing normality in random effects models. 91c:62177
- Lauterbach, J. (with Stahlecker, P.). Some properties of $[\text{tr}(Q^{2p})]^{1/2p}$ with application to linear minimax estimation. 91c:62178
- Le Breton, Alain (with Musiela, M.). Order of convergence of regression parameter estimates in models with infinite variance. 91a:62170
- Lee, H. S. See Fraser, D. A. S.; et al., 91c:62173
- Lien, Da-Hsiang Donald (with Rearden, David). Missing measurements in discrete response models. (Not in MR)
- Liski, Erkki P. Comparing stochastically restricted linear estimators in a regression model. 91b:62132
- Comparing generalized mixed estimators with respect to covariance matrix in a linear regression model. 91d:62095
- Liu, Jin Shan. Finite sample results for the two-stage estimator for a class of seemingly unrelated regression systems. (Chinese. English summary) (Not in MR)
- Loynes, R. M. Testing distributions in large numbers of small samples. 91b:62133
- La, Chang Yu. Linear sufficiency and linear completeness in general Gauss-Markov models with restrictions. (Chinese. English summary) 91d:62096
- Comparison of restricted general Gauss-Markov models via linearly sufficient statistics and linearly complete statistics. (Chinese. English summary) 91b:62063
- MacNeill, I. B. See Jandhyala, V. K., 91b:62130 and (91j:60004)
- Mandal, Nripes Kumar. On robust designs. 91b:62134
- Markiewicz, Augustyn. See Baksalary, Jerzy K., 91b:62061
- McAleer, Michael. See Bern, Anli K., 91c:62171
- (McCallagh, Peter). See del Pino, Guido E., 91b:62137
- McDonald, Gary C. (with Studden, William J.). Design aspects of regression-based ratio estimation. 91b:62088
- McGilchrist, C. A. (with Cullis, B. R.). REML estimation for repeated measures analysis. 91m:62119
- Mee, Robert W. See Odeh, Robert E., (Not in MR)
- Mian, I. U. H. (with Shoukri, M. M.; Tracy, Derrick S.). Maximum likelihood estimation of sibling correlations in the analysis of family data. 91m:62120

- Michels, Paul (with Trenkler, Götz) Testing the stability of regression coefficients using generalized recursive residuals. **91m:62121**
- Miller, A. J. ★ Subset selection in regression. **91k:62064**
- Mo, Charles T. C. see Yang, Mark C. K. (Not in MR)
- Muchnik, I. B. (with Snegirev, P. M.) An estimate for the accuracy of a regression model with linear coefficients. **91d:62097**
- Musiela, M. see Le Breton, Alain. **91a:62170**
- Naidu, L. Kanniah An adjusted linear estimator. (Not in MR)
- Nalk, Dayanand N. Detection of outliers in the multivariate linear regression model. **91k:62065**
- Nakamura, Tsuyoshi Corrected score function for errors-in-variables models: methodology and application to generalized linear models. **91e:62179**
- Näther, Wolfgang (with Albrecht, Matthias) Linear regression with random fuzzy observations. **91m:62122**
- Naridi, William Edgeworth expansions for bootstrapping regression models. **91h:62135**
- Nawata, Kazumitsu Robust estimation based on grouped-adjusted data in censored regression models. **91h:62136**
- Nayak, Tapan K. see Gastwirth, Joseph L.; et al. **91c:62060**
- Neill, James W. (with Johnson, Dallas E.) A comparison of some lack of fit tests based on near replicates. **91a:62171**
- Nelson, Carl H. see Binkley, James K. (Not in MR)
- Nesenyuk, A. P. The practical value of the least squares method when the interference is additive. **91e:62180**
- Nendelcker, H. see Bekker, Paul A. **91e:62170**
- Ng, Vee Ming Bayesian analysis of linear models exhibiting changes in mean and precision at an unknown time point. (Not in MR)
- Ni, Jun Yuan see Chen, Zhao Gao. **91a:62161**
- Nishii, Ryuei (with Krishnaiah, Paruchuri R.) On the moments of classical estimates of explanatory variables under a multivariate calibration model. **91a:62172**
- Nordström, Kenneth (with Fellman, Johan) Characterizations and dispersion-matrix robustness of efficiently estimable parametric functionals in linear models with nuisance parameters. **91d:62098**
- Odch, Robert E. (with Mee, Robert W.) One-sided simultaneous tolerance limits for regression. (Not in MR)
- Odell, P. L. (with Dorsett, D.; Young, Dean Max; Igwe, J.) Estimator models for combining vector estimators. **91c:62062**
- Ohtani, Kazuhiko On estimating and testing in a linear regression model with autocorrelated errors. (Not in MR)
- see also Hashimoto, Noriko. **91a:62166**
- Oktaba, Wiktor Estimation and testing of hypotheses in multivariate general Gauss-Markoff model. (see **91j:60004**)
- *F*-tests for hypotheses with block matrices and under conditions of orthogonality in the general multivariate Gauss-Markoff model. **91d:62099**
- Özriktir, Fikri Multicollinearity problem in the linear models; some interpretations and suggestions. (Turkish. English summary) **91a:62173**
- Petunina, M. Yu. Investigation of the accuracy of a linear regression model under change in the number of parameters. (Not in MR)
- Phan Dinh Tuan see Guegan, D. **91g:62051a** and **91g:62051b**
- Pilz, J. Minimax linear estimation for fitting biased response surfaces. **91m:62123**
- Pisnelis, I. F. Minimax estimation of a regression. (Russian) **91m:62124**
- del Pino, Guido E. The unifying role of iterative generalized least squares in statistical algorithms. **91h:62137**
- Fleberger, Werner (with Krämer, Walter) The local power of the cusum and cusum of squares tests. **91j:62094**
- Ponnappalli, R. see Ali, Mir Maswood. **91e:62168**
- Pordzik, Paweł R. see Bakalary, Jerzy K. **91a:62155** and **91e:62169**
- Portnoy, Stephen (with Koenker, Roger) Correction: "Adaptive *L*-estimation for linear models" [Ann. Statist. 17 (1989), no. 1, 362–381; MR 90d:62089]. **91d:62100**
- Puntanen, Simo see Bakalary, Jerzy K. **91b:62060**
- Rao, Calyampudi Radhakrishna Methodology based on the L_1 -norm, in statistical inference. **91e:62181**
- A lemma on optimization of a matrix function and a review of the unified theory of linear estimation. **91m:62125**
- Rayner, Robert K. Bootstrap tests for generalized least squares regression models. **91j:62095**
- Bartlett's correction and the bootstrap in normal linear regression models. (Not in MR)
- Rearden, David see Lien, Da-Hsiang Donald. (Not in MR)
- Reid, N. see Fraser, D. A. S.; et al. **91e:62173**
- von Rosen, Dietrich A matrix formula for testing linear hypotheses in linear models. **91g:62052**
- Ryan, Louise see Lange, Nicholas. **91e:62177**
- Sadooghi-Alvandi, S. M. Simultaneous prediction intervals for regression models with an intercept. **91k:62066**
- Salah, A. K. Md. Ehsanes (with Shiraiishi, Taka-aki) On some *R*- and *M*-estimators of regression parameters under uncertain restriction. **91e:62182**
- Salah, Amina A. see El-Arishi, Samia M. (Not in MR)
- Sant'Anna, A. P. Generalized inverses in recursive least squares estimation with multiple additional observations. **91b:62138**
- Recursive least squares with singular design matrices. **91h:62139**
- Sapra, Sanil K. Nonlinear instrumental variable estimation with exact linear restrictions. **91c:62063**
- Sarkar, Nityananda Comparisons among some estimators in misspecified linear models with multicollinearity. **91b:62140**
- Schaffrin, B. (with Toutenburg, H.) Weighted mixed regression. **91f:62121**
- Schall, R. (with Dunne, T. T.) A unified approach to outliers in the general linear model. **91j:62096**
- Schmoyer, Richard L. (with Arnold, Steven F.) Shrinking techniques for robust regression. **91d:62101**
- Seaks, Terry G. The computation of test statistics for multivariate regression models in event studies. (Not in MR)
- Searle, Shayle R. see Henderson, Harold V. **91f:62118**
- Shao, Jun¹ Asymptotic distribution of the weighted least squares estimator. **91b:62141**
- Asymptotic theory in heteroscedastic nonlinear models. **91e:62183**
- Shiraiishi, Taka-aki *R*-estimators and confidence regions in one-way MANOVA. **91e:62184**
- see also Salah, A. K. Md. Ehsanes. **91e:62182**
- Shoukri, M. M. see Mian, I. U. H.; et al. **91m:62120**
- Shukla, Govind see Chaturvedi, Anoop. **91a:62160**
- Siegmund, David see Kim, Hynne-Ju. **91h:62063**
- Simonoff, Jeffrey S. see Heller, Glenn. (Not in MR)
- Snegirev, P. M. see Muchnik, I. B. **91d:62097**
- Soofi, Ehsan S. Effects of collinearity on information about regression coefficients. (Not in MR)
- Sorooshian, Soroosh see Vazirinejad, Shamsedin. **91j:62097**
- Spiegelman, Cliff H. Plotting techniques for errors-in-variables problems. (see **91h:62003**)
- Srivastava, Virendra Kumar see Tracy, Derrick S. (Not in MR)
- Stahlecker, P. see Lauterbach, J. **91e:62178**
- Staudte, Robert G. see Dollinger, Michael B. **91j:62090**
- Stefanski, Leonard A. A note on high-breakdown estimators. (Not in MR)
- Studden, William J. see McDonald, Gary C. **91i:62088**
- Šulajter, František Quadratic invariant estimators with maximally bounded mean square error. (see **91j:60004**)
- Robustness of the best linear unbiased estimator and predictor in linear regression models. (Russian and Slovak summaries) **91e:62185**
- Stein, Winfried (with González Manteiga, Wenceslao) Nearest neighbor smoothing in linear regression. **91f:62089**
- Bootstrap of the linear correlation model. **91f:62122**
- Surekha, K. (with Griffiths, W. E.) Comparison of some Bayesian heteroscedastic error models. (Italian summary) (Not in MR)
- Šetradžar, Brajendra C. Testing linear hypothesis with *t* error variable. **91f:62123**
- A note on the power of the *F*-test for testing linear hypothesis with elliptic *t* errors. (Not in MR)
- Tar, László A generalization of the fixed effects one-way analysis of the variance model. **91d:62102**
- Thomas, William (with Cook, R. Dennis) Assessing influence on predictions from generalized linear models. **91h:62142**
- Thurby, Jerry G. (with Dezhbakhsh, Hashem) Equivalence properties of the Hausman statistic based on a generalized inverse. **91d:62103**
- Tosteson, Tor D. (with Ware, James H.) Designing a logistic regression study using surrogate measures for exposure and outcome. **91b:62143**
- Toutenburg, H. Maximum-likelihood-Schätzung von fehlenden Beobachtungen. [Maximum likelihood estimation of missing observations] (see **91h:62005**)
- see also Schaffrin, B. **91f:62121**
- Toyooka, Yasuyuki No estimation effect up to the second-order for the covariance parameter of GLSE and MLE in a regression with a general covariance structure. **91f:62090**
- Tracy, Derrick S. (with Srivastava, Virendra Kumar) Comparison of some linear calibration estimators. (Not in MR)
- see also Mian, I. U. H.; et al. **91m:62120**
- Trenkler, Götz see Michels, Paul. **91m:62121**
- Tse, Siu-Keung see Wang, Song Gai; et al. **91e:62186**
- Uhlig, Harald F. see Granger, Clive W. J. **91e:62175**
- Vazirinejad, Shamsedin (with Sorooshian, Soroosh) A comparison of simultaneous-equations, weighted regression, and noise-in-variables models. **91j:62097**
- Vere-Jones, D. see Herzberg, Agnes M. **91b:62086**
- Walker, Esteban Influence diagnostics for fractional principal components estimators in regression. (Not in MR)
- Walkowiak, Ryszard see Kozłowska, Maria. **91h:62064** and (Not in MR)
- Wang, Jane-Ling see Gastwirth, Joseph L.; et al. **91c:62060**
- Wang, Jing Long see Gan, Dao De. **91c:62059**
- Wang, Song Gai (with Yang, Hu) Kantorovich-type inequalities and the measures of inefficiency of the GLSE. **91d:62104**
- A new estimate of regression coefficients in seemingly unrelated regression system. **91m:62126**
- (with Tse, Siu-Keung; Chow, Shein-Chung) On the measures of multicollinearity in least squares regression. **91e:62186**
- Wang, Tian Xing (with Zhang, Ze) Selection of significant subsets of variables in multivariate analysis of variance. (Chinese) (Not in MR)
- Wang, Zheng Ming Improved principal component estimation for regression coefficients. (Chinese) (Not in MR)
- Ware, James H. see Tosteson, Tor D. **91b:62143**
- Weiss, Andrew A. Least absolute error estimation in the presence of serial correlation. **91d:62105**
- Welsh, Roy E. An alternative to C_p model selection that emphasizes the quality of coefficient estimation. **91c:62064**
- Welsh, A. H. Correction: "On *M*-processes and *M*-estimation" [Ann. Statist. 17 (1989), no. 1, 337–361; MR 90j:62108]. **91e:62187**
- Wong, Chi Song Linear models in a general parametric form. **91a:62174**
- Wu, Chin Ch'uan see Huang, Wen T'ao. (Not in MR)
- Wu, Guo Fa (with Zhong, You Ming) A method for identifying outliers by using linear models. (Chinese) **91a:62175**
- Wu, Margaret C. (with Bailey, K. R.) Correction to: "Estimation and comparison of changes in the presence of informative right censoring: conditional linear model" [Biometrics 45 (1989), no. 3, 939–955; MR 90k:62151]. (Not in MR)
- Wu, Yao Hua¹ Variable selection in linear median regression. (Chinese) **91g:62053**
- Xia, Ming Yuan Consistency of LS estimators of regression coefficients in linear models. (Chinese) **91e:62188**
- Yamaguchi, Kazunori Analysis of repeated-measures data with outliers. **91b:62144**
- Yancey, Thomas (with Judge, George G.; Bohrer, Robert) Sampling performance of some joint one-sided preliminary test estimators under squared error loss. **91b:62145**
- Yang, Hu The inefficiency of the least squares estimator and its bound. (Not in MR)
- see also Wang, Song Gai. **91d:62104**

- Yang, Mark C. K. (with Mo, Charles T. C.) Coverage probability to the original data by prediction intervals in simple linear regression. (Not in MR) 91f:62124
- Yitzhaki, Shlomo On the sensitivity of a regression coefficient to monotonic transformations. 91f:62124
- Young, Dean Max see Odell, P. L.; et al., 91f:62062
- Yurachkovskii, Yu. P. see Akseova, T. I., 91f:62167
- Zaigraev, A. Yu. Quasiminimax estimates for unknown parameters and optimal designs for a regression experiment in a Hilbert space. (Russian) 91k:62067
- Zeisel, Helmut On the power of the Durbin-Watson test under high autocorrelation. 91a:62176
- Zhang, Shi Ying (with Dai, Yi Sheng) The Bayesian analysis of models with multiregimes. (Chinese. English summary) (Not in MR)
- Zhang, Ze see Wang, Tian Xing, 91a:62175
- Zhong, You Ming see Wu, Guo Fa, 91a:62175
- Zhu, Xin Juan A discussion on the distribution and properties of the statistic C_p . (Chinese. English summary) (Not in MR)
- Zimmerman, Dale L. (with Harville, David A.) On the unbiasedness of the Papadakis estimator and other nonlinear estimators of treatment contrasts in field-plot experiments. 91a:62177
- Items with secondary classifications in 62J05
- Abdullaev, F. A. see Kocherga, Yu. L., 91a:62019
- All, Mohamed Akkas Minimization of model inadequacy when observations subject to shift in means and variances. 91f:62103
- Antoch, J. (with Janssen, Paul) Nonparametric regression M -quantiles. 91f:62077
- Ardani, Pier Giorgio Bootstrapping, jackknife and James-Stein estimators. (Italian. English and French summaries) 91a:62178
- Arellano, Manuel Erratum: "On the efficient estimation of simultaneous equations with covariance restrictions" [*J. Econometrics* 42 (1989), no. 2, 247-265; MR 90m:62241]. (Not in MR)
- Asmussen, Søren Exponential families and regression in the Monte Carlo study of queues and random walks. 91k:65019
- Bagchi, Parthasarathy (with Draper, Norman R.; Guttman, Irwin) Bayesian assessment of assumptions of regression analysis. 91f:62117
- Baksalary, Jerzy K. (with Mathew, Thomas) Rank invariance criterion and its application to the unified theory of least squares. 91g:15002
- (with Puntanen, Simo) Spectrum and trace invariance criterion and its statistical applications. 91j:15023
- Bodogán, Hamparsum On the information-based measure of covariance complexity and its application to the evaluation of multivariate linear models. 91h:62005
- Brown, Lawrence D. The 1985 Wald Memorial Lectures. An ancillarity paradox which appears in multiple linear regression. 91i:62012
- Carroll, Raymond J. see Yin, Y., 91g:62048 and Wu, Margaret C., (Not in MR)
- Chaturvedi, Ajit On a modified sequential procedure to construct confidence regions for regression parameters. (Hindi summary) (Not in MR)
- Chaudhuri, Arijit Ray see Mukerjee, Rahul, 91m:62023
- Chen, Xi Ru Large sample statistics in China—a review of some recent contributions. 91e:62003
- Constantine, Gregory M. Robust designs for serially correlated observations. 91a:62188
- Davis, A. W. Distribution theory for some tests of independence of seemingly unrelated regressions. 91a:62136
- Dhanavanthan, P. see Suresh Chandra, K., 91g:62073
- Draper, Norman R. (with Pukelsheim, Friedrich) Another look at rotatability. 91f:62129
- see also Bagchi, Parthasarathy; et al., 91f:62117
- Dufour, Jean-Marie Exact tests and confidence sets in linear regressions with autocorrelated errors. 91f:62279
- Dutta, Jayasri (with Leon, H. L.) Testing for heterogeneous parameters in least-squares approximations. 91m:62190
- Gao, Dao De Robustness of an estimate and test statistics for a linear regression model. (Chinese. English summary) 91d:62033
- Gill, Richard D. Regression analysis for incomplete mixed cross-section and time-series data by a modified EM algorithm. 91h:62221
- Gouriéroux, Christian (with Peaucelle, Irina) Hétérogénéité. I. Étude des biais d'estimation dans le cas linéaire. (English summary) [Heterogeneity. I. Study of estimation biases in the linear case] (Not in MR)
- Hétérogénéité. II. Étude des biais de représentativité (sous l'hypothèse d'exogénéité faible). (English summary) [Heterogeneity. II. Study of bias (under the weak exogeneity assumption)] (Not in MR)
- Gupta, Rameshwar D. (with Richards, Donald St. P.) The Dirichlet distributions and polynomial regression. 91d:62067
- Gupta, Shanti S. (with Huang, Teng Yuan) Erratum: "Selecting important independent variables in linear regression models" [*J. Statist. Plann. Inference* 20 (1988), no. 2, 155-167; MR 90a:62073]. 91a:62059
- Guttman, Irwin see Bagchi, Parthasarathy; et al., 91f:62117
- Higham, Nicholas J. Computing error bounds for regression problems. 91m:65129
- Hossain, Anwar Detection of influential observations in regression model with autocorrelated errors. 91i:62095
- Huang, Teng Yuan see Gupta, Shanti S., 91a:62059
- Hurvich, Clifford M. (with Tsai, Chih-Ling) Regression and time series model selection in small samples. 91c:62083
- Jacroux, Mike Some optimal designs for comparing a set of test treatments with a set of controls. 91e:62197
- Janssen, Paul see Antoch, J., 91f:62077
- Jurečková, Jana (with Sen, Pranab Kumar) Uniform second order asymptotic linearity of M -statistics in linear models. 91d:62045
- Kabe, D. G. On a constrained least squares hypothesis testing problem. 91m:62102
- Khuri, André L. Multiresponse rotatability. 91f:62132
- Kim, Woo Chul see Park, Byoung Uk; et al., 91e:62062
- Kirlitsa, V. P. Exact D - and A -optimal designs for a regression line. (Russian) 91g:62058
- Kitagawa, Toshiro ★ Suisoku kateiron. (Japanese) [Sequential inference theory] 91g:62002
- Kocherga, Yu. L. (with Abdullaev, F. A.) Minimax estimation of linear regression parameters for J -optimal forecasting. 91a:62019
- Kott, Phillip S. Estimating the conditional variance of a design consistent regression estimator. 91h:62020
- Kuang, Hong Hui (with Yuan, Zhen Dong) Remarks on the asymptotic normality of least squares estimator for system identification. (Chinese summary) 91h:62026
- Lauterbach, J. see Stahlecker, P., 91e:62019
- Lee, Myoung-jae Mode regression. 91h:62222
- Leon, H. L. see Dutta, Jayasri, 91m:62190
- Li, Shou Mei see Wang, Zhen Yuan, 91f:62006
- Lim, Yong B. D -optimal design for cubic polynomial regression on the q -simplex. 91f:62098
- Livshits, K. I. Parameter estimation of a spline-like model of time series by the least squares method. 91f:62123
- Mammen, Eno Asymptotics with increasing dimension for robust regression with applications to the bootstrap. 91a:62046
- Martens, Harald (with Næs, Tormod) ★ Multivariate calibration. 91e:62050
- Mathew, Thomas ★ see Baksalary, Jerzy K., 91g:15002
- Maymin, Zakhar For what subsets of parameters is the least squares estimator minimax? 91f:62018
- Mukerjee, Rahul (with Chaudhuri, Arijit Ray) Asymptotic optimality of double sampling plans employing generalized regression estimators. 91m:62023
- Müller, Paul Hermann The jackknife and bootstrap approach in regression analysis. (see 91f:90007)
- Nachtsheim, Christopher J. On the design of experiments in the presence of fixed covariates. 91a:62192
- Næs, Tormod see Martens, Harald, 91e:62050
- Nagaraj, Neerchal K. Locally optimal invariant tests for change in level. 91m:62035
- Naiman, Daniel Q. Volumes of tubular neighborhoods of spherical polyhedra and statistical inference. 91k:60024
- Nawata, Kazumitsu Robust estimation based on grouped-adjusted data in linear regression models. 91f:62223
- Nelson, Charles R. (with Startz, Richard) Some further results on the exact small sample properties of the instrumental variable estimator. 91f:62285
- O'Leary, Dianne P. Robust regression computation using iteratively reweighted least squares. 91g:65094
- Padmawar, V. R. Optimal estimators under regression model. 91j:62013
- Pagurova, V. I. (with Rodionov, K. D.) Criteria for the exclusion of outlying observations in regression and dispersion analysis. (Russian) (see 91g:60003)
- Pan, Jian Xin Admissibility of linear estimates of regression coefficients in a growth curve model. (Chinese. English summary) 91a:62017
- Park, Byoung Uk (with Kim, Woo Chul; Song, Moon S.) Asymptotically optimal estimators of the differences of two regression parameters. 91e:62062
- Peaucelle, Irina see Gouriéroux, Christian, (Not in MR)
- Plucińska, Agnieszka On the property of the memory of stochastic processes with the linear regression. (Russian summary) 91d:60093
- Pukelsheim, Friedrich see Draper, Norman R., 91f:62129
- Puntanen, Simo see Baksalary, Jerzy K., 91f:15023
- Rama Krishnaiah, Y. S. see Rao, M. Sudhakara, 91f:60063
- Rao, J. N. K. see Scott, A. J.; et al., 91e:62151
- Rao, M. Sudhakara (with Rama Krishnaiah, Y. S.) Weak convergence of empirical processes of strong mixing sequences under estimation of parameters. 91f:60063
- Richards, Donald St. P. see Gupta, Rameshwar D., 91d:62067
- del Río, Manuel A coordinate-free approach to testable hypotheses. 91a:62054
- Rivest, Louis-Paul De l'unicité des estimateurs robustes en régression lorsque le paramètre d'échelle et le paramètre de la régression sont estimés simultanément. (English summary) [Uniqueness of robust regression estimators when the scale parameter and the regression parameter are estimated simultaneously] 91a:62089
- Rodionov, K. D. see Pagurova, V. I., (91g:60003)
- Saikkonen, Pentti Asymptotic relative efficiency of the classical test statistics under misspecification. 91a:62298
- Samanta, M. see Schwarz, C. J., 91b:62104
- Schafer, Daniel W. Measurement error model estimation using iteratively weighted least squares. (see 91h:62003)
- Schwarz, C. J. (with Samanta, M.) Minimum variance unbiased estimation in a multivariate linear regression. 91b:62104
- Scott, A. J. (with Rao, J. N. K.; Thomas, D. Roland) Weighted least-squares and quasilinear likelihood estimation for categorical data under singular models. 91e:62151
- Sen, Pranab Kumar see Jurečková, Jana, 91d:62045
- Sheather, Simon J. see Stande, Robert G., 91f:62064
- Singh, Balvir see Srivastava, M. S., 91a:62299
- Song, Moon S. see Park, Byoung Uk; et al., 91e:62062
- Srivastava, M. S. (with Singh, Balvir) Bootstrapping in multiplicative models. 91a:62299
- Stahlecker, P. (with Lauterbach, J.) Approximate linear minimax estimation in regression analysis with ellipsoidal constraints. 91e:62019
- Startz, Richard see Nelson, Charles R., 91f:62285
- Stande, Robert G. (with Sheather, Simon J.) ★ Robust estimation and testing. 91f:62064
- Steece, Bert M. Leverage in Bayesian regression. 91h:62058
- Stępnik, C. Stochastic ordering and Schur-convex functions in comparison of linear experiments. 91e:62013
- Sun, Liu Quan A note on admissible estimators. (Chinese. English summary) 91d:62006
- Suresh Chandra, K. (with Dhanavanthan, P.) Least squares estimation of the coefficients of a partially explosive model, with polynomial regressions of same degree, generating a pair of related time series. 91g:62073
- Tahir, Mohamed Asymptotic expansions for sequential confidence levels in inverse linear regression. 91e:62206
- Thomas, D. Roland see Scott, A. J.; et al., 91e:62151
- Tiao, George C. see Tsay, Ruey S., 91d:62147
- Tsai, Chih-Ling see Hurvich, Clifford M., 91c:62083
- Tsay, Ruey S. (with Tiao, George C.) Asymptotic properties of multivariate nonstationary processes with applications to autoregressions. 91d:62147

- Tsatis, Anastasios A. Estimating regression parameters using linear rank tests for censored data. **91k:62042**
- Wang, Zhen Yuan (with Li, Shou Mei) Fuzzy linear regression analysis of fuzzy valued variables. **91i:62006**
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- Yin, Y. (with Carroll, Raymond J.) A diagnostic for heteroscedasticity based on the Spearman rank correlation. **91g:62048**
- Yuan, Zhen Dong see Kuang, Hong Hui, **91h:62026**
- Zaigraev, A. Yu. Optimal design of an experiment in estimating unknown random regression coefficients. **91f:62127**

62J07 Ridge regression; James-Stein estimators

- Abu-Salih, M. S. see Ali, Mohamed Akkas, **91e:62189**
- Ali, Mohamed Akkas (with Abu-Salih, M. S.) On estimation of missing observations in linear regression models. **91e:62189**
- On a class of shrinkage estimators of the vector of regression coefficients. **91d:62106**
- Ardani, Pier Giorgio Bootstrapping, jackknife and James-Stein estimators. (Italian. English and French summaries) **91a:62178**
- Baksalary, Jerzy K. (with Pordzik, Pawel R.; Trenkler, Götz) A note on generalized ridge estimators. **91i:62068**
- Carter, R. A. L. (with Srivastava, M. S.; Srivastava, Virendra Kumar; Ullah, Aman) Unbiased estimation of the MSE matrix of Stein-rule estimators, confidence ellipsoids, and hypothesis testing. **91i:62091**
- Chaturvedi, Anoop see Tran Van Hoa, **91e:62190**
- Chawla, J. S. A note on ridge regression. **91b:62146**
- Chow, Shein-Chung see Wang, Song Gui, **91e:62191**
- Donatos, George S. (with Michailidis, George C.) Small sample properties of ridge estimators with normal and nonnormal disturbances. (Not in MR)
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- Hurvich, Clifford M. (with Tsai, Chih-Ling) Model selection for least absolute deviations regression in small samples. **91i:62092**
- Kennard, Robert W. see Hoerl, Arthur E., (Not in MR)
- Martinez, José Raúl An optimal property of the (r, k) class estimators. **91j:62098**
- Mehta, J. S. see Noor, Islam, **91a:62179**
- Michailidis, George C. see Donatos, George S., (Not in MR)
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- Sim, Ab-Boon see Nebebe, Fassil, (Not in MR)
- Srivastava, M. S. see Carter, R. A. L.; et al., **91i:62091**
- Srivastava, Virendra Kumar see Ullah, Aman, **91b:62147** and Carter, R. A. L.; et al., **91i:62091**
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- Tsai, Chih-Ling see Hurvich, Clifford M., **91i:62092**
- Ullah, Aman (with Srivastava, Virendra Kumar) On the improved estimation of structural coefficients. **91b:62147**
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- Wang, Song Gui (with Chow, Shein-Chung) A note on adaptive generalized ridge regression estimator. **91e:62191**
- Wu, Yue Hua On a class of model selection procedures. **91d:62107**
- Items with secondary classifications in 62J07
- Berger, James O. see Lu, Kun Liang, **91a:62134**
- Christensen, G. S. see Soliman, S. A., **91i:62044**
- Dorsett, D. see Odell, P. L.; et al., **91c:62062**
- Igwe, J. see Odell, P. L.; et al., **91c:62062**
- Jones, Michael C. On the robustness of shrinkage prediction in regression to a change in the linear relationship. **91i:62087**
- Lee, Carl M.-S. On the characterization of Pitman measure of nearness. **91e:62142**
- Lu, Kun Liang (with Berger, James O.) Estimated confidence procedures for multivariate normal means. **91a:62134**
- Miller, A. J. ★ Subset selection in regression. **91k:62064**

- Natarajan, Jayalakshmi (with Strawderman, William E.) Two-stage estimation of several Poisson parameters. **91k:62083**
- Odell, P. L. (with Dorsett, D.; Young, Dean Max; Igwe, J.) Estimator models for combining vector estimators. **91c:62062**
- Soliman, S. A. (with Christensen, G. S.) New algorithm for optimal parameter estimation with linear constraints. **91i:62044**
- Strawderman, William E. see Natarajan, Jayalakshmi, **91k:62083**
- Stroud, T. W. F. Asymptotic mean squared error of shrinkage estimators. **91a:62085**
- Welsh, Roy E. An alternative to C_p model selection that emphasizes the quality of coefficient estimation. **91c:62064**
- Young, Dean Max see Odell, P. L.; et al., **91c:62062**

62J10 Analysis of variance and covariance

- Agarwal, B. L. Testing a main effect in a three factor mixed model. (Not in MR)
- Amemiya, Yasuo (with Anderson, T. W.; Lewis, Peter A. W.) Percentage points for a test of rank in multivariate components of variance. **91k:62069**
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- Anderson, T. W. see Amemiya, Yasuo; et al., **91k:62069**
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- Burdick, Richard K. see Ting, Naitée; et al., **91a:62184**
- Caridad, José M. see Prieto, José M., **91a:62183**
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- Conaway, Mark R. A random effects model for binary data. (French summary) (Not in MR)
- Cook, R. Dennis see Beckman, R. J.; et al., (Not in MR)
- Deo, Sheela see Kshirsagar, Anant M., **91b:62148**
- Dulawat, M. S. (with Rao, Chaluradi Venkateswara; Gupta, Vijaya Prakash) Admissibility of conditionally specified test procedure in analysis of variance of random and mixed models. **91a:62180**
- Emerson, Scott S. (with Fleming, Thomas R.) Parameter estimation following group sequential hypothesis testing. (Not in MR)
- Fleming, Thomas R. see Emerson, Scott S., (Not in MR)
- Giovagnoli, Alessandra (with Sebastiani, Paola) Erratum: "Experimental designs for mean and variance estimation in variance components models" [Comput. Statist. Data Anal. **8** (1989), no. 1, 21-28]. (Not in MR)
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- Gupta, Sudhir see Singh, Murari, (Not in MR)
- Gupta, Vijaya Prakash see Dulawat, M. S.; et al., **91a:62180**
- Guttman, Irwin (with Menzefricke, Ulrich) Bayesian estimation in two-way tables with heterogeneous variances. **91e:62192**
- Hsu, Jason C. (with Soong, W. C.) Using the fast Fourier transform to compute multiple comparisons with the best and subset selection critical values. (Not in MR)
- Jeyaratnam, S. see Ting, Naitée; et al., **91a:62184**
- Joshi, D. D. see Singh, Bishwambhar, (Not in MR)
- Kala, R. (with Molińska, Anna; Moliński, Krzysztof) Approximate confidence intervals for a ratio of two variance components. **91i:62093**
- Kazempour, Mohammad K. (with Graybill, Franklin A.) Confidence bounds for proportion of σ^2 in unbalanced two-way crossed models. **91m:62127**
- Khattree, Ravindra (with Naik, Dayanand N.) Optimum tests for random effects in unbalanced nested designs. **91g:62054**
- Khuri, André I. Exact tests for random models with unequal cell frequencies in the last stage. **91m:62128**
- Kim, Byung Chun (with Sunwoo, Ha Sik) The Moore-Penrose inverse matrix for the balanced ANOVA models. **91d:62108**
- Kshirsagar, Anant M. (with Radhakrishnan, R.) A likelihood ratio test for interaction among variances. **91a:62181**
- (with Deo, Sheela) Distribution of the biased hypothesis sum of squares in linear models with missing observations. **91b:62148**
- Lee, Youngjo (with Chung, Han Young) Exact variance of location estimator in one-way random effect models with two distinct group sizes. **91a:62182**
- Lewis, Peter A. W. see Amemiya, Yasuo; et al., **91k:62069**
- Lu, Tai-Fang C. see Ting, Naitée; et al., **91a:62184**
- Mal'yutov, M. B. Local asymptotic normality in Gaussian model of variance components. (see **91j:60004**)
- Menzefricke, Ulrich see Guttman, Irwin, **91e:62192**
- van der Merwe, Abraham Johannes (with van der Merwe, Cay A.) Exact and approximate Bayes credibility intervals for the one-way analysis of variance model. **91k:62070**
- van der Merwe, Cay A. see van der Merwe, Abraham Johannes, **91k:62070**
- Mohebbi, Cyrus (with Shoemaker, Lewis H.) An extension of the median test to analysis of variance. (Not in MR)
- Molińska, Anna (with Moliński, Krzysztof) Interval estimation of parameters in an unbalanced mixed two-fold nested classification—the last-stage uniformity case. **91d:62109**
- see also Kala, R.; et al., **91i:62093**
- Moliński, Krzysztof see Molińska, Anna, **91d:62109** and Kala, R.; et al., **91i:62093**
- Mukhopadhyay, Anis C. see Sinha, Bikas Kumar; et al., **91j:62101**
- Murray, Leigh W. A note on connectedness in fixed effects MANOVA and GMANOVA models with missing cells. **91e:62193**
- Nachtsheim, Christopher J. see Beckman, R. J.; et al., (Not in MR)
- Naik, Dayanand N. see Khattree, Ravindra, **91g:62054**
- Prieto, José M. (with Caridad, José M.) A simplified treatment of the restricted analysis of a slightly disproportionate factorial experiment. **91a:62183**
- Radhakrishnan, R. see Kshirsagar, Anant M., **91a:62181**

Rao, Chaluradi Venkateswara *see* Dulawat, M. S.; et al., 91a:62180 and Ravichandran, J., (Not in MR)

Rao, U. L. Gouranga *see* Amirikhalkhali, Saleh, (Not in MR)

Ravichandran, J. (with Rao, Chaluradi Venkateswara) On power function of a conditionally specified test procedure in an unbalanced random effects model. (Hindi summary) (Not in MR)

Saha Ray, Rita *see* Sinha, Bikas Kumar; et al., 91j:62101

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Sebastiani, Paola *see* Giovagnoli, Alessandra, (Not in MR)

Shah, Shantilal M. *see* Shanker, Kripa, (Not in MR)

Shanker, Kripa (with Shah, Shantilal M.) Bounds of size of an analysis of variance test procedure for a conditionally specified mixed model. (Not in MR)

Shoemaker, Lewis H. *see* Mohebbi, Cyrus, (Not in MR)

Singh, Bahadur (with Wright, F. T.) Testing for and against an order restriction in mixed-effects models. 91e:62194

Singh, Bishwambhar (with Joshi, D. D.) On the distributions of components sums of squares in one-way unbalanced random model under heterogeneous error variances. (Not in MR)

Slagh, Murari (with Gupta, Sudhir) Estimating the sum of two ratios of parameters and an application. (Not in MR)

Sinha, Bikas Kumar (with Saha Ray, Rita; Mukhopadhyay, Anis C.) Nonadditive linear models: estimability and efficient estimations of interaction. 91j:62101

Soong, W. C. *see* Hsu, Jason C., (Not in MR)

Sunwoo, Ha Sik *see* Kim, Byung Chun, 91d:62108

Ting, Naitee (with Burdick, Richard K.; Graybill, Franklin A.; Jeyaratnam, S.; Lu, Tai-Fang C.) Confidence intervals on linear combinations of variance components that are unrestricted in sign. 91a:62184

Varga, Stefan Quadratic estimations in mixed linear models. (Slovak summary) 91m:62129

Wang, Chih Ming On the lower bound of confidence coefficients for a confidence interval on variance components. (French summary) (Not in MR)

— On ranges of confidence coefficients for confidence intervals on variance components. (Not in MR)

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Wright, F. T. *see* Singh, Bahadur, 91e:62194

Zielinski, Wojciech Robust estimation of variance components. (Polish. English summary) 91e:62195

— A note on the Hsu problem. 91b:62149

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An, Hong Zhi Regression analysis with errors in the independent variables. (Chinese. English summary) 91g:62021

Baksalary, Jerzy K. (with Dobek, Anita; Gnot, Stanislaw) Characterizations of two-way layouts from the point of view of variance component estimation in the corresponding mixed linear models. 91j:62107

Bhargava, R. P. Univariate and multivariate analyses of variance for incomplete factorial experiments having monotone structure in treatments. 91a:62208

Brits, S. J. M. (with Lemmer, H. H.) An adjusted Friedman test for the nested design. 91j:62053

Calvin, James A. (with Sinha, Kishore) A method for constructing variance balanced designs. 91b:62159

Catalani, Mario ★ Teoria delle matrici. (Italian) [Matrix theory] 91k:15001

Cullis, B. R. (with McGilchrist, C. A.) A model for the analysis of growth data from designed experiments. (French summary) (Not in MR)

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Dobek, Anita *see* Baksalary, Jerzy K.; et al., 91j:62107

(Egidi, Massimo) *see* Catalani, Mario, 91k:15001

Giri, Narayan C. *see* Das, Kalyan; et al., 91j:62011

Gnot, Stanislaw *see* Baksalary, Jerzy K.; et al., 91j:62107

Gobis, Witold J. *see* Sakalauskas, L. L., 91b:15004

Klonecki, Witold (with Zontek, Stefan) Variance components admissible estimation from some unbalanced data: formulae for the nested design. 91b:62012

— *see also* Zontek, Stefan, 91m:62016

Lemmer, H. H. *see* Brits, S. J. M., 91j:62053

Mansouri, Hossein Linear rank tests for homogeneity against ordered alternatives in ANOVA and ANOCOVA. 91d:62060

McGilchrist, C. A. *see* Cullis, B. R., (Not in MR)

Meneghini, Q. *see* Das, Kalyan; et al., 91j:62011

Mexia, João Tiago ★ Standardized orthogonal matrices and the decomposition of the sum of squares for treatments. 91a:62185

— ★ Estimable functions, duality of F tests and the Scheffé multiple comparison method. 91b:62150

Montgomery, Douglas C. ★ Design and analysis of experiments. 91m:62132

Mukerjee, Rahul Optimality of balanced designs for minimum norm quadratic unbiased estimation of variance components. 91e:62198

Pagurova, V. I. (with Rodionov, K. D.) Criteria for the exclusion of outlying observations in regression and dispersion analysis. (Russian) (see 91g:60003)

Rao, Calyampudi Radhakrishna Methodology based on the L_1 -norm, in statistical inference. 91e:62181

Rodionov, K. D. *see* Pagurova, V. I., (91g:60003)

Sakalauskas, L. L. (with Gobis, Witold J.) Covariance matrices with equal element blocks. (Russian. English and Lithuanian summaries) 91b:15004

Sen, Pranab Kumar *see* Tsai, Ming-Tan M., 91m:62082

Sinha, Kishore *see* Calvin, James A., 91b:62159

Tsai, Ming-Tan M. (with Sen, Pranab Kumar) Asymptotically efficient rank MANOVA tests for restricted alternatives in randomized block designs. 91m:62082

Zontek, Stefan The minimal complete class for the vector of variance components. 91b:62011

— (with Klonecki, Witold) Limiting admissible estimators for variance components. 91m:62016

— *see also* Klonecki, Witold, 91b:62012

62J12 Generalized linear models

Dobson, Annette J. ★ An introduction to generalized linear models. 91b:62094

Moulton, Lawrence H. (with Zeger, Scott L.) Bootstrapping generalized linear models. 91m:62130

Werner, Hans-Joachim¹ On inequality constrained generalized least-squares estimation. 91e:62196

Zeger, Scott L. *see* Moulton, Lawrence H., 91m:62130

Items with secondary classifications in 62J12

Bates, Douglas M. *see* Kang, Gunseog, 91e:62162

Boik, Robert J. Inference on covariance matrices under rank restrictions. 91f:62099

Booth, James G. (with Butler, Ronald W.) Randomization distributions and saddlepoint approximations in generalized linear models. 91m:62031

Butler, Ronald W. *see* Booth, James G., 91m:62031

Kang, Gunseog (with Bates, Douglas M.) Approximate inferences in multiresponse regression analysis. 91e:62162

Rao, Calyampudi Radhakrishna Methodology based on the L_1 -norm, in statistical inference. 91e:62181

62J15 Paired and multiple comparisons

Cheung, Siu Hung (with Holland, Burt) Extension of Dunnett's multiple comparison procedure to the case of several groups. (French summary) (Not in MR)

El-Helbawy, Abdalla T. Simple methods for testing treatment constraints in paired comparisons. (Not in MR)

Finner, Helmut On the modified S -method and directional errors. 91b:62065

Holland, Burt *see* Cheung, Siu Hung, (Not in MR)

Kenyon, James R. Bounds and approximations for pairwise comparisons of independent multinomial means. (Not in MR)

Lin, Fu-Jen (with Seppänen, Eila; Uusipaikka, Esa) On pairwise comparisons of the components of the mean vector in multivariate normal distribution. 91f:62125

McCabe, B. P. M. An extension of Anderson's multiple decision procedure. 91d:62110

Mexia, João Tiago ★ Standardized orthogonal matrices and the decomposition of the sum of squares for treatments. 91a:62185

— ★ Estimable functions, duality of F tests and the Scheffé multiple comparison method. 91b:62150

Seppänen, Eila *see* Lin, Fu-Jen; et al., 91f:62125

Stern, Hal A continuum of paired comparisons models. 91f:62126

Uusipaikka, Esa *see* Lin, Fu-Jen; et al., 91f:62125

Items with secondary classifications in 62J15

Elpelt, Bärbel On linear statistical models of commutative quadratic type. 91d:62091

Royen, Th. Generalized maximum range tests for pairwise comparisons of several populations. 91b:62030

Shanbhogue, Ashok A class of distribution-free tests for two-way layout. 91j:62059

Tamhane, Ajit C. An optimal procedure for partitioning a set of normal populations with respect to a control. 91b:62050

62J20 Diagnostics

Belsley, David A. A guide to using the collinearity diagnostics. (Not in MR)

Chinchilli, Vernon M. *see* Kish, Charles W., Jr., 91j:62102 and (Not in MR)

Cook, R. Dennis (with Weisberg, Sanford) Regression diagnostics with dynamic graphics. 91m:62131

— *see also* Thomas, William, 91g:62055

Hillier, Grant H. On multiple diagnostic procedures for the linear model. 91k:62071

Hossain, Anwar Detection of influential observations in regression model with autocorrelated errors. 91b:62095

Kish, Charles W., Jr. (with Chinchilli, Vernon M.) Diagnostics for identifying influential cases in GMANOVA. 91j:62102

— (with Chinchilli, Vernon M.) Diagnostics for identifying influential cases in MANOVA. (Not in MR)

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Weisberg, Sanford *see* Cook, R. Dennis, 91m:62131

Yang, Hu The distribution of strong influence and a measure of stability. (Chinese. English summary) (Not in MR)

— Weighted regression and the general influence measure. (Chinese summary) (Not in MR)

Items with secondary classifications in 62J20

Brad, Dan *see* Hawkins, Douglas M., 91f:62117

Hawkins, Douglas M. (with Brad, Dan) Application of the Moore-Penrose inverse of a data matrix in multiple regression. 91f:62117

Miller, A. J. ★ Subset selection in regression. 91k:62064

Pettit, L. I. The conditional predictive ordinate for the normal distribution. 91e:62068

Weissfeld, L. A. Influence diagnostics for the proportional hazards model. (Not in MR)

62J99 None of the above, but in this section

Bárdossy, Andras Note on fuzzy regression. (Not in MR)

Cao, Bing Yuan Study on nondistinct self-regression forecast model. (Not in MR)

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Cullis, B. R. *see* Verbyla, A. P., (Not in MR)

- Diamond, Phil Higher level fuzzy numbers arising from fuzzy regression models. (Not in MR)
- Duffy, Diane E. On continuity-corrected residuals in logistic regression. (Not in MR)
- Gates, J. *see* Planitz, M., (Not in MR)
- Jásef, Sándor Über das fuzzy-Regressionsproblem. (English summary) [On the fuzzy regression problem] 91d:62111
- Marx, Brian D. (with Smith, Eric Peter) Principal component estimation for generalized linear regression. (Not in MR)
- Pedrycz, Witold *see* Savic, Dragan A., (Not in MR)
- Planitz, M. (with Gates, J.) Strict discrete approximation in the L_1 and L_∞ norms. (Not in MR)
- Prentice, Ross L. *see* Zhao, Lue Ping. (Not in MR)
- Savic, Dragan A. (with Pedrycz, Witold) Evaluation of fuzzy linear regression models. (Not in MR)
- Shao, Jun¹ *see* Chow, Shien-Chung. (Not in MR)
- Smith, Eric Peter *see* Marx, Brian D., (Not in MR)
- Vapnik, V. N. Inductive principles of the search for empirical dependences (methods based on weak convergence of probability measures). (see 91c:68014)
- Verbyla, A. P. (with Cullis, B. R.) Modelling in repeated measures experiments. (Not in MR)
- Zhao, Lue Ping (with Prentice, Ross L.) Correlated binary regression using a quadratic exponential model. (Not in MR)

Items with secondary classifications in 62J99

- Boggs, Paul T. (with Rogers, Janet E.) Orthogonal distance regression. (see 91h:62003)
- van de Geer, Sara Estimating a regression function. 91c:60005
- Heckman, James J. (with Honoré, Bo E.) The identifiability of the competing risks model. 91c:62097
- Honoré, Bo E. *see* Heckman, James J., 91c:62097
- de Hoog, F. R. (with Speed, T. P.; Williams, E. R.) On a matrix identity associated with generalized least squares. 91c:15008
- Miller, Stephen M. Analysis of residuals from measurement error models. (see 91h:62003)
- Polyak, B. T. (with Tsybakov, A. B.) Asymptotic optimality of the C_p -test in the projection estimation of a regression. 91m:62070
- Prentice, Michael J. Spherical regression on matched pairs of orientation statistics. 91c:62055
- Rogers, Janet E. *see* Boggs, Paul T., (91h:62003)
- Speed, T. P. *see* de Hoog, F. R.; et al., 91c:15008
- Stepashko, V. S. Asymptotic properties of external criteria for model selection. 91h:93074
- Stewart, G. W. Perturbation theory and least squares with errors in the variables. (see 91h:62003)
- Tsybakov, A. B. *see* Polyak, B. T., 91m:62070
- Veit, Petr An identification of proportionality of hazards for nonhomogeneous lifetime data. 91c:62262
- Whittemore, Alice S. Errors-in-variables regression problems in epidemiology. (see 91h:62003)
- Williams, E. R. *see* de Hoog, F. R.; et al., 91c:15008
- Yohai, Victor J. (with Zamar, Ruben H.) Bounded influence estimation in the errors-in-variables model. (see 91h:62003)
- Zamar, Ruben H. *see* Yohai, Victor J., (91h:62003)

62Kxx Experimental design [see also 05Bxx]

- Heiberger, Richard M. ★ Computation for the analysis of designed experiments. 91d:62112
- Montgomery, Douglas C. ★ Design and analysis of experiments. 91m:62132

62K05 Optimal designs

- Afsarinejad, Kaura Circular balanced uniform repeated measurements designs. II. 91c:62056
- All, Mohamed Akkas Minimization of model inadequacy when observations subject to shift in means and variances. 91j:62103
- Atkinson, A. C. (with Donev, A. N.) The construction of exact D -optimum experimental designs with application to blocking response surface designs. 91h:62151
- Bagchi, Sananda (with Shah, K. R.) On the optimality of a class of row-column designs. 91d:62113
- Bagiatis, C. E -optimal 2^2 saturated designs. 91h:62066
- Balborodin, O. A. Some optimality problems for saturated designs and confidence bands for multilinear regression. (Russian) (see 91a:60023)
- Besedin, B. A. D -optimal design of an experiment for a two-factor logarithmic kinetic function. (Russian) (see 91c:60006)
- Bhaskar, Dalal Kumar Optimal incomplete block designs for comparing treatments with a control under the nearest neighbor correlation model. 91m:62133
- Breszkiewicz, Henryk E -optimality for PBB designs with two associate classes. (Polish. English summary) 91a:62186
- Ceranka, Bronisław (with Katulka, Krystyna) Constructions of optimum biased spring balance weighing designs with the diagonal covariance matrix of errors. 91h:62072
- (with Katulka, Krystyna) A note on the estimation of total weight in chemical balance weighing designs. 91g:62057
- Chadjiconstantinidis, Stathis (with Cheng, Ching-Shui; Moysiadi, Chronis) Construction of optimal fractional factorial resolution V designs with $N \equiv 2 \pmod{16}$. 91a:62187
- Cheng, Ching-Shui Optimal properties of balanced incomplete block and other designs. 91d:62114
- *see also* Chadjiconstantinidis, Stathis; et al., 91a:62187
- Chernoff, Herman (with Haitovsky, Yoel) Locally optimal design for comparing two probabilities from binomial data subject to misclassification. 91h:62073
- Constantine, Gregory M. Robust designs for serially correlated observations. 91a:62188
- Cultrone, Verónica Erratum: "Mixture experiments with process variables: D -optimal orthogonal experimental designs" [Comm. Statist. Theory Methods 17 (1988), no. 1, 105–121; MR 89h:62125]. 91c:62096
- Das, Ashish *see* Dey, Aloke, 91d:62115
- Detle, H. A generalization of D - and D_1 -optimal designs in polynomial regression. 91c:62074
- Dey, Aloke (with Das, Ashish) On some E -optimal block designs. 91d:62115
- *see also* Nguyen, Nam-Ky, (Not in MR)
- Donev, A. N. *see* Atkinson, A. C., 91h:62151
- Eccleston, J. A. *see* Street, Deborah J.; et al., 91m:62135
- Fedorov, Valeri Vladimirovich Numerical methods of optimal design construction. (see 91j:60004)
- Gaffke, Norbert (with Mathar, Rudolf) Linear minimax estimation and related Bayes L -optimal design. (see 91f:90006)
- Guang, Ying Nam A direct product design and its optimality. (Chinese. English summary) (Not in MR)
- Haitovsky, Yoel *see* Chernoff, Herman, 91k:62073
- Hedayat, A. S. (with Zhao, Wenxun) Optimal two-period repeated measurements designs. 91m:62134
- Herzberg, Agnes M. (with Tsukanov, A. V.) The design of experiments for model selection. (see 91j:60004)
- Hooper, Peter M. Minimality of randomized optimal designs. 91c:62065
- Huda, S. On some efficiency problems in response surface designs. (Not in MR)
- On a problem of increasing the efficiency of second-order rotatable designs. 91h:62097
- Further results on minimax designs to estimate the slope of a response surface. (Not in MR)
- On an alternative derivation of the moments of A -optimal second order designs for regression on cubes. (Hindi summary) (Not in MR)
- *see also* Mukerjee, Rahul, 91h:62068
- Jacroux, Mike Some MV-optimal block designs for comparing test treatments with a standard treatment. 91a:62189
- (with Majumdar, Dibyen) Optimal block designs for comparing test treatments with a control when $k > v$. 91a:62190
- Some sufficient conditions for type I optimality with applications to regular graph designs. 91c:62066
- On the E -optimality of block designs under the assumption of random block effects. 91h:62067
- Some optimal designs for comparing a set of test treatments with a set of controls. 91c:62197
- Some E -optimal row-column designs having unequally replicated treatments. 91h:62075
- *see also* Lee, K. Y., 91c:62068
- Johnson, M. E. (with Moore, L. M.; Ylvisaker, Donald) Minimax and maximin distance designs. 91j:62104
- Kageyama, Sanpei Complete characterization of optimum weighing designs for estimating the total weight. 91c:62067
- Karakostas, K. X. Exact optimum sampling designs for autocorrelated finite populations. (Not in MR)
- Katulka, Krystyna Optimum biased spring balance weighing designs. 91h:62152
- *see also* Ceranka, Bronisław, 91g:62057 and 91k:62072
- Kiritina, V. P. Exact D - and A -optimal designs for a regression line. (Russian) 91g:62058
- Kobylinski, André Complex linear models and cyclic designs. 91d:62116
- Kotlyar-Machera, F. Fractional factorial designs and G -optimality. 91h:62153
- Lee, K. Y. (with Jacroux, Mike) On the E -optimality of block designs having unequal block sizes. 91c:62068
- Lien, Yong B. D -optimal design for cubic polynomial regression on the q -simplex. 91h:62098
- Majumdar, Dibyen *see* Jacroux, Mike, 91a:62190
- Mandal, Nripes Kumar D -optimal designs for estimating the optimum point in a quadratic response surface-rectangular region. 91a:62191
- Martin, Richard John Some results on the Φ_p -value when errors are correlated. 91c:62069
- Mathar, Rudolf *see* Gaffke, Norbert, (91f:90006)
- Moore, L. M. *see* Johnson, M. E.; et al., 91j:62104
- Moysiadi, Chronis *see* Chadjiconstantinidis, Stathis; et al., 91a:62187
- Mukerjee, Rahul Optimality of balanced designs for minimum norm quadratic unbiased estimation of variance components. 91c:62198
- (with Huda, S.) Fourth-order rotatable designs: A -optimal measures. 91h:62068
- Mukhopadhyay, Anis C. (with Saha Ray, Rita) Three way elimination of heterogeneity with nonorthogonal incidence structure for every two directions. 91h:62069
- Myers, Raymond H. *see* Wardrop, Daniel M., 91h:62100
- Nachtsheim, Christopher J. On the design of experiments in the presence of fixed covariates. 91a:62192
- Nguyen, Nam-Ky (with Dey, Aloke) Computer-aided construction of small (M, S) -optimal incomplete block designs. (Not in MR)
- Peiris, M. S. *see* Singh, Naunihal, 91h:62156
- Pekalsheim, Friedrich Ordering experimental designs. (see 91j:60004)
- Complete class results for linear regression designs over the multidimensional cube. 91a:62193
- Rafajlowicz, Ewaryst Optimum input signals for parameter estimation in systems described by linear integral equations. 91c:62070
- Saha Ray, Rita *see* Mukhopadhyay, Anis C., 91h:62069
- Sathe, Y. S. (with Shenoy, R. G.) A -optimal weighing designs when $N \equiv 3 \pmod{4}$. 91h:62154
- Shah, K. R. (with Sinha, Bikas Kumar) On the choice of optimality criteria in comparing statistical designs. (French summary) 91h:62155
- *see also* Bagchi, Sananda, 91d:62113
- Shenoy, R. G. *see* Sathe, Y. S., 91h:62154
- Singh, Naunihal (with Peiris, M. S.) Optimal experimental designs for linear time series models with stochastic coefficients. 91h:62156
- Sinha, Bikas Kumar *see* Shah, K. R., 91h:62155
- Spruill, Carl Optimal designs for multivariate interpolation. 91h:62099
- Good designs for polynomial extrapolation. 91j:62105
- Street, Deborah J. (with Eccleston, J. A.; Wilson, William H.) Tables of small optimal repeated measurements designs. 91m:62135
- Tsukanov, A. V. *see* Herzberg, Agnes M., (91j:60004)

- Wardrop, Daniel M. (with Myers, Raymond H.) Some response surface designs for finding optimal conditions. **91b:62100**
- Wawrzynek, Jerzy Some remarks in relation to construction of optimal exact designs for multivariate linear regression. (see **91f:90005**)
- Wiens, Douglas P. Robust minimax designs for multiple linear regression. **91g:62059**
- Wilson, William H. see Street, Deborah J.; et al., **91m:62135**
- Wynn, Henry P. Observation and experimental design for autocorrelated processes. (see **91j:60004**)
- Xu, Yin Ru A general proof of the convergence of the W -algorithm in linear optimal design. (Chinese. English summary) (Not in MR)
- Yang, Yi Min¹ Universal optimality and broad optimality of some nonorthogonal augmented factorial designs. (Chinese. English summary) **91i:62101**
- Ylvisaker, Donald see Johnson, M. E.; et al., **91j:62104**
- Zaigraev, A. Yu. Optimal design of experiments for the regression of a regressive random element. (Russian) **91b:62157**
- Optimal design of an experiment in estimating unknown random regression coefficients. **91f:62127**
- Zergaw, Getachew A sequential method of constructing optimal block designs. **91a:62194**
- Zhao, Wenxun see Hedayat, A. S., **91m:62134**

Items with secondary classifications in 62K05

- Aksenova, T. I. (with Yurachkovskii, Yu. P.) A characterization of unbiased structures and conditions for their J -optimality. **91e:62167**
- Ceranka, Bronisław (with Katulska, Krystyna) On some constructions of optimum chemical balance weighing designs. **91b:62070**
- Chang, Myron N. see Therneau, Terry M.; et al., **91j:62111**
- Czitrom, Veronica Experimental design for four mixture components with process variables. **91a:62200**
- Duchrau, Petra (with Frischmuth, Kurt) A numerical search algorithm for experimental design. (Not in MR)
- Frischmuth, Kurt see Duchrau, Petra, (Not in MR)
- Hwang, F. K. see Yao, Yi-Ching, **91e:62136**
- Hyodo, Yoshifumi Partial A -optimal balanced fractional 2^m factorial designs with $6 \leq m \leq 8$. **91d:62122**
- Katulska, Krystyna see Ceranka, Bronisław, **91b:62070**
- Mukhopadhyay, Anis C. see Sinha, Bikas Kumar; et al., **91j:62101**
- Pázmán, Andrej A sufficient statistic and a nonstandard linearization in nonlinear regression. **91c:62058**
- Rekha, Kamel Asymptotic optimality of experimental designs in estimating a product of means. **91d:62126**
- Saha Ray, Rita see Sinha, Bikas Kumar; et al., **91j:62101**
- Sinha, Bikas Kumar (with Saha Ray, Rita; Mukhopadhyay, Anis C.) Nonadditive linear models: estimability and efficient estimations of interaction. **91j:62101**
- Therneau, Terry M. (with Wicand, H. S.; Chang, Myron N.) Optimal designs for a grouped sequential binomial trial. (French summary) **91j:62111**
- Wicand, H. S. see Therneau, Terry M.; et al., **91j:62111**
- Yangisawa, Yukio Designs for discrimination between bivariate binary response models. (French summary) (Not in MR)
- Yao, Yi-Ching (with Hwang, F. K.) On optimal nested group testing algorithms. **91i:62136**
- Yurachkovskii, Yu. P. see Aksenova, T. I., **91e:62167**
- Zaigraev, A. Yu. Quasiminimax estimates for unknown parameters and optimal designs for a regression experiment in a Hilbert space. (Russian) **91b:62067**

62K10 Block designs

- Adhikary, Basudeb (with Panda, Rajendranath) Construction of nearly D -efficient third order rotatable designs using PBIB designs. **91a:62195**
- (with Das, Premadhis) A class of d -level symmetric designs from grouped arrays. **91c:62071**
- Afsarinejad, Kobra Rectangular lattice designs. **91f:62128**
- Agarwal, S. C. (with Das, M. N.) A note on construction and application of balanced n -ary designs. (Not in MR)
- Agarwal, Harish Chandra Partially balanced change-over designs based on certain m -associate-class PBIB designs. **91a:62196**
- Bailey, R. A. An efficient semi-Latin square for twelve treatments in blocks of size two. (Not in MR)
- Baksalary, Jerzy K. (with Puri, Praja D.) Pairwise-balanced, variance-balanced and resistant incomplete block designs revisited. **91b:62158**
- Barua, T. K. see Shil, Rabindra Nath, (Not in MR)
- Bhagwandas (with Nutan; Vinita) On comparison between a class of efficiency balanced and corresponding variance balanced designs. **91b:62076**
- Bhaumik, Dulal Kumar (with Mathew, Thomas¹) On the minimax optimality of nonrandomized block designs. **91a:62197**
- Bhimani, G. C. see Ghosh, Dilip Kumar; et al., **91b:62071**
- Bradley, Ralph A. see Stewart, Frances P., **91j:62106**
- Calvin, James A. (with Sinha, Kishore) A method for constructing variance balanced designs. **91b:62159**
- Ceranka, Bronisław (with Katulska, Krystyna) On some constructions of optimum chemical balance weighing designs. **91b:62070**
- Chang, Cheng-Tao On the construction of hypercubic design. **91a:62198**
- Constantine, Gregory M. On the invertibility of the discrete Radon transform. **91a:62199**
- Czitrom, Veronica Experimental design for four mixture components with process variables. **91a:62200**
- Das, Ashish (with Dey, Aloke) A note on balanced block designs. **91a:62201**
- (with Dey, Aloke) A note on construction of Graeco-Latin square of order $2n + 1$. (Hindi summary) (Not in MR)
- see also Prasada Rao, M. V. R., **91a:62206**
- Das, M. N. see Agarwal, S. C., (Not in MR)
- Das, Premadhis see Adhikary, Basudeb, **91c:62071**
- Dey, Aloke Some new partially balanced designs with two associate classes. **91b:62160**
- (with Dhall, S. P.) Robustness of augmented BIB designs. **91e:62199**
- see also Das, Ashish, **91a:62201**; Srivastava, Rakesh; et al., (Not in MR) and Das, Ashish, (Not in MR)
- Dhall, S. P. see Dey, Aloke, **91e:62199**
- Ghosh, Dilip Kumar Some series of generalised efficiency balanced designs. **91a:62202**
- (with Bhimani, G. C.; Kageyama, Sanpei) Resolvable semi-regular group divisible designs. **91b:62071**
- Gill, P. S. A Monte Carlo simulation study of analyses of block designs under correlated errors model. (Not in MR)
- Graham, Ronald L. (with Hinkley, D. V.; John, Peter W. M.; Shi, Sheng G.) Balanced design of bootstrap simulations. **91d:62117**
- Gupta, Lalpat R. (with Puri, Praja D.) Incomplete block designs for asymmetrical slope ratio assays. (Not in MR)
- Gupta, Sudhir Efficient designs for comparing test treatments with a control. **91a:62203**
- (with Mukerjee, Rahul) On incomplete block designs for symmetric parallel line assays. **91m:62136**
- Gupta, Vinod Kumar (with Singh, Rajeshwar) A note on balanced block designs. (Hindi summary) (Not in MR)
- see also Srivastava, Rakesh; et al., (Not in MR)
- Hinkley, D. V. see Graham, Ronald L.; et al., **91d:62117**
- Huda, S. see Shafiq, M., **91g:62061**
- Ispiyomi, R. A. Partially equineighbored designs. **91b:62161**
- Irk, Albrecht * Sequentialanalyse: optimale sequentielle Tests. (German) [Sequential analysis: optimal sequential tests] **91h:62072**
- John, J. A. see Whitaker, D.; et al., **91k:62077**
- John, Peter W. M. see Graham, Ronald L.; et al., **91d:62117**
- Kageyama, Sanpei Two methods of construction of affine resolvable balanced designs with unequal block sizes. **91c:62200**
- see also Sinha, Kishore, **91b:62163**; Puri, Praja D., **91c:62072** and Ghosh, Dilip Kumar; et al., **91b:62071**
- Katulska, Krystyna see Ceranka, Bronisław, **91b:62070**
- Khosrovshahi, G. B. On trades and designs. (Not in MR)
- Kim, Woo Chul see Kubokawa, Tatsuya, **91m:62137**
- Koukourinos, Christos (with Kounias, Stratis; Sotirakoglou, Kiki) On base and Turyn sequences. **91a:62204**
- Kounias, Stratis see Koukourinos, Christos; et al., **91a:62204**
- Krafft, Olaf On the existence of multifactor designs with given marginals. (see **91j:60004**)
- Kubokawa, Tatsuya The recovery of interblock information in balanced incomplete block designs. **91b:62162**
- (with Kim, Woo Chul) Note on truncated estimators in recovery of interblock information. **91m:62137**
- Liu, Zhang Wen (with Zheng, Hong-jie) Construction of triangular and L_4 type PBIB designs by using BIB designs. **91a:62205**
- (with Xiao, Hong-jian) Construction of group divisible designs by using Hadamard matrices. **91g:62060**
- Mathew, Thomas¹ see Bhaumik, Dulal Kumar, **91a:62197**
- Mead, Roger The nonorthogonal design of experiments. (Not in MR)
- Misra, B. L. On construction of group divisible PBIB designs. **91c:62102**
- Morgan, John P. see Uddin, Nizam, **91g:62062**
- Mukerjee, Rahul see Gupta, Sudhir, **91m:62136**
- Nutan see Bhagwandas; et al., **91b:62076**
- Panda, Rajendranath see Adhikary, Basudeb, **91a:62195**
- Prasada Rao, M. V. R. (with Das, Ashish) A general method of obtaining eigenvalues of C -matrix of block designs. (Italian summary) **91a:62206**
- Pratap, Mahendra see Singh, Yashbir, (Not in MR)
- Puri, Praja D. (with Kageyama, Sanpei) Some structural properties of partially efficiency balanced block designs. **91c:62072**
- see also Baksalary, Jerzy K., **91b:62158** and Gupta, Lalpat R., (Not in MR)
- Sastry, D. V. S. Some bounds on the number of blocks in BIB designs. (Hindi summary) **91b:62073**
- Shafiq, M. (with Huda, S.) On application of association matrices in the analysis of fourth-order rotatable designs. **91g:62061**
- Shi, Sheng G. see Graham, Ronald L.; et al., **91d:62117**
- Shil, Rabindra Nath (with Barua, T. K.) Estimation of three missing observations in Latin square design for all possible cases. (Bengali summary) (Not in MR)
- Singh, Rajeshwar see Gupta, Vinod Kumar, (Not in MR)
- Singh, Yashbir (with Pratap, Mahendra) Partially balanced incomplete block designs with three replicates. (Hindi summary) (Not in MR)
- Sinha, Kishore A note on equireplicate balanced block designs from BIB designs. (Hindi summary) **91d:62118**
- A method of construction of PBIB designs. (Hindi summary) **91d:62119**
- (with Kageyama, Sanpei) A series of triangular PBIB designs with nested rows and columns. **91b:62163**
- see also Calvin, James A., **91b:62159**
- Sotirakoglou, Kiki see Koukourinos, Christos; et al., **91a:62204**
- Srivastava, Rakesh (with Gupta, Vinod Kumar; Dey, Aloke) Robustness of some designs against missing observations. (Not in MR)
- Stewart, Frances P. (with Bradley, Ralph A.) Some adjusted orthogonal, variance balanced, multidimensional block designs. **91j:62106**
- Subramani, J. A note on constructing balanced incomplete block designs. (Hindi summary) **91d:62120**
- A note on μ -resolvable BIB designs. (Hindi summary) (Not in MR)
- Tjur, Tue A new upper bound for the efficiency factor of a block design. **91m:62138**
- Triggs, C. M. see Whitaker, D.; et al., **91k:62077**
- Uddin, Nizam (with Morgan, John P.) Some constructions for balanced incomplete block designs with nested rows and columns. **91g:62062**
- Vinita see Bhagwandas; et al., **91b:62076**
- Whitaker, D. (with Triggs, C. M.; John, J. A.) Construction of block designs using mathematical programming. **91k:62077**
- Wu, Po Jen see Yao, Ching Hsing, **91a:62207**

- Xiao, Hong-jian *see* Liu, Zhang Wen, 91g:62060
- Yao, Ching Hsing (with Wu, Po Jen) Partially balanced incomplete block designs with two classes for comparing treatments with a control. 91a:62207
- Zheng, Hong-jie *see* Liu, Zhang Wen, 91a:62205
- Items with secondary classifications in 62K10
- Bagchi, Sumanda (with Shah, K. R.) On the optimality of a class of row-column designs. 91d:62113
- Bagiatis, C. E -optimal 2^k saturated designs. 91h:62066
- Bailey, R. A. (with Rowley, C. A.) General balance and treatment permutations. 91d:05014
- Cheng, Ching-Shui Optimal properties of balanced incomplete block and other designs. 91d:62114
- Constantine, Gregory M. Graph complexity and the Laplacian matrix in blocked experiments. 91h:05120
- Das, Ashish *see* Kageyama, Sanpei, (Not in MR)
- Dey, Aloke *see* Nguyen, Nam-Ky, (Not in MR)
- Diwanji, S. M. *see* Vartak, M. N., 91a:05097
- Gujarathi, C. C. *see* Shah, Shantilal M., 91h:05034
- Harville, David A. *see* Zimmerman, Dale L., 91a:62177
- Hedayat, A. S. (with Lin, Bing Ying; Stufken, J.) The construction of IIPS sampling designs through a method of emptying boxes. 91a:62025
- (with Zhao, Wenxun) Optimal two-period repeated measurements designs. 91m:62134
- Hultquist, Robert A. *see* Suchower, Lisa J., 91g:05138
- Jacroux, Mike Some MV-optimal block designs for comparing test treatments with a standard treatment. 91a:62189
- (with Majumdar, Dibyen) Optimal block designs for comparing test treatments with a control when $k > v$. 91a:62190
- Some sufficient conditions for type I optimality with applications to regular graph designs. 91c:62066
- On the E -optimality of block designs under the assumption of random block effects. 91h:62067
- Some E -optimal row-column designs having unequally replicated treatments. 91k:62075
- *see also* Lee, K. Y., 91c:62068
- Kageyama, Sanpei Two open problems on balanced block designs. 91m:05021
- Complete characterization of optimum weighing designs for estimating the total weight. 91c:62067
- (with Das, Ashish) A characterization of generalized binary proper efficiency-balanced designs. (Not in MR)
- Kobilinsky, André Complex linear models and cyclic designs. 91d:62116
- Kuwada, Masahide Analysis of variance of balanced fractional 2^m factorial designs of resolution $2l + 1$. 91d:62123
- Lee, K. Y. (with Jacroux, Mike) On the E -optimality of block designs having unequal block sizes. 91c:62068
- Liu, Bing Ying *see* Hedayat, A. S.; et al., 91a:62025
- Majumdar, Dibyen *see* Jacroux, Mike, 91a:62190
- Mandal, Nripes Kumar On robust designs. 91b:62134
- Morgan, John P. (with Uddin, Nizam) Some constructions for rectangular, Latin square and pseudocyclic nested row-column designs. 91m:05024
- Mukhopadhyay, Anis C. *see* Sinha, Bikas Kumar; et al., 91j:62101
- Nguyen, Nam-Ky (with Dey, Aloke) Computer-aided construction of small (M, S) -optimal incomplete block designs. (Not in MR)
- Preece, D. A. Fifty years of Youden squares: a review. 91h:01032
- Pukelsheim, Friedrich Ordering experimental designs. (see 91j:60004)
- Rowley, C. A. *see* Bailey, R. A., 91d:05014
- Rumov, B. T. Existence of some cyclic BIB-schemes. (Russian) 91c:05033
- Saha Ray, Rita *see* Sinha, Bikas Kumar; et al., 91j:62101
- Sarvate, D. G. On PBIBD constructions using t -designs. 91d:05019
- Seidel, Johan Jacob Designs and approximation. 91c:05038
- Shah, K. R. *see* Bagchi, Sumanda, 91d:62113
- Shah, Shantilal M. (with Gujarathi, C. C.) Balanced n -ary designs. 91h:05034
- Singh, Bahadur (with Wright, F. T.) Testing for and against an order restriction in mixed-effects models. 91e:62194
- Sinha, Bikas Kumar (with Saha Ray, Rita; Mukhopadhyay, Anis C.) Nonadditive linear models: estimability and efficient estimations of interaction. 91j:62101
- Stufken, J. *see* Hedayat, A. S.; et al., 91a:62025
- Suchower, Lisa J. (with Hultquist, Robert A.) A new property of the association matrices for EGD and hypercubic association schemes. 91g:05138
- Uddin, Nizam *see* Morgan, John P., 91m:05024
- Vartak, M. N. (with Diwanji, S. M.) Uniqueness of some 4-associate schemes. 91a:05097
- Wright, F. T. *see* Singh, Bahadur, 91e:62194
- Zhao, Wenxun *see* Hedayat, A. S., 91m:62134
- Zimmerman, Dale L. (with Harville, David A.) On the unbiasedness of the Papadakis estimator and other nonlinear estimators of treatment contrasts in field-plot experiments. 91a:62177
- 62K15 Factorial designs**
- Adhikary, Basudeb (with Das, Premadhis) On two products of fractional factorial designs. 91k:62078
- Aggarwal, M. L. *see* Shamsuddin, M. D., (Not in MR)
- Arora, Sanjay *see* Srivastava, Jagdish N., 91h:62075
- Baksalary, Jerzy K. (with Dobek, Anita; Gnot, Stanislaw) Characterizations of two-way layouts from the point of view of variance component estimation in the corresponding mixed linear models. 91j:62107
- Bhargava, R. P. Univariate and multivariate analyses of variance for incomplete factorial experiments having monotone structure in treatments. 91a:62208
- Chatterjee, Kishinath Search designs for general asymmetric factorials. 91d:62121
- Das, Premadhis *see* Adhikary, Basudeb, 91k:62078
- Denn, Angela M. *see* Park, Dong-kwon, 91f:62131
- Dobek, Anita *see* Baksalary, Jerzy K.; et al., 91j:62107
- Draper, Norman R. (with Lin, Dennis K. J.) Capacity considerations for two-level fractional factorial designs. 91c:62073a
- (with Lin, Dennis K. J.) Correction: "Capacity considerations for two-level fractional factorial designs". 91c:62073b
- (with Pukelsheim, Friedrich) Another look at rotatability. 91f:62129
- (with Lin, Dennis K. J.) Connections between two-level designs of resolutions III* and V. 91j:62108
- Ghosh, Subir *see* Namini, Hamid, (Not in MR)
- Gnot, Stanislaw *see* Baksalary, Jerzy K.; et al., 91j:62107
- Gnirguis, G. (with Tobias, R. D.) Generalization and efficient computation of the Box-Meyer analysis for orthogonal designs. 91m:62139
- Gupta, Sudhir (with Mukerjee, Rahul) ★ A calculus for factorial arrangements. 91h:62074
- Hedayat, A. S. (with Pesotan, H.) Strongly threefold orthogonal matrices with statistical applications. 91m:62140
- Huda, S. The m -grouped cylindrically rotatable designs of types $(1, 0, m - 1)$, $(0, 1, m - 1)$, $(1, 1, m - 2)$ and $(0, 0, m)$. 91h:62164
- Hyodo, Yoshifumi (with Yamamoto, Sumiyasu) Algebraic structure of information matrices of fractional factorial designs derived from simple two-symbol balanced arrays and its applications. 91a:62209
- Partial A -optimal balanced fractional 2^m factorial designs with $6 \leq m \leq 8$. 91d:62122
- Structure of fractional factorial designs derived from two-symbol balanced arrays and their resolution. 91f:62130
- Jacroux, Mike (with Saha Ray, Rita) On the construction of trend free row-column 2-level factorial experiments. 91k:62079
- John, Peter W. M. Time trends and factorial experiments. 91j:62109
- Katyal, Vijay *see* Pal, Satyabrata, 91d:62124
- Kuwada, Masahide Analysis of variance of balanced fractional 2^m factorial designs of resolution $2l + 1$. 91d:62123
- *see also* Matsuura, Masaaki, 91h:62165
- Lenth, Russell V. Quick and easy analysis of unreplicated factorials. 91a:62210
- Lin, Dennis K. J. *see* Draper, Norman R., 91c:62073a; 91c:62073b and 91j:62108
- Liu, Mu Hsiung (with Yao, Ching Hsing) Some orthogonal main-effect plans for asymmetrical factorials derivable from orthogonal arrays. 91a:62211
- Matsuura, Masaaki (with Kuwada, Masahide) Partially balanced fractional 2^{m+1} factorial designs of resolution VI. 91h:62165
- Morgan, John P. Some series constructions for two-dimensional neighbor designs. 91d:62166
- Mukerjee, Rahul *see* Gupta, Sudhir, 91h:62074
- Namini, Hamid (with Ghosh, Subir) On robustness of $2^m \times 3^n$ fractional factorial resolution III designs against the unavailability of data. (Not in MR)
- Pal, Satyabrata (with Katyal, Vijay) On multiway elimination of heterogeneity designs. 91d:62124
- Park, Dong-kwon (with Dean, Angela M.) Average efficiency factors and adjusted orthogonality in multidimensional designs. 91f:62131
- Pesotan, H. *see* Hedayat, A. S., 91m:62140
- Pukelsheim, Friedrich *see* Draper, Norman R., 91f:62129
- Rathnam, Damaraju V. Analysis of a design under the competing effects model with missing values. 91a:62212
- Saha Ray, Rita *see* Jacroux, Mike, 91k:62079
- Shamsuddin, M. D. (with Aggarwal, M. L.) Construction of row-column confounded S^{n-1} fractional factorial designs. (Italian summary) (Not in MR)
- Srivastava, Jagdish N. (with Arora, Sanjay) The minimal resolution $3 - k$ ($k = 1, 2$) plans for the 2^k factorial experiment. 91h:62075
- Tobias, R. D. *see* Gnirguis, G., 91m:62139
- Um, Jung Kook Search design of resolution III.3 for 3^4 factorial. (Not in MR)
- Wu, C.-F. J. Construction of 2^{m-4} designs via a grouping scheme. 91d:62125
- Yamamoto, Sumiyasu *see* Hyodo, Yoshifumi, 91a:62209
- Yao, Ching Hsing *see* Liu, Mu Hsiung, 91a:62211
- Zec, Milorad Complex design of experiments. (Serbo-Croatian summary) (see 91m:00027)
- Items with secondary classifications in 62K15
- Atkinson, A. C. (with Donev, A. N.) The construction of exact D -optimum experimental designs with application to blocking response surface designs. 91h:62151
- Bagiatis, C. E -optimal 2^k saturated designs. 91h:62066
- Caridad, José M. *see* Prieto, José M., 91a:62183
- Chadjiconstantinidis, Stathis (with Cheng, Ching-Shui; Moysiadias, Chronis) Construction of optimal fractional factorial resolution V designs with $N \equiv 2 \pmod{16}$. 91a:62187
- Chang, Cheng-Tao On the construction of hypercubic design. 91a:62198
- Cheng, Ching-Shui *see* Chadjiconstantinidis, Stathis; et al., 91a:62187
- Constantine, Gregory M. Robust designs for serially correlated observations. 91a:62188
- Donev, A. N. *see* Atkinson, A. C., 91h:62151
- Fuji-Hara, Ryoh (with Jimbo, Masakazu; Yuan, F.) A recursive construction of balanced arrays. 91d:05030
- Jimbo, Masakazu *see* Fuji-Hara, Ryoh; et al., 91d:05030
- Kageyama, Sanpei Two open problems on balanced block designs. 91m:05021
- Katulska, Krystyna On the estimation of total weight in singular spring balance weighing designs under the covariance matrix of errors $\sigma^2 G$. 91a:62067
- Klonecki, Witold (with Zontek, Stefan) Variance components admissible estimation from some unbalanced data: formulae for the nested design. 91h:62012
- Kobilinsky, André Complex linear models and cyclic designs. 91d:62116
- Kolyva-Machera, F. Fractional factorial designs and G -optimality. 91h:62153
- Mexia, João Tiago ★ Estimable functions, duality of F tests and the Scheffé multiple comparison method. 91h:62150
- Moysiadias, Chronis *see* Chadjiconstantinidis, Stathis; et al., 91a:62187
- Prieto, José M. (with Caridad, José M.) A simplified treatment of the restricted analysis of a slightly disproportionate factorial experiment. 91a:62183
- Sathe, Y. S. (with Shenoy, R. G.) A -optimal weighing designs when $N \equiv 3 \pmod{4}$. 91b:62154
- Shenoy, R. G. *see* Sathe, Y. S., 91b:62154

- Yang, Yi Min¹ Universal optimality and broad optimality of some nonorthogonal augmented factorial designs. (Chinese. English summary) **91b:62101**
 Yuan, F. see Fuji-Hara, Ryoh; et al. **91d:05030**
 Zontek, Stefan see Klonecki, Witold, **91b:62012**

62K99 None of the above, but in this section

- Azaïs, J.-M. see Bardin, A., **91j:62110**
 Bardin, A. (with Azaïs, J.-M.) Une hypothèse minimale pour une théorie des plans d'expériences randomisés. (English summary) [A minimal hypothesis for a theory of randomized design of experiments] **91j:62110**
 Campbell, Eleanor D. see Carter, Walter H., Jr.; et al. (Not in MR)
 Carter, Walter H., Jr. (with Chinchilli, Vernon M.; Campbell, Eleanor D.) A large-sample confidence region useful in characterizing the stationary point of a quadratic response surface. (Not in MR)
 Chinchilli, Vernon M. see Carter, Walter H., Jr.; et al. (Not in MR)
 Czitrom, Veronica An application of Taguchi's methods reconsidered. (Not in MR)
 Draper, Norman R. (with Lin, Dennis K. J.) Small response-surface designs. (Not in MR)
 Hinkelmann, Klaus see Singh, Murari, (Not in MR)
 Hsiao, S. Variance functions for second-order 3-grouped cylindrically rotatable designs of type 3. (Not in MR)
 Khuri, André I. Multiresponse rotatability. **91f:62132**
 Kozłowska, Maria Some properties of the row and column designs with adjusted orthogonality. **91m:62141**
 Lin, Dennis K. J. see Draper, Norman R., (Not in MR)
 Mitchell, Toby J. see Sacks, Jerome; et al. **91a:62213**
 Sacks, Jerome (with Welch, William J.; Mitchell, Toby J.; Wynn, Henry P.) Design and analysis of computer experiments. **91a:62213**
 Singh, Murari (with Hinkelmann, Klaus) On generation of efficient partial diallel crosses plans. (Not in MR)
 Vila, J.-P. Application of the theory of optimization under constraints to D-optimal designs characterization and computation in nonlinear regressions. (French summary) (Not in MR)
 Wang, Jing Long Orthogonalization and generality of third-order rotatable designs. (Chinese. English summary) (Not in MR)
 Welch, William J. see Sacks, Jerome; et al. **91a:62213**
 Wynn, Henry P. see Sacks, Jerome; et al. **91a:62213**

Items with secondary classifications in 62K99

- All, Mohamed Akkas A Bayesian approach to detect informative observations in an experiment. **91m:62003**
 Bailey, R. A. Automorphism groups of block structures with and without treatments. **91g:05011**
 Chopra, D. V. (with Dios, R.) On the existence of some balanced arrays. **91c:05049**
 Dios, R. see Chopra, D. V., **91c:05049**
 Kozłowska, Maria (with Walkowiak, Ryszard) Incomplete homogeneous multiresponse models: testing of hypotheses. (Not in MR)
 Laywine, Charles F. (with Mullen, Gary L.) Mutually orthogonal frequency squares with nonconstant frequency vectors. **91a:05018**
 Mullen, Gary L. see Laywine, Charles F., **91a:05018**
 Srivastava, Jagdish N. Some aspects of response surface theory, and the philosophy of statistical experimental design. **91e:62166**
 Walkowiak, Ryszard see Kozłowska, Maria, (Not in MR)
 Wilcox, Rand R. Comparisons with a control in two-way and one-way designs, and determining whether the most effective treatment has been selected with probability $1 - \alpha$. (Not in MR)

62Lxx Sequential methods

62L05 Sequential design

- Bandyopadhyay, Uttam On the sequential detection problem. **91e:62201**
 Chang, Myron N. see Therneau, Terry M.; et al., **91j:62111**
 (Duscha, G.) see Schmitz, N., **91a:62215**
 (Harenbrock, M.) see Schmitz, N., **91a:62215**
 Hu, Inchi (with Wei, C. Z.) Irreversible adaptive allocation rules. **91b:62167**
 (Läbber, J.) see Schmitz, N., **91a:62215**
 Pöhlner, S. Die Verbesserung von Strategien beim mehrarmigen Banditen. [Improvement of strategies for a multi-armed bandit] (see **91f:60002**)
 Reikab, Kamel Asymptotic optimality of experimental designs in estimating a product of means. **91d:62126**
 Salvan, Alessandra Planning sequential clinical trials: a review. **91a:62214**
 Schmitz, N. ★ Optimale sequentiell geplante Entscheidungsverfahren. Teil I. (German) [Optimal sequentially planned decision methods. Part I] **91a:62215**
 Therneau, Terry M. (with Wieand, H. S.; Chang, Myron N.) Optimal designs for a grouped sequential binomial trial. (French summary) **91j:62111**
 Tsiotrich, I. I. Sequential design of experiments and testing complex hypotheses. (Russian) (see **91e:60003**)
 Wei, C. Z. see Hu, Inchi, **91b:62167**
 Wieand, H. S. see Therneau, Terry M.; et al., **91j:62111**

Items with secondary classifications in 62L05

- Alvo, M. (with Cabilio, P.) Sampling designs for the estimation of the difference between two means of a bivariate normal. **91b:62066**
 Bapat, R. B. Permanents in probability and statistics. **91d:60031**
 Cabilio, P. see Alvo, M., **91b:62066**
 Dalang, Robert C. Randomization in the two-armed bandit problem. **91g:60053**
 Donchev, D. S. On the two-arm bandit problem with continuous time in the presence of gradual and impulse controls. **91f:90089**

- Glazebrook, K. D. (with Owen, R. W.) New results for generalized bandit problems. **91k:90215**
 Hardwick, Janis see Woodroffe, Michael, **91b:62077**
 Magiera, Ryszard (with Stefanov, Valeri T.) Sequential estimation in exponential-type processes under random initial conditions. **91a:62222**
 McLeish, D. L. (with Tosh, D.) Sequential designs in bioassay. (French summary) (Not in MR)
 Owen, R. W. see Glazebrook, K. D., **91k:90215**
 Ray Chaudhuri, Atasi Some invariant sequential and nonsequential rules for identifying a multivariate normal population. **91k:62060**
 Stefanov, Valeri T. see Magiera, Ryszard, **91a:62222**
 Tosh, D. see McLeish, D. L., (Not in MR)
 Woodroffe, Michael On the nonlinear renewal theorem. **91b:60221**
 — (with Hardwick, Janis) Sequential allocation for an estimation problem with ethical costs. **91b:62077**

62L10 Sequential analysis

- Al-Nasser, Sumala A. see Gharraf, Mohamed K., (Not in MR)
 Begg, Colin B. On inferences from Wei's biased coin design for clinical trials. **91k:62080**
 Brunier, Hazel see Whitehead, John Raymond, **91b:62103**
 Christensen, Ronald Sequential sampling without recall from a Dirichlet process. (French summary) (Not in MR)
 Dragalin, V. P. Asymptotic solution of a signal search problem in a multichannel system. (Russian) **91e:62202**
 Gerstenkorn, Tadeusz The sequential ratio test for a logistic distribution in case of two populations. **91m:62142**
 Gharraf, Mohamed K. (with Al-Nasser, Sumala A.) A Bayesian group sequential analysis procedure. (Not in MR)
 Ghosh, Malay (with Hoekstra, Robert M.) A.P.O. rules in hierarchical and empirical Bayes models. **91a:62216**
 Gijbels, Irène (with Veraverbeke, Noël) Sequential fixed-width confidence intervals for quantiles in the presence of censoring. **91b:62168**
 Hoekstra, Robert M. see Ghosh, Malay, **91a:62216**
 Irie, Albrecht Asymptotic optimality of general sequential probability ratio tests. **91m:62143**
 Jennison, Christopher (with Turnbull, Bruce W.) Interim analyses: the repeated confidence interval approach. **91c:62074**
 Johnson, Norman Lloyd² (with Kotz, Samuel; Wang, Qiwen) Randomized-sequential group testing procedures. **91j:62112**
 Judge, J. see Mukhopadhyay, Nitis, **91j:62113**
 Kotz, Samuel see Johnson, Norman Lloyd²; et al., **91j:62112**
 Lerche, H. R. Optimal sequential tests for relative entropy cost functions. (see **91j:60004**)
 Lotov, V. I. (with Novikov, A. A.) Asymptotic expansions in some problems of sequential testing. (see **91j:60004**)
 Mukhopadhyay, Nitis (with Judge, J.) A note on a permutation-invariant sequential selection procedure. **91j:62113**
 Müller-Funk, Ulrich Mathematical programming in sequential testing theory. (see **91j:60004**)
 Novikov, A. A. see Lotov, V. I., **(91j:60004)**
 Pavlov, I. V. A sequential procedure for testing composite hypotheses with application to the Kiefer-Weiss problem. **91m:62144**
 Pollard, Graham A method for determining the asymptotic efficiency of some sequential probability ratio tests. (Not in MR)
 Schaid, Daniel J. (with Wieand, Sam; Therneau, Terry M.) Optimal two-stage screening designs for survival comparisons. (Not in MR)
 Stadje, Wolfgang An upper bound for the accuracy of the Wiener process approximation of the error probabilities of the SPRT. **91b:62076**
 — A continuous-time sequential testing problem. **91j:62114**
 Takahashi, Hajime Asymptotic expansions for $E_\theta(t)$ and $E_\theta(\bar{x}_t)$ which appear in the repeated significance tests for the normal means. **91m:62145**
 Therneau, Terry M. see Schaid, Daniel J.; et al., (Not in MR)
 Turnbull, Bruce W. see Jennison, Christopher, **91c:62074**
 Veraverbeke, Noël see Gijbels, Irène, **91b:62168**
 Wang, Qiwen see Johnson, Norman Lloyd²; et al., **91j:62112**
 Whitehead, John Raymond (with Brunier, Hazel) The double triangular test: a sequential test for the two-sided alternative with early stopping under the null hypothesis. **91b:62103**
 Wieand, Sam see Schaid, Daniel J.; et al., (Not in MR)
 Yu, Kai Fan On a problem of counting by weighing. (French summary) **91e:62203**
 Zadorin, A. I. Numerical solution of a quasilinear equation with a small parameter. (Russian) **91a:62217**

Items with secondary classifications in 62L10

- Alsmeyer, Gerold On first and last exit times for curved differentiable boundaries. **91g:60059**
 Darkhovskii, B. S. Nonparametric methods in problems on the change point of a random sequence. (Russian) **91m:62058**
 Ghosh, Malay (with Mukhopadhyay, Nitis) Sequential estimation of the percentiles of exponential and normal distributions. **91f:62133**
 Jennison, Christopher (with Turnbull, Bruce W.) Statistical approaches to interim monitoring of medical trials: a review and commentary. **91i:62140**
 Köpper, Franz ★ Sequentialtests für die Stichprobeninventur. (German) [Sequential tests for sample inventory] **91b:90071**
 Mukhopadhyay, Nitis see Ghosh, Malay, **91f:62133**
 Rahbar, Mohammad Hossein Sequential estimation of functionals of the survival curve under random censorship. **91m:62150**
 Šidák, Zbyněk A sequential procedure for selecting the better of two trinomial populations. **91e:62053**
 Turnbull, Bruce W. see Jennison, Christopher, **91i:62140**

62L12 Sequential estimation

- Aerts, Marc (with Geertsema, Jan C.) Bounded length confidence intervals in nonparametric regression. 91m:62146
- Akaike, Masafumi (with Takeuchi, Kei) Third order asymptotic efficiency of the sequential maximum likelihood estimation procedure. 91g:62063
- Al-Mahmeed, M. (with Hamdy, H. I.) Sequential estimation of linear models in three stages. 91i:62104
- Aras, Girish Sequential estimation of the mean of a first-order autoregressive process. 91k:62081
- Basawa, I. V. (with McCormick, William P.; Sriram, T. N.) Sequential estimation for dependent observations with an application to nonstandard autoregressive processes. 91j:62115
- Borisov, V. Z. (with Konev, V. V.) On the optimality of sequential plans for estimating the parameters of recurrent processes. 91k:62082
- Chang, I Shou (with Hsiung, Chao Agnes) Time-sequential point estimation through estimating equations. 91j:62116
- Chaturvedi, Ajit Sequential point estimation of the mean of a log-normal population. (Not in MR)
- On a modified sequential procedure to construct confidence regions for regression parameters. (Hindi summary) (Not in MR)
- see also Singh, R. Karan, 91c:62205 and (Not in MR)
- Choudhury, Japobrata Sequential confidence intervals based on generalized Hodges-Lehmann location estimators and related statistics. 91j:62117
- Dikta, Gerhard (with Kurtz, Birgit; Stute, Winfried) Sequential fixed-width confidence bands for distribution functions under random censoring. 91a:62218
- Ermakov, M. S. Asymptotically efficient sequential estimation for the location parameter of a nonsmooth density. 91b:62169
- Geertsema, Jan C. see Govindarajulu, Z., 91a:62219 and Aerts, Marc, 91m:62146
- Ghosh, Malay (with Mukhopadhyay, Nitis) Sequential estimation of the percentiles of exponential and normal distributions. 91f:62133
- Govindarajulu, Z. (with Geertsema, Jan C.) Fixed-width estimation of the common mean of a set of normal populations with unknown and unequal variances. 91a:62219
- Hamdy, H. I. see Al-Mahmeed, M., 91i:62104
- Hardwick, Janis see Woodroffe, Michael, 91h:62077
- Hosni, A. K. Efficiency of a sequential density estimator under autoregressive dependence model. (Not in MR)
- Hsiung, Chao Agnes see Chang, I Shou, 91j:62116
- Ibarrola, Pilar (with Vélez Ibarrola, Ricardo) On sequential estimation of the mean of a multidimensional Gaussian process. 91m:62147
- see also Vélez Ibarrola, Ricardo, 91c:62207
- Klebanov, L. B. (with Melamed, I. A.) The maximum likelihood method in a scheme for estimating parameters from a sample of random size. (Russian) 91m:62148
- Konev, V. V. (with Pergamenschikov, S. M.) Truncated sequential estimation of the parameters in a random regression. 91f:62134
- see also Borisov, V. Z., 91k:62082
- Komeva, E. S. A sequential version of the Newton-Gauss procedure for estimating the parameter of a nonlinear stochastic system. 91c:62204
- Kremers, Walter K. Completeness and unbiased estimation in sequential multinomial sampling. 91f:62135
- Kubokawa, Tatsuya Sequential point estimation with bounded risk in a multivariate regression model. 91m:62149
- Kuo, Lynn (with Mukhopadhyay, Nitis) Multi-stage point and interval estimation of the largest mean of k normal populations and the associated second-order properties. 91j:62118
- see also Mukhopadhyay, Nitis, 91a:62220
- Kurtz, Birgit see Dikta, Gerhard; et al., 91a:62218
- Leite, J. G. see Zacks, S.; et al., 91k:62085
- Lieberman, S. see Mukhopadhyay, Nitis, 91a:62221
- Magiera, Ryszard Minimax sequential estimation plans for exponential-type processes. 91d:62117
- Martinez, Adam T. Sequential estimation in regression models using analogues of trimmed means. 91d:62128
- McCormick, William P. see Basawa, I. V.; et al., 91j:62115
- Melamed, I. A. see Klebanov, L. B., 91m:62148
- Mukhopadhyay, Nitis (with Kuo, Lynn) Fixed-width interval estimation of the largest location of k negative exponential populations. 91a:62220
- (with Lieberman, S.) Sequential estimation of a linear function of mean vectors. 91a:62221
- see also Vik, G., 91b:62170; Ghosh, Malay, 91f:62133 and Kuo, Lynn, 91j:62118
- Natarajan, Jayalakshmi (with Strawderman, William E.) Two-stage estimation of several Poisson parameters. 91k:62083
- Norman, Teresa U -estimability under sequential binomial sampling. (Not in MR)
- Pereira, Carlos Alberto de Bragança see Zacks, S.; et al., 91k:62085
- Pergamenschikov, S. M. see Konev, V. V., 91f:62134
- Rahbar, Mohammad Hossein Sequential estimation of functionals of the survival curve under random censorship. 91m:62150
- Sen, Pranab Kumar Asymptotic theory of sequential shrunken estimation of statistical functionals. 91f:62136
- Singh, R. Karan (with Chaturvedi, Ajit) Fixed-size confidence region estimation of the mean vector. (Hindi summary) (Not in MR)
- (with Chaturvedi, Ajit) Sequential procedures for estimating the mean of an inverse Gaussian distribution. (Hindi summary) 91c:62205
- Sriram, T. N. see Basawa, I. V.; et al., 91j:62115
- Stadje, Wolfgang A sequential estimation procedure for the parameter of an exponential distribution. 91m:62151
- Strawderman, William E. see Natarajan, Jayalakshmi, 91k:62083
- Stute, Winfried see Dikta, Gerhard; et al., 91a:62218
- Tahir, Mohamed Asymptotic expansions for sequential confidence levels in inverse linear regression. 91c:62206
- Second order asymptotic optimality in sequential point estimation. 91b:62105
- Takada, Yoshikazu Sequential point estimation rule with bounded risk for the mean of a multivariate normal distribution. 91k:62084
- Takeuchi, Kei see Akaike, Masafumi, 91g:62063
- Vélez Ibarrola, Ricardo (with Ibarrola, Pilar) Optimal invariant estimation of a scale parameter of a continuous time stochastic process. 91c:62207
- see also Ibarrola, Pilar, 91m:62147
- Vik, G. (with Mukhopadhyay, Nitis) Triple sampling to construct fixed-width confidence intervals for estimable parameters based on U -statistics. (Italian summary) 91b:62170
- Woodroffe, Michael (with Hardwick, Janis) Sequential allocation for an estimation problem with ethical costs. 91h:62077
- Zacks, S. (with Pereira, Carlos Alberto de Bragança; Leite, J. G.) Bayes sequential estimation of the size of a finite population. 91k:62085

Items with secondary classifications in 62L12

- Arnold, Barry C. (with Groeneveld, R. A.) Sequential sampling estimation for finite populations of $N = nr$ objects. 91d:62009
- Groeneveld, R. A. see Arnold, Barry C., 91d:62009
- Jennison, Christopher (with Turnbull, Bruce W.) Interim analyses: the repeated confidence interval approach. 91c:62074
- Karunamuni, Rohana On empirical Bayes sequential estimation. 91d:62005
- Konev, V. V. see Vorobeichikov, S. E., 91c:62123 and Vasil'ev, V. A., 91c:93086
- Morales González, Domingo see Quesada Paloma, Vicente; et al., 91c:62259
- Pardo, Leandro see Quesada Paloma, Vicente; et al., 91c:62259
- Qin, Hong Sequential nearest neighbour density estimation. (Chinese. English summary) 91b:62085
- Quesada Paloma, Vicente (with Pardo, Leandro; Morales González, Domingo) Sequential estimation of survival functions with neutral-to-the-right priors. (Spanish. English summary) 91c:62259
- Róznanski, Roman Markov stopping sets and stochastic integrals. Application in sequential estimation for a random diffusion field. 91a:62229
- Sanchez, Susan M. Unbiased estimation following selection for Bernoulli populations. 91f:62046
- Stefanov, Valeri T. A sequential approach for reducing curved exponential families of stochastic processes to noncurved exponential ones. 91b:62174
- Turnbull, Bruce W. see Jennison, Christopher, 91c:62074
- Vasil'ev, V. A. (with Konev, V. V.) On sequential parameter estimation of continuous dynamic systems by discrete time observations. (Russian summary) 91c:93086
- Vorobeichikov, S. E. (with Konev, V. V.) On the detection of change points in dynamical systems. 91c:62123

62L15 Optimal stopping [see also 60G40, 90D60]

- Karni, Edi (with Safra, Zvi) Behaviorally consistent optimal stopping rules. 91i:62106
- Karunamuni, Rohana On empirical Bayes stopping times. 91c:62208
- Kim, Kyungmann (with Tsiatis, Anastasios A.) Study duration for clinical trials with survival response and early stopping rule. (French summary) (Not in MR)
- Kramer, Morrey (with Starr, Norman) Optimal stopping in a size dependent search. 91m:62152
- Magiera, Ryszard (with Stefanov, Valeri T.) Sequential estimation in exponential-type processes under random initial conditions. 91a:62222
- Mangoskivil, V. G. Sequential discrimination between two simple hypotheses with limited memory. (Russian. English and Georgian summaries) 91a:62223
- Safra, Zvi see Karni, Edi, 91i:62106
- Salov, G. I. An equation for the a posteriori probability of the existence of "disorder" in a sequence of dependent random variables, and the detection of the time of the appearance of "disorder" that is optimal in the sense of Shiryaev. 91d:62129
- Starr, Norman see Kramer, Morrey, 91m:62152
- Stefanov, Valeri T. see Magiera, Ryszard, 91a:62222
- Tsiatis, Anastasios A. see Kim, Kyungmann, (Not in MR)

Items with secondary classifications in 62L15

- Alsmeyer, Gerold (with Irlé, Albrecht) Optimal strategies for discovering new species in continuous time. 91c:60050
- Ano, Katsunori Bilateral secretary problem recognizing the maximum or the second maximum of a sequence. 91b:90235
- Ben-Israel, Adi (with Fläm, Sjur D.) A bisection/successive approximation method for computing Gittins indices. (German summary) 91i:90078
- Borisov, V. Z. (with Konev, V. V.) On the optimality of sequential plans for estimating the parameters of recurrent processes. 91k:62082
- de Cambry, Olivier (with Genon-Catalot, Valentine) Détection de rupture à l'aide d'algorithmes stochastiques. (English summary) [Detection of a change in distribution by means of stochastic algorithms] 91b:62200
- Dalang, Robert C. Randomization in the two-armed bandit problem. 91g:60053
- Dorea, C. C. Y. Stopping rules for a random optimization method. 91b:90178
- Enns, E. G. (with Ferenstein, E. Z.) A competitive best-choice problem with Poisson arrivals. 91i:90082
- Ferenstein, E. Z. see Enns, E. G., 91i:90082
- Fläm, Sjur D. see Ben-Israel, Adi, 91i:90078
- Genon-Catalot, Valentine see de Cambry, Olivier, 91b:62200
- He, Sheng Wu (with Wang, Jia Gang) On the optimal parking problem. (Chinese summary) 91g:90062
- Hill, T. P. (with Kennedy, Douglas P.) Optimal stopping problems with generalized objective functions. 91j:60079
- Huang, Chi-fu (with Li, Lode) Continuous time stopping games with monotone reward structures. 91g:90222
- Huang, Wen T'ao (with Wang, Ch'ing Yün) On some optimal stopping and its applications to some statistical inferences. 91c:60051
- Ibarrola, Pilar (with Vélez Ibarrola, Ricardo) Invariance in decision processes with continuous observations. 91c:62083

- Irie, Albrecht *see* Alsmeyer, Gerold, 91c:60050
 Kennedy, Douglas P. (with Kertz, Robert P.) The asymptotic behavior of the reward sequence in the optimal stopping of i.i.d. random variables. 91m:60077
 — *see also* Hill, T. P., 91j:60079
 Kertz, Robert P. *see* Kennedy, Douglas P., 91m:60077
 Konev, V. V. *see* Borisov, V. Z., 91k:62082
 Li, Lode *see* Huang, Chi-fu, 91g:90222
 Maitra, A. (with Purves, R.; Sudderth, W.) Leavable gambling problems with unbounded utilities. 91g:60054
 Majumdar, A. A. K. Optimal stopping for some one-person sequential games: probability maximizing approach. 91i:60116
 — Optimal stopping based on success or failure run. 91a:60115
 Marcellus, Richard L. A Markov renewal approach to the Poisson disorder problem. 91d:60223
 Monticino, Michael G. Utility functions which ensure the adequacy of stationary strategies. 91h:60047
 Porosiński, Z. Optimal stopping of a random length sequence of maxima over a random barrier. 91g:60055
 Purves, R. *see* Maitra, A.; et al., 91g:60054
 Sakaguchi, Minoru Two-population secretary problems. 91i:60118
 Scherwentke, P. Best choice problem for discrete random variables. 91a:60116
 Stadje, Wolfgang A sequential estimation procedure for the parameter of an exponential distribution. 91m:62151
 Sudderth, W. *see* Maitra, A.; et al., 91g:60054
 Vélaz Ibarrola, Ricardo *see* Ibarrola, Pilar, 91c:62003
 Wang, Ch'ing Yün *see* Huang, Wên T'ao, 91c:60051
 Wang, Jia Gang *see* He, Sheng Wu, 91g:90062

62L20 Stochastic approximation

- Bather, J. A. Stochastic approximation: a generalisation of the Robbins-Monro procedure. 91c:62209
 Chen, Han Fu (with Gao, Ai Jun) Robustness analysis for stochastic approximation algorithms. 91a:62224
 Gao, Ai Jun *see* Chen, Han Fu, 91a:62224
 Han, Gwang Rong *see* Li, Cap Dok, (Not in MR)
 Hanson, David Lee (with Mukerjee, Hari) Isotonic estimation in stochastic approximation. 91c:62210
 Koronacki, Jacek ★ Aproxymacja stochastyczna. (Polish) [Stochastic approximation] 91h:62171
 Krasulina, T. P. One-sided convergence of the Robbins-Monro process. 91c:62211
 Li, Cap Dok (with Han, Gwang Rong) Asymptotic distribution of the dynamic stochastic approximation process. (Korean. English summary) (Not in MR)
 Liberof, B. D. (with Rudenko, O. G.) A two-stage algorithm for estimating parameters of a nonstationary object. (Russian. English summary) (Not in MR)
 Monnez, Jean-Marie Convergence presque sûre de processus d'approximation stochastique dynamique. (English summary) [Almost sure convergence of dynamical stochastic approximation processes] 91g:62064
 Mukerjee, Hari *see* Hanson, David Lee, 91c:62210
 Rudenko, O. G. *see* Liberof, B. D., (Not in MR)
 Tsybakov, A. B. Locally-polynomial algorithms of passive stochastic approximation. (Russian summary) 91f:62137
 Yin, Gang George (with Zhu, Yun Min) On H -valued Robbins-Monro processes. 91i:62107
 Ying, Zhiliang Nonlinear stochastic approximation procedures for L_p loss functions. 91m:62153
 Zhu, Yun Min *see* Yin, Gang George, 91i:62107

Items with secondary classifications in 62L20

- Arapostathis, Aristotle (with Marcus, Steven I.) Analysis of an identification algorithm arising in the adaptive estimation of Markov chains. 91a:93061
 Dupuis, Paul (with Kushner, Harold J.) Stochastic approximation and large deviations: upper bounds and w.p.1 convergence. 91a:60077
 Fu, Michael C. Convergence of a stochastic approximation algorithm for the $GI/G/1$ queue using infinitesimal perturbation analysis. 91f:93105
 Galushko, M. A. The method of stochastic approximation for solving a Fredholm equation of the first kind with random data errors. (Russian) (see 91j:60001)
 Hon, Yu Hua (with Zhu, Yun Tang) M -estimators of parameters and their asymptotic properties in mixed regression models. (Chinese. English summary) 91f:62149
 Kushner, Harold J. *see* Dupuis, Paul, 91a:60077
 Lapeyre, Bernard (with Pagès, Gilles; Sab, Karam) Sequences with low discrepancy—generalisation and application to Robbins-Monro. 91h:11075
 Lugosi, E. *see* Yakowitz, S., 91h:68153
 Marcus, Steven I. *see* Arapostathis, Aristotle, 91a:93061
 Morita, Hiroshi *see* Uosaki, Katsuji, 91f:93101
 Pagès, Gilles *see* Lapeyre, Bernard; et al., 91h:11075
 Pemantle, Robin Nonconvergence to unstable points in urn models and stochastic approximations. 91e:60159
 Perevozchikov, A. G. *see* Zavriv, S. K., 91j:90057
 Pflug, Georg Ch. On-line optimization of simulated Markovian processes. 91j:90095
 Pilchinger, E. Grenzwertaussagen für semistochastische Approximationsverfahren bei Verwendung von einigen deterministischen Schritten. [Limit value statements for semistochastic approximation methods when using some deterministic step sizes] 91h:65227
 Polyak, B. T. A new method of stochastic approximation type. 91j:90056
 Popescu, Illeana (with Văduva, L.) An optimum plan of reliability control. (German summary) 91h:62209
 Sab, Karam *see* Lapeyre, Bernard; et al., 91h:11075
 Uosaki, Katsuji (with Morita, Hiroshi) Discrete variable stochastic approximation procedures and recursive autoregressive model identification. 91f:93101
 Văduva, L. *see* Popescu, Illeana, 91h:62209

- Yakowitz, S. (with Lugosi, E.) Random search in the presence of noise, with application to machine learning. 91h:68153
 Yin, Gang George (with Zhu, Yun Min) On robustness of the Robbins-Monro method for parallel processing. 91a:65257
 Zavriv, S. K. (with Perevozchikov, A. G.) A stochastic quasigradient method for optimization of the parameters of dynamical systems. 91j:90057
 Zhu, Yun Tang *see* Hon, Yu Hua, 91f:62149
 Zhu, Yun Min *see* Yin, Gang George, 91a:65257

62L99 None of the above, but in this section

- Nguyen Bac Van On the statistical analysis of a random number of observations. 91c:62212
 Items with secondary classifications in 62L99
 Boukai, Benzion An explicit expression for the distribution of the supremum of Brownian motion with a change point. 91i:60202
 Ketterer, Joan A. Approximation theorems for stochastic economies with incomplete markets. 91e:90036
 Kitagawa, Toshi ★ Suisoku kateiron. (Japanese) [Sequential inference theory] 91g:62002
 Items with secondary classifications in 62L99
 Blais, J. A. R. ★ Estimation and spectral analysis. (Not in MR)

62Mxx Inference from stochastic processes

62M02 Markov processes: hypothesis testing

- Babb, J. C. *see* McGregor, J. R., 91a:62225
 Malinovsky, V. K. Power functions and the deficiency of asymptotically efficient tests in the case of Markov observations. 91c:62213
 McGregor, J. R. (with Babb, J. C.) Serially correlated differences in the paired comparison of time series. 91a:62225
 Mirvaliev, M. (with Norkhodzhayev, A. A.) On a chi-square test for homogeneous Markov chains. (Russian. Uzbek summary) 91c:62214
 Norkhodzhayev, A. A. *see* Mirvaliev, M., 91c:62214
 Ramalingam, T. Exact Bahadur efficiencies of tests for superadditivity of the mean function of a nonhomogeneous Poisson process. 91i:62108
 Scott, David J. *see* Wang, Dong Qian, 91g:62065
 Singh, Avinash C. (with Sutradhar, Brajendra C.) Testing proportions for Markov dependent Bernoulli trials. 91a:62226
 Sutradhar, Brajendra C. *see* Singh, Avinash C., 91a:62226
 Wang, Dong Qian (with Scott, David J.) Testing a Markov chain for independence. 91g:62065

Items with secondary classifications in 62M02

- Hornik, K. Asymptotically optimal tests of hypotheses on the generator of a finite Markov process. 91c:62049
 Yeh, Hsiao Chin A new first order autoregressive Pareto process. 91c:62242

62M05 Markov processes: estimation

- Ades, M. (with Dion, J.-P.; Labelle, Gilbert) On estimating the age of a supercritical branching process. 91c:62075
 Aragon, Jorge *see* Bedrick, Edward J., 91a:62227
 Basu, Asit P. *see* Rigdon, Steven E., 91h:62173
 Bedrick, Edward J. (with Aragon, Jorge) Approximate confidence intervals for the parameters of a stationary binary Markov chain. 91a:62227
 Bondarev, B. V. The confidence interval for a noise parameter in systems of equations. (Russian) (see 91j:60001)
 Burman, Prabir Rate of convergence of the spline estimates for Markov chains. 91d:62130
 Chan, Ngai Hang Asymptotic inference for unstable autoregressive time series with drifts. 91h:62172
 Chang, I Shou (with Hsiung, Chao Agnes) Finite sample optimality of maximum partial likelihood estimation in Cox's model for counting processes. 91f:62138
 Danaher, Peter J. A Markov chain model for magazine exposure. 91i:62109
 Dion, J.-P. *see* Ades, M.; et al., 91c:62075
 Florens-Zmirou, Danièle Statistics with diffusion crossing times. (see 91j:60003)
 — Approximate discrete-time schemes for statistics of diffusion processes. 91c:62215
 Flournoy, Nancy Dependency in multivariate Markov chains. 91m:62154
 Gill, Richard D. *see* Keiding, Niels, 91i:62110
 Glasserman, Paul Discrete-time "inversion" and derivative estimation for Markov chains. 91j:62119
 Hsiung, Chao Agnes *see* Chang, I Shou, 91f:62138
 Isogai, Eichi Nonparametric recursive estimation in stationary Markov processes. 91a:62228
 Kasonga, Raphael A. Maximum likelihood theory for large interacting systems. 91f:62139
 Keiding, Niels (with Gill, Richard D.) Random truncation models and Markov processes. 91i:62110
 Kotevskan, P. Estimating the age of a Galton-Watson process with binomial offspring distribution. 91g:62066
 Kwok, Michael C. O. *see* Li, Wai Kee, (Not in MR)
 Labelle, Gilbert *see* Ades, M.; et al., 91c:62075
 Laredo, Catherine F. A sufficient condition for asymptotic sufficiency of incomplete observations of a diffusion process. 91j:62120
 Li, Wai Kee (with Kwok, Michael C. O.) Some results on the estimation of a higher order Markov chain. (Not in MR)
 Milhau, Xavier (with Raugi, Albert) Étude de l'estimateur du maximum de vraisemblance dans le cas d'un processus autorégressif: convergence, normalité asymptotique, vitesse de convergence. (English summary) [Study of the maximum likelihood estimator in the

- case of an autoregressive process: convergence, asymptotic normality, rate of convergence] 91j:62076
- Miller, Klaus (with Olbricht, Walter) On the statistical analysis of grouped Markov chains. (Not in MR)
- Olbricht, Walter see Miller, Klaus, (Not in MR)
- Penev, S. Convolution theorem for estimating the stationary distribution of Markov chains. (Not in MR)
- Phelan, Michael J. Bayes estimation from a Markov renewal process. 91f:62140
- Estimating the transition probabilities from censored Markov renewal processes. 91f:62141
- Qian, Wei (with Titterton, D. M.) Parameter estimation for hidden Gibbs chains. 91f:62216
- Rangl, Albert see Milhau, Xavier, 91c:62076
- Rigdon, Steven E. (with Basu, Asit P.) Mean squared errors of estimators of the intensity function of a nonhomogeneous Poisson process. 91h:62173
- Rózański, Roman Markov stopping sets and stochastic integrals. Application in sequential estimation for a random diffusion field. 91a:62229
- Scott, David J. Asymptotic inference for the Galton-Watson process without restriction to the super-critical case. (see 91j:60004)
- Sin'kevich, D. V. The rate of convergence in probability of the least squares estimate, averaged over overlapping observation intervals, of transition probabilities of a homogeneous Markov chain. (Russian. English summary) 91e:62217
- Stefanov, Valeri T. A sequential approach for reducing curved exponential families of stochastic processes to noncurved exponential ones. 91h:62174
- Titterton, D. M. see Qian, Wei, 91f:62216
- Watan, M. T. see Wu, Ties-Jian, 91k:62086
- Wei, C. Z. (with Winnicki, J.) Estimation of the means in the branching process with immigration. 91m:62155
- Winnicki, J. see Wei, C. Z., 91m:62155
- Wu, Ties-Jian (with Watan, M. T.) Time integrated least squares estimators of regression parameters of independent stochastic processes. 91k:62086
- Yakunin, M. A. Estimation of the parameters of a multidimensional Ornstein-Uhlenbeck process. (Russian) (see 91g:65009)
- Yip, Paul Estimating selective advantage and related parameters of a model for two populations competing in a bounded environment. 91e:62111
- Items with secondary classifications in 62M05
- Anderson, T. W. Second-order moments of a stationary Markov chain and some applications. 91a:60175
- Asmussen, Søren Exponential families and regression in the Monte Carlo study of queues and random walks. 91k:65019
- Badalov, I. S. (with Mukhitdinov, A.) On an estimate for the direction of an eigenvector of a matrix of expected values in a multitype Galton-Watson process with immigration. (Russian) 91d:60201
- Clifford, Peter Markov random fields in statistics. 91j:60094
- Fox, Bennett L. (with Glynn, Peter W.) Discrete-time conversion for simulating finite-horizon Markov processes. 91f:60120
- Genon-Catalot, Valentine (with Laredo, Catherine F.) An asymptotic sufficiency property of observations related to the first hitting times of a diffusion. 91g:62023
- Glynn, Peter W. see Fox, Bennett L., 91f:60120
- Guttorp, Peter (with Thompson, Mary Lou) Nonparametric estimation of intensities for sampled counting processes. 91e:62088
- Hamilton, James D. Analysis of time series subject to changes in regime. 91h:62081
- Harel, Michel (with Puri, Madan Lal) Théorème central limite de l'estimateur de densité et de l'erreur quadratique intégrée pour des variables aléatoires non stationnaires. (English summary) [Central limit theorem for the density estimator and integrated square error based on nonstationary random variables] 91k:62038
- Höpfner, Reinhard (with Jacod, Jean; Ladelli, Lucia) Local asymptotic normality and mixed normality for Markov statistical models. 91e:62035
- Jacod, Jean see Höpfner, Reinhard; et al., 91e:62035
- Ladelli, Lucia see Höpfner, Reinhard; et al., 91e:62035
- Laredo, Catherine F. see Genon-Catalot, Valentine, 91g:62023
- Magiera, Ryszard (with Stefanov, Valeri T.) Sequential estimation in exponential-type processes under random initial conditions. 91a:62222
- Meeden, Glen The admissibility of the maximum likelihood estimator for estimating a transition matrix. 91f:62014
- Mukhitdinov, A. see Badalov, I. S., 91d:60201
- Perez, Albert To what extent a Markovian approximation of a process is justified knowing only its first-order transition probabilities. 91j:62009
- Puri, Madan Lal see Harel, Michel, 91k:62038
- Rajarshi, M. B. Bootstrap in Markov-sequences based on estimates of transition density. 91j:62052
- Stefanov, Valeri T. see Magiera, Ryszard, 91a:62222
- Thompson, Mary Lou see Guttorp, Peter, 91e:62088
- Tran, Lanh Tat The L_1 convergence of kernel density estimates under dependence. (French summary) 91e:62102
- Wei, C. Z. (with Winnicki, J.) Some asymptotic results for the branching process with immigration. 91e:60109
- Winnicki, J. see Wei, C. Z., 91e:60109

62M07 Non-Markovian processes: hypothesis testing

- Dabrowski, André Robert (with McDonald, David R.; Rösler, Uwe) Renewal theory properties of ion channels. 91j:62121
- Huggins, R. M. The sign test for stochastic processes. 91h:62175
- Liu'kov, Ya. N. Asymptotical methods of statistics for semimartingales. (see 91f:60002)
- McDonald, David R. see Dabrowski, André Robert; et al., 91j:62121
- Prakasa Rao, B. L. S. Interface between probability and statistics. (Not in MR)
- Rösler, Uwe see Dabrowski, André Robert; et al., 91j:62121
- Vajda, Igor Asymptotic rate of discrimination of random processes. 91m:62156

Items with secondary classifications in 62M07

- Chitashvili, R. Ya. see Lazrieva, N. L.; et al., 91j:62035
- Haara, Pentti A note on the asymptotic behaviour of the empirical score in Cox's regression model for counting processes. (see 91j:60003)
- Lazrieva, N. L. (with Torondzhadze, T. A.; Chitashvili, R. Ya.) On asymptotic estimation theory with perturbation of a model in the general scheme of a statistical experiment. (Russian) 91j:62035
- Mills, T. M. (with Seneta, Eugene) Goodness-of-fit for a branching process with immigration using sample partial autocorrelations. 91j:62133
- Seneta, Eugene see Mills, T. M., 91j:62133
- Torondzhadze, T. A. see Lazrieva, N. L.; et al., 91j:62035
- Tran, Lanh Tat The L_1 convergence of kernel density estimates under dependence. (French summary) 91e:62102

62M09 Non-Markovian processes: estimation

- Alekseev, V. G. Estimates for the area of the correlation domain of a homogeneous Gaussian random field. 91h:62078
- Antoniadis, Anestis A penalty method for nonparametric estimation of the intensity function of a counting process. 91d:62131
- (with Grégoire, Gérard) Estimation régulière de la fonction d'intensité d'un processus ponctuel: méthodes non paramétriques. (English summary) [Regular estimation of the intensity function of a point process: nonparametric methods] 91e:62218
- Basawa, I. V. see Kim, Won Kyung; et al., 91f:62113
- Billard, Lynne see Kim, Won Kyung; et al., 91f:62113
- Bondarev, B. V. On an estimate for an unknown parameter of the drift coefficient of an equation perturbed by Gaussian noise. (Russian) 91j:62122
- Buldygin, V. V. (with Zayats, V. V.) Asymptotic properties of estimates for correlation functions of stationary Gaussian processes in spaces of continuous functions. (Russian) 91e:62219
- Campillo, Fabien (with Le Gland, François) MLE for partially observed diffusions: direct maximization vs. the EM algorithm. 91d:62220
- Chen, Bor-Chung (with Sargent, Robert G.) Confidence interval estimation for the variance parameter of stationary processes. 91a:62230
- Dahlhaus, Rainer Efficient parameter estimation for self-similar processes. 91f:62142
- (with Pötscher, B. M.) Convergence results for maximum likelihood type estimators in multivariable ARMA models. II. 91h:62176
- Dia, Galaye Loi limite du régressogramme pour un processus ponctuel. [Limit law of the regressogram for a point process] 91c:62077
- Dodunokova, Rosita On the minimax property of the linear minimax estimator in a stochastic model. (Russian. English summary) 91a:62231
- Dzhaparidze, K. On asymptotic efficiency of the Cox estimator. (see 91j:60004)
- Feigin, P. D. Semimartingale convergence theory and conditional inference for stochastic processes. (see 91j:60004)
- Gay, R. see Heyde, C. C., 91a:62232
- Genon-Catalot, Valentine (with Laredo, Catherine F.; Picard, Dominique) Estimation non paramétrique de la variance d'une diffusion par méthodes d'ondelettes. (English summary) [Nonparametric estimation of the diffusion coefficient of a diffusion process by wavelet methods] 91f:62143
- Maximum contrast estimation for diffusion processes from discrete observations. 91g:62067
- Godambe, V. P. The foundations of finite sample estimation in stochastic processes. II. (see 91j:60004)
- Grégoire, Gérard see Antoniadis, Anestis, 91e:62218
- Hayashi, Toshiharu see Inagaki, Nobuo, 91f:62112
- Heyde, C. C. (with Gay, R.) On asymptotic quasi-likelihood estimation. 91a:62232
- Inagaki, Nobuo (with Hayashi, Toshiharu) Parameter estimation for the simple self-correcting point process. 91f:62112
- Kasonga, Raphael A. Parameter estimation by deterministic approximation of a solution of a stochastic differential equation. 91f:62144
- Kim, Won Kyung (with Billard, Lynne; Basawa, I. V.) Estimation for the first-order diagonal bilinear time series model. 91f:62113
- Laredo, Catherine F. see Genon-Catalot, Valentine; et al., 91f:62143
- Le Gland, François see Campillo, Fabien, 91e:62220
- Leskow, Jacek Histogram maximum likelihood estimator of a periodic function in the multiplicative intensity model. 91d:62132
- (with Rózański, Roman) Maximum likelihood estimator of the drift function for a diffusion process. 91e:62221
- (with Rózański, Roman) Histogram maximum likelihood estimator in the multiplicative intensity model. 91e:62222
- Márkus, László The mean's consistent estimation, in the case [of] random processes, satisfying partial differential equations. 91c:62078
- McKeague, Ian W. (with Utikal, Klaus J.) Inference for a nonlinear counting process regression model. 91j:62123
- Molchanov, I. S. Estimation of the parameters of superpositions of Poisson point processes. (Russian) 91f:62114
- Nail-Nimbalkar, U. V. see Subramanyam, A., 91h:62178
- Nemrovskii, A. S. Necessary conditions for efficient estimation of functionals of a nonparametric signal observed in white noise. 91e:62223
- Picard, Dominique see Genon-Catalot, Valentine; et al., 91f:62143
- Poskitt, D. S. Corrigendum: "A method for the estimation and identification of transfer function models" [J. Roy. Statist. Soc. Ser. B 51 (1989), no. 1, 29–46; MR 90k:62185]. 91g:62068
- Pötscher, B. M. see Dahlhaus, Rainer, 91h:62176
- Rózański, Roman see Leskow, Jacek, 91e:62221 and 91e:62222
- Sargent, Robert G. see Chen, Bor-Chung, 91a:62230
- Senakolis, A. A. (with Trivizhenko, B. E.) An estimate for the parameters of a trend of nonstationary flows of random events. (Russian) 91d:62133
- Shimizu, Kenji (with Tanaka, Minoru) Properties of the estimators of the autocorrelation coefficients for a stationary generalized lognormal process. 91e:62224

- Sørensen, Michael A note on the existence of a consistent maximum likelihood estimator for diffusions with jumps. **91b:62115**
 — Some asymptotic properties of quasikelihood estimators for semimartingales. **91b:62079**
 — On quasi likelihood for semimartingales. **91j:62124**
 Stein, Michael L. Bounds on the efficiency of linear predictions using an incorrect covariance function. **91m:62157**
 Streit, F. Quelques remarques relatives à l'inférence statistique pour les processus ponctuels marqués. (English summary) [Some remarks concerning statistical inference for marked point processes] **91b:62177**
 Subramanyam, A. (with Naik-Nimbalkar, U. V.) Optimal unbiased statistical estimating functions for Hilbert space valued parameters. **91b:62178**
 Svensson, Åke Estimation in some counting process models with multiplicative structure. **91e:62225**
 — Asymptotic inference for multiplicative counting processes based on one realization. **91e:62226**
 — Asymptotic estimation in counting processes with parametric intensities based on one realization. **91m:62158**
 Tanaka, Minoru² see Shimizu, Kunio, **91e:62224**
 Taqqs, Murad S. Toeplitz matrices and estimation of time series with long-range dependence. (see **91j:60003**)
 Trivoshenko, B. E. see Senakolis, A. A., **91d:62133**
 Utkal, Klaus J. see McKeague, Ian W., **91j:62123**
 Yoshida, Nakahiro Robust M -estimators in diffusion processes. **91b:62179**
 Zayats, V. V. see Buldygin, V. V., **91e:62219**

Items with secondary classifications in 62M09

- Andri, Jih Nonlinear nonnegative AR(1) processes. **91b:62080**
 Bates, Charles (with White, Halbert) Efficient instrumental variables estimation of systems of implicit heterogeneous nonlinear dynamic equations with nonspherical errors. **91f:62169**
 Boente, Graciela (with Fraiman, Ricardo) Chain rule density estimates. **91j:62041**
 Castellana, J. V. Integrated consistency of smoothed probability density estimators for stationary sequences. **91e:62033**
 Dahrowksi, André Robert (with McDonald, David R.; Rösler, Uwe) Renewal theory properties of ion channels. **91j:62121**
 Deniau, Claude (with Oppenheim, Georges; Viano, Marie-Claude) Estimation of a centrality parameter and random sampling time. I. Necessary conditions for optimality. **91f:62118**
 — (with Oppenheim, Georges; Viano, Marie-Claude) Estimation of a centrality parameter and random sampling time schemes. II. Applications. **91f:62119**
 Fraiman, Ricardo see Boente, Graciela, **91j:62041**
 Frigessi, Arnoldo (with Piccioni, Mauro) Parameter estimation for two-dimensional Ising fields corrupted by noise. **91j:60155**
 Gassiat, Elisabeth Semi-parametric estimation of a stationary, non-necessary causal AR(p) process with infinite variance. **91b:62090**
 Golubev, G. K. Quasilinear estimates for signals in L_2 . **91b:62051**
 Huggins, R. M. The sign test for stochastic processes. **91b:62175**
 Ibarrola, Pilar see Vélez Ibarrola, Ricardo, **91e:62207**
 Karr, Alan F. see Zucker, David M., **91e:62108**
 Katsyuba, O. A. see Zhdanov, A. I., **91j:63131**
 Konev, V. V. see Vasil'ev, V. A., **91e:93086**
 Konev, E. S. A sequential version of the Newton-Gauss procedure for estimating the parameter of a nonlinear stochastic system. **91e:62204**
 Lebedev, V. S. Minimax estimation of linear functionals in two-dimensional noise. **91e:62092**
 Li, Gui Bin Estimation of parameters in ARUMA models. **91e:62236**
 Maiboroda, R. E. A median estimate for the change point in the case of weakly dependent observations. (Russian) **91j:62047**
 Markovich, Yu. P. see Pottosina, S. A., (Not in MR)
 McDonald, David R. see Dahrowksi, André Robert; et al., **91j:62121**
 Miamce, A. G. (with Pourahmadi, Mohsen) Degenerate multivariate stationary processes: basicity, past and future, and autoregressive representation. **91b:62185**
 Nehorai, Arye see Zeira, Ariela, **91b:94011** and Stoica, Petre, **91c:93071**
 Oppenheim, Georges see Deniau, Claude; et al., **91f:62118** and **91f:62119**
 Piccioni, Mauro see Frigessi, Arnoldo, **91j:60155**
 Pottosina, S. A. (with Markovich, Yu. P.) Estimation of the probability density of nonstationary random processes. (Russian) (Not in MR)
 Pourahmadi, Mohsen see Miamce, A. G., **91b:62185**
 Prakasa Rao, B. L. S. Interface between probability and statistics. (Not in MR)
 Rösler, Uwe see Dahrowksi, André Robert; et al., **91j:62121**
 Solodnyanikov, Yu. V. Direct and inverse problems in the nonparametric statistics of queueing systems. **91b:62027**
 Spreij, P. J. C. * Counting process systems. **91m:60089**
 Stoica, Petre (with Nehorai, Arye) Statistical analysis of two nonlinear least-squares estimators of sine-wave parameters in the colored-noise case. **91c:93071**
 Vasil'ev, V. A. (with Konev, V. V.) On sequential parameter estimation of continuous dynamic systems by discrete time observations. (Russian summary) **91e:93086**
 Vélez Ibarrola, Ricardo (with Ibarrola, Pilar) Optimal invariant estimation of a scale parameter of a continuous time stochastic process. **91e:62207**
 Viano, Marie-Claude see Deniau, Claude; et al., **91f:62118** and **91f:62119**
 Wahlberg, Bo Estimation of autoregressive moving-average models via high-order autoregressive approximations. **91b:62192**
 Wefelmeyer, W. A generalization of asymptotically linear estimators. **91m:62046**
 White, Halbert see Bates, Charles, **91f:62169**
 Zeira, Ariela (with Nehorai, Arye) Frequency domain Cramér-Rao bound for Gaussian processes. **91b:94011**
 Zhdanov, A. I. (with Katsyuba, O. A.) Strong consistency of estimates made by the method of orthogonal projections. **91f:93131**

- Zucker, David M. (with Karr, Alan F.) Nonparametric survival analysis with time-dependent covariate effects: a penalized partial likelihood approach. **91e:62108**

62M10 Time series, auto-correlation, regression, etc.
[see also 90A20]

- Ackerson, Lynn M. see Jones, Richard H., **91k:62091**
 Alekseev, V. G. Estimates for the trispectral density of a stationary random process. **91e:62227**
 Alvioli, Elisabetta (with Corradi, Corrado) A Chandrasekhar type square root smoother for the Bayesian decomposition of a time series. (Italian summary) (Not in MR)
 Andri, Jih (with Fuchs, Alexandr) On marginal distributions of threshold models. (see **91j:60004**)
 — Periodic autoregression with exogenous variables and periodic variances. (Russian and Czech summaries) **91a:62233**
 — Nonlinear nonnegative AR(1) processes. **91b:62080**
 — AR(1) processes with given moments of marginal distribution. **91a:62234**
 Anderson, Oliver D. Moments of the sampled autocovariances and autocorrelations for a Gaussian white-noise process. (French summary) (Not in MR)
 — (with de Gooijer, Jan G.) Discrimination between nonstationary and nearly nonstationary processes, and its effect on forecasting. (French summary) **91c:62079**
 — Errata: "Moments of the sampled autocovariances and autocorrelations for a Gaussian white-noise process" [Canad. J. Statist. **18** (1990), no. 3, 271–284]. (Not in MR)
 Ansley, Craig F. (with Kohn, Robert Jacob) A note on square root filtering for vector autoregressive moving-average models. (Not in MR)
 Aoki, Masanobu * State space modeling of time series. **91b:62116**
 Arató, Máttyás Asymptotic inference for discrete vector AR processes. **91j:62125**
 Auestad, Bjørn (with Tjøstheim, Dag) Identification of nonlinear time series: first order characterization and order determination. **91j:62126**
 Bagchi, Parthasarathy (with Draper, Norman R.; Guttman, Irwin) Bayesian assessment of assumptions of regression analysis. **91f:62117**
 Basu, A. K. (with Sen Roy, S.) On rates of convergence in the central limit theorem for parameter estimation in general autoregressive model. **91j:62127**
 Battaglia, Francesco Approximate power of portmanteau tests for time series. **91a:62235**
 Beckman, Stig-Inge (with Holst, Jan; Lindgren, Georg) Alarm characteristics for a flood warning system with deterministic components. **91b:62180**
 Bhansali, R. J. Estimation of the moving-average representation of a stationary process by autoregressive model fitting. **91a:62236**
 — On a relationship between the inverse of a stationary covariance matrix and the linear interpolator. **91f:62145**
 Billings, S. A. see Chen, Sheng², **91a:62240**
 Boldin, M. V. On hypothesis testing in a moving average scheme by the Kolmogorov-Smirnov and the ω^2 tests. **91d:62134**
 Bolstad, William M. The efficiency of dynamic linear model estimators applied to a linearly aggregated time series. **91e:62228**
 Boag, Denis Nonparametric estimation of a nonlinear filter using a density estimator with a zero-one "explosive" behaviour in \mathbb{R}^d . **91a:62237**
 Breckling, Jens * The analysis of directional time series: applications to wind speed and direction. **91f:62146**
 Brillinger, David R. Consistent detection of a monotonic trend superposed on a stationary time series. **91e:62229**
 Bruce, Andrew G. (with Martin, R. Douglas) Corrigendum: "Leave-k-out diagnostics for time series" [J. Roy. Statist. Soc. Ser. B **51** (1989), no. 3, 363–424; MR 90i:62115]. **91a:62238**
 Buscemi, S. (with Crescimanni, A.) On the "line" of maximal autocorrelation. (Italian. English summary) **91a:62239**
 Cao, Xin see Sheng, Zhao Han; et al., (Not in MR)
 Chan, K. S. Testing for threshold autoregression. **91m:62159**
 — (with Tong, Howell) On likelihood ratio tests for threshold autoregression. **91k:62087**
 Chan, Ngai Hang (with Tran, Lanh Tat) On the first-order autoregressive process with infinite variance. **91b:62181**
 — Correction to: "On the nearly nonstationary seasonal time series" [Canad. J. Statist. **17** (1989), no. 3, 279–284; MR 90m:62207]. (Not in MR)
 Chan, R. see Taniguchi, Masanobu; et al., **91a:62249**
 Chen, Han Fu (with Guo, Lei) Nonstationary time series identification. **91d:62135**
 Chen, Sheng² (with Billings, S. A.) Modelling and analysis of nonlinear time series. **91a:62240**
 Cheng, Qian Sheng Maximum standardized cumulant deconvolution of non-Gaussian linear processes. **91m:62160**
 Choi, Byoung Seon A derivation of the asymptotic distribution of the partial autocorrelation function of an autoregressive process. (Not in MR)
 Cipra, Tomáš Some recursive methods in time series. **91c:62080**
 — Some problems of exponential smoothing. (Russian and Czech summaries) **91c:62081**
 Corradi, Corrado see Alvioli, Elisabetta, (Not in MR)
 Crescimanni, A. see Buscemi, S., **91a:62239**
 Cressie, Noel A graphical procedure for determining nonstationarity in time series. **91e:62082**
 Davis, Mark H. A. see Hemerly, E. M., **91e:62235**
 Davis, Richard Alan (with Resnick, Sidney I.) Basic properties and prediction of max-ARMA processes. **91g:62069**
 Degerine, Serge Canonical partial autocorrelation function of a multivariate time series. **91j:62128**
 — see also Pham Dinh Tuan, **91a:62247**
 Deng, Ji Xian see Song, Xing Yuan, **91d:62146**
 Deniau, Claude (with Oppenheim, Georges; Viano, Marie-Claude) Estimation of a centrality parameter and random sampling time. I. Necessary conditions for optimality. **91f:62118**
 — (with Oppenheim, Georges; Viano, Marie-Claude) Estimation of a centrality parameter and random sampling time schemes. II. Applications. **91f:62119**

- Deutsch, Stuart J. (with Richards, Jerry E.; Swain, James J.) Effects of a single outlier on ARMA identification. **91b:62088**
- Dhanavanthan, P. see Suresh Chandra, K., **91g:62073**
- Dhar, Sunil K. Functional least squares estimators in an additive effects outliers model. **91a:62230**
- Diggle, Peter J. ★ Time series. **91a:62231**
- Draper, Norman R. see Bagchi, Parthasarathy; et al., **91b:62117**
- (Droesbeke, Jean-Jacques) see Time series, **91a:62243**
- Du, Jin Guan see Shi, Jiu Yu, **91a:62240**
- Dufour, Jean-Marie (with Roy, Roch) Corrigendum: "Generalized portmanteau statistics and tests of randomness" [Comm. Statist. A—Theory Methods **15** (1986), no. 10, 2953–2972; MR **87j:62170**]. **91b:62120**
- (with King, Maxwell L.) Optimal invariant tests for the autocorrelation coefficient in linear regressions with stationary or nonstationary AR(1) errors. **91k:62089**
- El-Laili, Heba F. Maximum likelihood and modified maximum likelihood estimates of linear models with errors following autoregressive process. (Not in MR)
- Ermofova, T. Yu. Asymptotic behavior of estimates for regression coefficients of random processes with a priori inequality constraints. **91a:62232**
- Fassò, Alessandro Rupture detection in physical systems with random components. (Italian. English summary) (Not in MR)
- Fernández, F. Javier Estimation and testing of a multivariate exponential smoothing model. (Not in MR)
- Fewerberger, Audrey An efficiency result for the empirical characteristic function in stationary time-series models. (French summary) **91j:62129**
- (Ficht, Bernard) see Time series, **91a:62243**
- Findley, David F. Amendments and corrections: "The uniqueness of moving average representations with independent and identically distributed random variables for non-Gaussian stationary time series" [Biometrika **73** (1986), no. 2, 520–521; MR **88c:62210**]. **91f:62147**
- Fleming, Thomas R. see Therneau, Terry M.; et al., **91a:62241**
- Foutz, Robert V. see Koons, Bruce K., (Not in MR)
- Fuchs, Alexander see Anděl, Jiří, **(91j:60004)**
- Galbraith, John W. see Zinde-Walsh, Victoria, **91m:62169**
- Gao, Hong Ye Identification and hypothesis testing on ARIMA (p, d, q) models. **91d:62136**
- Gassiat, Elisabeth Semi-parametric estimation of a stationary, non-necessary causal AR(p) process with infinite variance. **91k:62090**
- Gay, R. (with Heyde, C. C.) On a class of random field models which allows long range dependence. (Not in MR)
- Giralitis, L. (with Sargailis, D.) Asymptotic normality of the Whittle estimate for processes with long-range dependence. (Russian) (see **91g:60005**)
- Girón, F. J. (with Martínez, M. L.; Rojano, J. C.) Dynamical linear models and mixtures of distributions. (Spanish. English summary) **91d:62137**
- Gong, Zhao Ren Necessary and sufficient conditions for AR(P) models. (Chinese. English summary) (Not in MR)
- de Gooijer, Jan G. see Anderson, Oliver D., **91c:62079**
- Grambsch, Patricia M. see Therneau, Terry M.; et al., **91a:62241**
- Gun, Lei (with Huang, Da Wei; Hannan, E. J.) On ARX(∞) approximation. **91g:62070**
- see also Chen, Han Fu, **91d:62135**
- Gupta, Sat N. Consistent estimation of the degree of differencing in fractionally differenced noise processes. **91a:62241**
- Parameter estimation in fractionally differenced noise processes. (Italian summary) **91a:62233**
- Guttman, Irwin see Bagchi, Parthasarathy; et al., **91b:62117**
- Hall, Alastair Amendments and corrections: "Testing for a unit root in the presence of moving average errors" [Biometrika **76** (1989), no. 1, 49–56; MR **90g:62218**]. **91a:62242**
- Hallin, Marc (with Mélard, Guy) Rank-based tests for randomness against first-order serial dependence. **91d:62138**
- Hamilton, James D. Analysis of time series subject to changes in regime. **91b:62081**
- Hannan, E. J. (with Wahlberg, Bo) Convergence rates for inverse Toeplitz matrix forms. **91a:62234**
- see also Guo, Lei; et al., **91g:62070**
- Harvey, A. C. see Shephard, N. G., **91j:62136**
- He, Shu Yuan (with Kedem, Benjamin) The zero-crossing rate of autoregressive processes and its link to unit roots. **91f:62148**
- Hemerly, E. M. (with Davis, Mark H. A.) Strong consistency of the PLS criterion for order determination of autoregressive processes. **91a:62235**
- Heyde, C. C. see Gay, R., (Not in MR)
- Higuchi, Tomoyuki Fractal analysis of time series. (Japanese. English summary) (Not in MR)
- An interpretation of the auto-regression (AR) model by using a linear algebra. (Japanese. English summary) (Not in MR)
- Hillmer, Steven C. see Trabelsi, Abdelwahed, (Not in MR)
- Holly, Alberto (with Rockinger, Georg Michael) Exact and approximate distribution of the t ratio test statistic in an AR(1) model. **91i:62121**
- Holmes, R. B. On random correlation matrices. II. The Toeplitz case. (Not in MR)
- Holst, Jan see Beckman, Stig-Inge; et al., **91b:62180**
- Hosoya, Yuzo (with Taniguchi, Masanobu) Higher order asymptotic theory in time series analysis. (Japanese) (Not in MR)
- Hou, Yu Hua (with Zhu, Yan Tang) M -estimators of parameters and their asymptotic properties in mixed regression models. (Chinese. English summary) **91f:62149**
- Huang, Da Wei Recursive method for ARMA model estimation. II. **91a:62243**
- Selecting order for general autoregressive models by minimum description length. **91d:62139**
- Levinson-type recursive algorithms for least-squares autoregression. **91j:62130**
- see also Gun, Lei; et al., **91g:62070**
- Huang, Jiang On the convergence of LAD estimates of AR(p) model constants. (Chinese. English summary) **91b:62182**
- Hung, Ken Simulation study on variance of forecast error for vector ARIMA models. (Not in MR)
- Hurvich, Clifford M. (with Tsai, Chih-Ling) Regression and time series model selection in small samples. **91c:62083**
- Idrisov, R. F. see Terpogor, A. F., **(91e:60006)**
- Ingram, Beth Fisher see Lee, Bong-Soo, **91m:62163**
- Iwaze, Itheanyi On the invertibility of bilinear time series models. (Italian summary) (Not in MR)
- Janacek, G. J. (with Swift, A. L.) A class of models for nonnormal time series. (Not in MR)
- Jevremović, Vesna An autoregressive process with an exponential marginal distribution. (Serbo-Croatian summary) (Not in MR)
- Two examples of nonlinear processes with a mixed exponential marginal distribution. **91b:62082**
- A note on mixed exponential distribution with negative weights. **91m:62161**
- Jones, Richard H. (with Ackerson, Lynn M.) Serial correlation in unequally spaced longitudinal data. **91k:62091**
- Kahn, James A. (with Ogaki, Masao) A chi-square test for a unit root. (Not in MR)
- Kallinen, Arto see Pukkila, Tarmo M.; et al., **91m:62167**
- Kapustinskas, Aloyzas Invertibility of an autoregressive space-time field into an equivalent moving average field in the space R^d . (Russian. English and Lithuanian summaries) (Not in MR)
- Replacing autoregressive space-time fields by equivalent moving average fields in the spaces R^2 and R^3 . (Russian. English and Lithuanian summaries) (Not in MR)
- Karlsen, Haas Arnfinn Existence of moments in a stationary stochastic difference equation. **91d:62140**
- Kavaliaris, L. The estimation of the order of an autoregression using recursive residuals and cross-validation. **91a:62244**
- Kedem, Benjamin see He, Shu Yuan, **91f:62148**
- Kendall, Maurice (with Ord, J. Keith) ★ Time series. **91m:62162**
- Kheoh, Thian S. (with McLeod, A. Ian) On the forecast error variance of fitted time series models. (Not in MR)
- Kim, Hea-Jung R and S arrays approach for transfer function-noise model identification. (Not in MR)
- King, Maxwell L. see Dufour, Jean-Marie, **91k:62089**
- Klein, André (with Mélard, Guy) Fisher's information matrix for seasonal autoregressive-moving average models. **91j:62131**
- Kilgus, Nerutė The probabilities of errors in likelihood estimation of a change-point in statistical models. **91f:62150**
- Knight, Keith A note on the asymptotic covariance matrix of the Yule-Walker estimator. **91b:62183**
- Kohn, Robert Jacob see Ansley, Craig F., (Not in MR)
- Koons, Bruce K. (with Foutz, Robert V.) Estimating moving average parameters in the presence of measurement error. (Not in MR)
- Koreisha, Sergio (with Pukkila, Tarmo M.) Linear methods for estimating ARMA and regression models with serial correlation. (Not in MR)
- (with Pukkila, Tarmo M.) A generalized least-squares approach for estimation of autoregressive moving-average models. (Not in MR)
- see also Pukkila, Tarmo M.; et al., **91m:62167**
- Kreiss, Jens-Peter Testing linear hypotheses in autoregressions. **91i:62122**
- Krishnaiah, Paruchuri R. see Taniguchi, Masanobu; et al., **91a:62249**
- Kulkarni, P. M. Robust Durbin's and Portmanteau goodness-of-fit test statistics and their limit distributions. (Not in MR)
- Latour, Alain (with Roy, Roch) Distribution asymptotique des autocorrélations d'un processus saisonnier non stationnaire. (English summary) [Asymptotic distribution of the autocorrelations of a nonstationary seasonal process] **91g:62071**
- (with Roy, Roch) On the behaviour of the sample autocorrelations and autocorrelations of a seasonal ARIMA model. **91d:62141**
- Ledolter, Johannes Outlier diagnostics in time series analysis. (Not in MR)
- Lee, Bong-Soo (with Ingram, Beth Fisher) Simulation estimation of time-series models. **91m:62163**
- Lemay, Yves see Moore, Marc, (Not in MR)
- Li, Gui Bin Estimation of parameters in ARUMA models. **91a:62236**
- Estimates of orders and parameters in general ARMA models. (Not in MR)
- Lil, Keh Shain Identification and estimation of non-Gaussian ARMA processes. **91f:62151**
- Lindgren, Georg see Beckman, Stig-Inge; et al., **91b:62180**
- Lipeika, Antanas (with Lipeikienė, Joana) Estimation of change-points in the properties of random autoregressive sequences with unknown parameters. (Russian and Lithuanian summaries) (Not in MR)
- Lipeikienė, Joana see Lipeika, Antanas, (Not in MR)
- Liu, Jian³ On the existence of a general multiple bilinear time series. **91e:62237**
- Estimation for some bilinear time series. **91j:62132**
- Livshits, K. I. Parameter estimation of a spline-like model of time series by the least squares method. **91i:62123**
- Luo, Ping Composition and decomposition of some random signal sequences. (Chinese) (Not in MR)
- Mackinnon, M. S. (with Poskitt, D. S.) Autoregressive frequency estimation. **91a:62238**
- Maeshiro, Asatoshi Peculiar bias properties of the OLS estimator when applied to a dynamic model with autocorrelated disturbances. (Not in MR)
- Maier, Hartmut ★ Methoden zur Schätzung der Ordnung bei autoregressiven Modellen. (German) [Methods for estimating the order of autoregressive models] **91b:62184**
- Maličić, Jovan Some properties of the variances of the sample means in autoregressive time series models. (Serbo-Croatian summary) (Not in MR)
- Maute, Claude Analyse en composantes principales d'un processus multiple non stationnaire: une application à des données météorologiques. (English summary) [Principal-component analysis of a nonstationary multiple process: an application to meteorological data] (Not in MR)
- Martin, R. Douglas see Bruce, Andrew G., **91a:62238**
- Martin, Richard John The use of time-series models and methods in the analysis of agricultural field trials. **91d:62142**
- Martínez, M. L. see Girón, F. J.; et al., **91d:62137**
- McLeod, A. Ian see Kheoh, Thian S., (Not in MR)
- Mélard, Guy see Hallin, Marc, **91d:62138** and Klein, André, **91j:62131**

- Melenets, Yu. V. Statistical analysis of periodic autoregressions. (Russian) (Not in MR)
- Melnick, Edward L. *see* Ravishanker, Nalin; et al., 91b:62153
- Merhav, Neri (with Ziv, Jacob) On universally efficient estimation of the first-order autoregressive parameter and universal data compression. 91b:62124
- Miamee, A. G. (with Pourahmadi, Mohsen) Degenerate multivariate stationary processes: basicity, past and future, and autoregressive representation. 91b:62185
- Michalek, Jiri Detection of changes in a simple regression model of a random process. (Russian summary) 91d:62143
- Milhaud, Xavier Un M estimateur pour un processus autoregressif non explosif. Quelques propriétés asymptotiques. [An M -estimator for a nonexplosive autoregressive process. Some asymptotic properties] 91m:62164
- Mills, T. M. (with Seneta, Eugene) Goodness-of-fit for a branching process with immigration using sample partial autocorrelations. 91j:62133
- Mittnik, Stefan Computation of theoretical autocovariance matrices of multivariate autoregressive moving average time series. (Not in MR)
- Mocanaddin, R. (with Tong, Howell) Numerical evaluation of distributions in nonlinear autoregression. (Not in MR)
- Moore, Marc (with Lemay, Yves) Sur le principe de parcimonie dans l'ajustement des modèles ARMA. (English summary) [On the principle of parsimony in ARMA model fitting] (Not in MR)
- Moretton, Pedro A. *see* Neves, Marli M. C., 91m:62165
- Nabeya, Seiji (with Tanaka, Katsuto) A general approach to the limiting distribution for estimators in time series regression with nonstable autoregressive errors. 91d:62144
- Nakano, Junji (with Tagami, Shigemi) A test for the presence of pure feedback in multivariate dynamic stochastic systems. 91b:62186
- Neves, Marli M. C. (with Moretton, Pedro A.) Second-order expansion of the mean squared error of the Cochrane-Orcutt estimator of time series regression models. 91m:62165
- Nijman, Theo E. (with Palm, Franz) Parameter identification in ARMA processes in the presence of regular but incomplete sampling. (Not in MR)
- Ogaki, Masao *see* Kahn, James A., (Not in MR)
- Oppenheim, Georges *see* Deniau, Claude; et al., 91i:62118 and 91i:62119
- Ord, J. Keith *see* Kendall, Maurice, 91m:62162
- Ostasevicius, Egidijus Recognition of random processes that can be described by a threshold autoregression model. (Russian. English and Lithuanian summaries) (Not in MR)
- Ouliaris, S. *see* Phillips, Peter C. B., 91j:62134
- Paesmans, Marianne Une méthode d'identification pour un modèle de fonctions de transfert. (English summary) [An identification method for a transfer function model] 91a:62245
- Palm, Franz *see* Nijman, Theo E., (Not in MR)
- Paulita, Sastry G. Estimation of autoregressive models with ARCH errors. 91a:62246
- Perron, Pierre A continuous time approximation to the unstable first-order autoregressive process: the case without an intercept. 91i:62125
- Pham Dinh Tuan (with Degerine, Serge) Efficient computation of autoregressive estimates through a sufficient statistic. 91a:62247
- Phillips, Peter C. B. Time series regression with a unit root and infinite-variance errors. 91f:62152
- (with Ouliaris, S.) Asymptotic properties of residual based tests for cointegration. 91j:62134
- Polasek, Wolfgang Vector distributed lag models with smoothness priors. (Not in MR)
- Pope, Alan Lloyd Biases of estimators in multivariate non-Gaussian autoregressions. 91m:62166
- Popović, Biljana Č. On estimation of parameters of time series with exponential marginals. (Serbo-Croatian summary) (see 91m:60027)
- Poskitt, D. S. Estimation and structure determination of multivariate input output systems. 91j:62135
- *see also* Mackinnon, M. S., 91e:62238
- Pötscher, B. M. Estimation of autoregressive moving-average order given an infinite number of models and approximation of spectral densities. 91b:62187
- Pourahmadi, Mohsen *see* Miamee, A. G., 91b:62185
- Pakkila, Tarmo M. Joint determination of autoregressive order and degree of differencing. (see 91f:62004)
- (with Koreisha, Sergio; Kallinen, Arto) The identification of ARMA models. 91m:62167
- *see also* Koreisha, Sergio, (Not in MR) and (Not in MR)
- Quinn, B. G. Estimating the number of terms in a sinusoidal regression. 91d:62145
- Ravishanker, Nalin (with Melnick, Edward L.; Tsai, Chih-Ling) Differential geometry of ARMA models. 91f:62153
- Ray, D. Comparison of forecasts: an empirical investigation. (Not in MR)
- Resnick, Sidney I. *see* Davis, Richard Alan, 91g:62069
- Richards, Jerry E. *see* Deutsch, Stuart J.; et al., 91k:62088
- Rockinger, Georg Michael *see* Holly, Alberto, 91i:62121
- Rojano, J. C. *see* Girón, F. J.; et al., 91d:62137
- Roy, Roch *see* Latour, Alain, 91d:62141; 91g:62071 and Dufour, Jean-Marie, 91i:62120
- Satchell, S. E. *see* Tanaka, Katsuto, 91b:62191
- Schmid, Wolfgang Identification of a type I outlier in an autoregressive model. 91e:62239
- Outliers in a multivariate autoregressive moving-average process. 91m:62168
- Seneta, Eugene *see* Mills, T. M., 91j:62133
- Sen Roy, S. *see* Basu, A. K., 91j:62127
- Sheng, Zhao Han (with Cao, Xin; Xu, Nan Rong) Modelling for a class of unstable generalized ARMA series. (Chinese. English summary) (Not in MR)
- Shephard, N. G. (with Harvey, A. C.) On the probability of estimating a deterministic component in the local level model. 91j:62136
- Shi, Jia Yu (with Du, Jin Guan) Some results on time series with a finite number of states. (Chinese. English summary) 91e:62240
- Shigeno, Hiroshi On a characterization of autoregressive moving average processes by the canonical structure between past and future spaces. 91a:62248
- Sims, Christopher A. (with Stock, James H.; Watson, Mark W.) Inference in linear time series models with some unit roots. 91b:62188
- Song, Xing Yuan (with Deng, Ji Xian) Strong consistency of estimates of parameters in multidimensional threshold autoregressive models. (Chinese. English summary) 91d:62146
- Sowell, Fallaw The fractional unit root distribution. 91g:62072
- Stock, James H. *see* Sims, Christopher A.; et al., 91b:62188
- Stoffer, David S. Multivariate Walsh-Fourier analysis. 91b:62189
- Stram, Daniel O. *see* Wei, William W. S., 91k:62092
- Suresh Chandra, K. (with Dhanavanthan, P.) Least squares estimation of the coefficients of a partially explosive model, with polynomial regressions of same degree, generating a pair of related time series. 91g:62073
- Surgailis, D. *see* Giraitis, L., (91g:60005)
- Swain, James J. *see* Deutsch, Stuart J.; et al., 91k:62088
- Swe, Myint *see* Taniguchi, Masanobu; et al., (Not in MR)
- Sweet, Arnold L. (with Wilson, James R.) Renewal-theoretic considerations in evaluation of forecast monitoring schemes. 91b:62190
- Swift, A. L. Orders and initial values of nonstationary multivariate ARMA models. (Not in MR)
- *see also* Janacek, G. J., (Not in MR)
- Tagami, Shigemi *see* Nakano, Junji, 91b:62186
- Tanaka, Katsuto (with Satchell, S. E.) Asymptotic properties of the maximum-likelihood and nonlinear least-squares estimators for noninvertible moving average models. 91b:62191
- *see also* Nabeya, Seiji, 91d:62144
- Taniguchi, Masanobu (with Krishnaiah, Paruchuri R.; Chao, R.) Normalizing transformations of some statistics of Gaussian ARMA processes. 91a:62249
- (with Swe, Myint; Taniguchi, Ruriko) An identification problem for moving average models. (Not in MR)
- *see also* Hosoya, Yuzo, (Not in MR)
- Taniguchi, Ruriko *see* Taniguchi, Masanobu; et al., (Not in MR)
- Tassi, Philippe *see* Time series, 91e:62243
- Terpegov, A. F. (with Idrisov, R. F.) An estimate for the parameters of an autoregressive model with random coefficients. (Russian) (see 91e:60006)
- Therneau, Terry M. (with Grambsch, Patricia M.; Fleming, Thomas R.) Martingale-based residuals for survival models. 91e:62241
- Tiao, George C. (with Tsay, Ruey S.) Model specification in multivariate time series. 91a:62250
- *see also* Tsay, Ruey S., 91d:62147
- Tjøstheim, Dag *see* Auestad, Bjørn, 91j:62126
- Tong, Howell Nonlinear time series models of regularly sampled data: a review. (see 91j:60904)
- (with Yeung, Iris) On tests for self-exciting threshold autoregressive-type nonlinearity in partially observed time series. (Not in MR)
- *see also* Chan, K. S., 91k:62087 and Mocanaddin, R., (Not in MR)
- Trabelsi, Abdelwahed (with Hillmer, Steven C.) Bench-marking time series with reliable bench-marks. (Not in MR)
- Tran, Lanh Tat Rank statistics for serial dependence. 91a:62251
- *see also* Chan, Ngai Hang, 91b:62181
- Trivizhenko, B. E. Nonlinear estimates for the parameters of a linear trend of a time series with measurements made at random times. (Russian) (see 91e:60006)
- Truong-Van, B. A new approach to frequency analysis with amplified harmonics. 91f:62154
- Tsai, Chih-Ling *see* Hurvich, Clifford M., 91c:62083 and Ravishanker, Nalin; et al., 91f:62153
- Tsay, Ruey S. Identifying multivariate time series models. 91a:62252
- (with Tiao, George C.) Asymptotic properties of multivariate nonstationary processes with applications to autoregressions. 91d:62147
- *see also* Tiao, George C., 91a:62250
- Veres, Sándor M. Relations between information criteria for model-structure selection. II. Modelling by shortest data description. 91g:62075
- Relations between information criteria for model-structure selection. III. Strong consistency of the predictive least squares criterion. 91g:62076
- Viano, Marie-Claude *see* Deniau, Claude; et al., 91i:62118 and 91i:62119
- Wahlberg, Bo Estimation of autoregressive moving-average models via high-order autoregressive approximations. 91b:62192
- *see also* Hannan, E. J., 91e:62234
- Walden, A. T. (with White, R. E.) Estimating the statistical bandwidth of a time series. (Not in MR)
- Watson, Mark W. *see* Sims, Christopher A.; et al., 91b:62188
- Weber, Michael Optimized regression models for time series. 91a:62253
- Wei, William W. S. ★ Time series analysis. 91c:62084
- (with Stram, Daniel O.) Disaggregation of time series models. 91k:62092
- White, R. E. *see* Walden, A. T., (Not in MR)
- Wilson, James R. *see* Sweet, Arnold L., 91b:62190
- Wittwer, G. Some remarks on bilinear time series models. 91g:62077
- Wolff, Rodney C. L. A note on the behaviour of the correlation integral in the presence of a time series. 91k:62093
- Xu, Nan Rong *see* Sheng, Zhao Han; et al., (Not in MR)
- Yajima, Yoshihiro Long-memory models and their statistical properties. (Japanese. English summary) 91b:62193
- Yeh, Hsiao Chen A new first order autoregressive Pareto process. 91e:62242
- Yeung, Iris *see* Tong, Howell, (Not in MR)
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- Zhdanov, A. I. Computation of regularized least squares estimates for the autoregression coefficients on the basis of inaccurate data. 91a:62254
- Zhu, Yan Tang *see* Hou, Yu Hua, 91f:62149
- Zinde-Walsh, Victoria (with Galbraith, John W.) Estimation of a linear regression model with stationary ARMA (p, q) errors. 91m:62169
- Ziv, Jacob *see* Merhav, Neri, 91i:62124

Items listed otherwise than by author

Séries chronologiques ★ Séries chronologiques. (French) [Time series] 91e:62243
Time series ★ Séries chronologiques. (French) [Time series] 91e:62243

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- Alzaid, Abdulhamid A. (with Al-Osh, M. A.) An integer-valued p th-order autoregressive structure (INAR(p)) process. 91b:60101
- Andil, Jih (with Gómez, María; Vega, Carlos) Stationary distribution of some nonlinear AR(1) processes. 91a:60100
- On nonlinear models for time series. 91f:60067
- Anderson, T. W. Second-order moments of a stationary Markov chain and some applications. 91a:60175
- Araa, Gishik Sequential estimation of the mean of a first-order autoregressive process. 91b:62081
- Babb, J. C. *see* McGregor, J. R., 91a:62225
- Baldessari, Bruno (with Vitale, Cosimo) Asymmetric filters in correlated ARIMA components. (Italian summary) 91d:62148
- Baltagi, Badi H. (with Li, Qi) A joint test for serial correlation and random individual effects. 91m:62188
- Basawa, I. V. (with Mallik, Ashim K.; McCormick, William P.; Taylor, Robert Lee) Bootstrapping explosive autoregressive processes. 91b:62040
- (with McCormick, William P.; Sriram, T. N.) Sequential estimation for dependent observations with an application to nonstandard autoregressive processes. 91j:62115
- *see also* Kim, Won Kyung; et al., 91b:62113
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- Blosq, Denis Modèle autorégressif hilbertien. Application à la prévision du comportement d'un processus à temps continu sur un intervalle de temps donné. (English summary) [Hilbertian autoregressive model: application to the prediction of the future behavior of a continuous-time process on a given time interval] 91a:62259
- Boudou, Alain (with Dauxois, Jacques) Analyses de mesures aléatoires; application aux séries stationnaires. (English summary) [Analysis of random measures; applications to stationary series] 91b:62117
- Burman, Prabir Rate of convergence of the spline estimates for Markov chains. 91d:62130
- Chen, Jia Xia Asymptotic distribution of sample covariance sequences in linear processes. (Chinese. English summary) 91b:62025
- Chen, Zhao Guo (with Ni, Jun Yuan) Subset regression time series and its modeling procedures. 91a:62161
- An extension of Lai and Wei's law of the iterated logarithm with applications to time series analysis and regression. 91e:60097
- Chiu, Shyan-Tsong On the asymptotic distributions of bandwidth estimates. 91b:62064
- Choi, Byoung Seon On the block LU decomposition of block Toeplitz matrices using the vector Yule-Walker equations. 91m:93035
- Crabbe, Leland E. (with Young, Brian B.) Model reduction via the internally balanced state space representation. 91g:93024
- Dahlhaus, Rainer (with Pötscher, B. M.) Convergence results for maximum likelihood type estimators in multivariate ARMA models. II. 91b:62176
- Darwich, Abdul Raouf Une loi du logarithme itéré pour les martingales locales multidimensionnelles et son application en régression linéaire stochastique. (English summary) [A law of iterated logarithm for cldag vector local martingales and its application in multiple linear regression] 91d:60073
- Dauxois, Jacques *see* Boudou, Alain, 91b:62117
- Dorogovtsev, A. Ya. Necessary and sufficient conditions for existence of stationary and periodic solutions of a stochastic difference equation in Hilbert space. 91d:60149
- Dufour, Jean-Marie Exact tests and confidence sets in linear regressions with autocorrelated errors. 91e:62279
- El-Fahham, M. M. *see* Hosni, A. K., 91m:62063
- Gerencsér, László On the martingale approximation of the estimation error of ARMA parameters. 91j:93114
- Ghazal, G. A. The exact moments of the two-stage least squares estimators in the general dynamic model. (Not in MR)
- Giannakis, Georgios B. On the identifiability of non-Gaussian ARMA models using cumulants. 91d:93073
- Glynn, Peter W. (with Iglehart, Donald L.) Simulation output analysis using standardized time series. 91b:65007
- Gómez, María *see* Andil, Jih; et al., 91a:60100
- Guo, Lei *see* Huang, Da Wei, 91b:93102
- Györfi, László (with Härdle, Wolfgang; Sarda, Pascal; Vieu, Philippe) ★ Nonparametric curve estimation from time series. 91a:62104
- Hallin, Marc (with Laforet, Annie; Méléard, Guy) Distribution-free tests against serial dependence: signed or unsigned ranks? (Not in MR)
- Hansen, Lars Peter A central-limit result for instrumental variables estimators of linear time series models. 91f:62171
- Härdle, Wolfgang *see* Györfi, László; et al., 91a:62104
- Harel, Michel (with Puri, Madan Lal) Weak convergence of serial rank statistics under dependence with applications in time series and Markov processes. 91b:60029
- (with Puri, Madan Lal) Théorème central limite de l'estimateur de densité et de l'erreur quadratique intégrée pour des variables aléatoires non stationnaires. (English summary) [Central limit theorem for the density estimator and integrated square error based on nonstationary random variables] 91b:62038
- He, Sheng Wu (with Wang, Jia Gang) On embedding a discrete-parameter ARMA model in a continuous-parameter ARMA model. 91a:60101
- Hosni, A. K. (with El-Fahham, M. M.) Efficiency of a sequential density estimator under autoregressive dependence model. 91m:62063
- Huang, Da Wei (with Guo, Lei) Estimation of nonstationary ARMAX models based on the Hannan-Rissanen method. 91b:93102
- Harvich, Clifford M. (with Shumway, Robert; Tsai, Chih-Ling) Improved estimators of Kullback-Leibler information for autoregressive model selection in small samples. 91b:62006
- (with Tsai, Chih-Ling) Model selection for least absolute deviations regression in small samples. 91b:62092
- Iglehart, Donald L. *see* Glynn, Peter W., 91b:65007
- Jacob, Christine Ergodicité dans les modèles autorégressifs périodiques. (English summary) [Ergodicity in periodic autoregressive models] 91d:60159
- Kanter, Marek Discrimination distance bounds and statistical applications. 91m:62041
- Kasitkaya, E. I. *see* Knapov, P. S., 91d:62151
- Kim, Won Kyung (with Billard, Lynne; Basawa, I. V.) Estimation for the first-order diagonal bilinear time series model. 91b:62113
- Knight, Keith Limit theory for autoregressive-parameter estimates in an infinite-variance random walk. (French summary) 91b:62042
- Knapov, P. S. (with Kasitkaya, E. I.) Asymptotic properties of least-square estimates of Gaussian regression for random fields. 91d:62151
- Koul, Hira L. (with Levental, Shlomo) Weak convergence of the residual empirical process in explosive autoregression. 91c:60039
- (with Pflog, Georg Ch.) Weakly adaptive estimators in explosive autoregression. 91b:62039
- Krishnaiah, Y. S. R. (with Rao, M. Sudhakara) A note on weak convergence of empirical processes based on mixing random variables subject to perturbation and scale factors. 91c:60040
- Kuang, Hong Hui (with Yuan, Zhen Dong) Remarks on the asymptotic normality of least squares estimator for system identification. (Chinese summary) 91b:62026
- Laforet, Annie *see* Hallin, Marc; et al., (Not in MR)
- Levental, Shlomo *see* Koul, Hira L., 91c:60039
- Li, Qi *see* Baltagi, Badi H., 91m:62188
- Lütkepohl, Helmut A note on the asymptotic distribution of impulse response functions of estimated VAR models with orthogonal residuals. 91b:62174
- Mallik, Ashim K. *see* Basawa, I. V.; et al., 91b:62040
- Mandarin, Joseph V. The trader's problem. 91c:90010
- McCormick, William P. *see* Basawa, I. V.; et al., 91b:62040 and 91b:62115
- McGregor, J. R. (with Babb, J. C.) Serially correlated differences in the paired comparison of time series. 91a:62225
- Méléard, Guy *see* Hallin, Marc; et al., (Not in MR)
- Mendel, Jerry M. *see* Swami, Ananthram, 91d:93072
- Michalek, Jiri Multidimensional random processes with normal covariances. 91g:60047
- Mignolet, Marc P. (with Spanos, Pol-T. D.) A direct determination of ARMA algorithms for the simulation of stationary random processes. 91b:65023
- Nelson, Daniel B. Conditional heteroskedasticity in asset returns: a new approach. (Not in MR)
- Ni, Jun Yuan *see* Chen, Zhao Guo, 91a:62161
- Novikov, A. A. On the first exit time of an autoregressive process beyond a level and an application to the "change-point" problem. 91b:60117
- Peiris, M. S. *see* Singh, Nannihal, 91b:62156
- Pflog, Georg Ch. *see* Koul, Hira L., 91b:62039
- Pieczynski, Wojciech Time series and counting estimation. (French summary) (Not in MR)
- Pollock, D. S. G. The misspecification of ARMA models. 91a:62257
- Pötscher, B. M. *see* Dahlhaus, Rainer, 91b:62176
- Puri, Madan Lal *see* Harel, Michel, 91b:60029 and 91b:62038
- Quah, Daany An improved note for nonnegative definite consistent covariance matrix estimation with heterogeneous dependent data. 91b:62286
- Rao, M. Sudhakara *see* Krishnaiah, Y. S. R., 91c:60040
- Robinson, P. M. Hypothesis testing in semiparametric and nonparametric models for econometric time series. 91b:62095
- Rosenblatt, Murray A note on maximum entropy. 91b:60082
- Sarda, Pascal *see* Györfi, László; et al., 91a:62104
- Schick, Anton On estimation in LAMN families when there are nuisance parameters present. 91b:62057
- Sen Roy, S. *see* Basu, A. K., 91d:60100
- Shimizu, Kunio (with Tanaka, Minoru²) Properties of the estimators of the autocorrelation coefficients for a stationary generalized lognormal process. 91c:62224
- Shumway, Robert *see* Harvich, Clifford M.; et al., 91b:62006
- Singh, Nannihal (with Peiris, M. S.) Optimal experimental designs for linear time series models with stochastic coefficients. 91b:62156
- Söderström, Torsten *see* Stoica, Petre, (Not in MR)
- Spanos, Pol-T. D. *see* Mignolet, Marc P., 91b:65023
- Sriram, T. N. *see* Basawa, I. V.; et al., 91b:62115
- Stein, Michael L. A comparison of generalized cross validation and modified maximum likelihood for estimating the parameters of a stochastic process. 91b:62129
- Stoica, Petre (with Söderström, Torsten) High-order Yule-Walker equations for estimating sinusoidal frequencies: the complete set of solutions. (French and German summaries) (Not in MR)
- Swami, Ananthram (with Mendel, Jerry M.) ARMA parameter estimation using only output cumulants. 91d:93072
- Tanaka, Minoru² *see* Shimizu, Kunio, 91c:62224
- Taylor, Robert Lee *see* Basawa, I. V.; et al., 91b:62040
- Terdik, Gy. An approximate Wiener-series expansion and a condition of stationarity for some quadratic time series models. 91g:60046
- Toyooka, Yasuyuki No estimation effect up to the second-order for the covariance parameter of GLSE and MLE in a regression with a general covariance structure. 91b:62090
- Tsai, Chih-Ling *see* Harvich, Clifford M., 91b:62092 and 91b:62006
- Tugnait, Jitendra K. Consistent order selection for noncausal autoregressive models via higher-order statistics. 91b:93089
- Vega, Carlos *see* Andil, Jih; et al., 91a:60100
- Vieu, Philippe *see* Györfi, László; et al., 91a:62104
- Vitale, Cosimo *see* Baldessari, Bruno, 91d:62148
- Wang, Jia Gang *see* He, Sheng Wu, 91a:60101
- Weiss, Andrew A. Least absolute error estimation in the presence of serial correlation. 91d:62105
- Yajima, Yoshihiro A central limit theorem of Fourier transforms of strongly dependent stationary processes. 91a:62258
- Yeh, Hsiao Chen One discrete time series model for fat-tailed integer random variables: Zipf process. 91b:60175
- Young, Brian B. *see* Crabbe, Leland E., 91g:93024

Yuan, Zhen Dong *see* Kuang, Hong Hai, 91h:62026

Zhilyakov, E. G. Likelihood equations for estimates for parameters that determine the covariance matrix of Gaussian sequences. 91b:62100

62M15 Spectral analysis

Anděl, Jiří Asymptotic theory of linear processes in a nonregular case. 91e:62244

Antoszewski, Z. The asymptotics of an estimate for the spectral function of a stationary sequence. 91m:62170

Beltrão, Kaizô I. *see* Hurvich, Clifford M., (Not in MR)

Carbon, Michel Sur la convergence uniforme presque complète de quelques paramètres fonctionnels dans le cadre de processus multivariés fortement mélangés et non nécessairement bornés. (English summary) [On the almost complete uniform convergence of some functional parameters of strongly mixing multivariate and not necessarily bounded processes] 91b:62194

Cheng, Qian Sheng The ranks of a class of correlation matrices in spectral estimation. (Chinese) (Not in MR)

Chin, Shean-Tsong Peak-insensitive parametric spectrum estimation. 91b:62126

Dahlhaus, Rainer Nonparametric spectral analysis with missing observations. 91b:62195

Dembo, Amir (with Mallows, Colin L.; Shepp, Larry A.) Embedding nonnegative definite Toeplitz matrices in nonnegative definite circulant matrices, with application to covariance estimation. 91b:62094

Demesh, N. N. Application of polynomial kernels to the estimation of the spectra of discrete stable stationary processes. (Russian) 91b:62198b

Hurvich, Clifford M. (with Beltrão, Kaizô I.) Cross-validated choice of a spectrum estimate and its connections with AIC. (Not in MR)

Isakova, G. A. Estimates for higher spectral densities of stationary processes with Gaussian smoothing. I. (Russian. English summary) 91b:62196a

— Estimates for higher spectral densities of stationary processes with Gaussian smoothing. II. (Russian. English summary) 91b:62196b

Khalilov, A. I. Asymptotic normality of lag window estimates. 91a:62255

Kim, Peter T. Estimation of product moments of a stationary stochastic process with application to estimation of cumulants and cumulant spectral densities. (French summary) 91a:62256

Kozhevnikova, I. A. *see* Zhurbenko, I. G., (91b:60002)

Lil, Keh Shin (with Rosenblatt, Murray) Asymptotic normality of cumulant spectral estimates. 91j:62137

Maekawa, Koichi *see* Taniguchi, Masanobu, 91i:62127

Mallows, Colin L. *see* Dembo, Amir, et al., 91b:62094

Moretini, Pedro A. *see* Toloi, Clélia M. C., (Not in MR)

Pogány, Tibor K. An approach to the sampling theorem for continuous time processes. 91f:62155

Pellock, D. S. G. The misspecification of ARMA models. 91a:62257

Rosenblatt, Murray Non-Gaussian sequences and deconvolution. (see 91j:60004)

— *see also* Lil, Keh Shin, 91j:62137

Sakaguchi, Fuminori *see* Sakai, Hideaki, 91b:62197

Sakai, Hideaki (with Sakaguchi, Fuminori) Simultaneous confidence bands for the spectral estimate of two-channel autoregressive processes. 91b:62197

Shepp, Larry A. *see* Dembo, Amir, et al., 91b:62094

Shishkov, B. B. Locally asymptotic normality for the parametric models of time series in the spectral domain. (Not in MR)

— Detection of signals on a background of interference in the spectral domain. (Not in MR)

Smith, T. E. Finite spectral analysis of multiregional time series. 91c:62085

Taniguchi, Masanobu (with Maekawa, Koichi) Asymptotic expansions of the distributions of statistics related to the spectral density matrix in multivariate time series and their applications. 91b:62127

Toloi, Clélia M. C. (with Moretini, Pedro A.) Spectral estimation for time series with amplitude modulated observations: a review. (Not in MR)

Xie, Zhong Jie The algorithm of maximum mutual information for model fitting and spectrum estimation. (see 91j:60004)

Yajima, Yoshihiro A central limit theorem of Fourier transforms of strongly dependent stationary processes. 91a:62258

You, Lin Feng The law of the iterated logarithm for spectral estimates of white noise. (Chinese. English summary) 91f:62156

Zayats, V. V. Refinement of a comparison inequality. (Russian) 91b:62198a

Zhurbenko, I. G. Robust spectral estimation. (see 91j:60004)
— (with Kozhevnikova, I. A.) Uniform convergence of spectral estimates with time shift. (Russian) (see 91j:60002)

Items with secondary classifications in 62M15

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Bouaziz, Malek Représentation intégrale de la trace d'un produit de matrices de Toeplitz finies et applications. (English summary) [Integral representation of the trace of a product of finite Toeplitz matrices and applications] 91j:42011

Celant, G. Some statistical problems associated with singular spatial stochastic processes. (Italian. English and French summaries) 91a:60131

Chen, Zhao Guo An extension of Lai and Wei's law of the iterated logarithm with applications to time series analysis and regression. 91e:60097

Cheng, Qian Sheng Maximum standardized cumulant deconvolution of non-Gaussian linear processes. 91m:62160

Ginoyan, M. S. Distribution of quadratic functionals of a stationary Gaussian process. (Russian. Armenian summary) 91j:60069

Hallin, Marc Fractions continues matricielles. (English summary) [Matrix continued fractions] 91b:65066

Hannan, E. J. (with Wahlberg, Bo) Convergence rates for inverse Toeplitz matrix forms. 91c:62234

Houdré, Christian Factorization algorithms and nonstationary Wiener filtering. 91m:62171

Jones, Lee Kenneth (with Trutner, V.) Corrigendum: "Computationally feasible high-resolution minimum-distance procedures which extend the maximum-entropy method"

[Inverse Problems 5 (1989), no. 5, 749–766; MR 90m:65047]. (Not in MR)

Kailath, Thomas *see* Lev-Ari, Hanoch; et al., 91h:94014

Kim, Hye-Jung R and S arrays approach for transfer function-noise model identification. (Not in MR)

Lev-Ari, Hanoch (with Parker, Sydney R.; Kailath, Thomas) Multidimensional maximum-entropy covariance extension. 91h:94014

Parker, Sydney R. *see* Lev-Ari, Hanoch; et al., 91h:94014

Rosenblatt, Murray A note on maximum entropy. 91f:60082

Shigeno, Hiroshi On a characterization of autoregressive moving average processes by the canonical structure between past and future spaces. 91a:62248

Shilo, L. V. The effect of the zeros in a spectrum on the behavior of the variance of an estimate of the arithmetic mean of a one-dimensional random field. (Russian) 91m:62172

Thomson, David J. Quadratic-inverse spectrum estimates: applications to palaeoclimatology. (Not in MR)

Trutner, V. *see* Jones, Lee Kenneth, (Not in MR)

Wahlberg, Bo *see* Hannan, E. J., 91c:62234

Zayats, V. V. Application of comparison theorems in a problem in mathematical statistics. (Russian) 91f:60076

62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

Baldessari, Bruno (with Vitale, Cosimo) Asymmetric filters in correlated ARIMA components. (Italian summary) 91d:62148

Bosq, Denis Modèle autorégressif hilbertien. Application à la prévision du comportement d'un processus à temps continu sur un intervalle de temps donné. (English summary)

[Hilbertian autoregressive model: application to the prediction of the future behavior of a continuous-time process on a given time interval] 91a:62259

Corsten, L. C. A. Interpolation and optimal linear prediction. 91c:62086a

— Corrigenda: "Interpolation and optimal linear prediction". 91c:62086b

Diao, Bai Qing *see* Zhang, Xiao Ling, (Not in MR)

Hantler, Sidney L. (with Rosberg, Zvi) Optimal estimation for an $M/M/c$ queue with time varying parameters. 91c:62087

Harrison, Jeff *see* West, Mike, 91d:62149

Houdré, Christian Factorization algorithms and nonstationary Wiener filtering. 91m:62171

Johansson, Björn Unbiased prediction in the Poisson and Yule processes. 91k:62095

Li, Ker-Chau (with Ylvisaker, Donald) Another look at adaptation on the average. 91c:62245

Mélaud, Guy Méthodes numériques dans la modélisation de séries chronologiques. (English summary) [Numerical methods in times-series modelling] (Not in MR)

Rao, B. Raja *see* Talwalkar, Sheela, (Not in MR)

Rosberg, Zvi *see* Hantler, Sidney L., 91c:62087

Stein, Michael L. Asymptotic distributions of minimum norm quadratic estimators of the covariance function of a Gaussian random field. 91c:62088

— Uniform asymptotic optimality of linear predictions of a random field using an incorrect second-order structure. 91b:62128

— A comparison of generalized cross validation and modified maximum likelihood for estimating the parameters of a stochastic process. 91b:62129

Sun, Lan Fen A simplex method for stepwise regression. (Chinese. English summary) 91b:62199

Talwalkar, Sheela (with Rao, B. Raja) Modified quadratic analysis in prediction with mixed binary and continuous explanatory variables. (Not in MR)

Vitale, Cosimo *see* Baldessari, Bruno, 91d:62148

West, Mike (with Harrison, Jeff) ★ Bayesian forecasting and dynamic models. 91d:62149

Ylvisaker, Donald *see* Li, Ker-Chau, 91c:62245

Zhang, Xiao Ling (with Diao, Bai Qing) A bivariate random dynamic model (DM) and its predictions. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 62M20

Ackerson, Lynn M. *see* Jones, Richard H., 91k:62091

Arjas, Elja Survival models and martingale dynamics. 91k:60052

Basu, A. K. (with Sen Roy, S.) On asymptotic prediction problems for autoregressive models with explosive and other roots. 91d:60100

Breckling, Jens ★ The analysis of directional time series: applications to wind speed and direction. 91f:62146

Cipra, Tomáš Some problems of exponential smoothing. (Russian and Czech summaries) 91c:62081

Foutz, Robert V. *see* Jensen, D. R., 91h:60059

Girón, F. J. Mixtures of normal distributions with applications to complex statistical problems. (Spanish. English summary) (Not in MR)

Hofri, Micha A feedback-less distributed broadcast algorithm for multihop radio networks with time-varying structure. 91b:68013

Hurvich, Clifford M. (with Tsai, Chih-Ling) Regression and time series model selection in small samples. 91c:62083

Jensen, D. R. (with Foutz, Robert V.) The structure and analysis of spherical time-dependent processes. 91h:60059

Jones, Richard H. (with Ackerson, Lynn M.) Serial correlation in unequally spaced longitudinal data. 91k:62091

Moklyachuk, M. P. Minimax extrapolation and autoregression-moving average processes. 91a:60111

Piccioni, Mauro On the asymptotic behaviour of the predictor of a binary Markov chain. (Italian summary) 91m:60130

Pogány, Tibor K. An approach to the sampling theorem for continuous time processes. 91f:62155

Pourahmadi, Mohsen On the convergence of finite linear predictors of stationary processes. 91h:60036

Sen Roy, S. *see* Basu, A. K., 91d:60100

Saktham, Shashikala Kriging with perturbed variogram. 91e:62248

Tsai, Chih-Ling *see* Hurvich, Clifford M., 91c:62083

62M30 Spatial processes

- Baczkowski, A. J. (with Mardia, K. V.) A test of spatial symmetry with general application. 91b:62083
- Berman, Mark (with Diggle, Peter J.) Estimating weighted integrals of the second-order intensity of a spatial point process. 91c:62089
- Diggle, Peter J. see Berman, Mark, 91c:62089
- (Griffith, Daniel A.) see Spatial statistics: past, present, and future, 91c:62247
- Koop, J. C. Systematic sampling of two-dimensional surfaces and related problems. (Not in MR)
- Mardia, K. V. see Baczkowski, A. J., 91b:62083
- Olsson, Jonny ★ Statistics in perimetry. (Not in MR)
- Watkins, A. J. On polynomial expansions for likelihoods of spatial data with finite range correlation function. 91c:62246

Items listed otherwise than by author

Spatial statistics: past, present, and future ★ Spatial statistics: past, present, and future.

91c:62247

Symposium:

Spatial Statistics: Past, Present, and Future ★ Spatial statistics: past, present, and future. 91c:62247

Syracuse, NY ★ Spatial statistics: past, present, and future. 91c:62247

Items with secondary classifications in 62M30

- Brillinger, David R. (with Downing, Kenneth H.; Glaeser, Robert M.) Some statistical aspects of low-dose electron imaging of crystals. 91b:62090
- Celant, G. Some statistical problems associated with singular spatial stochastic processes. (Italian. English and French summaries) 91a:60131
- Christakos, George A Bayesian/maximum-entropy view to the spatial estimation problem. 91g:60009
- Downing, Kenneth H. see Brillinger, David R.; et al., 91b:62090
- Dryden, I. L. see Mardia, K. V., 91c:62273
- Glaeser, Robert M. see Brillinger, David R.; et al., 91b:62090
- Gundersen, H. J. G. see Jensen, E. B.; et al., 91a:60036
- Harville, David A. see Zimmerman, Dale L., 91a:62177
- Janžura, Martin Local asymptotic normality for Gibbs random fields. 91c:60065
- Jensen, E. B. (with Kieu, K.; Gundersen, H. J. G.) Stereological estimation of second- and higher-order properties of random sets. 91a:60036
- Kaputinskas, Aloyzas Invertibility of an autoregressive space-time field into an equivalent moving average field in the space \mathbb{R}^1 . (Russian. English and Lithuanian summaries) (Not in MR)
- Replacing autoregressive space-time fields by equivalent moving average fields in the spaces \mathbb{R}^2 and \mathbb{R}^3 . (Russian. English and Lithuanian summaries) (Not in MR)
- Kieu, K. see Jensen, E. B.; et al., 91a:60036
- Mardia, K. V. (with Dryden, I. L.) The statistical analysis of shape data. 91c:62273
- Shape analysis of triangles through directional techniques. 91c:62274
- Martin, Richard John Information loss due to incomplete data from a spatial Gaussian one-parameter first-order conditional process. 91a:62012
- Mitchell, Toby J. see Sacks, Jerome; et al., 91a:62213
- Møller, Jesper On the rate of convergence of spatial birth-and-death processes. 91c:60150
- Penttinen, A. (with Stoyan, Dietrich) Statistical analysis for a class of line segment processes. 91c:60151
- Sacks, Jerome (with Welch, William J.; Mitchell, Toby J.; Wynn, Henry P.) Design and analysis of computer experiments. 91a:62213
- Stoyan, Dietrich see Penttinen, A., 91c:60151
- Vaillant, Jean Spatial-temporal models for counting processes in ecology. (French summary) 91c:92091
- Welch, William J. see Sacks, Jerome; et al., 91a:62213
- Wynn, Henry P. see Sacks, Jerome; et al., 91a:62213
- Zimmerman, Dale L. (with Harville, David A.) On the unbiasedness of the Papadakis estimator and other nonlinear estimators of treatment contrasts in field-plot experiments. 91a:62177

62M40 Random fields

- Kasitskaya, E. I. see Knopov, P. S., 91d:62151
- Knopov, P. S. (with Kasitskaya, E. I.) Asymptotic properties of least-square estimates of Gaussian regression for random fields. 91d:62151
- The problem of estimating a linear functional from an observation of a realization of a random field. (Russian. English summary) 91d:62150
- Shila, L. V. The effect of the zeros in a spectrum on the behavior of the variance of an estimate of the arithmetic mean of a one-dimensional random field. (Russian) 91m:62172
- Sukhatme, Shashikala Kriging with perturbed variogram. 91c:62248

Items with secondary classifications in 62M40

- Alekseev, V. G. Estimates for the area of the correlation domain of a homogeneous Gaussian random field. 91b:62078
- Dietrich, C. R. (with Osborne, M. R.) Estimation of covariance parameters in Kriging via restricted maximum likelihood. (Not in MR)
- Lebedev, V. S. Minimax estimation of linear functionals in two-dimensional noise. 91c:62092
- Osborne, M. R. see Dietrich, C. R., (Not in MR)

62M99 None of the above, but in this section

- Andersen, Per Kragh (with Borgan, Ørnulf; Gill, Richard D.; Keiding, Niels) Censoring, truncation and filtering in statistical models based on counting processes. 91b:62084
- Borgan, Ørnulf see Andersen, Per Kragh; et al., 91b:62084

- de Cambry, Olivier (with Genon-Catalot, Valentine) Détection de rupture à l'aide d'algorithmes stochastiques. (English summary) [Detection of a change in distribution by means of stochastic algorithms] 91b:62200
- Genon-Catalot, Valentine see de Cambry, Olivier, 91b:62200
- Gill, Richard D. see Andersen, Per Kragh; et al., 91b:62084
- Goldman, David M. (with Meketon, Marc; Schruben, Lee) Properties of standardized time series weighted area variance estimators. (Not in MR)
- Grenander, U. Abstract inference in image processing. (see 91j:60004)
- Keiding, Niels see Andersen, Per Kragh; et al., 91b:62084
- Khalafina, N. M. Detection of outliers by the Chauvenet method in observations connected in a homogeneous Markov chain. (Russian) 91c:62249
- Küchler, Uwe (with Lauritzen, Steffen L.) Exponential families, extreme point models and minimal space-time invariant functions for stochastic processes with stationary and independent increments. 91b:62201
- Lappo, P. M. Detection of multiple change-points in some binary sequences. (Russian) (Not in MR)
- Lauritzen, Steffen L. see Küchler, Uwe, 91b:62201
- Mehran, Farhad Analysis of discrete longitudinal data: infinite-lag Markov models. (see 91i:62004)
- Meketon, Marc see Goldman, David M.; et al., (Not in MR)
- Robinson, G. K. A role for variograms. 91m:62173
- Schruben, Lee see Goldman, David M.; et al., (Not in MR)

Items with secondary classifications in 62M99

- Bare, V. M. A criterion for randomness, based on sign differences for time series with a finite set of admissible values of the variable. (Russian) 91g:62031
- Coquet, François Modèles statistiques et systèmes standards de processus de vraisemblance. (English summary) [Statistical models and standard systems of likelihood processes] 91d:62093
- Processus de Hellinger des processus ponctuels. (English summary) [Hellinger processes of point processes] 91g:60041
- D'Epifanio, Giulio On the construction of differentiable statistical estimators for the probability density function. (Italian. English summary) 91c:62016
- Gross, Shulamith see Huber-Carol, Catherine, (91j:60003)
- Guo, Lei see Niedzwiecki, Maciej, 91b:93165
- Gutman, Michael see Merhar, Neri; et al., 91h:94018
- Habib, Muhammad K. (with Thavaneswaran, A.) Inference for stochastic neuronal models. 91c:92018
- Huber-Carol, Catherine (with Gross, Shulamith) Comparison of Cox's and maximum likelihood estimates for matched experiments in survival data with censoring. (see 91j:60003)
- Hutton, Jane L. Nonnegative time series models for dry river flow. 91a:86003
- Kliokys, Edvardas see Nemura, Antanas, 91j:93002
- Manchester, Lise A technique for comparing graphical methods. (French summary) (Not in MR)
- Merhar, Neri (with Gutman, Michael; Ziv, Jacob) On the estimation of the order of a Markov chain and universal data compression. 91b:94018
- Mokkadem, Abdelkader Propriétés de mélange des processus autorégressifs polynomiaux. (English summary) [Mixing properties of polynomial autoregressive processes] 91b:60171
- Möller, Olaf A fast statistical procedure solving Wickell's corpuscle problem. (German and Russian summaries) 91d:60027
- Nemura, Antanas (with Kliokys, Edvardas) ★ Оценки параметров в состоянии системы. (Russian) [Estimation of the parameters and the state of systems] 91j:93002
- Niedzwiecki, Maciej (with Guo, Lei) Nonasymptotic results for finite-memory WLS filters. 91b:93165
- Nieuwenhuis, Gert (with Ruymgaart, Frits H.) Some stochastic inequalities and asymptotic normality of serial rank statistics in general linear processes. 91b:60034
- Ohser, Joachim see Stoyan, Dietrich; et al., 91j:60019
- Ott, Pieter W. On Wiener-Granger causality, information and canonical correlation. (Not in MR)
- Poznyak, A. S. (with Tikhonov, S. N.) Extension of a class of nonlinear residual transformations in recursion algorithms for parametric estimation. 91j:93130
- Richman, David R. (with Sharp, W. E.) A method for determining the reversibility of a Markov sequence. 91g:86010
- Robson, Douglas S. see Rubin, Gail, 91b:60263
- Rubin, Gail (with Robson, Douglas S.) A single server queue with random arrivals and balking: confidence interval estimation. 91b:60263
- Ruymgaart, Frits H. see Nieuwenhuis, Gert, 91b:60034
- Sharp, W. E. see Richman, David R., 91g:86010
- Stoyan, Dietrich (with von Wolfersdorf, Lothar; Ohser, Joachim) Stereological problems for spherical particles—second-order theory. 91j:60019
- Thavaneswaran, A. see Habib, Muhammad K., 91c:92018
- Tikhonov, S. N. see Poznyak, A. S., 91j:93130
- Vajda, Igor Distances and discrimination rates for stochastic processes. 91j:62007
- von Wolfersdorf, Lothar see Stoyan, Dietrich; et al., 91j:60019
- Wynn, Henry P. Observation and experimental design for autocorrelated processes. (see 91j:60004)
- Ziv, Jacob Compression, tests for randomness and estimating the statistical model of an individual sequence. 91h:94019
- see also Merhar, Neri; et al., 91h:94018

62Nxx Engineering statistics

62N05 Reliability and life testing [see also 90B25]

- Abd-Alla, A. A. see Abu-Salih, M. S.; et al., (Not in MR)
- Abd-El-Hakim, Nagi S. see Al-Hussaini, Essam K., 91c:62090
- Abouamoh, A. M. (with Ahmed, Abdul-Hadi Nabih) Two notions of positive ageing based on stochastic dominance. 91b:62130

- (with Ahmed, Abdul-Hadi Nabih; Khalique, A.) Partial orderings of life distributions based on ageing properties. **91m:62174**
- On the mean remaining life of discrete random variables. (Not in MR)
- Abu-Salih, M. S. (with Hendi, M. M. I.; Abd-Alla, A. A.) Confidence bounds of reliability of series system with two components each having two parameter exponential distribution life data. (Not in MR)
- Adams, Geoff (with Watson, Ray) A discrete time parametric model for the analysis of failure time data. **91d:62152**
- Ahmad, I. A. (with Kochar, Subhash C.) Testing whether F is more IFR than G . **91b:62202**
- Ahmad, S. Hasanuddin A bivariate distribution with Weibull margins. (Not in MR)
- Ahmed, Abdul-Hadi Nabih The generalized HNBUE (HNWUE) class of life distributions. (German summary) **91f:62157**
- see also Abouammoh, A. M., **91f:62130** and **91m:62174**
- Alam, M. S. (with Basu, Asit P.) Two-stage testing whether new is better than used. **91f:62131**
- Al-Hussaini, Essam K. (with Abd-El-Hakim, Nagi S.) Failure rate of the inverse Gaussian-Weibull mixture model. **91c:62090**
- Al-Osh, M. A. (with Alzaid, Abdulhamid A.) On the increasing failure rate criteria. **91c:62250**
- Aly, Emad-Elidin A. A. On testing exponentiality against IFRA alternatives. **91c:62251**
- Testing exponentiality against IFRA or NBU alternatives with type II censored data. **91m:62175**
- Alzaid, Abdulhamid A. see Al-Osh, M. A., **91c:62250**
- Antoniadis, Anestis (with Grégoire, Gérard) Penalized likelihood estimation for rates with censored survival data. **91c:62252**
- Ashour, Samir Kamel Multi-censored sampling in mixed Weibull distribution. (Not in MR)
- Averous, Jean (with Meste, Michel) Tailweight and life distributions. **91a:62260**
- Bagai, Isha (with Deshpande, Jayant V.; Kochar, Subhash C.) Distribution free tests for stochastic ordering in the competing risks model. **91a:62261**
- see also Jain, Kanchan; et al., **91b:62205** and **Deshpande, Jayant V.; et al., 91f:62159**
- Bagdonavichus, Viliyandas Accelerated life models when the stress is not constant. **91j:62138**
- Bai, Do Sun (with Kim, Myung Soo; Lee, Sang Hyuk) Optimum simple step-stress accelerated life tests under periodic observation. **91f:62158**
- Bandyopadhyay, Dipankar (with Basu, Asit P.) On a generalization of a model by Lindley and Singpurwalla. **91a:62262**
- (with Basu, Asit P.) A class of tests for exponentiality against decreasing mean residual life alternatives. **91j:62139**
- Basu, Asit P. see Bandyopadhyay, Dipankar, **91a:62262**; Alam, M. S., **91f:62131**; Bandyopadhyay, Dipankar, **91j:62139** and Whitmore, G. Alex, **91f:62134**
- Bhattacharya, Samir K. Reliability analysis. I. Reliability models. (Not in MR)
- Reliability analysis. II. Reliability inference. (Not in MR)
- (with Kumar, Santosh²) Discrete life testing. (Not in MR)
- (with Tyagi, Ravinder K.) Bayesian reliability analysis based on first few observations from the two-parameter exponential distribution. (Not in MR)
- see also Tyagi, Ravinder K., **91j:62142**
- Block, Henry W. (with Griffith, William S.; Savits, Thomas H.) L -superadditive structure functions. **91c:62253**
- see also El-Newehi, Emad, **91c:62254**
- Boyles, R. A. see Renan, D. M.; et al., **91m:62179**
- Brenner, Stephan see Janssen, Arnold, (Not in MR)
- Cao, Jin Hua see Wang, Yue Dong, **91c:62263**
- Chang, Myron N. (with Rao, Pejavir Vishwamver) Berry-Esseen bound for the Kaplan-Meier estimator. **91a:62263**
- Chao, Min Te (with Fu, James C.) A limit theorem of certain repairable systems. **91a:62264**
- Chen, Keh-Wei (with Papadopoulos, Alex S.) Bayesian analysis of system reliability using the Burr distribution. (Not in MR)
- (with Papadopoulos, Alex S.) Bayesian system reliability of the generalized exponential model. (Italian summary) (Not in MR)
- Chen, Qing Hua² Bayes estimation of reliability for a series stress-strength system in the BVE case. (Chinese. English summary) **91c:62091**
- Chen, Shi Ji A note on the Bayesian approach to an accelerated life test. (Chinese. English summary) **91d:62153**
- Cheng, Kan (with He, Zong Fu) Proximity between life distributions and exponential distributions. I, II. **91m:62176**
- Christensen, Ronald see Johnson, Wesley, **91b:62086**
- Crowley, John J. see Liu, P. Y.; et al., **91b:62087**
- DasGupta, Anirban (with Dey, Dipak K.; Gelfand, Alan E.) A new inadmissibility theorem with applications to estimation of survival and hazard rates and means in the scale parameter family. **91c:62255**
- Deshpande, Jayant V. (with Singh, Harshinder; Bagai, Isha; Jain, Kanchan) Some partial orders describing positive ageing. **91f:62159**
- see also Bagai, Isha; et al., **91a:62261**
- Dey, Dipak K. (with Liu, Pei-San Liao) Estimation of parameters and reliability from generalized life models. **91f:62132**
- see also DasGupta, Anirban; et al., **91c:62255**
- Ebrahimi, Nader (with Habibullah, Mohamed) Testing whether the survival distribution is new better than used of specified age. **91b:62085**
- see also Whitmore, G. Alex, **91f:62134**
- El-Newehi, Emad (with Meng, Fan C.) The number of critical connection vectors of L -superadditive structure functions. Comment on: "L-superadditive structure functions" [Adv. in Appl. Probab. 21 (1989), no. 4, 919–929; MR 91c:62253] by H. W. Block, W. S. Griffith and T. H. Savits. **91c:62254**
- Fan, Da Yin Lower confidence limits for pass-fail components and reliability of series systems, taking into account the probability of correct inspection. (Chinese. English summary) **91j:62140**
- Fu, James C. see Chao, Min Te, **91a:62264**
- Gaver, D. P., Jr. (with Jacobs, Patricia A.) System availability: time dependence and statistical inference by (semi) nonparametric methods. **91b:62203**
- Geisser, Seymour On hierarchical Bayes procedures for predicting simple exponential survival. (French summary) **91d:62154**
- Gelfand, Alan E. see DasGupta, Anirban; et al., **91c:62255**
- Ghosal, J. K. Deficiency of the MLE of a smooth survival function under the proportional hazard model. **91f:62160**
- Ghosh, Malay (with Mantelle, Lily Llorens) Unbiased estimation for two parameter exponentials under type I censoring with replacement. **91a:62265**
- Goetghebuer, Els (with Ryan, Louise) A modified log rank test for competing risks with missing failure type. **91a:62266**
- Gondie, I. B. J. A likelihood-based stopping rule for recapture debugging. (Not in MR)
- Grégoire, Gérard see Antoniadis, Anestis, **91c:62252**
- Griffith, William S. see Block, Henry W.; et al., **91c:62253** and El-Newehi, Emad, **91c:62254**
- Gross, Shulamith see Huber-Carol, Catherine, (91j:60003)
- Gupta, Pushpa Lata (with Gupta, Rameshwar D.) A bivariate random environmental stress model. **91b:62204**
- Gupta, Ramesh C. (with Kirmani, S. N. U. A.) On predicting repair times in a minimal repair process. **91a:62267**
- Gupta, Rameshwar D. see Gupta, Pushpa Lata, **91b:62204**
- Habibullah, Mohamed see Ebrahimi, Nader, **91b:62085**
- Harrell, Frank E., Jr. see Herndon, James E., II, (Not in MR)
- He, Zong Fu see Cheng, Kan, **91m:62176**
- Hendi, M. M. I. see Abu-Salih, M. S.; et al., (Not in MR)
- Herndon, James E., II (with Harrell, Frank E., Jr.) The restricted cubic spline hazard model. (Not in MR)
- Hitha, N. (with Unnikrishnan Nair, N.) Characterization of some discrete models by properties of residual life function. **91c:62256**
- Horváth, Lajos see Yandell, Brian S., **91b:62211**
- Huber-Carol, Catherine (with Gross, Shulamith) Comparison of Cox's and maximum likelihood estimates for matched experiments in survival data with censoring. (see 91j:60003)
- Jacobs, Patricia A. see Gaver, D. P., Jr., **91b:62203**
- Jain, Kanchan (with Singh, Harshinder; Bagai, Isha) Relations for reliability measures of weighted distributions. **91b:62205**
- see also Deshpande, Jayant V.; et al., **91f:62159**
- Janssen, Arnold (with Brenner, Stephan) Monte Carlo results for conditional survival tests under randomly censored data. (Not in MR)
- Joaq-Dev, Kumar (with Proschan, Frank) A covariance inequality for coherent structures. **91f:62133**
- Johnson, Wesley (with Christensen, Ronald) Nonparametric Bayesian analysis of the accelerated failure time model. **91b:62086**
- Khalique, A. see Abouammoh, A. M.; et al., **91m:62174**
- Kim, Myung Soo see Bai, Do Sun; et al., **91f:62158**
- Kim, Sun Ho² see Yum, Bong-Jin, **91j:62143**
- Kirmani, S. N. U. A. see Gupta, Ramesh C., **91a:62267**
- Klaassen, Chris A. J. Efficient estimation in the Cox model for survival data. **91a:62268**
- Klein, John P. see Lee, Sukhoon, (Not in MR)
- Kochar, Subhash C. see Bagai, Isha; et al., **91a:62261** and Ahmad, I. A., **91b:62202**
- Kumar, Santosh² see Bhattacharya, Samir K., (Not in MR)
- Kupka, Joseph (with Loo, Sonny) The hazard and vitality measures of ageing. **91a:62269**
- Kyriakoussis, A. (with Papageorgiou, H.) On characterization of power series distributions by a marginal distribution and a regression function. **91b:62206**
- Lánáská, Viera On the effect of misspecification in Cox's regression model. **91g:62079**
- Lee, Mei Ling Ting see Whitmore, G. Alex, (Not in MR)
- Lee, Sang Hyuk see Bai, Do Sun; et al., **91f:62158**
- Lee, Sukhoon (with Klein, John P.) Bivariate models with a random environmental factor. (Not in MR)
- Lingappala, Grl S. Prediction in life tests based on exponential model when outliers are present. (Italian summary) (Not in MR)
- Liu, P. Y. (with Voelkel, J.; Crowley, John J.) On the ratio of hazard functions in the presence of a nuisance covariate. **91b:62087**
- Liu, Pei-San Liao see Dey, Dipak K., **91f:62132**
- Loo, Sonny see Kupka, Joseph, **91a:62269**
- Mantelle, Lily Llorens see Ghosh, Malay, **91a:62265**
- Mazars, N. A unified theory for coherent systems in reliability. I. A generalization for some classic theory: monotone binary coherent systems. **91b:62207**
- A unified theory for coherent systems in reliability. II. A unified viewpoint on multinary coherent systems through monotone coherence and relevance. **91b:62208**
- Meng, Fan C. see El-Newehi, Emad, **91c:62254**
- Meste, Michel see Averous, Jean, **91a:62260**
- Miescke, Klaus J. Optimum replacement policies for using the most reliable components. **91m:62177**
- Morales González, Domingo see Quesada Paloma, Vicente; et al., **91c:62259**
- Mukherjee, S. P. (with Roy, Dilip) Properties of classes of probability distributions based on the concept of reciprocal coordinate subvariant. **91c:62257**
- Natvig, Bent On information-based minimal repair and the reduction in remaining system lifetime due to the failure of a specific module. **91c:62178**
- Nguyen, Hung T. see Pham Dinh Tuan, **91c:62258**
- Nigm, A. M. An informative Bayesian prediction for the Weibull lifetime distribution. (Not in MR)
- Prediction bounds using type I censoring for the Weibull distribution. **91b:62088**
- Papadopoulos, Alex S. see Chen, Keh-Wei, (Not in MR) and (Not in MR)
- Papageorgiou, H. see Kyriakoussis, A., **91b:62206**
- Pardo, Leandro see Quesada Paloma, Vicente; et al., **91c:62259**
- Pham Dinh Tuan (with Nguyen, Hung T.) Strong consistency of the maximum likelihood estimators in the change-point hazard rate model. **91c:62258**
- Popescu, Ileana (with Văduva, I.) An optimum plan of reliability control. (German summary) **91b:62209**
- Proschan, Frank see Joag-Dev, Kumar, **91f:62133**
- Quesada Paloma, Vicente (with Pardo, Leandro; Morales González, Domingo) Sequential estimation of survival functions with neutral-to-the-right priors. (Spanish. English

- summary) 91b:62259
- Rachev, Svetlozar T. (with Yakovlev, A. Yu.) Some problems of the competing risks theory. 91a:62270
- Rao, B. Raja A simple time to tumor distribution and the "setting the clock back to zero" property. 91g:62080
- (with Talwalker, Sheela) "Setting the clock back to zero" property of a family of life distributions. 91c:62092
- Rao, Pejavar Vishwamver see Chang, Myron N., 91a:62263
- Ratani, R. T. see Travadi, R. J., (Not in MR)
- Reneau, D. M. (with Samaniego, Francisco J.; Boyles, R. A.) Estimating a survival curve when new is better than used with respect to a distinguished set. 91m:62179
- Ridder, Geert The nonparametric identification of generalized accelerated failure-time models. 91j:62141
- Roy, Dilip see Mukherjee, S. P., 91c:62257
- Ryan, Louise see Goetghebuer, Ela, 91a:62266
- Samaniego, Francisco J. see Reneau, D. M.; et al., 91m:62179
- Sarchuk, V. P. ★ Байесовские методы статистического оценивания. (Russian) [Bayesian methods for statistical estimation] 91a:62271
- Savits, Thomas H. see Block, Henry W.; et al., 91c:62253 and El-Newehi, Emad, 91c:62254
- Schemper, Michael The explained variation in proportional hazards regression. 91a:62272
- Shahian, S. A. A note on the Bayes estimation of reliability for the inverse Gaussian distribution. (Not in MR)
- Shaked, Moshe (with Singpurwalla, Nozer D.) A Bayesian approach for quantile and response probability estimation with applications to reliability. 91a:62273
- Shalaby, Osman Aly Estimation from accelerated life testing using interval data. (Not in MR)
- Singh, Harshinder see Jain, Kanchan; et al., 91b:62205 and Deshpande, Jayant V.; et al., 91f:62159
- Singpurwalla, Nozer D. Preposterior analysis in software testing. (see 91b:62004)
- see also Shaked, Moshe, 91a:62273
- Slaha, Sneesh Kumar Bayesian inference about the prediction/credible intervals and reliability function for lognormal distribution. 91a:62274
- Solomon, Frederick Residual lifetimes in random parallel systems. 91c:62260
- Sonn, Andrew P. Applications of Schur theory to reliability inference for k of n systems. 91b:62210
- Spizzichino, F. Bayesian analysis for two-components systems and a conjugate family of bivariate densities. 91m:62180
- Talwalker, Sheela see Rao, B. Raja, 91c:62092
- Tatayan, K. R. A generalization of a theorem of V. A. Koshanov. (Russian) (see 91b:62003)
- Travadi, R. J. (with Ratani, R. T.) On estimation of reliability function for IG distribution with known CV. (Not in MR)
- Turrero, Agustín A matrix measure for the comparison of censored experiments. (Spanish) 91c:62261
- Tyagi, Ravinder K. (with Bhattacharya, Samir K.) A note on the MVU estimation of reliability for the Maxwell failure distribution. 91j:62142
- see also Bhattacharya, Samir K., (Not in MR)
- Unnikrishnan Nair, N. see Hitha, N., 91c:62256
- Vádeva, I. see Popescu, Ilana, 91b:62209
- Villén-Altamirano, José Confidence intervals for reliability functions of an exponential distribution under random censorship. (Not in MR)
- Voelkel, J. see Liu, P. Y.; et al., 91b:62087
- Volf, Petr An identification of proportionality of hazards for nonhomogeneous lifetime data. 91c:62262
- Wang, Yue Dong (with Cao, Jin Hua) New kinds of multidimensional IFR distribution. 91c:62263
- Watson, Ray see Adams, Geoff, 91d:62152
- Whitmore, G. Alex A comment: "On the reliability of stochastic systems" [Statist. Probab. Lett. 1 (1983), no. 5, 265–267; MR 84k:62142] by A. P. Basu and N. Ebrahimi. 91b:62134
- (with Lee, Mei Ling Ting) A multivariate survival distribution generated by an inverse Gaussian mixture of exponentials. (Not in MR)
- Xie, Min Some total time on test quantities useful for testing constant against bathtub-shaped failure rate distributions. 91b:62089
- Yakovlev, A. Yu. see Rachev, Svetlozar T., 91a:62270
- Yandell, Brian S. (with Horváth, Lajos) Bootstrapped multi-dimensional product limit process. 91b:62211
- Yun, Bong-Jin (with Kim, Sun Ho) Development of life-test sampling plans for exponential distributions based on accelerated life testing. 91j:62143
- Zhegrli, T. I. Models of distributions with randomized failure rate. (Russian) 91b:62212
- Items with secondary classifications in 62N05
- Abd-El-Hakim, Nagi S. see Al-Hussaini, Essam K., (Not in MR)
- Abouammoh, A. M. see Ahmed, Abdul-Hadi Nabih, (Not in MR)
- Ahmed, Abdul-Hadi Nabih (with Abouammoh, A. M.) On closure under formation of coherent systems. (Not in MR)
- Ahsanullah, M. (with Houchens, Robert L.) A note on record values from a Pareto distribution. 91a:62117
- Al-Hemyari, Z. A. see Kambo, N. S.; et al., 91c:62022
- Al-Hussaini, Essam K. (with Abd-El-Hakim, Nagi S.) Estimation of parameters of the inverse Gaussian-Weibull mixture model. (Not in MR)
- Al-Osh, M. A. see Alzaid, Abdulhamid A., 91b:62088
- Aly, Emad-Elidin A. On some tests for exponentiality against IFR alternatives. 91b:62086
- Alzaid, Abdulhamid A. (with Al-Osh, M. A.) Ordering probability distributions by tail behavior. 91b:62088
- Andersen, Per Kragh (with Borgan, Ørnulf; Gill, Richard D.; Keiding, Niels) Censoring, truncation and filtering in statistical models based on counting processes. 91b:62084
- Arjas, Elja (with Haara, Pentti) On the exponentiality of total hazards before failure. (see 91j:60003)
- Survival models and martingale dynamics. 91b:60052
- Assaf, David (with Shanthikumar, J. George) Optimal spares provisioning when component price is changing. 91b:90092
- Bhattacharjee, Manish C. (with Sethuraman, Jayaram) Families of life distributions characterized by two moments. 91b:62022
- Bhattacharya, Samir K. (with Ramkaran) A generalization of the some-times-pool estimator of the mean life. 91b:62048
- Borgan, Ørnulf see Andersen, Per Kragh; et al., 91b:62084
- Bueno, Vanderlei C. Generalizing the importance of components for multistate monotone systems. 91c:60113
- Chamberlin, S. R. (with Sprott, D. A.) Linear systems of pivots and associated pivotal likelihoods with applications. 91c:62029
- Chandra, Nimal Kumar (with Chaudhuri, Arijit Ray) On the efficiency of a testimator for the Weibull shape parameter. 91b:62049
- Chaudhuri, Arijit Ray see Chandra, Nimal Kumar, 91b:62049
- Chen, Ping* Nonparametric Bayesian estimation of survival functions with doubly censored data. (Chinese. English summary) 91b:62038
- Cheng, Kuang Fu (with Hsiung, Chin Yüan) Testing equality of two Weibull distributions with jointly type II censored samples. 91b:62081
- Çinlar, Erhan (with Shaked, Moshe; Shanthikumar, J. George) On lifetimes influenced by a common environment. 91b:60151
- Cohen, A. Clifford (with Whitten, Betty Jones) ★ Parameter estimation in reliability and life span models. 91b:62051
- Córga, Sándor Testing for the proportional hazards model of random censorship. 91c:62114
- Dasu, Tamraparni see Oakes, David, 91b:62018
- Dattatreya Rao, A. V. (with Narasimham, V. L.) Linear estimation in double Weibull distribution. (Not in MR)
- Dikta, Gerhard (with Kurtz, Birgit; Stute, Winfried) Sequential fixed-width confidence bands for distribution functions under random censoring. 91a:62218
- Dong, Yun He Determining the lower confidence limit of the shape parameter m of the Weibull distribution by using the $R(0, 1)$ distribution. (Not in MR)
- Ebrahimi, Nader (with Soofi, Ehsan S.) Relative information loss under type II censored exponential data. 91b:62012
- Ordering of repairable systems. 91c:60252
- Efron, Bradley (with Johnstone, Iain M.) Fisher's information in terms of the hazard rate. 91b:62027
- Perentes, K. K. Minimum variance unbiased estimation in doubly type II censored samples from families of distributions involving two truncation parameters. 91b:62043
- Finelli, George B. see Lee, Larry, 91b:62088
- Gadag, V. G. (with Naik-Nimbalkar, U. V.; Rajarshi, M. B.) Ageing properties of the time to extinction of a multi-type branching process. 91b:60143
- Genest, Christian (with Rivest, Louis-Paul) A characterization of Gumbel's family of extreme value distributions. 91b:62029
- Genis, Ya. G. Two-sided estimates for the reliability of a renewable system under a nonstationary operational regime. (Not in MR)
- Ghitany, M. E. (with Laverty, W. H.) Bounds for the mean square error of reliability estimation from gamma distribution in presence of an outlier observation. 91b:62052
- Estimation of the scale parameter of gamma model in the presence of outlier observations. 91b:62030
- Ghoral, J. K. Nonparametric Bayesian estimation of a survival function under the proportional hazard model. 91d:62041
- Gijbels, Irene (with Veraverbeke, Noël) Sequential fixed-width confidence intervals for quantiles in the presence of censoring. 91b:62168
- Gill, Amal Nath (with Mehta, Gobind P.) Selection procedures for hazard rates based on two-sample statistics. 91d:62023
- Gill, Richard D. see Andersen, Per Kragh; et al., 91b:62084
- Gnedenko, B. V. Estimating the unknown parameters of a distribution with a random number of independent observations. (Russian) 91j:62033
- Grishchenko, V. A. (with Stollik, Yu. B.) Reliability of a system with a cyclic organization of operation. (Russian) (see 91j:60006)
- Grosh, Doris Lloyd ★ A primer of reliability theory. 91d:90048
- Gupta, Arjun K. see Peña, Edsel A., 91b:62047
- Haara, Pentti A note on the asymptotic behaviour of the empirical score in Cox's regression model for counting processes. (see 91j:60003)
- see also Arjas, Elja, (91j:60003)
- Handa, B. R. see Kambo, N. S.; et al., 91c:62022
- Hjort, Nils Lid Nonparametric Bayes estimators based on beta processes in models for life history data. 91b:62007
- Honoré, Bo E. Simple estimation of a duration model with unobserved heterogeneity. 91c:62098
- Houchens, Robert L. see Ahsanullah, M., 91a:62117
- Hsiung, Chin Yüan see Cheng, Kuang Fu, 91b:62081
- Izenman, Alan Julian (with Tran, Lanh Tat) Kernel estimation of the survival function and hazard rate under weak dependence. 91g:62027
- Jain, Madhu Bala see Sen, Kanwar, (Not in MR)
- Johnstone, Iain M. see Efron, Bradley, 91b:62027
- Joshi, Suneeta M. see Sathe, Y. S.; et al., (Not in MR)
- Kadryova, N. O. see Rachev, Svetlozar T.; et al., 91d:60042
- Kahle, Waltraud (with Kühmann, Annette) Punkt- und Konfidenzschätzungen für den Stichprobenplan $[N, O, T]$ am Beispiel der Weibullverteilung. [Point and confidence estimates for the sampling plan $[N, O, T]$ using the example of Weibull distribution] (Not in MR)
- Kalashnikov, V. V. ★ Количественные оценки в теории надежности. (Russian) [Quantitative estimates in reliability theory] 91c:60114
- Kambo, N. S. (with Handa, B. R.; Al-Hemyari, Z. A.) On shrunken estimators for exponential scale parameter. 91c:62022
- Keiding, Niels see Andersen, Per Kragh; et al., 91b:62084
- Kim, Kyungmann (with Tsiatis, Anastasios A.) Study duration for clinical trials with survival response and early stopping rule. (French summary) (Not in MR)
- Kocher, Subhash C. On preservation of some partial orderings under shock models.

- 91f60037
— Some partial ordering results on record values. 91j62061
- Kühlmann, Annette *see* Kahle, Waltraud, (Not in MR)
- Kurtz, Birgit *see* Dikta, Gerhard; et al., 91a:62218
- Lam, Yeh A repair replacement model. 91f60152
- Laverty, W. H. *see* Ghitany, M. E., 91f:62052
- Lee, Larry (with Finelli, George B.) A transformation for testing the fit of an exponential order statistics model. 91f62088
- Lefèvre, Claude (with Milhaud, Xavier) On the association of the lifetimes of components subjected to a stochastic environment. 91f62023
- Leung, Siu Fai (with Wong, Wing Hung) Nonparametric hazard estimation with time-varying discrete covariates. 91j62046
- Lin, D. Y. *see* Wei, L. J.; et al., 91k:62043
- Lingappalaiah, Giri S. Bayes prediction of maxima and minima in exponential life tests in the presence of outliers. 91f62062
- Inference in life tests based on a Weibull model when an outlier is present. (Not in MR)
- Liu, Zeng-Zhong *see* Nakao, Zensho, 91h:62009
- Lomakin, M. I. Guaranteed estimates for the probability of failure-free work in a class of distributions with fixed moments. (Russian) (Not in MR)
- Malik, Henrick J. *see* Pandey, B. N.; et al., 91e:62048
- McKeague, Ian W. (with Utikal, Klaus J.) Stochastic calculus as a tool in survival analysis: a review. 91h:62002
- Mehta, Gobind P. *see* Gill, Amar Nath, 91d:62023
- Milhaud, Xavier *see* Lefèvre, Claude, 91f:62023
- Morales González, Domingo (with Pardo, Leandro; Quesada Paloma, Vicente) Estimation of a survival function with doubly censored data and Dirichlet process prior knowledge on the observable variable. 91f62071
- Müller, Hans-Georg (with Wang, Jane-Ling) Nonparametric analysis of changes in hazard rates for censored survival data: an alternative to change-point models. 91f62072
- Nabar, S. P. *see* Sathe, Y. S.; et al., (Not in MR)
- Nagaraja, H. N. Some reliability properties of order statistics. 91g:62036
- Naik-Nimbalkar, U. V. *see* Gadag, V. G.; et al., 91f:60143
- Nakagawa, Toshio A summary of replacement models with changing failure distributions. (French summary) 91a:90004
- Nakao, Zensho (with Liu, Zeng-Zhong) Empirical Bayesian interval estimation for the reliability function of a bivariate exponential model. 91h:62009
- Narasimham, V. L. *see* Dattatreya Rao, A. V., (Not in MR)
- Norberg, Ragnar Actuarial analysis of dependent lives. (French and German summaries) 91f:62137
- Nowik, Shmuel Identifiability problems in coherent systems. 91h:90042
- Onakes, David (with Dasu, Tamraparni) A note on residual life. 91h:62018
- Obretenov, A. On the rate of convergence for the extreme value in the case of IFR-distributions. 91e:60254
- O'Cinneide, Colm Art On the limitations of multivariate phase-type families. 91m:60031
- Pandey, B. N. (with Malik, Henrick J.; Srivastava, Rakesh) Shrinkage estimators for the shape parameter of Weibull distribution under type II censoring. 91e:62048
- Papadopoulos, Alex S. A hierarchical approach to the study of the exponential failure model. (Not in MR)
- Pardo, Leandro *see* Morales González, Domingo; et al., 91f:62071
- Peña, Edsel A. (with Gupta, Arjun K.) Bayes estimation for the Marshall-Olkin exponential distribution. 91f:62047
- Quesada Paloma, Vicente *see* Morales González, Domingo; et al., 91f:62071
- Rachev, Svetlozar T. (with Yakovlev, A. Yu.; Kadyrova, N. O.) A concept of δ -stochastic ordering and its application to the competing risks model. 91d:60042
- Rajarshi, M. B. *see* Gadag, V. G.; et al., 91f:60143
- Ramkaran *see* Bhattacharya, Samir K., 91f:62048
- Rivet, Louis-Paul *see* Genest, Christian, 91h:62029
- Roy, Dilip A characterization of Gumbel's bivariate exponential and Lindley and Singpurwalla's bivariate Lomax distributions. 91h:62020a
- Correction: "A characterization of Gumbel's bivariate exponential and Lindley and Singpurwalla's bivariate Lomax distributions". 91h:62020b
- Sarda, Pascal (with Vieu, Philippe) Estimation non paramétrique de la fonction de hasard. (English summary) [Nonparametric estimation of the hazard function] 91d:62051
- (with Vieu, Philippe) Empirical distribution function for mixing random variables. Application in nonparametric hazard estimation. 91f:62090
- Sathe, Y. S. (with Joshi, Suneeta M.; Nabar, S. P.) Bounds for circular error probabilities. (Not in MR)
- Sen, Kanwar (with Jain, Madhu Bala) A test for bivariate exponentiality against BHNBLUE alternative. (Not in MR)
- Sethuraman, Jayaram *see* Bhattacharjee, Manish C., 91f:62022
- Shaban, S. A. Bayesian estimators of reliability for the inverse Gaussian distribution. 91a:62084
- Shaked, Moshe *see* Çinlar, Erhan; et al., 91f:60151
- Shalaby, Osman Aly Estimation of Weibull parameters when sample size is unknown. (Not in MR)
- Shanthikumar, J. George *see* Assaf, David, 91h:90092 and Çinlar, Erhan; et al., 91f:60151
- Shcherbinin, A. F. Conditional normalized likelihood estimates for the parameters of the binomial and the exponential distributions. (Not in MR)
- Shguk, V. D. A general approach to the construction of unbiased analytic-statistical estimates for reliability and efficiency indices of systems. (Russian) 91e:60257
- Soofi, Ehsan S. *see* Ebrahimi, Nader, 91f:62012
- Sprott, D. A. *see* Chamberlin, S. R., 91c:62029
- Srivastava, Rakesh *see* Pandey, B. N.; et al., 91e:62048
- Stollik, Yu. B. *see* Grishchenko, V. A., (91j:60006)
- Stute, Winfried *see* Dikta, Gerhard; et al., 91a:62218
- Terpstra, T. J. Asymptotically optimal nonparametric experimental design tests for the log linear model under censoring. 91a:62112
- Tiago de Oliveira, J. Intrinsic estimation of the dependence structure for bivariate extremes. 91e:62101
- Tortorella, Michael Comparing renewal processes, with application to reliability modeling of highly reliable systems. 91m:60159
- Closed Newton-Cotes quadrature rules for Stieltjes integrals and numerical convolution of life distributions. 91g:65049
- Tran, Lanh Tat *see* Izenman, Alan Julian, 91g:62027
- Tsai, Wei-Yann Testing the assumption of independence of truncation time and failure time. 91e:62103
- Tsatis, Anastasios A. *see* Kim, Kyungmann, (Not in MR)
- Utikal, Klaus J. *see* McKeague, Ian W., 91h:62002
- Vardi, Y. Multiplicative censoring, renewal processes, deconvolution and decreasing density: nonparametric estimation. 91f:62057
- Veraverbeke, Noël *see* Gijbels, Irene, 91b:62168
- Vieu, Philippe *see* Sarda, Pascal, 91d:62051 and 91f:62090
- Volf, Petr A nonparametric analysis of proportional hazard regression model. (Russian summary) 91e:62106
- A large sample study of nonparametric proportional hazard regression model. 91m:62075
- Vostretsov, A. G. Detection of an unreliable element in a flexible manufacturing system. 91a:90086
- Wang, Jane-Ling *see* Müller, Hans-Georg, 91f:62072
- Wei, L. J. (with Ying, Zhiliang; Lin, D. Y.) Linear regression analysis of censored survival data based on rank tests. 91k:62043
- Weissfeld, L. A. Influence diagnostics for the proportional hazards model. (Not in MR)
- Wenocur, Michael L. A reliability model based on the gamma process and its analytic theory. 91e:90047
- Whitten, Betty Jones *see* Cohen, A. Clifford, 91b:62051
- Wong, Wing Hung *see* Leung, Siu Fai, 91j:62046
- Yakovlev, A. Yu. *see* Rachev, Svetlozar T.; et al., 91d:60042
- Ying, Zhiliang *see* Wei, L. J.; et al., 91k:62043
- Zverkina, G. A. A priority model in reliability theory. (Russian) (see 91g:60003)

62N10 Quality control

- Adams, Benjamin M. (with Woodall, William H.) An analysis of Taguchi's on-line process-control procedure under a random-walk model. 91a:62275
- Amin, Raïd W. *see* Reynolds, Marion R., Jr.; et al., (Not in MR) and Ncube, Matoteng M., (Not in MR)
- Arnold, Jesse C. *see* Reynolds, Marion R., Jr., 91a:62278 and (Not in MR)
- Avenhaus, Rudolf (with Battenberg, H.-P.; Falkowski, Bernd-Jürgen) Average run lengths of simple sequential tests for random variables with systematic components. (see 91f:90006)
- Bai, De Sun (with Kim, Sang Boo; Riew, Moon Charn) Economic screening procedures based on correlated variables. (Not in MR)
- Banerjee, Pradeep Kumar (with Rahim, M. A.) Correction: "Economic design of \bar{X} -control charts under Weibull shock models" [Technometrics 30 (1988), no. 4, 407-414; MR 90e:62135]. (Not in MR)
- Basu, Sujit K. *see* Roy, Dilip, (Not in MR)
- Battenberg, H.-P. *see* Avenhaus, Rudolf; et al., (91f:90006)
- Birch, Nancy J. (with Burdick, Richard K.; Ting, Naitee) Confidence intervals and bounds for ratio of summed expected mean squares. 91f:62135
- Bissell, A. F. How reliable is your capability index? (Not in MR)
- Böhni, Walter (with Hackl, Peter) Improved bounds for the average run length of control charts based on finite weighted sums. 91m:62181
- Brush, Gary G. (with Hoadley, A. Bruce; Saperstein, Bernard) Estimating outgoing quality using the quality measurement plan. (Not in MR)
- Burdick, Richard K. *see* Birch, Nancy J.; et al., 91f:62135
- Chakraborty, Subrata (with Rathie, Umesh Kumar) Analysis of inspection error through GERT. (Not in MR)
- Champ, Charles W. (with Woodall, William H.; Mohsen, Hassan A.) A generalized quality control procedure. (Not in MR)
- Chan, Lai K. (with Xiong, Zheng Xin; Zhang, Dao Zhi) On the asymptotic distributions of some process capability indices. 91e:62264
- Choi, Byoung-Chul (with Owen, Donald B.) A study of a new process capability index. (Not in MR)
- Choi, Yoon-Min (with Owen, Donald B.) On the distributions of the estimated process capability indices. 91a:62276
- Choudhury, D. Roy *see* Das, M. N., (Not in MR)
- Chung, Jain (with Pittman, Terry Obert) A simple method for computing the ARL of \bar{X} -charts with zone tests. (Not in MR)
- von Collani, Elart ★ The economic design of control charts. 91m:62182
- A note on acceptance sampling for variables. (Not in MR)
- Das, M. N. (with Choudhury, D. Roy) On problems of search using group tests. (Not in MR)
- Falkowski, Bernd-Jürgen *see* Avenhaus, Rudolf; et al., (91f:90006)
- Formanov, Sh. K. (with Mamazhanov, M. M.) Continuous sampling inspection based on a given level of outgoing quality. (Russian) 91c:62093
- Gan, F. F. Monitoring Poisson observations using modified exponentially weighted moving average control charts. (Not in MR)
- Ghosh, D. T. The continuous sampling plan that minimises the amount of inspection. 91e:62265
- The optimum continuous sampling plan CSP-2 with $k = i$ that minimizes the amount of inspection. 91h:62213
- Gold, Morris S. The geometric approximation to the cusum run length distribution. 91d:62155
- Govindaraju, K. Selection of ChSP-1 chain sampling plans for given acceptable quality level and limiting quality level. (Not in MR)
- Hackl, Peter *see* Böhni, Walter, 91m:62181
- Hoadley, A. Bruce *see* Brush, Gary G.; et al., (Not in MR)
- Hwang, F. K. *see* Yao, Yi-Ching, 91f:62136
- Kim, Byung Chun *see* Park, Changsoo, (Not in MR)
- Kim, Sang Boo *see* Bai, De Sun; et al., (Not in MR)

- Lucas, James M. (with Saccucci, Michael S.) Exponentially weighted moving average control schemes: properties and enhancements. (Not in MR)
- Mamazanov, M. M. *see* Formanov, Sh. K., 91c:62093
- Mohsen, Hassan A. *see* Champ, Charles W.; et al., (Not in MR)
- Ncube, Matoteng M. (with Amin, Raid W.) Two parameter cuscore quality control procedures. (Not in MR)
- Owen, Donald B. *see* Chou, Yuen-Min, 91a:62276 and Choi, Byoung-Chul, (Not in MR)
- Pandey, R. J. A note on determination of Bayesian three-decision plans using Thyregod's method. (Not in MR)
- A note on three-decision ASR plan providing average quality protection in terms of inflection average outgoing quality. 91a:62277
- Park, Changsoo (with Kim, Byung Chun) A CUSUM chart based on log probability ratio statistic. (Not in MR)
- Pittman, Terry Obert *see* Chung, Jain, (Not in MR)
- Rahim, M. A. *see* Banerjee, Pradeep Kumar, (Not in MR)
- Rathie, Umesh Kumar *see* Chakraborty, Subrata, (Not in MR)
- Reynolds, Marion R., Jr. (with Arnold, Jesse C.) Optimal one-sided Shewhart control charts with variable sampling intervals. 91a:62278
- Optimal variable sampling interval control charts. 91f:62161
- (with Amin, Raid W.; Arnold, Jesse C.) CUSUM charts with variable sampling intervals. (Not in MR)
- Riew, Moon Charn *see* Bai, De Sun; et al., (Not in MR)
- Roy, Dilip (with Basu, Sujit K.) Control of dispersion parameters in a multivariate situation. (Not in MR)
- Saccucci, Michael S. *see* Lucas, James M., (Not in MR)
- Saperstein, Bernard *see* Brush, Gary G.; et al., (Not in MR)
- Schneider, Helmut (with Tang, Kwei) Adaptive procedures for the two-stage group-testing problem based on prior distributions and costs. (Not in MR)
- Shankar, Gauri Gert analysis of multiple deferred state [MDS-I] plans. (Not in MR)
- Sirazhdinov, S. Kh. (with Vakhobov, V.) A Bayesian single sampling plan that is based on linear costs and A. N. Kolmogorov's distribution. I. (Russian) 91f:62162
- (with Vakhobov, V.) A Bayesian single sampling plan that is based on linear costs and A. N. Kolmogorov's distribution. II. (Russian) 91m:62183
- Spruill, Carl Accurate detection of excess over a standard based on a random sample. 91a:62279
- Spurrer, John D. (with Thombs, L. A.) Control charts for detecting cyclical behavior. (Not in MR)
- Takahashi, Takemori Simultaneous control charts based on (X, s) and (\bar{X}, R) for multiple decision on process change. (Not in MR)
- Tang, Kwei *see* Schneider, Helmut, (Not in MR)
- Thombs, L. A. *see* Spurrer, John D., (Not in MR)
- Ting, Naitse *see* Birch, Nancy J.; et al., 91f:62135
- Tsai, Hsien Tang The probabilistic tolerance design for a subsystem using Taguchi's quadratic loss function. (Not in MR)
- Vakhobov, V. *see* Sirazhdinov, S. Kh., 91f:62162 and 91m:62183
- Vogt, Herbert ★ Methoden der Statistischen Qualitätskontrolle. (German) [Methods of statistical quality control] 91f:62163
- Wesolowski, George O. Simultaneous acceptance control charts for two correlated processes. 91a:62280
- Woodall, William H. *see* Adams, Benjamin M., 91a:62275 and Champ, Charles W.; et al., (Not in MR)
- Xiong, Zheng Xin *see* Chan, Lai K.; et al., 91c:62264
- Yang, Grace L. A renewal look at switching rules in the MIL-STD-105D sampling system. 91a:62281
- Yao, Yi-Ching (with Hwang, F. K.) On optimal nested group testing algorithms. 91f:62136
- Zhang, Dao Zhi *see* Chan, Lai K.; et al., 91c:62264
- Items with secondary classifications in 62N10
- Carroll, Raymond J. (with Hall, Peter Gavin) Nonparametric estimation of optimal performance criteria in quality engineering. 91b:62067
- Engle, R. F. *see* Hylleberg, S.; et al., 91d:62158
- Granger, Clive W. J. *see* Hylleberg, S.; et al., 91d:62158
- Hall, Peter Gavin *see* Carroll, Raymond J., 91b:62067
- Hylleberg, S. (with Engle, R. F.; Granger, Clive W. J.; Yoo, B. S.) Seasonal integration and cointegration. 91d:62158
- Rubik, Frantisek On testing hypotheses approximable by cones. (Russian summary) 91a:62055
- Yoo, B. S. *see* Hylleberg, S.; et al., 91d:62158
- Yu, Kai Fun On a problem of counting by weighing. (French summary) 91c:62203
- 62N99 None of the above, but in this section**
- Items with secondary classifications in 62N99
- Lacayo, Alberto Some generalizations of the Poisson and gamma distributions. (Spanish. English summary) 91a:60042
- 62Pxx Applications [see also 90-XX, 92-XX]**
- Items with secondary classifications in 62Pxx
- Hansohm, Jürgen ★ Die Behandlung qualitativer Datenstrukturen in quantitativen Analysemethoden durch das Prinzip der optimalen Skalierung. (German) [The treatment of qualitative data structures in quantitative methods of analysis, using the principle of optimal scaling] 91c:62001
- 62P05 Applications to actuarial sciences and financial mathematics**
- Andrews, Donald W. K. Power in econometric applications. 91g:62081
- Asmussen, Søren Risk theory in a Markovian environment. 91g:62082
- Aven, Terje (with Myre, Hanne) A rating model for loss of profits insurance. 91a:62282
- Bauwelinckx, T. (with Goovaerts, M. J.) On a multilevel hierarchical credibility algorithm. 91j:62144
- *see also* Steenackers, A.; et al., (Not in MR)
- Beekman, John A. (with Fuelling, Clinton P.) Interest and mortality randomness in some annuities. (Not in MR)
- Boogaert, P. (with Haeczenonck, Jean) Delay in claim settlement. 91g:62083
- (with De Waegenaere, A.) Simulation of ruin probabilities. (Not in MR)
- (with De Waegenaere, A.) Macro-economic version of a classical formula in risk theory. (Not in MR)
- Browne, Sidney Maximizing the expected time to ruin for a company operating N distinct funds with a "superclaims" process. 91d:62156
- (Bühlmann, Hans) *see* Gerber, Hans U., 91j:62147
- Consal, P. C. A model for distributions of injuries in auto-accidents. (French and German summaries) (Not in MR)
- Croux, Kristof (with Veraverbeke, Noël) Nonparametric estimators for the probability of ruin. 91j:62145
- Dassios, A. (with Embrechts, P.) Martingales and insurance risk. 91k:62096
- Delbaen, Freddy (with Haeczenonck, Jean) A martingale approach to premium calculation principles in an arbitrage free market. 91c:62094
- A remark on the moments of ruin time in classical risk theory. 91j:62146
- Dellaert, N. P. (with Frenk, J. B. G.; Kouwenhoven, A.; van der Laan, B. S.) Optimal claim behaviour for third-party liability insurances or To claim or not to claim: that is the question. (Not in MR)
- De Schepper, Ann (with Heijnen, Bart) Hierarchical models in insurance. (Not in MR)
- De Waegenaere, A. *see* Boogaert, P., (Not in MR) and (Not in MR)
- Embrechts, P. *see* Dassios, A., 91k:62096
- Frenk, J. B. G. *see* Dellaert, N. P.; et al., (Not in MR)
- Fuelling, Clinton P. *see* Beekman, John A., (Not in MR)
- Gerber, Hans U. From the convolution of uniform distributions to the probability of ruin. (French and German summaries) 91c:62266
- ★ Life insurance mathematics. 91j:62147
- When does the surplus reach a given target? 91j:62148
- Glaser, Alois Credibility theory made easy. (French and German summaries) (Not in MR)
- Goovaerts, M. J. *see* van Heerwaarden, A. E.; et al., 91b:62214; 91b:62215; Kaas, R.; et al., 91f:62164; Bauwelinckx, T., 91j:62144; Steenackers, A.; et al., (Not in MR) and (Not in MR)
- Grandell, Jan Ruin probabilities in the "nonrenewal" case. (see 91j:60003)
- Haberman, Shelby J. (with Renshaw, A. E.) Generalised linear models and excess mortality from peptic ulcers. (Not in MR)
- Haeczenonck, Jean *see* Delbaen, Freddy, 91c:62094 and Boogaert, P., 91g:62083
- van Heerwaarden, A. E. (with Kaas, R.; Goovaerts, M. J.) Optimal reinsurance in relation to ordering of risks. 91b:62214
- (with Kaas, R.; Goovaerts, M. J.) Properties of the Esscher premium calculation principle. 91b:62215
- *see also* Kaas, R.; et al., 91f:62164 and 91j:62150
- Heijnen, Bart Best upper and lower bounds on modified stop loss premiums in case of known range, mode, mean and variance of the original risk. 91j:62149
- *see also* De Schepper, Ann, (Not in MR)
- Heilmann, Wolf-Rüdiger Premium calculation by transform techniques. (see 91f:90004)
- Hipp, Christian Efficient estimators for ruin probabilities. 91c:62267
- Hoem, Jan M. *see* Wolthuis, Henk, (Not in MR)
- Hsiao, Cheng (with Kim, Changseob; Taylor, Grant) A statistical perspective on insurance rate-making. (Not in MR)
- Hörlmann, Werner On linear combinations of random variables and risk theory. (see 91f:90008)
- On maximum likelihood estimation for count data models. 91c:62268
- On life table applications of ordering among risks. 91m:62184
- Jacque, Laurent L. *see* Tapiero, Charles S., (Not in MR)
- Jewell, William S. Credibility prediction of first and second moments in the hierarchical model. (French and German summaries) (Not in MR)
- Kaas, R. (with van Heerwaarden, A. E.; Goovaerts, M. J.) Combining Panjer's recursion with convolution. 91f:62164
- (with van Heerwaarden, A. E.) Ordering of risks and ruin probabilities. 91j:62150
- *see also* van Heerwaarden, A. E.; et al., 91b:62214 and 91b:62215
- Kim, Changseob *see* Hsiao, Cheng; et al., (Not in MR)
- Klippelberg, Claudia Asymptotic ruin probabilities and hazard rates. (see 91f:90006)
- Kouwenhoven, A. *see* Dellaert, N. P.; et al., (Not in MR)
- Kremer, Erhard Rating of a special stop loss cover. (Not in MR)
- van der Laan, B. S. *see* Dellaert, N. P.; et al., (Not in MR)
- Mack, Thomas Improved estimation of IBNR claims by credibility theory. (Not in MR)
- MacLeod, Allan J. A note on the computation in Whittaker-Henderson graduation. 91a:62283
- Mangel, Marc *see* Peters, Craig Steven, 91f:62138
- Marazzi, Alfio Restricted minimax credibility: two special cases. (French and German summaries) (Not in MR)
- Marina Borghesani, Maria Erminia On the continuous dependence of the probability of ruin on premium loading. (Italian. English summary) 91f:62165
- Müller, Thomas Hartmut Berechnung der Gesamtschadenverteilung nach dem individuellen Modell. (English and French summaries) [Computing the aggregate claims distribution in the individual model] (Not in MR)
- Myre, Hanne *see* Aven, Terje, 91a:62282
- (Neuhans, Walther) *see* Gerber, Hans U., 91j:62147
- Norberg, Ragnar Experience rating in group life insurance. (Not in MR)
- Actuarial analysis of dependent lives. (French and German summaries) 91i:62137
- *see also* Aven, Terje, 91a:62282
- Papageorgiou, H. Recursive formulas for aggregate claim distributions. 91b:62216
- Peters, Craig Steven (with Mangel, Marc) New methods for the problem of collective ruin. 91f:62138

- Petersen, Søren Schock Calculation of ruin probabilities when the premium depends on the current reserve. 91f:62166
- Rachev, Svetlozar T. (with Rüschendorf, Ludger) Approximation of sums by compound Poisson distributions with respect to stop-loss distances. 91f:62167
- Remshaw, A. E. see Haberman, Shelby J., (Not in MR)
- Rüschendorf, Ludger see Rachev, Svetlozar T., 91f:62167
- Schmidt, Klaus D. Positive homogeneity and multiplicativity of premium principles on positive risks. 91b:62217
- Schnieper, René Insurance premiums, the insurance market and the need for reinsurance. (French and German summaries) (Not in MR)
- Shiu, Elias S. W. Ruin probability by operational calculus. 91b:62218
- On Gerber's fun. 91e:62269
- Sinha, Tapen A model of annuities with adverse selection. 91e:62270
- Steenackers, A. (with Bauwelinckx, T.; Goovaerts, M. J.) Recursive evaluation of the terms in the development of the adjustment coefficient as a power series in the safety loading. (French and German summaries) (Not in MR)
- (with Goovaerts, M. J.) A review of the numerical calculation of ruin probabilities by means of recursions. (Not in MR)
- Straub, Erwin Poissonmodelle versus Pascalmodelle oder Die unheimliche Vielfalt der negativen Binomialverteilung. (English and French summaries) [Poisson models versus Pascal models, or the incredible diversity of the negative binomial distribution] 91e:62271
- Sundt, Bjørn see Willmot, Gordon E., 91e:62272
- Tapiero, Charles S. (with Jacque, Laurent L.) Premium allocation and risk avoidance in a large firm: a continuous model. (Not in MR)
- Taylor, Grant see Hsiao, Cheng; et al., (Not in MR)
- Vandebroek, Martina Pension funding and optimal control. (French and German summaries) (Not in MR)
- Veraverbeke, Noël see Croux, Kristof, 91j:62145
- Verrall, R. J. Modelling claims runoff triangles with two-dimensional time series. (Not in MR)
- Willmot, Gordon E. Limiting tail behaviour of some discrete compound distributions. 91a:62284
- (with Sundt, Bjørn) On posterior probabilities and moments in mixed Poisson processes. 91e:62272
- Wolthuis, Henk (with Hoem, Jan M.) The retrospective premium reserve. (Not in MR)
- Items with secondary classifications in 62P05
- Abikhaili, F. De l'inégalité de Cramér aux processus ponctuels marqués en théorie du risque. [From Cramér's inequality to marked point processes in risk theory] 91c:60063
- Ardani, Pier Giorgio Bootstrapping, jackknife and James-Stein estimators. (Italian, English and French summaries) 91a:62178
- Biswas, Suddhendu ★ Stochastic processes in demography and applications. 91m:60189
- Boesdorff, Heikki A comparison of the ordinary and a varying parameter exponential smoothing. 91a:60172
- Csörgő, Sándor (with Teugels, Jozef L.) Empirical Laplace transform and approximation of compound distributions. 91e:60050
- Dufresne, Daniel Weak convergence of random growth processes with applications to insurance. 91e:60108
- Hansen, B. G. (with Wilkerson, E. K. E.) The generalized logarithmic series distribution. 91f:60030
- Hoesman, Craig see Slud, Eric, 91e:60094
- Loeffel, Hans Abraham de Moivre (1667–1754)—Pionier der stochastischen Rentenrechnung. (English and French summaries) [Abraham de Moivre (1667–1754)—pioneer of the stochastic theory of life annuities] (Not in MR)
- (de Moivre, Abraham) see Loeffel, Hans, (Not in MR)
- Norberg, Ragnar Risk theory and its statistics environment. 91i:62002
- Ramsay, Colin M. On a fundamental identity for stopping times and its application to risk theory. 91j:60082
- Ridder, Geert The nonparametric identification of generalized accelerated failure-time models. 91j:62141
- (Sehgal, Vijay Kumar) see Biswas, Suddhendu, 91m:60189
- Slud, Eric (with Hoesman, Craig) Moderate- and large-deviation probabilities in actuarial risk theory. 91e:60094
- Sundt, Bjørn see Willmot, Gordon E., 91d:60036
- Teugels, Jozef L. see Csörgő, Sándor, 91e:60050
- Wilkerson, E. K. E. see Hansen, B. G., 91f:60030
- Willmot, Gordon E. (with Sundt, Bjørn) On evaluation of the Delaporte distribution and related distributions. 91d:60036
- Woodside, William An optimal decision rule for the parking-meter problem. 91g:60064
- Items listed otherwise than by author
- Biography:
- de Moivre, Abraham see Loeffel, Hans, (Not in MR)
- 62P10 Applications to biology**
- Aaby, Peter see Kronborg, Dorte, (Not in MR)
- Aickin, Mikel Maximum likelihood estimation of agreement in the constant predictive probability model, and its relation to Cohen's kappa. (French summary) (Not in MR)
- Alho, Jukka M. Logistic regression in capture-recapture models. (French summary) (Not in MR)
- Bailey, Julia K. see Louis, Thomas A., (Not in MR)
- Barndorff-Nielsen, Ole E. (with James, I. R.; Leigh, George Michael) A note on a semiparametric estimator of mortality. 91a:62285
- Basten, C. J. see Weir, B. S., (Not in MR)
- Bates, Douglas M. see Lindstrom, Mary J., (Not in MR)
- Bhattacharya, B. N. (with Singh, K. K.; Singh, Uttam; Pandey, C. M.) An extension of a model for first birth interval and some social factors. (Not in MR)
- Bhatti, Muhammad I. Null distribution of the small sample mean correlation coefficient: an application to medical research. (Not in MR)
- Blevins, Donald see Robins, James M.; et al., 91k:62097
- Bondeson, J. Prediction in random coefficient regression models. (German summary) (Not in MR)
- Boos, Dennis D. see Brownie, Cavell; et al., (Not in MR)
- Borgan, Ørnulf (with Liestøl, Knut) A note on confidence intervals and bands for the survival function based on transformations. (Not in MR)
- Breslow, Norman Biostatistics and Bayes. 91i:62139
- Brillinger, David R. (with Downing, Kenneth H.; Glaeser, Robert M.) Some statistical aspects of low-dose electron imaging of crystals. 91h:62090
- Brownie, Cavell (with Boos, Dennis D.; Hughes-Oliver, Jacqueline) Modifying the *t* and ANOVA *F* tests when treatment is expected to increase variability relative to controls. (French summary) (Not in MR)
- Buckland, Stephen T. see Garthwaite, Paul H., (Not in MR)
- Carroll, Raymond J. see Wu, Margaret C., (Not in MR)
- Chao, Lien Chü (with Li, Shén Ming) Estimating the number of unseen species with frequency counts. 91m:62185
- Coffey, Mary P. Correction to: "A random effects model for binary data from dependent samples" [Biometrics 44 (1988), no. 3, 787–801; MR 89h:62166]. (Not in MR)
- Cox, Christopher Fieller's theorem, the likelihood and the delta method. (French summary) (Not in MR)
- Crowley, John J. see Jones, Michael P., 91a:62287
- Cullis, B. R. (with McGilchrist, C. A.) A model for the analysis of growth data from designed experiments. (French summary) (Not in MR)
- Davidian, M. Estimation of variance functions in assays with possibly unequal replication and nonnormal data. 91a:62286
- Davis, Barry R. (with Hardy, Robert J.) Upper bounds for type I and type II error rates in conditional power calculations. (Not in MR)
- Donner, Allan see Ellasziw, Michael, (Not in MR)
- Downing, Kenneth H. see Brillinger, David R.; et al., 91h:62090
- Dryden, I. L. see Mardia, K. V., 91e:62273
- Durrleman, Sylvain (with Simon, Richard) Planning and monitoring of equivalence studies. (French summary) (Not in MR)
- Dyer, Danny (with Heath, Larry F.) Estimation of gene/haplotype frequencies in genetic marker systems based on phenotype data. (Not in MR)
- Ellasziw, Michael (with Donner, Allan) Comparison of recent estimators of interclass correlation from familial data. (French summary) (Not in MR)
- Ellenberg, Jonas H. Biostatistical collaboration in medical research. (Not in MR)
- Elsen, J. M. see Goffinet, B.; et al., (Not in MR)
- Fisher, Lloyd see O'Quigley, John; et al., (Not in MR)
- Garthwaite, Paul H. (with Buckland, Stephen T.) Analysis of a multiple-recapture census by computing conditional probabilities. (French summary) (Not in MR)
- Glaeser, Robert M. see Brillinger, David R.; et al., 91h:62090
- Goffinet, B. (with Elsen, J. M.; Le Roy, P.) Statistical tests for identification of the genotype at a major locus of progeny-tested sires. (French summary) (Not in MR)
- Goot, R. E. see Khamis, L. G.; et al., 91h:62091
- Greenland, Sander see Robins, James M., 91a:62288
- Hardy, Robert J. see Davis, Barry R., (Not in MR)
- Heath, Larry F. see Dyer, Danny, (Not in MR)
- van Houwelingen, J. C. see Stijnen, Th., (Not in MR)
- Hughes-Oliver, Jacqueline see Brownie, Cavell; et al., (Not in MR)
- James, I. R. see Barndorff-Nielsen, Ole E.; et al., 91a:62285
- Jennison, Christopher (with Turnbull, Bruce W.) Statistical approaches to interim monitoring of medical trials: a review and commentary. 91i:62140
- Jensen, D. R. Joint confidence sets in multiple dilution assays. 91g:62084
- Jones, Michael P. (with Crowley, John J.) A general class of nonparametric tests for survival analysis. (French summary) 91a:62287
- Kalish, Leslie A. Reducing mean squared error in the analysis of pair-matched case-control studies. (French summary) (Not in MR)
- Efficient design for estimation of median lethal dose and quantal dose-response curves. (French summary) (Not in MR)
- Khamis, L. G. (with Rachev, Svetlozar T.; Goot, R. E.; Yakovlev, A. Yu.) Precise upper bounds for the functionals describing tumour treatment efficiency. 91h:62091
- Klein, John P. (with Lee, Shih Chang; Moeschberger, M. L.) A partially parametric estimator of survival in the presence of randomly censored data. (French summary) 91j:62151
- Kronborg, Dorte (with Aaby, Peter) Piecewise comparison of survival functions in stratified proportional hazards models. (French summary) (Not in MR)
- Lachin, John M. see Wei, L. J.; et al., (Not in MR)
- Lee, Jack C. Tests and model selection for the general growth curve model. (French summary) (Not in MR)
- Lee, Shih Chang see Klein, John P.; et al., 91j:62151
- Leigh, George Michael see Barndorff-Nielsen, Ole E.; et al., 91a:62285
- Le Roy, P. see Goffinet, B.; et al., (Not in MR)
- Li, Shén Ming see Chao, Lien Chü, 91m:62185
- Liestøl, Knut see Borgan, Ørnulf, (Not in MR)
- Lindstrom, Mary J. (with Bates, Douglas M.) Nonlinear mixed effects models for repeated measures data. (French summary) (Not in MR)
- Louis, Thomas A. (with Bailey, Julia K.) Controlling error rates using prior information and marginal totals to select tumor sites. (Not in MR)
- Mardia, K. V. (with Dryden, I. L.) The statistical analysis of shape data. 91e:62273
- Shape analysis of triangles through directional techniques. 91e:62274
- Matthews, J. N. S. The analysis of data from crossover designs: the efficiency of ordinary least squares. (French summary) (Not in MR)
- McDonald, Lyman L. see Muttlak, Hassen A., (Not in MR)
- McGilchrist, C. A. see Cullis, B. R., (Not in MR)
- McLeish, D. L. (with Tosh, D.) Sequential designs in bioassay. (French summary) (Not in MR)
- Moeschberger, M. L. see Klein, John P.; et al., 91j:62151

- Muttlak, Hassen A. (with McDonald, Lyman L.) Ranked set sampling with size-biased probability of selection. (French summary) (Not in MR)
- Nechval, N. A. The equal probability test and optimal allocation of subjects to the groups when comparing a new drug and a placebo. (Not in MR)
- Noura, A. A. (with Read, K. L. Q.) Proportional hazards changepoint models in survival analysis. (Not in MR)
- O'Quigley, John (with Pepe, Margaret; Fisher, Lloyd) Continual reassessment method: a practical design for phase I clinical trials in cancer. (French summary) (Not in MR)
- (with Prentice, Ross L.) Nonparametric tests of association between survival time and continuously measured covariates: the logit-rank and associated procedures. (French summary) (Not in MR)
- Pandey, C. M. see Bhattacharya, B. N.; et al., (Not in MR)
- Paul, S. R. Maximum likelihood estimation of intraclass correlation in the analysis of familial data: estimating equation approach. (Not in MR)
- Pepe, Margaret see O'Quigley, John; et al., (Not in MR)
- Pereira, Carlos Alberto de Bragança (with Pericchi, Luis Raúl) Analysis of diagnosability. (Not in MR)
- Pericchi, Luis Raúl see Pereira, Carlos Alberto de Bragança, (Not in MR)
- Piegorsch, Walter W. One-sided significance test for generalized linear models under dichotomous response. (French summary) (Not in MR)
- Prentice, Ross L. see Robins, James M.; et al., 91b:62097 and O'Quigley, John, (Not in MR)
- Quang, Pham Xuan Confidence intervals for densities in line transect sampling. (French summary) 91c:62275
- A nonparametric approach to size-biased line transect sampling. (French summary) (Not in MR)
- Rachev, Svetlozar T. see Khanin, L. G.; et al., 91b:62091
- Rao, B. Raja Life expectancy for a class of life distributions having the "setting the clock back to zero" property. (Not in MR)
- Rao, M. Bhaskara see Veli, Raja P., (Not in MR)
- Read, K. L. Q. see Noura, A. A., (Not in MR)
- Rice, William R. A consensus combined P-value test and the family-wide significance of component tests. (French summary) (Not in MR)
- Richter, Otto see Söndgerath, Dagmar, (Not in MR)
- Robins, James M. (with Greenland, Sander) The probability of causation under a stochastic model for individual risk. (French summary) 91a:62288
- (with Prentice, Ross L.; Blevins, Donald) Designs for synthetic case-control studies in open cohorts. (French summary) 91b:62097
- Royall, Richard M. Ethics and statistics in randomized clinical trials. (Not in MR)
- Simon, Richard see Durrleman, Sylvain, (Not in MR)
- Singh, K. K. see Bhattacharya, B. N.; et al., (Not in MR)
- Singh, Uttam see Bhattacharya, B. N.; et al., (Not in MR)
- Söndgerath, Dagmar (with Richter, Otto) An extension of the Leslie matrix model for describing population dynamics of species with several development stages. (French summary) (Not in MR)
- Stijnen, Th. (with van Houwelingen, J. C.) Empirical Bayes methods in clinical trials meta-analysis. (Not in MR)
- Su, John Q. see Wei, L. J.; et al., (Not in MR)
- Tango, Toshiro Asymptotic distribution of an index for disease clustering. (French summary) (Not in MR)
- Thall, Peter F. (with Vail, Stephen C.) Some covariance models for longitudinal count data with overdispersion. (French summary) (Not in MR)
- Tosh, D. see McLeish, D. L., (Not in MR)
- Turnbull, Bruce W. see Jennison, Christopher, 91b:62140
- Vail, Stephen C. see Thall, Peter F., (Not in MR)
- Veli, Raja P. (with Rao, M. Bhaskara) Estimation of parent-offspring correlation. (Not in MR)
- Wei, L. J. (with Su, John Q.; Lachin, John M.) Interim analyses with repeated measurements in a sequential clinical trial. (Not in MR)
- Weir, B. S. (with Basten, C. J.) Sampling strategies for distances between DNA sequences. (French summary) (Not in MR)
- Walter, Kirk M. Capture-recapture estimation in the presence of a known sex ratio. (French summary) (Not in MR)
- Wa, Margaret C. (with Carroll, Raymond J.) Correction to: "Estimation and comparison of changes in the presence of informative right censoring by modeling the censoring process" [Biometrics 44 (1988), no. 1, 175-188; MR 89d:62109]. (Not in MR)
- Yakovlev, A. Yu. see Khanin, L. G.; et al., 91b:62091
- Yanagisawa, Yukio Designs for discrimination between bivariate binary response models. (French summary) (Not in MR)
- Zelterman, Daniel On tests for qualitative interactions. 91c:62276
- Items with secondary classifications in 62P10
- Achcar, Jorge Alberto (with Pericchi, Luis Raúl; Bolfarine, Heleno) Some applications of Bayesian methods in analysis of life data. (Not in MR)
- Bacchetti, Peter Additive isotonic models. 91a:62151
- Becker, N. G. (with Heyde, C. C.) Estimating population size from multiple recapture experiments. 91b:62029
- Becker, Nikolaus (with Rittgen, Werner) Some mathematical properties of cumulative damage models regarding their application in cancer epidemiology. 91c:92073
- Begg, Colin B. On inferences from Wei's biased coin design for clinical trials. 91b:62080
- Biswas, Suddhendu ★ Stochastic processes in demography and applications. 91b:60189
- Bolfarine, Heleno see Achcar, Jorge Alberto; et al., (Not in MR)
- Conaway, Mark R. A random effects model for binary data. (French summary) (Not in MR)
- Cox, D. R. Role of models in statistical analysis. 91f:62011
- Crowley, John J. see Lin, P. Y.; et al., 91b:62087
- Cullis, B. R. see Verbyla, A. P., (Not in MR)
- Dębowska, Dorota M. (with Doksum, Kjell A.; Song, Jae-Kee) Graphical comparison of cumulative hazards for two populations. 91b:62061
- Diggle, Peter J. ★ Time series. 91c:62231
- Doksum, Kjell A. see Dębowska, Dorota M.; et al., 91b:62061
- Efron, Bradley Three examples of computer-intensive statistical inference. 91c:62109
- Fang, Kai Tai (with Liang, Jia Juang) Inequalities for the partial sums of elliptical order statistics related to genetic selection. (French summary) (Not in MR)
- Flournoy, Nancy Dependency in multivariate Markov chains. 91b:62154
- Geisser, Seymour On hierarchical Bayes procedures for predicting simple exponential survival. (French summary) 91d:62154
- Geller, Nancy L. see Tang, Del-In; et al., 91a:62139
- Gill, Richard D. see Keiding, Niels, 91b:62110
- Gnecco, Clare see Tang, Del-In; et al., 91a:62139
- Gupta, Lalpat R. (with Puri, Praja D.) Incomplete block designs for asymmetrical slope ratio assays. (Not in MR)
- Gupta, Sudhir (with Mukerjee, Rahul) On incomplete block designs for symmetric parallel line assays. 91m:62136
- Heyde, C. C. see Becker, N. G., 91b:62029
- Horváth, Lajos see Vandell, Brian S., 91b:62211
- Hu, Inchi (with Wei, C. Z.) Irreversible adaptive allocation rules. 91b:62167
- Jennison, Christopher (with Turnbull, Bruce W.) Interim analyses: the repeated confidence interval approach. 91c:62074
- Johnson, Richard A. (with Morrell, Christopher H.) Two sample rank tests under a random truncation model. 91m:62078
- Johnstone, Iain M. (with Silverman, Bernard W.) Speed of estimation in positron emission tomography and related inverse problems. 91c:62038
- Kadane, Joseph B. see Kass, Robert E.; et al., 91a:62083
- Kanno, Ryuzo see Masuyama, Motosaburo, (Not in MR)
- Kass, Robert E. (with Tierney, Luke; Kadane, Joseph B.) Approximate methods for assessing influence and sensitivity in Bayesian analysis. 91a:62083
- Keiding, Niels (with Gill, Richard D.) Random truncation models and Markov processes. 91b:62110
- Kim, Kyungmann (with Tsiatis, Anastasios A.) Study duration for clinical trials with survival response and early stopping rule. (French summary) (Not in MR)
- Lániká, Vera On the effect of misspecification in Cox's regression model. 91g:62079
- Laska, Eugene M. (with Meisner, Morris J.) Testing whether an identified treatment is best. (French summary) 91d:62059
- Liang, Jia Juang see Fang, Kai Tai, (Not in MR)
- Lin, D. Y. see Wei, L. J.; et al., 91b:62043
- Liu, P. Y. (with Voelkel, J.; Crowley, John J.) On the ratio of hazard functions in the presence of a nuisance covariate. 91b:62087
- Margolin, Barry H. see Simpson, Douglas G., 91d:62066
- Masuyama, Motosaburo (with Kanno, Ryuzo) Individual variability of dentition. (Not in MR)
- Quasi-fixed point with respect to linearized dentition plot. (Not in MR)
- Meisner, Morris J. see Laska, Eugene M., 91d:62059
- Morrell, Christopher H. see Johnson, Richard A., 91m:62078
- Mukerjee, Rahul see Gupta, Sudhir, 91m:62136
- Nakamura, Toshiyoshi Corrected score function for errors-in-variables models: methodology and application to generalized linear models. 91c:62179
- Pericchi, Luis Raúl see Achcar, Jorge Alberto; et al., (Not in MR)
- Puri, Praja D. see Gupta, Lalpat R., (Not in MR)
- Rachev, Svetlozar T. (with Yakovlev, A. Yu.) Some problems of the competing risks theory. 91a:62270
- Rao, B. Raja A simple time to tumor distribution and the "setting the clock back to zero" property. 91g:62080
- Rida, Wasima N. Asymptotic properties of some estimators for the infection rate in the general stochastic epidemic model. (Not in MR)
- Rittgen, Werner see Becker, Nikolaus, 91c:92073
- Salvan, Alessandra Planning sequential clinical trials: a review. 91a:62214
- (Sehgal, Vijay Kumar) see Biswas, Suddhendu, 91b:60189
- Silverman, Bernard W. see Johnstone, Iain M., 91c:62038
- Simpson, Douglas G. (with Margolin, Barry H.) Nonparametric testing for dose-response curves subject to downturns: asymptotic power considerations. 91d:62066
- Song, Jae-Kee see Dębowska, Dorota M.; et al., 91b:62061
- Tang, Del-In (with Gnecco, Clare; Geller, Nancy L.) An approximate likelihood ratio test for a normal mean vector with nonnegative components with application to clinical trials. 91a:62139
- Tierney, Luke see Kass, Robert E.; et al., 91a:62083
- Tosteson, Tor D. (with Ware, James H.) Designing a logistic regression study using surrogate measures for exposure and outcome. 91b:62143
- Tsiatis, Anastasios A. see Kim, Kyungmann, (Not in MR)
- Turnbull, Bruce W. see Jennison, Christopher, 91c:62074
- Verbyla, A. P. (with Cullis, B. R.) Modelling in repeated measures experiments. (Not in MR)
- Voelkel, J. see Lin, P. Y.; et al., 91b:62087
- Ware, James H. see Tosteson, Tor D., 91b:62143
- Wei, C. Z. see Hu, Inchi, 91b:62167
- Wei, L. J. (with Ying, Zhiliang; Lin, D. Y.) Linear regression analysis of censored survival data based on rank tests. 91b:62043
- Whittemore, Alice S. Errors-in-variables regression problems in epidemiology. (see 91b:62003)
- Yakovlev, A. Yu. see Rachev, Svetlozar T., 91a:62270
- Yandell, Brian S. (with Horváth, Lajos) Bootstrapped multi-dimensional product limit process. 91b:62211
- Ying, Zhiliang see Wei, L. J.; et al., 91b:62043
- Yip, Paul Estimating selective advantage and related parameters of a model for two populations competing in a bounded environment. 91b:62111

62P15 Applications to psychology

- Batchelder, William H. (with Romney, A. Kimball) New results in test theory without an answer key. 91a:62289
- ten Berge, Jos M. F. see Kiers, Henk A. L.; et al., 91m:62186

- Brady, Henry E. Factor and ideal point analysis for interpersonally incomparable data. 91c:62277
- Browne, M. W. (with Shapiro, Alexander) Robustness of normal theory methods in the analysis of linear latent variate models. 91c:62095
- Dijkstra, T. K. Some properties of estimated scale invariant covariance structures. 91j:62152
- Dunn, Graham ★ Design and analysis of reliability studies. 91c:62278
- Fligner, Michael A. (with Verducci, Joseph S.) Posterior probabilities for a consensus ordering. (Not in MR)
- Hofjink, Herbert see Molenaar, Ivo W., (Not in MR)
- Holland, Paul W. On the sampling theory foundations of item response theory models. (Not in MR)
- Holmes, D. J. The robustness of the usual correction for restriction in range due to explicit selection. (Not in MR)
- Huba, G. J. see Tanaka, J. S., 91h:62092
- Kiers, Henk A. L. (with ten Berge, Jos M. F.; Takane, Yoshio; de Leeuw, Jan) A generalization of Takane's algorithm for DEDICOM. 91m:62186
- Klauser, Karl Christoph Ordinal network representation: representing proximities by graphs. 91a:62290
- de Leeuw, Jan see Kiers, Henk A. L.; et al., 91m:62186
- Molenaar, Ivo W. (with Hofjink, Herbert) The many null distributions of person fit indices. (Not in MR)
- see also Verhelst, N., 91h:62093
- Poole, Keith T. Least squares metric, unidimensional scaling of multivariate linear models. 91j:62153
- Romney, A. Kimball see Batchelder, William H., 91a:62289
- Schwarz, Wolfgang see Vorberg, Dirk. (Not in MR)
- Shapiro, Alexander see Browne, M. W., 91c:62095
- Stout, William F. A new item response theory modeling approach with applications to unidimensionality assessment and ability estimation. 91j:62154
- Takane, Yoshio see Kiers, Henk A. L.; et al., 91m:62186
- Tanaka, J. S. (with Huba, G. J.) A general coefficient of determination for covariance structure models under arbitrary GLS estimation. 91h:62092
- Tutz, Gerhard Sequential item response models with an ordered response. (Not in MR)
- Verducci, Joseph S. see Fligner, Michael A., (Not in MR)
- Verhelst, N. (with Molenaar, Ivo W.) Logit based parameter estimation in the Rasch model. 91h:62093
- Vorberg, Dirk (with Schwarz, Wolfgang) Rasch-representable reaction time distributions. (Not in MR)
- Warm, Thomas A. Weighted likelihood estimation of ability in item response theory. 91f:62168

Items with secondary classifications in 62P15

- Beder, Jay H. (with Heim, Robert C.) On the use of ridit analysis. (Not in MR)
- Bezembinder, Th. (with Bossuyt, P.) Strong stochastic transitivity in a multidimensional probabilistic unfolding model. 91b:90009
- Bossuyt, P. see Bezembinder, Th., 91b:90009
- Buja, Andreas Remarks on functional canonical variates, alternating least squares methods and ACE. 91g:62046
- Burman, Prabir A comparative study of ordinary cross-validation, v-fold cross-validation and the repeated learning-testing methods. 91c:62080
- Goldstein, Harvey (with Wood, Robert) Five decades of item response modelling. (Not in MR)
- see also McDonald, Roderick P., 91f:62111
- van der Heijden, P. G. M. see de Leeuw, Jan; et al., 91c:62155
- Heim, Robert C. see Beder, Jay H., (Not in MR)
- de Leeuw, Jan (with van der Heijden, P. G. M.; Verboon, P.) A latent time-budget model. 91c:62155
- McDonald, Roderick P. (with Goldstein, Harvey) Balanced versus unbalanced designs for linear structural relations in two-level data. 91f:62111
- Smith, Philip L. A note on the distribution of response times for a random walk with Gaussian increments. (Not in MR)
- Sobel, Michael E. Effect analysis and causation in linear structural equation models. 91j:62083
- Sprent, Peter Some history of functional and structural relationships. 91k:62001
- Suich, Ronald C. (with Turek, Richard J.) A partial correlation test for the Goodman-Kruskal λ on a dichotomy. (Not in MR)
- Turek, Richard J. see Suich, Ronald C., (Not in MR)
- Verboon, P. see de Leeuw, Jan; et al., 91c:62155
- Wood, Robert see Goldstein, Harvey, (Not in MR)

62P20 Applications to economics [see also 90Axx]

- Amemiya, Yasuo Two-stage instrumental variable estimators for the nonlinear errors-in-variables model. (French summary) 91m:62187
- Angrist, Joshua D. Grouped-data estimation and testing in simple labor-supply models. (Not in MR)
- Arellano, Manuel Erratum: "On the efficient estimation of simultaneous equations with covariance restrictions" [J. Econometrics 42 (1989), no. 2, 247-265; MR 90m:62241]. (Not in MR)
- (with Sargan, J. D.) Imhof approximations to econometric estimators. 91j:62155
- Aznar Grass, Antonio (with Trivez, Francisco Javier) Relations among causality, exogeneity and predeterminacy. (Spanish. English summary) 91a:62291
- Baillie, Richard T. Econometric tests of rationality and market efficiency. 91a:62292
- Baltagi, Badi H. (with Li, Qi) A Lagrange multiplier test for the error components model with incomplete panels. (Not in MR)
- The error components regression model: conditional relative efficiency comparisons. 91d:62157
- (with Li, Qi) A joint test for serial correlation and random individual effects. 91m:62188
- Bates, Charles (with White, Halbert) Efficient instrumental variables estimation of systems of implicit heterogeneous nonlinear dynamic equations with nonspherical errors. 91f:62169
- Bierens, Herman J. (with Pott-Buter, Hettie A.) Specification of household Engel curves by nonparametric regression. 91m:62189
- (Blundell, Richard) see Bierens, Herman J., 91m:62189
- Boldac, Denis (with Poole, Erik) Ordinal probit model with random bounds. (Not in MR)
- Brown, Bryan W. (with Mariano, Roberto S.) Predictors in dynamic nonlinear models: large-sample behavior. 91c:62096
- Butler, J. S. see Rich, Robert W.; et al., (Not in MR)
- Campos, Julia (with Ericsson, Neil R.; Hendry, David F.) An analogue model of phase-averaging procedures. (Not in MR)
- Chen, Ding Geng Problems of selecting econometric models. (Chinese. English summary) (Not in MR)
- Chesher, Andrew (with Spady, Richard) Asymptotic expansions of the information matrix test statistic. (Not in MR)
- Choudhury, Askar H. (with St. Louis, Robert D.) A note on Park and Heikes' (1983) modified approximate estimator for the first-order moving-average process. (Not in MR)
- Conlon, John R. Quality, measurement errors, and profit function estimation: using a clustered sample. (Not in MR)
- Costa, Michele see Parola, Paolo, (Not in MR)
- Dhrymes, Phoebus J. ★ Topics in advanced econometrics. 91b:62219
- Restricted reduced forms, forecasting and the GLSEM. 91f:62170
- Dijkstra, T. K. (with Wansbeek, Tom) Comment on: "A note on instrumental variables and maximum likelihood estimation procedures" [Ann. Econom. Statist. 1988, no. 10, 121-138; MR 89j:62148] by A. Holly and J. R. Magnus. (French summary) 91j:62156
- Domowitz, Ian (with Muus, Lars) Likelihood inference in the nonlinear regression model with explosive linear dynamics. 91g:62085
- Dreze, Jacques H. (with Mouchart, Michel) Tales of testing Bayesians. (see 91b:62004)
- Dufour, Jean-Marie Exact tests and confidence sets in linear regressions with autocorrelated errors. 91c:62279
- Dutta, Jayaiah On resampling inference in econometric models. 91c:62280
- (with Leon, H. L.) Testing for heterogeneous parameters in least-squares approximations. 91m:62190
- Engle, R. F. see Hyllberg, S.; et al., 91d:62158
- Ericsson, Timothy Proper posteriors from improper priors for an unidentified errors-in-variables model. 91b:62220
- Ericsson, Neil R. see Campos, Julia; et al., (Not in MR)
- Florens, Jean-Pierre (with Mouchart, Michel) Bayesian specification tests. (see 91k:90005)
- Friedmann, Ralph Bounds for exact moments of estimators in the errors-in-variables model and simultaneous equations. 91b:62141
- Fukushige, Mototsugu (with Hatanaka, Michio) Estimation of a regression model on two or more sets of differently grouped data. (Not in MR)
- Garbely, Myriam (with Gilli, Manfred) Qualitative decomposition of the eigenvalue problem in a dynamic system. (Not in MR)
- Geweke, John Bayesian inference in econometric models using Monte Carlo integration. 91a:62293
- Ghazal, G. A. The exact moments of the two-stage least squares estimators in the general dynamic model. (Not in MR)
- (with Haroun, A. H.) Shiller's distributed lag estimator: exact finite sample results. (Not in MR)
- Ghysels, Eric (with Hall, Alastair) A test for structural stability of Euler conditions parameters estimated via the generalized method of moments estimator. 91a:62294
- (with Hall, Alastair) Are consumption-based intertemporal capital asset pricing models structural? 91c:62281
- Gill, Richard D. Regression analysis for incomplete mixed cross-section and time-series data by a modified EM algorithm. 91b:62221
- Gilli, Manfred see Garbely, Myriam, (Not in MR)
- Gourieroux, Christian (with Peaucelle, Irina) Hétérogénéité. I. Étude des biais d'estimation dans le cas linéaire. (English summary) [Heterogeneity. I. Study of estimation biases in the linear case] (Not in MR)
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- Granger, Clive W. J. see Hyllberg, S.; et al., 91d:62158
- Greene, William H. A gamma-distributed stochastic frontier model. (Not in MR)
- Multiple roots of the Tobit log-likelihood. (Not in MR)
- Gregory, Allan W. (with Smith, Gregor W.) Calibration as estimation. (Not in MR)
- (Hackl, Peter) see Statistical analysis and forecasting of economic structural change, 91m:62191
- Hall, Alastair see Ghysels, Eric, 91a:62294 and 91c:62281
- Hansen, Lars Peter A central-limit result for instrumental variables estimators of linear time series models. 91f:62171
- Haroun, A. H. see Ghazal, G. A., (Not in MR)
- Hatanaka, Michio see Fukushige, Mototsugu, (Not in MR)
- Heckman, James J. (with Honoré, Bo E.) The identifiability of the competing risks model. 91c:62097
- Hendry, David F. (with Richard, Jean-François) Recent developments in the theory of encompassing. (see 91k:90005)
- see also Campos, Julia; et al., (Not in MR)
- Hillier, Grant H. On the normalization of structural equations: properties of direction estimators. (Not in MR)
- Hoem, Jan M. Identifiability in hazard models with unobserved heterogeneity: the compatibility of two apparently contradictory results. 91g:62086
- (Holly, Alberto) see Dijkstra, T. K., 91j:62156
- Hong, Zai Ji Application of the jackknife method to a simultaneous equation econometric model. (Chinese. English summary) (Not in MR)
- Honoré, Bo E. Simple estimation of a duration model with unobserved heterogeneity. 91c:62098
- see also Heckman, James J., 91c:62097

- Hosoya, Yuzo (with Tsukuda, Yoshihiko; Terui, Nobuhiko) Ancillarity and the limited information maximum-likelihood estimation of a structural equation in a simultaneous equation system. 91f:62172
- Hsiao, Cheng Consistent estimation for some nonlinear errors-in-variables models. 91f:62173
- Hu, Nan Hua Practical estimators for error variance in econometric models. (Chinese. English summary) (Not in MR)
- Hylleberg, S. (with Engle, R. F.; Granger, Clive W. J.; Yoo, B. S.) Seasonal integration and cointegration. 91d:62158
- Kadiyala, K. R. (with Oberhelman, H. Dennis) Estimation of standard errors of empirical Bayes estimators in CAPM-type models. (Not in MR)
- Kakwani, Nanak Large sample distribution of several inequality measures: with application to Côte d'Ivoire. 91f:62142
- King, Maxwell L. (with Wu, Ping X.) Small-disturbance asymptotics and the Durbin-Watson and related tests in the dynamic regression model. (Not in MR)
- Klein, L. R. The concept of exogeneity in econometrics. (see 91b:62004)
- Kobayashi, Masahito (with Sakata, Shinichi) Mallows' C_p criterion and unbiasedness of model selection. 91j:62157
- Krol, Robert (with Ohanian, Lee E.) The impact of stochastic and deterministic trends on money-output causality: a multi-country investigation. (Not in MR)
- Laffargue, Jean-Pierre Résolution d'un modèle macroéconomique avec anticipations rationnelles. (English summary) [Solution of a macroeconomic model with rational expectations] (Not in MR)
- Lee, Myoung-jae Mode regression. 91b:62222
- Leon, H. L. see Dutta, Jayasri, 91m:62190
- (Lewbel, Arthur) see Bierens, Herman J., 91m:62189
- Li, Qi see Baltagi, Badi H., 91m:62188 and (Not in MR)
- Lo, Andrew W. (with MacKinlay, A. Craig) An econometric analysis of nonsynchronous trading. 91b:62094
- Loretan, Mico see Phillips, Peter C. B., (Not in MR)
- Lütkepohl, Helmut A note on the asymptotic distribution of impulse response functions of estimated VAR models with orthogonal residuals. 91f:62174
- MacKinlay, A. Craig see Lo, Andrew W., 91b:62094
- Magdalinos, Michael A. The classical principles of testing using instrumental variables estimates. 91e:62282
- (Magnus, Jan R.) see Dijkstra, T. K., 91j:62156
- Maidinirata, Ajay Largest size-efficient scale and size efficiencies of decision-making units in data envelopment analysis. (Not in MR)
- Mariano, Roberto S. see Brown, Bryan W., 91c:62096
- McCarthy, Michael D. Estimation and testing of regression coefficients in Cobb-Douglas and other models. 91e:62283
- McFadden, Daniel A method of simulated moments for estimation of discrete response models without numerical integration. 91a:62295
- McLaren, Keith R. A variant on the arguments for the invariance of estimators in a singular system of equations. 91j:62158
- Morgan, Mary S. ★ The history of econometric ideas. 91f:62175
- Morimune, Kimio t test in a structural equation. 91a:62296
- Mouchart, Michel see Drize, Jacques H., (91b:62004); Florens, Jean-Pierre, (91k:90005) and Pagan, Adrian, (91k:90005)
- Mum, Lars see Domowitz, Ian, 91c:62085
- Nawata, Kazumitsu Semiparametric estimation and efficiency bounds of binary choice models when the models contain one continuous variable. 91e:62284
- Robust estimation based on grouped-adjusted data in linear regression models. 91b:62223
- Nelson, Charles R. (with Startz, Richard) Some further results on the exact small sample properties of the instrumental variable estimator. 91e:62285
- Nelson, Daniel B. Conditional heteroskedasticity in asset returns: a new approach. (Not in MR)
- Nelson, Forrest D. (with Savin, N. E.) The danger of extrapolating asymptotic local power. (Not in MR)
- Nijman, Theo E. (with Steel, Mark F. J.) Exclusion restrictions in instrumental variables equations. 91j:62159
- Nygård, Fredrik (with Sandström, Arne) The weighted mean difference. (Italian summary) 91a:62297
- Oberhelman, H. Dennis see Kadiyala, K. R., (Not in MR)
- Ohanian, Lee E. see Krol, Robert, (Not in MR)
- Pagan, Adrian Twenty years after: econometrics, 1966–1986. (see 91k:90005)
- Paruolo, Paolo (with Costa, Michele) Information and capital asset pricing models: an empirical test on Italian data. (Italian. English summary) (Not in MR)
- Peacock, Irma see Gouriéroux, Christian, (Not in MR)
- Peracchi, Franco Bounded-influence estimators for the Tobit model. (Not in MR)
- Pesaran, M. Hashem (with Smith, Richard J.) A unified approach to estimation and orthogonality tests in linear single-equation econometric models. 91g:62087
- Peters, Simon (with Smith, Richard J.) Distributional specification tests against semiparametric alternatives. 91b:62098
- Phillips, Peter C. B. (with Loretan, Mico) The Durbin-Watson ratio under infinite-variance errors. (Not in MR)
- Pollak, Robert A. (with Wales, Terence J.) The likelihood dominance criterion: a new approach to model selection. (Not in MR)
- Poole, Erik see Bolduc, Denis, (Not in MR)
- Pott-Buter, Hettie A. see Bierens, Herman J., 91m:62189
- Provost, Serge B. Alternate test statistics for a functional errors-in-variables model. (Not in MR)
- Quah, Danny An improved note for nonnegative definite consistent covariance matrix estimation with heterogeneous dependent data. 91e:62286
- Raymond, Jennie see Rich, Robert W.; et al., (Not in MR)
- Rich, Robert W. (with Raymond, Jennie; Butler, J. S.) Generalized instrumental variables estimation of autoregressive conditional heteroskedastic models. (Not in MR)
- Richard, Jean-François see Hendry, David F., (91k:90005)
- Robinson, P. M. Hypothesis testing in semiparametric and nonparametric models for econometric time series. 91h:62095
- Rothberg, Thomas J. (with Ruud, Paul A.) Simultaneous equations with covariance restrictions. 91d:62159
- Ruud, Paul A. see Rothberg, Thomas J., 91d:62159
- Saikkonen, Pentti Asymptotic relative efficiency of the classical test statistics under misspecification. 91a:62298
- Sakata, Shinichi see Kobayashi, Masahito, 91j:62157
- Sandström, Arne see Nygård, Fredrik, 91a:62297
- Sargan, J. D. see Arellano, Manuel, 91j:62155
- Savin, N. E. see Nelson, Forrest D., (Not in MR)
- Schmidt, Peter Joseph Three-stage least squares with different instruments for different equations. (Not in MR)
- Seiford, Lawrence M. (with Thrall, Robert M.) Recent developments in DEA: the mathematical programming approach to frontier analysis. 91f:62143
- Sengupta, Jati K. Transformations in stochastic DEA models. 91f:62144
- Singh, Balvir see Srivastava, M. S., 91a:62299
- (Slesnick, Daniel T.) see Bierens, Herman J., 91m:62189
- Smith, Gregor W. see Gregory, Allan W., (Not in MR)
- Smith, Richard J. see Pesaran, M. Hashem, 91g:62087 and Peters, Simon, 91h:62098
- Spady, Richard see Chesher, Andrew, (Not in MR)
- Srivastava, M. S. (with Singh, Balvir) Bootstrapping in multiplicative models. 91a:62299
- Srivastava, Virendra Kumar Developments in double k -class estimators of parameters in structural equations. 91e:62287
- Startz, Richard see Nelson, Charles R., 91e:62285
- Steel, Mark F. J. see Nijman, Theo E., 91j:62159
- St. Louis, Robert D. see Choudhury, Askar H., (Not in MR)
- Terui, Nobuhiko see Hosoya, Yuzo; et al., 91f:62172
- Thistle, Paul D. Large sample properties of two inequality indices. (Not in MR)
- Thrall, Robert M. see Seiford, Lawrence M., 91f:62143
- Trívez, Francisco Javier see Aznar Grasa, Antonio, 91a:62291
- Tsukuda, Yoshihiko see Hosoya, Yuzo; et al., 91f:62172
- Turkington, Darrell A. Classical tests for contemporaneously uncorrelated disturbances in the linear simultaneous equations model. 91a:62300
- Ullah, Aman Finite sample econometrics: a unified approach. (see 91b:62004)
- (Waelbroeck, Jean) see Pagan, Adrian, (91k:90005)
- Wales, Terence J. see Pollak, Robert A., (Not in MR)
- Wansbeck, Tom see Dijkstra, T. K., 91j:62156
- White, Halbert see Bates, Charles, 91f:62169
- Wooldridge, Jeffrey M. A unified approach to robust, regression-based specification tests. (Not in MR)
- An encompassing approach to conditional mean tests with applications to testing nonnested hypotheses. 91f:62145
- On the application of robust, regression-based diagnostics to models of conditional means and conditional variances. (Not in MR)
- Wu, Ping X. see King, Maxwell L., (Not in MR)
- Yoo, B. S. see Hylleberg, S.; et al., 91d:62158
- Items listed otherwise than by author
- Statistical analysis and forecasting of economic structural change ★ Statistical analysis and forecasting of economic structural change. 91m:62191
- Items with secondary classifications in 62P20
- Alvoni, Elisabetta (with Corradi, Corrado) A Chandrasekhar type square root smoother for the Bayesian decomposition of a time series. (Italian summary) (Not in MR)
- Andersen, Per Kragh (with Borgan, Ørnulf; Gill, Richard D.; Keiding, Niels) Censoring, truncation and filtering in statistical models based on counting processes. 91h:62084
- Bansal, Naveen K. Comparison of the slope parameters in errors-in-variables model. 91b:62084
- Barbut, Marc Erratum: "Distributions of Pareto type and representations of inequalities" [Math. Sci. Humaines No. 106 (1989), 53–69; MR 90k:90043]. (French) 91d:90021
- (Barnett, William A.) see Dynamic econometric modeling, 91a:90005
- Bekker, Paul A. Identification in restricted factor models and the evaluation of rank conditions. 91f:62109
- (with Dijkstra, T. K.) On the nature and number of the constraints on the reduced form as implied by the structural form. 91h:65055
- (Berndt, Ernst R.) see Dynamic econometric modeling, 91a:90005
- Bhandari, Subir Kumar see Das Gupta, Somesh, 91f:60035
- Bierens, Herman J. A consistent conditional moment test of functional form. 91f:62082
- Binkley, James K. (with Nelson, Carl H.) How much better is disaggregate data? (Not in MR)
- Borgan, Ørnulf see Andersen, Per Kragh; et al., 91h:62084
- (Carter, R. A. L.) see Contributions to econometric theory and application, 91b:62004
- Chaturvedi, Anoop (with Shukla, Govind) Lindley-like mean correction in the improved estimation of regression models with nonscalar covariance matrix. 91a:62160
- Clarke, Judith A. see Giles, David E. A., 91a:62164
- Corradi, Corrado see Alvoni, Elisabetta, (Not in MR)
- Dai, Yi Sheng see Zhang, Shi Ying, (Not in MR)
- Das Gupta, Somesh (with Bhandari, Subir Kumar) Multivariate majorization. 91f:60035
- Davidson, Russell (with MacKinnon, James G.) Artificial regressions and $C(\alpha)$ tests. (Not in MR)
- Dezhbakhsh, Hashem see Thursby, Jerry G., 91d:62183
- Dijkstra, T. K. see Bekker, Paul A., 91f:62109
- (Dutta, Jayasri) see Contributions to econometric theory and application, 91b:62004
- Francis, Drago Continuous capitalization and debt management. (Serbo-Croatian summary) (see 91m:90027)
- Gailbraith, John W. see Zinde-Walsh, Victoria, 91m:62169
- Ghazal, G. A. Test of equality of coefficients in two sets of seemingly unrelated regressions. (Not in MR)
- The error of forecast for seemingly unrelated regression (SUR) equations. (Not in MR)

- Giles, David E. A. (with Clarke, Judith A.) Preliminary-test estimation of the scale parameter in a mis-specified regression model. 91a:62164
- Gill, Richard D. see Andersen, Per Kragh; et al. 91b:62084
- Granger, Clive W. J. (with Uhlig, Harald F.) Reasonable extreme-bounds analysis. 91e:62175
- Henderson, Harold V. (with Searle, Shayle R.) Generalized dispersion matrices for covariance structural analysis. 91f:62118
- Holly, Alberto (with Rockinger, Georg Michael) Exact and approximate distribution of the t ratio test statistic in an AR(1) model. 91f:62121
- Holzer, Silvano On Chew's axiomatic treatment of the $M_{\alpha p}$ mean. (Italian summary) 91m:60035
- Hoque, Asraul The efficiency of the Cochran-Orcutt procedure. 91e:62176
- Ingram, Beth Fisher see Lee, Bong-Soo. 91m:62163
- Jain, L. R. A note on Iyengar's method of estimating Engel elasticities from grouped data. (Not in MR)
- Jinadasa, K. G. (with Tracy, Derrick S.) Multivariate linear ultrastructural relationships model. 91j:62087
- Kasa, Kenneth Extensions of the Hansen-Sargent prediction formulas to sampled and aggregated data. (Not in MR)
- Keiding, Niels see Andersen, Per Kragh; et al. 91b:62084
- Kneisner, Thomas J. see Smith Conway, Karen. (Not in MR)
- Köpper, Franz ★ Sequential tests für die Stichprobeninventur. (German) [Sequential tests for sample inventory] 91b:90071
- Lee, Bong-Soo (with Ingram, Beth Fisher) Simulation estimation of time-series models. 91m:62163
- Lien, Da-Hsiang Donald (with Rearden, David) Missing measurements in discrete response models. (Not in MR)
- Liu, Jin Shan Finite sample results for the two-stage estimator for a class of seemingly unrelated regression systems. (Chinese. English summary) (Not in MR)
- MacKinnon, James G. see Davidson, Russell. (Not in MR)
- (Nagar, A. L.) see Contributions to econometric theory and application, 91b:62004
- Nakamura, Tsuyoshi Corrected score function for errors-in-variables models: methodology and application to generalized linear models. 91e:62179
- Nelson, Carl H. see Binkley, James K. (Not in MR)
- Neudecker, H. On the identification of restricted factor loading matrices: an alternative condition. 91m:62111
- Otter, Pieter W. On Wiener-Granger causality, information and canonical correlation. (Not in MR)
- Ouliaris, S. see Phillips, Peter C. B. 91j:62134
- Peracchi, Franco Robust M -estimators. 91m:62069
- Phillips, Peter C. B. (with Ouliaris, S.) Asymptotic properties of residual based tests for cointegration. 91j:62134
- Powell, James L. (with Stock, James H.; Stoker, Thomas M.) Semiparametric estimation of index coefficients. 91a:62094
- see also Peracchi, Franco. 91m:62069
- Rearden, David see Lien, Da-Hsiang Donald. (Not in MR)
- Rockinger, Georg Michael see Holly, Alberto. 91f:62121
- Seaks, Terry G. The computation of test statistics for multivariate regression models in event studies. (Not in MR)
- Searle, Shayle R. see Henderson, Harold V. 91f:62118
- Shukla, Govind see Chaturvedi, Anoop. 91a:62160
- Smith Conway, Karen (with Kneisner, Thomas J.) The important econometric features of a linear regression model with cross-correlated random coefficients. (Not in MR)
- Sprent, Peter Some history of functional and structural relationships. 91k:62001
- Srivastava, Virendra Kumar see Ullah, Aman. 91b:62147
- Stock, James H. see Powell, James L.; et al. 91a:62094
- Stoker, Thomas M. see Powell, James L.; et al. 91a:62094
- Thursby, Jerry G. (with Dezhbakhsh, Hashem) Equivalence properties of the Hausman statistic based on a generalized inverse. 91d:62103
- Tracy, Derrick S. see Jinadasa, K. G. 91j:62087
- Uhlig, Harald F. see Granger, Clive W. J. 91e:62175
- Ullah, Aman (with Srivastava, Virendra Kumar) On the improved estimation of structural coefficients. 91b:62147
- see also Contributions to econometric theory and application, 91b:62004
- Weiss, Andrew A. Least absolute error estimation in the presence of serial correlation. 91d:62105
- (White, Halbert) see Dynamic econometric modeling, 91a:90005
- Yitzhaki, Shlomo On the sensitivity of a regression coefficient to monotonic transformations. 91f:62124
- Zhang, Shi Ying (with Dai, Yi Sheng) The Bayesian analysis of models with multiregimes. (Chinese. English summary) (Not in MR)
- Zinde-Walsh, Victoria (with Galbraith, John W.) Estimation of a linear regression model with stationary ARMA(p, q) errors. 91m:62169

Items listed otherwise than by author

Austin, TX ★ Dynamic econometric modeling. 91a:90005

Conference:

Dynamic Econometric Modeling ★ Dynamic econometric modeling. 91a:90005

Contributions to econometric theory and application ★ Contributions to econometric theory and application. 91b:62004

Dynamic econometric modeling ★ Dynamic econometric modeling. 91a:90005

Symposium:

Economic Theory and Econometrics ★ Dynamic econometric modeling. 91a:90005

62P25 Applications to social sciences

Bhattacharyya, Amit Kumar Sampling bias MSE and confidence intervals for some fertility measures under cluster sampling scheme. (Not in MR)

Items with secondary classifications in 62P25

- Doi, Atsuko (with Sakaguchi, Minoru) An entropy model of brand selection behavior: ordered choice of two brands. 91g:90012
- Hagenaars, Jacques A. ★ Categorical longitudinal data. 91b:62055
- Mian, I. U. H. (with Shoukri, M. M.; Tracy, Derrick S.) Maximum likelihood estimation of sibling correlations in the analysis of family data. 91m:62120
- Sakaguchi, Minoru see Doi, Atsuko. 91g:90012
- Shoukri, M. M. see Mian, I. U. H.; et al. 91m:62120
- Tracy, Derrick S. see Mian, I. U. H.; et al. 91m:62120

62P99 None of the above, but in this section

- Bairagi, Radheshyam (with Suchindran, C. M.) An estimator of the cutoff point maximizing sum of sensitivity and specificity. (Not in MR)
- Suchindran, C. M. see Bairagi, Radheshyam. (Not in MR)

Items with secondary classifications in 62P99

- Aczél, János Determining merged relative scores. 91g:90089
- Breckling, Jens ★ The analysis of directional time series: applications to wind speed and direction. 91f:62146
- Chitashvili, R. Ya. see Khmaladze, E. V. 91m:62032
- Dalal, Siddhartha R. (with Lee, Jack C.; Sabavala, Darius J.) Empirical Bayes prediction for a compound Poisson-multinomial process. 91b:62010
- Fleming, Thomas R. see Therneau, Terry M.; et al. 91e:62241
- Grambsch, Patricia M. see Therneau, Terry M.; et al. 91e:62241
- Khmaladze, E. V. (with Chitashvili, R. Ya.) Statistical analysis of a large number of rare events and related problems. (Russian) 91m:62032
- Komáromi, Éva On the convergence of a dual algorithm for the solution of the probabilistic constrained linear programming problem. (Hungarian. English summary) 91e:90073
- Lee, Jack C. see Dalal, Siddhartha R.; et al. 91b:62010
- Martens, Harald (with Næs, Tormod) ★ Multivariate calibration. 91e:62050
- Martin, Richard John The use of time-series models and methods in the analysis of agricultural field trials. 91d:62142
- Næs, Tormod see Martens, Harald. 91e:62050
- Sabavala, Darius J. see Dalal, Siddhartha R.; et al. 91b:62010
- Sorooshian, Soroosh see Vazirinejad, Shamsedin. 91j:62097
- Therneau, Terry M. (with Grambsch, Patricia M.; Fleming, Thomas R.) Martingale-based residuals for survival models. 91e:62241
- Vazirinejad, Shamsedin (with Sorooshian, Soroosh) A comparison of simultaneous equations, weighted regression, and noise-in-variables models. 91j:62097

62Q05 Statistical tables

- Daripa, Prabir Using the grid spacing ratio as a continuous variable in one-dimensional adaptive grid generation. (Not in MR)
- Lana del Castillo, J. D. see Martín Andrés, A. (Not in MR)
- Martín Andrés, A. (with Luna del Castillo, J. D.) P -values for the optimal version of Fisher's exact test in the comparison of two independent proportions. (Not in MR)
- Nematollahi, N. see Parsian, Ahmad. (Not in MR)
- Parsian, Ahmad (with Nematollahi, N.) Tables of critical values for some likelihood ratio tests. (Not in MR)
- Røyer, Th. Tables for Studentized multivariate maximum ranges and their application by maximum range tests. (Not in MR)

Items with secondary classifications in 62Q05

- Quade, Dana see Salama, Ibrahim A. (Not in MR)
- Salama, Ibrahim A. (with Quade, Dana) A note on Spearman's footrule. (Not in MR)

65-XX Numerical analysis

65-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- Brandt, Achl The Weizmann Institute research in multilevel computation: 1988 report. (see 91e:65008)
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- Flannery, Brian P. see Press, William H.; et al. 91a:65001
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- Teukolsky, Saul A. see Press, William H.; et al. 91a:65001
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(Bakhtalov, N. S.) see Hairer, Ernst; et al., 91e:65002

(Bénilan, Philippe) see Dautray, Robert, 91h:00004b

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- Franklin, M. A. *see* Lokot', E. A.; et al., (Not in MR)
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- Romani, Francesco *see* Bevilacqua, Roberto; et al., 91g:65001
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- Squazzero, P. *see* Radicati di Brozolo, Giuseppe; et al., (Not in MR)
- Shacham, Mordechai *see* Shacham, Orit, (Not in MR)
- Shacham, Orit (with Shacham, Mordechai) Finding boundaries of the domain of definition for functions along a one-dimensional ray. (Not in MR)
- Shokurov, A. V. (with Zakharova, N. I.) Generation of random sequences on vector-pipeline computers. (Russian) (Not in MR)
- Simon, Horst D. *see* Grimes, Roger G., (Not in MR)
- Somme, Andrew John *see* Morgan, Alexander P.; et al., 91g:65003
- Stoutemyer, David R. What computer algebra systems can and cannot do. (see 91e:00020)
- Tang, Ping Tak Peter Accurate and efficient testing of the exponential and logarithm functions. (Not in MR)
- Tchente, Maurice *see* Louka, Basile, 91g:65002
- Thejll, P. (with Gilbert, Robert P.) The use of MACSYMA for solving elliptic boundary value problems. (German and Russian summaries) (Not in MR)
- Van Heerden, T. *see* Pellegrino, S., 91k:65002
- Vesely, Vítězslav Fast cell-structured algorithm for digit reversal of arbitrary length. 91m:65001
- Vrahatis, Michael N. Solving systems of nonlinear equations using the nonzero value of the topological degree. 91g:65006
- Algorithm 666. CHABIS: a mathematical software package for locating and evaluating roots of systems of nonlinear equations. 91g:65007
- Watson, Layne T. *see* Morgan, Alexander P.; et al., 91g:65003
- Wiberg, Torbjörn *see* Duff, Iain S., (Not in MR)
- Zakharova, N. I. *see* Shokurov, A. V., (Not in MR)
- Zirilli, Francesco *see* Aluffi-Pentini, Filippo; et al., (Not in MR) and (Not in MR)
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- Aluffi-Pentini, Filippo (with Caglioti, Emanuele; Misici, Luciano; Zirilli, Francesco) A parallel algorithm for a three-dimensional inverse acoustic scattering problem. (see 91m:65006)
- Arushanyan, O. B. (with Zol'tkin, S. F.) * Численное решение обыкновенных дифференциальных уравнений на Фортране. (Russian) [Numerical solution of ordinary differential equations in Fortran] 91m:65187
- Barnsley, Michael F. * The Desktop Fractal Design System. 91h:58062
- Bellen, A. (with Vermiglio, R.; Zennaro, Marino) Parallel ODE-solvers with stepsize control. 91i:65119
- Beltzer, Abraham I. * Variational and finite element methods. 91e:65001
- Caglioti, Emanuele *see* Aluffi-Pentini, Filippo; et al., (91m:65006)
- Cash, J. R. (with Karp, Alan H.) A variable order Runge-Kutta method for initial value problems with rapidly varying right-hand sides. (Not in MR)
- Chan, Tony F. (with Tuminaro, Ray S.) Analysis of a parallel multigrid algorithm. (see 91e:65008)
- Chen, Benito C. (with Onoda, Mahoki) Array architecture for solving a large-scale linear system of equations by block iterative method and high-speed approach. (Not in MR)
- Chen, K. *see* Lin, Feng Ch'ing, 91j:65079
- Chernyshenko, Yu. A. *see* Lando, S. K., 91b:65143
- Ciminiera, Luigi (with Montuschi, Paolo) Higher radix square rooting. 91h:11151
- Cortius, George F. (with Krenz, Gary S.) Indefinite integration with validation. (Not in MR)
- Czichowski, Günter Behandlung von Differentialgleichungen mit Lie-Theorie und Computer. [Treatment of differential equations with Lie theory and computer] 91h:34003
- Dedieu, Jean-Pierre (with Roy, Marie-Françoise) Factorisation équimodulaire des polynômes à coefficients réels et calcul formel. (English summary) [Equimodular factorization of real polynomials and computer algebra] 91d:12021
- Dimov, Ivan T. *see* Tuncer, O.; et al., (91m:65003)
- Domich, Paul D. Residual Hermite normal form computations. 91d:15020
- Everbrink, L. Magnus (with Luk, Franklin T.) Computing the singular value decomposition on the connection machine. 91b:65049
- Eyre, David J. *see* Alfeld, Peter; et al., (91j:41001)
- Flannery, Brian P. *see* Press, William H.; et al., 91a:65001
- Gabisoniya, V. E. (with Kharchev, V. N.) * Математические аспекты автоматического проектирования. (Russian) [Mathematical aspects of automated design] 91c:65043
- Ganzha, V. G. (with Meleshko, S. V.; Shapeev, V. P.) Intermediate computations in analytic investigations of differential equations on a computer. (Russian) 91j:65141
- Gaston, F. M. F. *see* Megson, G. M., 91h:65228
- Johnson, Jeremy R. (with Johnson, Robert Warren; Rodriguez, D.; Tolimieri, Richard) A methodology for designing, modifying, and implementing Fourier transform algorithms on various architectures. 91j:65204

- Johnson, Robert Warren *see* Johnson, Jeremy R.; et al., 91f:65204
- Karp, Alan H. *see* Cash, J. R. (Not in MR)
- Kharchev, V. N. *see* Gabisoniya, V. E., 91c:65043
- Krenz, Gary S. *see* Corliss, George F. (Not in MR)
- Kuczyński, Jacek Implementation of the gnr algorithm for large symmetric eigenproblems. 91g:65073
- Lando, S. K. (with Chernysheko, Yu. A.) An algorithm for separating the branches of a multivalued function. (Russian) 91b:65143
- Lin, Feng Ch'ing (with Chen, K.) On the design of an integrated systolic array for solving simultaneous linear equations. 91j:65079
- Luk, Franklin T. *see* Ewerbring, L. Magnus, 91b:65049
- Megson, G. M. An efficient double pipe systolic array for matrix product. 91j:65073
- (with Gaston, F. M. F.) Improved matrix triangularisation using a double pipeline systolic array. 91b:65228
- Melenk, Herbert Solving polynomial equation systems by Groebner type methods. (Not in MR)
- Meleshko, S. V. *see* Ganzha, V. G.; et al., 91f:65141
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- Onoda, Mahoki *see* Chen, Benito C. (Not in MR)
- Poppe, G. P. M. (with Wijers, C. M. J.) Algorithm 680: evaluation of the complex error function. 91h:65068
- Press, William H. (with Flannery, Brian P.; Teukolsky, Saul A.; Vetterling, William T.) * Numerical recipes in Pascal. 91a:65001
- Preusser, Albrecht Efficient formulation of a bivariate nonic C^2 -Hermite polynomial on triangles. (Not in MR)
- Prudnikov, A. P. (with Volkov, D. B.; Vlasov, V. I.; Yakovleva, E. A.; Vladimirova, N. Yu.) A system of algorithms and programs for solving a class of boundary value problems. (Russian) (see 91e:80006)
- Rand, Richard H. Perturbation methods and computer algebra. (see 91f:60012)
- Reinsch, Christian H. Software for shape-preserving spline interpolation. (see 91k:65011)
- Rodriguez, D. *see* Johnson, Jeremy R.; et al., 91f:65204
- Rouff, Marc (with Zhang, Wen Li) An application of REDUCE: the elimination process for bilinear or linear systems. (Not in MR)
- Roy, Marie-Françoise *see* Dedieu, Jean-Pierre, 91d:12021
- Saber, V. *see* Toner, O.; et al., (91m:65003)
- Schumaker, Larry L. *see* Alfeld, Peter; et al., (91j:41001)
- Shapov, V. P. *see* Ganzha, V. G.; et al., 91f:65141
- Teukolsky, Saul A. *see* Press, William H.; et al., 91a:65001
- Thompson, Skip Stepize control for delay differential equations using continuously imbedded Runge-Kutta methods of Sarafyan. (Not in MR)
- Tellier, Richard *see* Johnson, Jeremy R.; et al., 91f:65204
- Toner, O. (with Nikolov, P.; Saber, V.; Dimov, Ivan T.) Monte Carlo algorithms for transporter-based systems. (see 91m:65003)
- Tuminaro, Ray S. *see* Chan, Tony F., (91e:65008)
- Vermiglio, R. *see* Bellin, A.; et al., 91f:65119
- Vetterling, William T. *see* Press, William H.; et al., 91a:65001
- Vladimirova, N. Yu. *see* Prudnikov, A. P.; et al., (91e:80006)
- Vlasov, V. I. *see* Prudnikov, A. P.; et al., (91e:80006)
- Volkov, D. B. *see* Prudnikov, A. P.; et al., (91e:80006)
- Wijers, C. M. J. *see* Poppe, G. P. M., 91b:65068
- Yakovleva, E. A. *see* Prudnikov, A. P.; et al., (91e:80006)
- Zaitkin, S. F. *see* Arunhanyan, O. B., 91c:65187
- Zennaro, Marino *see* Bellin, A.; et al., 91f:65119
- Zhang, Wen Li *see* Rouff, Marc, (Not in MR)
- Zirilli, Francesco *see* Aluffi-Pentini, Filippo; et al., (91m:65006)

65-05 Experimental papers

Items with secondary classifications in 65-05

- (Cakmak, Ahmet) *see* Computational acoustics, 91f:76002
- (Lee, Ding) *see* Computational acoustics, 91f:76002
- (Vichnevetsky, Robert) *see* Computational acoustics, 91f:76002

Items listed otherwise than by author

- Computational acoustics * Computational acoustics. Vol. 1. 91f:76002
- IMACS Symposium:
Computational Acoustics * Computational acoustics. Vol. 1. 91f:76002
- Princeton, NJ * Computational acoustics. Vol. 1. 91f:76002

65-06 Proceedings, conferences, collections, etc.

- (Albrecht, J.) *see* Numerical treatment of eigenvalue problems, 91m:65005
- (Allgower, Eugene L.) *see* Computational solution of nonlinear systems of equations, 91e:65005
- (Axelsson, Owe) *see* Preconditioned conjugate gradient methods, 91k:65010
- (Bakhalov, N. S.) *see* Methods and algorithms of numerical analysis, 91k:65006; Numerical analysis: methods, algorithms, programs, 91k:65008 and Numerical analysis: methods and algorithms, 91k:65009
- (Burnhill, Robert E.) *see* Curves and surfaces in CAGD '89, 91e:65006
- (Boehm, Wolfgang) *see* Curves and surfaces in CAGD '89, 91e:65006

- (Chan, Tony F.) *see* Symposium: Domain Decomposition Methods for Partial Differential Equations, 91e:65010
- (Collatz, Lothar) *see* Numerical treatment of eigenvalue problems, 91m:65005
- (Cox, M. G.) *see* Algorithms for approximation, 91e:65003 and Reliable numerical computation, 91k:65011
- (Dahmen, Wolfgang) *see* Computation of curves and surfaces, 91e:65004 and Contributions to the computation of curves and surfaces, 91k:65005
- (Dendy, J. E., Jr.) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Dimov, Ivan T.) *see* Monte Carlo methods and parallel algorithms, 91m:65003
- (Dongarra, Jack) *see* Vector and parallel computing, 91k:65014
- (Duff, Iain S.) *see* Vector and parallel computing, 91k:65014
- (Evans, David J.) *see* Parallel computing, 91m:65006
- (Farhat, Charbel) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Flaherty, Joseph E.) *see* Adaptive methods for partial differential equations, 91m:65002
- (Gaffney, Patrick) *see* Vector and parallel computing, 91k:65014
- (Gasca, Mariano) *see* Computation of curves and surfaces, 91e:65004 and Contributions to the computation of curves and surfaces, 91k:65005
- (Georg, Kurt) *see* Computational solution of nonlinear systems of equations, 91e:65005
- (Glowinski, Roland) *see* Symposium: Domain Decomposition Methods for Partial Differential Equations, 91e:65010
- (Golberg, Michael A.) *see* Numerical solution of integral equations, 91e:65007
- (Hagedorn, P.) *see* Numerical treatment of eigenvalue problems, 91m:65005
- (Hammarling, Sven) *see* Reliable numerical computation, 91k:65011
- (Hengst, Sabine) *see* Seminar: Multigrid, 91k:65013
- (Hoschek, Josef) *see* Curves and surfaces in CAGD '89, 91e:65006
- (Karmanov, V. G.) *see* Methods and algorithms of numerical analysis, 91k:65006; Numerical analysis: methods, algorithms, programs, 91k:65008 and Numerical analysis: methods and algorithms, 91k:65009
- (Kolotilina, L. Yu.) *see* Preconditioned conjugate gradient methods, 91k:65010
- (Kowalik, Janusz S.) *see* Supercomputing, 91f:65006
- (Kuznetsov, Yuri Alekseyevich) *see* Numerical methods and software, 91m:65004
- (Lehn, J.) *see* Random numbers and simulation, 91e:65009
- (Lonsdale, Guy) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Mandel, Jan) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Marchuk, G. L.) *see* Computational processes and systems, 91g:65008
- (Mason, John C.) *see* Algorithms for approximation, 91e:65003
- (McCormick, Stephen F.) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (McKee, Sean) *see* Vector and parallel computing, 91k:65014
- (Mitchell, Charles A.) *see* Computation of curves and surfaces, 91e:65004 and Contributions to the computation of curves and surfaces, 91k:65005
- (Mikhailov, G. A.) *see* Theory and applications of statistical modeling, 91g:65009
- (Morozov, V. A.) *see* Methods and algorithms of numerical analysis, 91k:65006; Numerical analysis: methods, algorithms, programs, 91k:65008 and Numerical analysis: methods and algorithms, 91k:65009
- (Neumert, Helmut) *see* Random numbers and simulation, 91e:65009
- (Parter, Seymour V.) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Paslow, Pamela J.) *see* Adaptive methods for partial differential equations, 91m:65002
- (Périaux, Jacques) *see* Symposium: Domain Decomposition Methods for Partial Differential Equations, 91e:65010
- (Rags, John W.) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Sendov, Blagovest Kh.) *see* Monte Carlo methods and parallel algorithms, 91m:65003
- (Shephard, Mark S.) *see* Adaptive methods for partial differential equations, 91m:65002
- (Strehmel, Karl) *see* Numerical treatment of differential equations, 91e:65004
- (Stöben, Klaus) *see* Proceedings: Conference on Multigrid Methods, 91e:65008
- (Sutti, C.) *see* Parallel computing, 91m:65006
- (Teischo, Gerhard) *see* Seminar: Multigrid, 91k:65012
- (Ulrich, Christian) *see* Computer arithmetic and self-validating numerical methods, 91k:65003
- (Van Dooren, Paul) *see* Parallel algorithms for numerical linear algebra, 91f:65005
- (Vasilakis, John D.) *see* Adaptive methods for partial differential equations, 91m:65002
- (Veite, Waldemar) *see* Numerical treatment of eigenvalue problems, 91m:65005
- (van der Vorst, Henk A.) *see* Parallel algorithms for numerical linear algebra, 91f:65005
- (Wakulicz, Andrzej) *see* Numerical analysis and mathematical modelling, 91k:65007
- (Widlund, Olof B.) *see* Symposium: Domain Decomposition Methods for Partial Differential Equations, 91e:65010

Items listed otherwise than by author

- Adaptive methods for partial differential equations * Adaptive methods for partial differential equations. 91m:65002
- Algorithms for approximation * Algorithms for approximation. II. 91e:65003
- Basel * Computer arithmetic and self-validating numerical methods. 91k:65003
- Computation of curves and surfaces * Computation of curves and surfaces. 91e:65004
- Computational processes and systems * Вычислительные процессы в системах. Вып. 7. (Russian) [Computational processes and systems. No. 7] 91g:65008
- Computational solution of nonlinear systems of equations * Computational solution of nonlinear systems of equations. 91e:65005
- Computer arithmetic and self-validating numerical methods * Computer arithmetic and self-validating numerical methods. 91k:65003
- Computer geometry * Computer geometry. (German) [Computer geometry] 91k:65004
- Computer geometry * Computer geometry. (German) [Computer geometry] 91k:65004
- Conference:
Algorithms for Approximation * Algorithms for approximation. II. 91e:65003
- Computer Arithmetic and Self-validating Numerical Methods * Computer arithmetic and self-validating numerical methods. 91k:65003
- Multigrid Methods * Proceedings of the Fourth Copper Mountain Conference on Multigrid Methods. 91e:65008
- Preconditioned Conjugate Gradient Methods * Preconditioned conjugate gradient methods. 91k:65010
- Vector and Parallel Computing * Vector and parallel computing. 91k:65014

- Contributions to the computation of curves and surfaces** ★ Contributions to the computation of curves and surfaces. 91k:65005
- Copper Mountain, CO** ★ Proceedings of the Fourth Copper Mountain Conference on Multigrid Methods. 91k:65008
- Curves and surfaces in CAGD '89** ★ Curves and surfaces in CAGD '89. 91k:65006
- Eberswalde** ★ Fifth Multigrid Seminar. 91k:65013
- Fort Collins, CO** ★ Computational solution of nonlinear systems of equations. 91k:65005
- Glendon Beach, OR** ★ Sparse matrices. 91k:65001
- Halle** ★ Numerical treatment of differential equations. 91k:65004
- Houston, TX** ★ Third International Symposium on Domain Decomposition Methods for Partial Differential Equations. 91k:65010
- Lambrecht** ★ Random numbers and simulation. 91k:65009
- Lecture Notes in Mathematics** ★ Preconditioned conjugate gradient methods. 91k:65010
- Meeting:**
- Parallel Computing** ★ Parallel computing. 91k:65006
- Methods and algorithms of numerical analysis** ★ Методы и алгоритмы численного анализа. (Russian) [Methods and algorithms of numerical analysis] 91k:65006
- Monte Carlo methods and parallel algorithms** ★ Monte Carlo methods and parallel algorithms. 91k:65003
- NATO Advanced Research Workshop:**
- Supercomputing** ★ Supercomputing. 91k:65006
- NATO Advanced Study Institute:**
- Computation of Curves and Surfaces** ★ Computation of curves and surfaces. 91k:65004
- ★ Contributions to the computation of curves and surfaces. 91k:65005
- Nijmegen** ★ Preconditioned conjugate gradient methods. 91k:65010
- Numerical analysis and mathematical modelling** ★ Numerical analysis and mathematical modelling. 91k:65007
- Numerical analysis and scientific calculation** ★ Счислительный анализ: методы и алгоритмы. (Russian) [Numerical analysis and scientific calculation] 91k:65003
- Numerical analysis: methods, algorithms, programs** ★ Численный анализ: методы, алгоритмы, программы. (Russian) [Numerical analysis: methods, algorithms, programs] 91k:65008
- Numerical analysis: methods and algorithms** ★ Численный анализ: методы и алгоритмы. (Russian) [Numerical analysis: methods and algorithms] 91k:65009
- Numerical and applied mathematics** ★ Вычислительная и прикладная математика. (Russian) [Numerical and applied mathematics] 91k:65003
- Numerical methods and software** ★ Численные методы и программное обеспечение. (Russian) [Numerical methods and software] 91k:65004
- Numerical solution of integral equations** ★ Numerical solution of integral equations. 91k:65007
- Numerical treatment of differential equations** ★ Numerical treatment of differential equations. 91k:65004
- Numerical treatment of eigenvalue problems** ★ Numerical treatment of eigenvalue problems. Vol. 5. 91k:65005
- Oberwolfach** ★ Curves and surfaces in CAGD '89. 91k:65006
- ★ Numerical treatment of eigenvalue problems. Vol. 5. 91k:65005
- Parallel algorithms for matrix computations** ★ Parallel algorithms for matrix computations. 91k:65003
- Parallel algorithms for numerical linear algebra** ★ Parallel algorithms for numerical linear algebra. 91k:65005
- Parallel computing** ★ Parallel computing. 91k:65006
- Preconditioned conjugate gradient methods** ★ Preconditioned conjugate gradient methods. 91k:65010
- Primorsko** ★ Monte Carlo methods and parallel algorithms. 91k:65003
- Proceedings:**
- Conference on Multigrid Methods** ★ Proceedings of the Fourth Copper Mountain Conference on Multigrid Methods. 91k:65008
- Puerto de la Cruz** ★ Computation of curves and surfaces. 91k:65004
- ★ Contributions to the computation of curves and surfaces. 91k:65005
- Random numbers and simulation** ★ Random numbers and simulation. 91k:65009
- Reliable numerical computation** ★ Reliable numerical computation. 91k:65011
- Seminar:**
- Computational Solution of Nonlinear Systems of Equations** ★ Computational solution of nonlinear systems of equations. 91k:65005
- Computer Geometry** ★ Computergeometrie. (German) [Computer geometry] 91k:65004
- Multigrid** ★ Fourth Multigrid Seminar. 91k:65012
- ★ Fifth Multigrid Seminar. 91k:65013
- Numerical Treatment of Differential Equations** ★ Numerical treatment of differential equations. 91k:65004
- Shrivenham** ★ Algorithms for approximation. II. 91k:65003
- Sparse matrices** ★ Sparse matrices. 91k:65001
- Supercomputing** ★ Supercomputing. 91k:65006
- Symposium:**
- Domain Decomposition Methods for Partial Differential Equations** ★ Third International Symposium on Domain Decomposition Methods for Partial Differential Equations. 91k:65010
- Numerical Analysis and Scientific Calculation** ★ Счислительный анализ: методы и алгоритмы. (Japanese) [Numerical analysis and scientific calculation] 91k:65003
- Sparse Matrices** ★ Sparse matrices. 91k:65001
- Surfaces in Computer Aided Geometric Design** ★ Curves and surfaces in CAGD '89. 91k:65006
- Theory and applications of statistical modeling** ★ Теория и приложения статистического моделирования. (Russian) [Theory and applications of statistical modeling] 91k:65009
- Tromsø** ★ Vector and parallel computing. 91k:65014
- Trondheim** ★ Supercomputing. 91k:65006
- Troy, NY** ★ Adaptive methods for partial differential equations. 91k:65002
- Unterwiesbach** ★ Fourth Multigrid Seminar. 91k:65012
- Vector and parallel computing** ★ Vector and parallel computing. 91k:65014
- Verona** ★ Parallel computing. 91k:65006
- Weiß Ig** ★ Computergeometrie. (German) [Computer geometry] 91k:65004

Workshop:

- Adaptive Computational Methods for Partial Differential Equations** ★ Adaptive methods for partial differential equations. 91m:65002
- Eigenvalue Problems in the Natural and Engineering Sciences and their Numerical Treatment** ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005
- Monte Carlo Methods and Parallel Algorithms** ★ Monte Carlo methods and parallel algorithms. 91m:65003
- Random Numbers and Simulation** ★ Random numbers and simulation. 91k:65009

Items with secondary classifications in 65-06

- (Bank, Randolph E.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035
- (Brebba, C. A.) see Boundary elements X, 91h:00041; 91h:00042; 91h:00043; 91h:00044; Advances in boundary elements, 91f:00014; 91f:00015 and 91f:00016
- (Brezinski, Claude) see Extrapolation and rational approximation, 91i:00021
- (Bulirsch, R.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035
- (Cakmak, Ahmet) see Computational acoustics, 91f:76004
- (Chodnorsky, David V.) see Computers in mathematics, 91e:00020
- (Chui, Charles K.) see Approximation theory, 91j:41001 and 91j:41002
- (Coleman, Thomas F.) see Large-scale numerical optimization, 91h:00029
- (Connor, J. J.) see Advances in boundary elements, 91f:00014; 91f:00015 and 91f:00016
- (Connard, Michel Yves) see Parallel & distributed algorithms, 91a:68006
- (De Dier, Bart) see Continuation and bifurcations: numerical techniques and applications, 91f:00017
- (Dongarra, Jack) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
- (Eckhardt, Ulrich) see Geometrical problems of image processing, 91m:68007
- (Fomin, V. M.) see Numerical methods for solving problems of the theory of elasticity and plasticity, 91h:73001
- (Gay, David M.) see Interior point methods for linear programming, 91m:90004
- (Gipson, G. Steven) see Boundary integral equation methods (boundary element methods), 91k:00018
- (Glowinski, Roland) see Computing methods in applied sciences and engineering, 91m:00026
- (Golubitsky, M.) see Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Gruber, Ralf) see Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Heywood, John G.) see Navier-Stokes equations, 91f:35003
- (Hoffmann, Karl-Heinz) see Free boundary problems: theory and applications, 91g:00044
- (Hübner, Albrecht) see Geometrical problems of image processing, 91m:68007
- (Iooss, Gérard) see Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Jenks, Richard D.) see Computers in mathematics, 91e:00020
- (Kojima, Masakazu) see Interior point methods for linear programming, 91m:90004
- (Kuznetsov, Yuri Alekseevich) see Numerical analysis and mathematical modeling, 91h:00047
- (Lee, Ding) see Computational acoustics, 91f:76004
- (Li, Kai Tai) see Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Li, Yuying) see Large-scale numerical optimization, 91h:00029
- (Lichnerowicz, Alain) see Computing methods in applied sciences and engineering, 91m:00026
- (Marsden, Jerrold E.) see Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Masuda, Kyōta) see Navier-Stokes equations, 91f:35003
- (Merten, K.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035
- (Messina, Paul) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
- (Nagel, Werner) see Geometrical problems of image processing, 91m:68007
- (Oden, J. Tinsley) see Reliability in computational mechanics, 91g:00036
- (Pardalos, Panos M.) see Computational methods in global optimization, 91h:90004
- (Périaux, Jacques) see Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Quinton, Patrice) see Parallel & distributed algorithms, 91a:68006
- (Rautmann, R.) see Navier-Stokes equations, 91f:35003
- (Raynal, Michel) see Parallel & distributed algorithms, 91a:68006
- (Robert, Yves) see Parallel & distributed algorithms, 91a:68006
- (Roose, Dirk) see Continuation and bifurcations: numerical techniques and applications, 91f:00017
- (Rosen, J. B.) see Computational methods in global optimization, 91h:90004
- (Schumaker, Larry L.) see Approximation theory, 91j:41001 and 91j:41002
- (Shaw, Richard Paul) see Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Solonnikov, V. A.) see Navier-Stokes equations, 91f:35003
- (Sørensen, Danny C.) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
- (Spence, Alastair) see Continuation and bifurcations: numerical techniques and applications, 91f:00017
- (Sprekels, Jürgen) see Free boundary problems: theory and applications, 91g:00044
- (Symm, G. T.) see Boundary integral equation methods (boundary element methods), 91k:00018
- (Tapia, Richard) see Interior point methods for linear programming, 91m:90004
- (Vichnevetsky, Robert) see Computational acoustics, 91f:76004
- (Voigt, Robert G.) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
- (Ward, Joseph D.) see Approximation theory, 91j:41001 and 91j:41002
- (Werner, Günter M.) see Geometrical problems of image processing, 91m:68007

Items listed otherwise than by author

Advances in boundary elements ★ Advances in boundary elements. Vol. 1. 91f:00014

— ★ Advances in boundary elements. Vol. 2. 91f:00015

— ★ Advances in boundary elements. Vol. 3. 91f:00016

All-Union Conference:

Numerical Methods for Solving Problems of the Theory of Elasticity and Plasticity

★ Численные методы решения задач теории упругости и пластичности. (Russian)

[Numerical methods for solving problems of the theory of elasticity and plasticity]

91h:73001

Approximation theory ★ Approximation theory VI. Vol. I. 91j:41001

— ★ Approximation theory VI. Vol. II. 91j:41002

Austin, TX ★ Reliability in computational mechanics. 91g:00036

Boundary elements X ★ Boundary elements X. Vol. 1. 91h:00041

— ★ Boundary elements X. Vol. 2. 91h:00042

— ★ Boundary elements X. Vol. 3. 91h:00043

— ★ Boundary elements X. Vol. 4. 91h:00044

Boundary integral equation methods (boundary element methods) ★ Boundary integral

equation methods (boundary element methods). 91h:00018

Cambridge, MA ★ Advances in boundary elements. Vol. 1. 91f:00014

— ★ Advances in boundary elements. Vol. 2. 91f:00015

— ★ Advances in boundary elements. Vol. 3. 91f:00016

Château de Bonas ★ Parallel & distributed algorithms. 91a:68006

Chicago, IL ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for

Scientific Computing. 91h:00041

College Station, TX ★ Approximation theory VI. Vol. I. 91j:41001

— ★ Approximation theory VI. Vol. II. 91j:41002

Colloquium:

Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and

applications. Vol. II. 91g:00044

Computational acoustics ★ Computational acoustics. Vol. 3. 91h:76004

Computational methods in global optimization ★ Computational methods in global

optimization. 91h:90004

Computers in mathematics ★ Computers in mathematics. 91e:00020

Computing methods in applied sciences and engineering ★ Computing methods in applied

sciences and engineering. 91m:00026

Conference:

Bifurcation Theory and its Numerical Analysis ★ Proceedings of the International

Conference on Bifurcation Theory and its Numerical Analysis. 91h:00048

Boundary Element Methods ★ Boundary elements X. Vol. 1. 91h:00041

— ★ Boundary elements X. Vol. 2. 91h:00042

— ★ Boundary elements X. Vol. 3. 91h:00043

— ★ Boundary elements X. Vol. 4. 91h:00044

— ★ Advances in boundary elements. Vol. 1. 91f:00014

— ★ Advances in boundary elements. Vol. 2. 91f:00015

— ★ Advances in boundary elements. Vol. 3. 91f:00016

Computers and Mathematics ★ Computers in mathematics. 91e:00020

Computing Methods in Applied Sciences and Engineering ★ Computing methods in

applied sciences and engineering. 91m:00026

Mathematical Modelling and Simulation of Electrical Circuits and Semiconductor Devices

★ Mathematical modelling and simulation of electrical circuits and semiconductor

devices. 91m:00035

Navier-Stokes Equations ★ The Navier-Stokes equations. 91f:35003

Parallel Processing for Scientific Computing ★ Proceedings of the Fourth SIAM

Conference on Parallel Processing for Scientific Computing. 91h:00041

Congress:

Applied Mathematics ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales

y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the

XIth Congress on Differential Equations and Applications/First Congress on Applied

Mathematics] 91j:00015

Differential Equations and Applications ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones

Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First

Congress on Applied Mathematics] 91j:00015

Extrapolation and Rational Approximation ★ Extrapolation and rational approximation.

91i:00021

Continuation and bifurcations: numerical techniques and applications ★ Continuation and

bifurcations: numerical techniques and applications. 91f:00017

Extrapolation and rational approximation ★ Extrapolation and rational approximation.

91i:00021

Formula processing and its applications in mathematical research ★ Sushiki shori to shōgaku

kenkyū e no ōyō. (Japanese) [Formula processing and its applications in mathematical

research] 91f:68001

Free boundary problems: theory and applications ★ Free boundary problems: theory and

applications. Vol. II. 91g:00044

Geometrical problems of image processing ★ Geometrical problems of image processing.

91m:68007

Georgenthal ★ Geometrical problems of image processing. 91m:68007

IMACS Symposium:

Computational Acoustics ★ Computational acoustics. Vol. 3. 91h:76004

Interior point methods for linear programming ★ Interior point methods for linear

programming. 91m:90004

Isee ★ Free boundary problems: theory and applications. Vol. II. 91g:00044

Ithaca, NY ★ Large-scale numerical optimization. 91h:00029

Krasnoyarsk ★ Численные методы решения задач теории упругости и пластичности.

(Russian) [Numerical methods for solving problems of the theory of elasticity and

plasticity] 91h:73001

Large-scale numerical optimization ★ Large-scale numerical optimization. 91h:00029

Lausanne ★ Proceedings of the Fifth International Symposium on Numerical Methods in

Engineering. Vol. 1, 2. 91h:00050

Lecture Notes in Mathematics ★ The Navier-Stokes equations. 91f:35003

Leuven ★ Continuation and bifurcations: numerical techniques and applications. 91f:00017

Luminy ★ Extrapolation and rational approximation. 91f:00021

Málaga ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth

Congress on Differential Equations and Applications/First Congress on Applied Mathe-

matics] 91j:00015

Mathematical modelling and simulation of electrical circuits and semiconductor devices

★ Mathematical modelling and simulation of electrical circuits and semiconductor

devices. 91m:00035

Moscow ★ Численный анализ и математическое моделирование. (Russian) [Numerical

analysis and mathematical modeling] 91h:00047

NATO Advanced Research Workshop:

Continuation and Bifurcations: Numerical Techniques and Applications ★ Continuation

and bifurcations: numerical techniques and applications. 91f:00017

Navier-Stokes equations ★ The Navier-Stokes equations. 91f:35003

Numerical analysis and mathematical modeling ★ Численный анализ и математическое

моделирование. (Russian) [Numerical analysis and mathematical modeling] 91h:00047

Numerical analysis of free boundary problems and related topics ★ Jiyukyokai mondai

noschikaiseki to sono shūhen. (Japanese) [Numerical analysis of free boundary

problems and related topics] 91g:76001

Numerical methods for solving problems of the theory of elasticity and plasticity

★ Численные методы решения задач теории упругости и пластичности. (Russian) [Nu-

merical methods for solving problems of the theory of elasticity and plasticity] 91h:73001

Oberwolfach ★ The Navier-Stokes equations. 91f:35003

— ★ Mathematical modelling and simulation of electrical circuits and semiconductor

devices. 91m:00035

Parallel & distributed algorithms ★ Parallel & distributed algorithms. 91a:68006

Paris ★ Computing methods in applied sciences and engineering. 91m:00026

Princeton, NJ ★ Computational acoustics. Vol. 3. 91h:76004

Proceedings:

Conference on Bifurcation Theory and its Numerical Analysis ★ Proceedings of the

International Conference on Bifurcation Theory and its Numerical Analysis.

91h:00048

Conference on Parallel Processing for Scientific Computing ★ Proceedings of the Fourth

SIAM Conference on Parallel Processing for Scientific Computing. 91h:00041

Congress on Applied Mathematics ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones

Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First

Congress on Applied Mathematics] 91j:00015

Congress on Differential Equations and Applications ★ Actas del XI C.E.D.Y.A.

(Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática

Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and

Applications/First Congress on Applied Mathematics] 91j:00015

Symposium on Numerical Methods in Engineering ★ Proceedings of the Fifth Interna-

tional Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91h:00050

Reliability in computational mechanics ★ Reliability in computational mechanics.

91g:00036

Southampton ★ Boundary elements X. Vol. 1. 91h:00041

— ★ Boundary elements X. Vol. 2. 91h:00042

— ★ Boundary elements X. Vol. 3. 91h:00043

— ★ Boundary elements X. Vol. 4. 91h:00044

Special Issue:

Boundary integral equation methods (boundary element methods) ★ Boundary integral

equation methods (boundary element methods). 91h:00018

Interior point methods for linear programming ★ Interior point methods for linear

programming. 91m:90004

Stanford, CA ★ Computers in mathematics. 91e:00020

Symposium:

Approximation Theory ★ Approximation theory VI. Vol. I. 91j:41001

— ★ Approximation theory VI. Vol. II. 91j:41002

Formula Processing and its Applications in Mathematical Research ★ Sushiki shori

to shōgaku kenkyū e no ōyō. (Japanese) [Formula processing and its applications in

mathematical research] 91f:68001

Numerical Analysis of Free Boundary Problems and Related Topics ★ Jiyukyokai mondai

noschikaiseki to sono shūhen. (Japanese) [Numerical analysis of free boundary

problems and related topics] 91g:76001

Numerical Methods for Solving Large Systems of Functional Equations ★ Численный

анализ и математическое моделирование. (Russian) [Numerical analysis and

mathematical modeling] 91h:00047

Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium

on Numerical Methods in Engineering. Vol. 1, 2. 91h:00050

Workshop:

Geometrical Problems of Image Processing ★ Geometrical problems of image processing.

91m:68007

Large-scale Numerical Optimization ★ Large-scale numerical optimization. 91h:00029

Parallel & Distributed Algorithms ★ Parallel & distributed algorithms. 91a:68006

Reliability in Computational Mechanics ★ Reliability in computational mechanics.

91g:00036

X'ian ★ Proceedings of the International Conference on Bifurcation Theory and its

Numerical Analysis. 91h:00048

65A05 Tables

65Bxx Acceleration of convergence

65B05 Extrapolation to the limit, deferred corrections

- Beckermann, Bernhard A connection between the E -algorithm and the epsilon-algorithm. 91h:65004
- Carstensen, C. On a general epsilon algorithm. 91g:65010
- Germain-Bonne, B. Convergence acceleration of number-machine sequences. 91m:65007
- Hautot, A. Convergence acceleration of continued fractions of Poincaré type [Appl. Numer. Math. 4 (1988), no. 2-4, 309-322; MR 90b:65005]. (see 91m:41002)
- Lembarki, Alami Convergence acceleration of limit k -periodic continued fractions [Appl. Numer. Math. 4 (1988), no. 2-4, 337-349; MR 89j:65012]. (see 91m:41002)
- Matos, Ana C. Acceleration methods for sequences such that $\Delta S_n \approx \sum_{i=1}^n a_i g_i(n)$. 91h:65004
- Osada, Naoki A convergence acceleration method for some logarithmically convergent sequences. 91h:65002
- Sadok, Hassane About Henrici's transformation for accelerating vector sequences. 91d:65004
- Sidi, Avram On a generalization of the Richardson extrapolation process. 91j:65004
- Sleptsov, A. G. On the acceleration of the convergence of linear iterations. (Russian) 91d:65005
- On the acceleration of the convergence of linear iteration. II. (Russian) 91h:65005
- Items with secondary classifications in 65B05
- Sidi, Avram On rates of acceleration of extrapolation methods for oscillatory infinite integrals. 91e:65036
- Walz, Guido Increasing the convergence modulus of an asymptotic expansion. 91d:41016

65B10 Summation of series

- Bondarenko, V. F. (with Moshinski, A. V.) A transformation that improves the convergence of certain Schlicht series. 91g:65011
- Brezinski, Claude Bordering methods and progressive forms for sequence transformations. 91g:65012
- Bunch, K. J. (with Cain, W. N.; Grow, R. W.) A data fitting approach to series convergence acceleration. 91k:65015
- Cain, W. N. see Bunch, K. J.; et al., 91k:65015
- Ciasullo, L. M. (with Cochran, James A.) Accelerating the convergence of Chebyshev series. 91m:65008
- Cochran, James A. see Ciasullo, L. M., 91m:65008
- Daras, Nicholas J. The convergence of Padé-type approximants to holomorphic functions of several complex variables. 91j:65005
- Dempsey, John P. see Dempsey, Kevin M.; et al., 91b:65003
- Dempsey, Kevin M. (with Liu, Dajin; Dempsey, John P.) Plana's summation formula for $\sum_{m=1}^{\infty} m^{-2} \sin(m\alpha)$, $m^{-3} \cos(m\alpha)$, $m^{-2} A^m$, $m^{-3} A^m$. 91b:65003
- Grow, R. W. see Bunch, K. J.; et al., 91k:65015
- Liu, Dajin see Dempsey, Kevin M.; et al., 91b:65003
- Moshinski, A. V. see Bondarenko, V. F., 91g:65011
- Riedel, Roland Einführung in die Theorie der Konvergenzbeschleunigung für Reihen. [Introduction to the theory of acceleration of convergence for series] 91d:65006
- Konvergenzbeschleunigung bei Potenzreihen durch asymptotische Entwicklung der Restsummen. (English and Russian summaries) [Acceleration of convergence through power series using asymptotic expansion of residual sums] 91h:65006
- Sedogbo, Guy Antoine Convergence acceleration of some logarithmic sequences. 91m:65009

65B15 Euler-Maclaurin formula

- Cylkowski, Z. Summation of series by some substitutions. 91k:65016

Items with secondary classifications in 65B15

- Borwein, Jonathan M. (with Borwein, Peter; Ditcher, K.) Pi, Euler numbers, and asymptotic expansions. 91c:40002
- Borwein, Peter see Borwein, Jonathan M.; et al., 91c:40002
- Ditcher, K. see Borwein, Jonathan M.; et al., 91c:40002

65B99 None of the above, but in this section

- Bodnar, D. I. Two-dimensional corresponding branched continued fractions with partial numerators that are linear with respect to the variables. (Russian. English summary) 91k:65017
- Brezinski, Claude Algebraic properties of the E -transformation. (see 91k:65007)
- Cryt, Annie A. M. Old and new multidimensional convergence accelerators. 91d:65007
- Draux, André Convergence acceleration of sequences of Padé approximants. 91j:65006
- Germain-Bonne, B. (with Litovsky, A. M.) Sufficient information for accelerating the convergence. 91e:65007
- Liu, Feng Ch'ing see Liu, Shieh Hong, 91k:65018
- Liu, Shieh Hong (with Liu, Feng Ch'ing) An $O(\log n)$ algorithm for computing periodic continued fractions and its applications. 91k:65018
- Litovsky, A. M. see Germain-Bonne, B., 91e:65007
- Matos, Ana C. A convergence acceleration method based on a good estimation of the absolute value of the error. 91m:65010
- Nevanlinna, Olovi Linear acceleration of Picard-Lindelöf iteration. 91d:65008
- Roux, François-Xavier Acceleration of the outer conjugate gradient by reorthogonalization for a domain decomposition method with Lagrange multiplier. (see 91e:65010)

Items with secondary classifications in 65B99

- Abu-Shumays, I. K. Incomplete block cyclic reduction as a preconditioner for polynomial iterative methods. 91k:65065
- Brutyan, A. R. A method for accelerating computations. (Russian. Armenian summary) (see 91g:00028)
- Bultheel, Adhemar see Levrie, Paul, 91a:65244
- Ehrenmark, Ulf Torsten A note on an extension of extrapolative techniques for a class of infinite oscillatory integrals. 91d:65039

- Glowinski, Roland (with Kinton, W.; Wheeler, Mary F.) Acceleration of domain decomposition algorithms for mixed finite elements by multi-level methods. (see 91e:65010)
- Karimova, D. Kh. (with Stetsenko, V. Ya.) A method for accelerating the convergence of relaxation processes. (Russian. Tajiki summary) 91d:65081
- Kinton, W. see Glowinski, Roland; et al., (91e:65010)
- Langwitz, Detlef Kettenwurzeln und Kettenoperationen. [Continued roots and chain operations] 91g:40003
- Levrie, Paul (with Bultheel, Adhemar) Convergence acceleration for the numerical solution of second-order linear recurrence relations. 91a:65244
- Lin, Qun see Neittaanmäki, Pekka, 91h:65172
- Mai, Tsun-Zee (with Young, David M., Jr.) A dual adaptive procedure for the automatic determination of iteration parameters for Chebyshev acceleration. 91a:65084
- Neittaanmäki, Pekka (with Lin, Qun) Acceleration of the convergence in finite difference method by predictor-corrector and splitting extrapolation methods. 91h:65172
- Ogawa, Shiro see Zhang, Guofeng, 91a:41016
- Sedogbo, Guy Antoine Convergence acceleration of some logarithmic sequences. 91m:65009
- Stetsenko, V. Ya. see Karimova, D. Kh., 91d:65081
- Waadeland, Haakon Computation of continued fractions by square-root modification: reflections and examples [Appl. Numer. Math. 4 (1988), no. 2-4, 361-375; MR 89g:65017]. (see 91m:41002)
- Wheeler, Mary F. see Glowinski, Roland; et al., (91e:65010)
- Young, David M., Jr. see Mai, Tsun-Zee, 91a:65084
- Zadravka, V. K. Some methods for improving the accuracy of calculating integrals of rapidly oscillating functions. (Russian) (see 91k:65007)
- Zhang, Guofeng (with Ogawa, Shiro) Block structure of multivariate Padé approximants and ϵ -algorithm. 91a:41016

65Cxx Numerical simulation {For theoretical aspects, see 68U20.}**Items with secondary classifications in 65Cxx**

- (Lehm, J.) see Random numbers and simulation, 91e:65009
- (Neunzert, Helmut) see Random numbers and simulation, 91e:65009

Items listed otherwise than by author

- Lambrecht ★ Random numbers and simulation. 91e:65009
- Random numbers and simulation ★ Random numbers and simulation. 91e:65009
- Workshop:
Random Numbers and Simulation ★ Random numbers and simulation. 91e:65009

65C05 Monte Carlo methods

- Aazhang, Behnaam see Orsak, Geoffrey C., 91m:65012
- Asmussen, Søren Exponential families and regression in the Monte Carlo study of queues and random walks. 91k:65019
- Blaga, Petru Reducing of variance by spline functions in Monte Carlo integration. (Romanian summary) 91g:65013
- Bouleau, Nicolas On effective computation of expectations in large or infinite dimension. (French summary) 91j:65007
- Brankov, I. G. (with Karamikhova, R.) A Monte Carlo algorithm for close-packed dimers on a lattice. (see 91m:65003)
- Cambanis, Stamatis see Masry, Elias, 91k:65004
- Charvin, Brigitte (with Rouault, Alain) A stochastic simulation for solving scalar reaction-diffusion equations. 91d:65009
- Crevier, D. see Fok, D. S. K., 91c:65003
- DeLaurentis, J. M. (with Romero, Louis A.) A Monte Carlo method for Poisson's equation. 91e:65005
- Dimov, Ivan T. (with Tonev, O.) Performance analysis of Monte Carlo algorithms for some models of computer architectures. (see 91m:65003)
- see also Tonev, O.; et al., (91m:65003)
- Ermakov, S. M. The Monte-Carlo method and asynchronous calculations. (see 91j:60004)
- Fishman, George S. Sensitivity analysis using the Monte Carlo acceptance-rejection method. 91i:65006
- Flury, Bernhard Acceptance-rejection sampling made easy. 91h:65007
- Fok, D. S. K. (with Crevier, D.) Volume estimation by Monte Carlo methods. 91c:65003
- Fusco, V. F. Concurrent processing: the key to rapid probabilistic potential methods. (Not in MR)
- Galeshka, M. A. The method of stochastic approximation for solving a Fredholm equation of the first kind with random data errors. (Russian) (see 91j:60001)
- Girard, Didier A. A fast "Monte Carlo cross-validation" procedure for large least squares problems with noisy data. 91a:65005
- Glynn, Peter W. (with Iglehart, Donald L.) Simulation output analysis using standardized time series. 91h:65007
- Iglehart, Donald L. see Glynn, Peter W., 91h:65007
- Jacoboni, Carlo Generalization of the Monte Carlo method for charge transport to biased simulations. (see 91e:00027)
- Kabanikhina, I. I. Numerical realization of the Monte Carlo algorithm for solving a matrix analogue of an inverse problem for an equation in acoustics. (Russian) (see 91g:65009)
- Kales, M. H. Methods in quantum Monte Carlo. (see 91j:60004)
- Karamikhova, R. see Brankov, I. G., (91m:65003)
- Kargin, B. A. Monte Carlo method in stochastic problems of the atmosphere and ocean optics. (see 91m:65003)
- Khairullin, R. Kh. Application of the Monte Carlo method for estimating functionals from eigenfunctions of positive operators. 91m:65011
- Léot, Christian A quasi-Monte Carlo method for the Boltzmann equation. 91j:65008
- Likhoded, N. A. Sharpening of a Monte Carlo estimate for path integrals. (Russian. English summary) 91g:65014
- Littlejohn, M. A. see Register, L. F.; et al., (91e:00027)

- Makarov, S. E. Mean integral relations for a second-order metaharmonic equation. (Russian) **91h:65008**
- Masy, Elias (with Cambanis, Stamatis) Trapezoidal Monte Carlo integration. **91h:65004**
- Mikhailov, G. A. ★ Минимаксные алгоритмы весовых методов Монте-Карло. (Russian) [Minimax algorithms for weighted Monte Carlo methods] **91h:65011**
- Minimax algorithms of weight Monte Carlo methods. **91d:65010**
- Minimax Monte Carlo methods for solving integral equations of the second kind. **91h:65020**
- Minimax solutions of equations that determine the variances of weight estimates of the Monte Carlo method. **91h:65020a**
- Nedyalkov, M. see Vitanov, P., (91m:65003)
- Niederreiter, Harald Quasi-Monte Carlo methods for multidimensional numerical integration. **91f:65008**
- Nikolov, P. see Tuncel, O.; et al., (91m:65003)
- Orsak, Geoffrey C. (with Aazhang, Behnaam) Constrained solutions in importance sampling via robust statistics. **91m:65012**
- Popov, A. S. ★ Вычисление молекулярных интегралов методами типа Монте-Карло. (Russian) [Calculation of molecular integrals by Monte Carlo-type methods] (Not in MR)
- Prigara, S. M. Models of Gaussian fields and their applications. (see 91m:65003)
- Radev, Stefan P. (with Stefanov, S. K.) Monte Carlo simulation of molecular flows engendered by evaporation-condensation processes. (see 91m:65003)
- Register, L. F. (with Littlejohn, M. A.; Strocio, M. A.) Path-integral Monte Carlo methods for ultrametal device applications. (see 91e:00027)
- Reginskill, S. V. On a solution of boundary value problems for the Boltzmann equation by the Monte Carlo method. (Russian) (see 91g:65009)
- ★ Решение краевых задач для уравнения Больцмана методом Монте-Карло. (Russian) [Solution of boundary value problems for the Boltzmann equation by the Monte Carlo method] **91m:65013**
- Romero, Louis A. see DeLaurentis, J. M., 91h:65005
- Ronan, Alain see Chauvin, Brigitte, 91d:65009
- Sabelfeld, K. K. ★ Методы Монте-Карло в краевых задачах. (Russian) [Monte Carlo methods in boundary value problems] **91d:65011**
- Sabev, V. see Tuncel, O.; et al., (91m:65003)
- Simonov, N. A. Random estimates for derivatives from a solution of the Neumann problem near the boundary of a domain. (Russian) **91h:65009**
- Sobol', I. M. Estimation of the sensitivity of nonlinear mathematical models. (Russian. English summary) **91h:65008**
- Quasi-Monte Carlo methods. (see 91m:65003)
- Starkov, A. V. ★ Об оптимизации векторных алгоритмов метода Монте-Карло при решении треугольных систем интегральных уравнений для параметрических производных в возмущениях. (Russian) [Optimization of vector algorithms of the Monte Carlo method in solving triangular systems of integral equations for parametric derivatives and perturbations] **91h:65010**
- A vector algorithm for the Monte Carlo method with zero variance, and cost modeling. (Russian) (see 91g:65009)
- Stefanov, S. K. (with Yanitskii, V. E.) Stochastic models and Monte Carlo algorithms in rarefied gas dynamics. (see 91m:65003)
- see also Radev, Stefan P., (91m:65003)
- Strocio, M. A. see Register, L. F.; et al., (91e:00027)
- Syrylybaeva, G. A. Proof of the finiteness of the variance of an estimate for the Monte Carlo method for solving the Dirichlet problem. (Russian) (see 91g:65009)
- Tichy, Robert F. Random points in the cube and on the sphere with applications to numerical analysis. **91h:65009**
- Tuncel, O. (with Nikolov, P.; Sabev, V.; Dimov, Ivan T.) Monte Carlo algorithms for transporter-based systems. (see 91m:65003)
- see also Dimov, Ivan T., (91m:65003)
- Ukhlov, S. A. Use of partial solving of an integral equation in calculations by the Monte Carlo method. (Russian) (see 91g:65009)
- Vitanov, P. (with Nedyalkov, M.) Application of the Monte Carlo approach in the semiconductor physics. (see 91m:65003)
- Wasilkowski, G. W. Randomization for continuous problems. **91a:65006**
- Yanitskii, V. E. see Stefanov, S. K., (91m:65003)
- Items with secondary classifications in 65C05
- Anolik, M. V. (with Khalidov, I. A.) Calculation of path integrals encountered in a problem on two-fold reflection of atoms of a rarefied gas from a slightly rough surface. (Russian. English summary) (Not in MR)
- Brower, Richard C. see Tamayo, P.; et al., 91a:82065 and 91h:82045
- Bucklew, James A. (with Ney, Peter; Sadowsky, John S.) Monte Carlo simulation and large deviations theory for uniformly recurrent Markov chains. **91m:60124**
- Bulavskii, Yu. V. (with Kalinina, T. L.) Solution of problems of the diffraction of electromagnetic waves by the Monte Carlo method. (Russian) (see 91g:65009)
- (Dimov, Ivan T.) see Monte Carlo methods and parallel algorithms, 91m:65003
- Ditlevsen, O. (with Melchers, R. E.; Gluwer, H.) General multi-dimensional probability integration by directional simulation. **91g:65319**
- Dorea, C. C. Y. Stochastic algorithm for solving a set of inequalities. **91f:90097**
- Dzhetysbayev, E. O. Separation of the δ -anisotropy-scattering in the Monte Carlo solution of the transfer equation. **91e:78002**
- Gluwer, H. see Ditlevsen, O.; et al., 91g:65319
- Kalinina, T. L. see Bulavskii, Yu. V., (91g:65009)
- Khalidov, I. A. see Anolik, M. V., (Not in MR)
- Kirschenhofer, Peter (with Prodinger, Helmut; Szpankowski, Wojciech) On the variance of the external path length in a symmetric digital trie. **91h:68017**
- Klein, William see Tamayo, P.; et al., 91a:82065 and 91h:82045
- Lee, Koo-Chul A new efficient Monte Carlo technique. **91m:82071**
- Madras, N. (with Orlitsky, Alon; Shepp, Larry A.) Monte Carlo generation of self-avoiding walks with fixed endpoints and fixed length. **91h:60062**
- Melchers, R. E. see Ditlevsen, O.; et al., 91g:65319
- Ney, Peter see Bucklew, James A.; et al., 91m:60124
- N'Kaoua, Thierry Solution of the nonlinear radiative transfer equations by a fully implicit matrix Monte Carlo method coupled with the Rosseland diffusion equation via domain decomposition. **91h:85011**
- Orlitsky, Alon see Madras, N.; et al., 91h:60062
- Prodinger, Helmut see Kirschenhofer, Peter; et al., 91h:68017
- Rasulov, A. S. Monte Carlo solution of a linear equation for nonisotropic diffusion. (see 91m:65003)
- Sadowsky, John S. see Bucklew, James A.; et al., 91m:60124
- (Sendov, Blagovest Kh.) see Monte Carlo methods and parallel algorithms, 91m:65003
- Shepp, Larry A. see Madras, N.; et al., 91h:60062
- Starkov, A. V. ★ О мажорантном подходе к оптимизации весовых алгоритмов метода Монте-Карло при решении уравнения переноса с энергетической зависимостью. (Russian) [The majorant approach to optimizing weighted algorithms of the Monte Carlo method in solving a transfer equation with an energy dependency] **91h:82021**
- Szpankowski, Wojciech see Kirschenhofer, Peter; et al., 91h:68017
- Tamayo, P. (with Brower, Richard C.; Klein, William) Single-cluster Monte Carlo dynamics for the Ising model. **91a:82065**
- (with Brower, Richard C.; Klein, William) Addendum: "Single-cluster Monte Carlo dynamics for the Ising model" [J. Statist. Phys. **58** (1990), no. 5-6, 1083-1094; MR **91a:82065j**] **91h:82045**
- Tichy, Robert F. Random points on the sphere with applications to numerical analysis. **91h:65015**
- Wagner, Wolfgang¹ Unbiased Monte Carlo estimators for functionals of weak solutions of stochastic differential equations. **91a:60160**
- Monte Carlo techniques for stochastic differential equations. (see 91m:65003)
- Ward, Y. Stochastic algorithms with Armijo stepsizes for minimization of functions. **91m:90127**
- Items listed otherwise than by author
- Monte Carlo methods and parallel algorithms ★ Monte Carlo methods and parallel algorithms. **91m:65003**
- Primorsko ★ Monte Carlo methods and parallel algorithms. **91m:65003**
- Workshop: Monte Carlo Methods and Parallel Algorithms ★ Monte Carlo methods and parallel algorithms. **91m:65003**

65C10 Random number generation

- Abrahams, Paul W. see Edgeman, Rick L.; et al., 91h:65013
- Afflerback, L. Die Gitterstruktur gleichverteilter Zufallsvektoren. [The lattice structure of uniformly distributed random vectors] **91j:65010**
- Anderson, Stuart L. Random number generators on vector supercomputers and other advanced architectures. **91g:65015**
- André, Debra A. (with Mullen, Gary L.; Niederreiter, Harald) Figures of merit for digital multistep pseudorandom numbers. **91d:65012**
- Antipov, M. V. Recursive sequences of pseudorandom numbers. (Russian) (see 91g:65009)
- Berlinet, Alain (with Van Cutsem, Bernard) Sequence transformations: a common domain to numerical analysis and statistics. (French summary) **91g:65016**
- Bhavsar, Virendra C. (with Gujar, Uday G.; Horton, Joseph D.; Lambrou, Lambros A.) Evaluation of the discrepancy of the linear congruential pseudo-random number sequences. **91h:65005**
- Brallé, N. (with Espinosa, R.; Saavedra, C.) An algorithm for the generation of random numbers with density $C \exp(-\lambda|x|^p)$. (Not in MR)
- Châte, Serge see L'Ecuyer, Pierre, 91m:65016
- Crawford, James, Jr. see Edgeman, Rick L.; et al., 91h:65013
- Drak, István Uniform random number generators for parallel computers. (Not in MR)
- De Matteis, A. (with Pagnutti, S.) A class of parallel random number generators. **91a:65007**
- (with Pagnutti, S.) Long-range correlations in linear and nonlinear random number generators. **91g:65017**
- Deng, Lih-Yuan (with George, E. Olusegun) Generation of uniform variates from several nearly uniformly distributed variables. **91j:65011**
- Derflinger, G. see Härmann, W., 91f:65010
- Devroye, Luc Random variate generators for the Poisson-Poisson and related distributions. **91d:65013**
- On random variate generation when only moments or Fourier coefficients are known. **91d:65014**
- Algorithms for generating discrete random variables with a given generating function or a given moment sequence. **91h:65009**
- Dieter, U. Probleme bei der Erzeugung gleichverteilter Zufallszahlen. [Problems in the generation of uniformly distributed random numbers] **91m:65014**
- Dovgal', V. V. see Ermakov, S. M., 91m:65015
- Eddy, William F. Random number generators for parallel processors. **91h:65010**
- Edgeman, Rick L. (with Abrahams, Paul W.; Sand, Francis M.; Crawford, James, Jr.) Random number generators and the minimal standard. **91h:65013**
- Eichenauer-Herrmann, Jürgen (with Grothe, H.) Upper bounds for the Beyer ratios of linear congruential generators. **91h:65011**
- (with Grothe, H.; Niederreiter, Harald; Topuzoglu, A.) On the lattice structure of a nonlinear generator with modulus 2^n . **91j:65012**
- Inverse congruential pseudorandom numbers avoid the planes. **91h:65021**
- Ermakov, S. M. (with Dovgal', V. V.) Limit theorems for the Tausworthe pseudorandom number generator. **91m:65015**
- Espinosa, R. see Brallé, N.; et al., (Not in MR)
- Figurnov, V. E. see Tyurin, Yu. N., 91e:65017
- Fishman, George S. Multiplicative congruential random number generators with modulus 2^p : an exhaustive analysis for $\beta = 32$ and a partial analysis for $\beta = 48$. **91e:65012**
- Fushimi, Masanori An equivalence relation between Tausworthe and GFSR sequences and applications. **91e:65013**
- Random number generation with the recursion $X_i = X_{i-1} \oplus X_{i-1} \cdot X_{i-1}$. **91h:65012**
- George, E. Olusegun see Deng, Lih-Yuan, 91j:65011

- Grothe, H. Matrixgeneratoren zur Erzeugung gleichverteilter Zufallsvektoren. [Matrix generators for the generation of uniformly distributed random vectors] 91f:65009
— see also Eichenauer-Herrmann, Jürgen, 91f:65011 and 91j:65012
- Grzesik, J. A. von Neumann's rejection technique reexamined. 91h:65006
- Gu, Chuang see Wu, Li De; et al., (Not in MR)
- Gujar, Uday G. see Bhavsar, Virendra C.; et al., 91h:65005
- Guo, Cheng An Generation and statistical test of computer-simulated normal random numbers. (Chinese. English summary) 91k:65022
- Härmann, W. (with Derflinger, G.) The ACR method for generating normal random variables. (German summary) 91f:65010
- Horton, Joseph D. see Bhavsar, Virendra C.; et al., 91h:65005
- James, F. A review of pseudorandom number generators. 91f:65013
- Kämpke, Thomas Multiple use of random numbers in discrete-event simulation. 91c:65004
- Kemp, Adrienne W. Patchwork rejection algorithms. 91f:65011
— (with Kemp, C. David) A composition-search algorithm for low-parameter Poisson generation. 91h:65011
- Kemp, C. David see Kemp, Adrienne W., 91h:65011
- Lambros, Lambros A. see Bhavsar, Virendra C.; et al., 91h:65005
- Larcher, Gerhard (with Niederreiter, Harald) Optimal coefficients modulo prime powers in the three-dimensional case. 91c:65014
- L'Ecuyer, Pierre (with Côté, Serge) Implementing a random number package with splitting facilities. 91m:65016
- Levitian, Yu. L. (with Sobol', I. M.) On a pseudo-random number generator for personal computers. (Russian. English summary) (Not in MR)
- Marsaglia, George (with Narasimhan, B.; Zaman, Arif) A random number generator for PCs. (Not in MR)
— (with Zaman, Arif; Tsang, Wai Wan) Toward a universal random number generator. 91a:65008
- Miller, Keith W. see Park, Stephen K., 91h:65012
- Mitchell, Ricardo A. Error estimates arising from certain pseudorandom sequences in a quasirandom search method. 91h:65007
- Mullen, Gary L. see André, Debra A.; et al., 91d:65012
- Nair, K. Alayappan An improved algorithm for ordered sequential random sampling. (Not in MR)
- Narasimhan, B. see Marsaglia, George; et al., (Not in MR)
- Narayanan, A. Computer generation of Dirichlet random vectors. 91c:65015
- Niederreiter, Harald Statistical independence properties of pseudorandom vectors produced by matrix generators. 91m:65017
— Lower bounds for the discrepancy of inversive congruential pseudorandom numbers. 91c:65016
— see also André, Debra A.; et al., 91d:65012; Larcher, Gerhard, 91c:65014 and Eichenauer-Herrmann, Jürgen; et al., 91j:65012
- Pagnutti, S. see De Matteis, A., 91a:65007 and 91g:65017
- Park, Stephen K. (with Miller, Keith W.) Random number generators: good ones are hard to find. 91h:65012
- Parrish, Rudolph S. Generating random deviates from multivariate Pearson distributions. 91i:65014
- Saavedra, C. see Brallic, N.; et al., (Not in MR)
- Safari-Naini, Reihaneh (with Seberry, Jennifer R.) Pseudo-random sequence generators using structured noise. 91f:65012
- Sand, Francis M. see Edgeman, Rick L.; et al., 91h:65013
- Seberry, Jennifer R. see Safari-Naini, Reihaneh, 91f:65012
- Sergin, Fatim On efficient and portable combined random number generators. 91h:65014
- Sha, Xin Shi see Wu, Li De; et al., (Not in MR)
- Smirnova, O. S. see Zhurbenko, I. G., 91h:65009
- Sobol', I. M. see Levitan, Yu. L., (Not in MR)
- Stadler, Ernst Allgemeine Prinzipien zur Erzeugung nicht-gleichverteilter Zufallszahlen. [General principles for generating nonuniformly distributed random numbers] 91d:65015
— ★ Sampling from Poisson, binomial and hypergeometric distributions: ratio of uniforms as a simple and fast alternative. 91b:65008
— The ratio of uniforms approach for generating discrete random variates. 91j:65013
- Stefănescu, Ștefan V. Generating Dirichlet random vectors using a rejection property. 91d:65016
— Generating uniformly distributed points in a hypersphere from R^{2p} . 91m:65018
- Tichy, Robert F. Random points on the sphere with applications to numerical analysis. 91h:65015
- Topuzoglu, A. see Eichenauer-Herrmann, Jürgen; et al., 91j:65012
- Tsang, Wai Wan see Marsaglia, George; et al., 91a:65008
- Tyurin, Yu. N. (with Figurnov, V. E.) Testing random number generators. 91c:65017
- Van Cutsem, Bernard see Berliet, Alain, 91g:65016
- Wu, Li De (with Sha, Xin Shi; Gu, Chuang) A generator of random sequences with given distribution and correlation. (Chinese. English summary) (Not in MR)
- Zaman, Arif see Marsaglia, George; et al., 91a:65008 and (Not in MR)
- Zhurbenko, I. G. (with Smirnova, O. S.) Some properties of random number generators. 91h:65009
- Items with secondary classifications in 65C10
- Bass, Jean Fonctions de corrélation des fonctions pseudo-aléatoires. (English summary) [Correlation functions of pseudorandom functions] 91f:65062
- Devroye, Luc A note on Linnik's distribution. 91b:60017
- Dobkin, David P. (with Friedman, Steven J.; Supowit, Kenneth J.) Delaunay graphs are almost as good as complete graphs. 91c:52025
- Friedman, Steven J. see Dobkin, David P.; et al., 91c:52025
- Goldreich, Oded (with Krawczyk, Hugo; Luby, Michael) On the existence of pseudorandom generators. 91c:68049
- Krawczyk, Hugo How to predict congruential generators. 91g:94016
— see also Goldreich, Oded; et al., 91c:68049
- Levin, M. B. The choice of parameters in generators of pseudorandom numbers. 91d:11093
- Luby, Michael see Goldreich, Oded; et al., 91c:68049

Micali, Silvio (with Schnorr, C.-P.) Efficient, perfect random number generators. 91d:68051

Niederreiter, Harald A combinatorial approach to probabilistic results on the linear-complexity profile of random sequences. 91g:94018

Schnorr, C.-P. see Micali, Silvio, 91d:68051

Seaman, John W., Jr. see Young, Dean Max; et al., 91c:65164

Supowit, Kenneth J. see Dobkin, David P.; et al., 91c:52025

Turner, Danny W. see Young, Dean Max; et al., 91c:65164

Vaduva, I. On the probability distribution of the values of a distribution density. (French and Russian summaries) (Not in MR)

Young, Dean Max (with Seaman, John W., Jr.; Turner, Danny W.) A ratio-of-uniforms method for generating exponential power variates. 91c:65164

65C20 Models, numerical methods

Abd-El-Hakim, Nagi S. see El-Dab Ahmad, Khalaf, 91f:65016

Abdukadyrov, A. A. (with Kambarov, A. S.) Numerical modeling of logic-dynamical systems. (Russian) 91c:65005

de Abreu, M. P. (with Thome, Z. D.; Alvim, A. C. M.; da Silva, F. Carvalho) Une méthode alternative de pseudo-harmoniques: quelques considérations au sujet de la solution forte du système récurrent et des nouvelles applications. [An alternative pseudo-harmonics method: considerations concerning the strong solution of the recurrent system, and new applications] (Not in MR)

Alvim, A. C. M. see de Abreu, M. P.; et al., (Not in MR)

Artem'ev, S. S. ★ Численное решение интегро-дифференциальных уравнений с помощью ЦДУ. (Russian) [Numerical solution of integro-differential equations by means of stochastic differential equations] 91j:65014

Axelrad, V. Fourier method analysis of semiconductor devices. (see 91c:00027)

Belov, V. V. (with Makushkina, I. Yu.) Statistical modeling of noise characteristics of lateral lighting in vision systems. (Russian) (see 91g:65009)

Bilyk, A. N. see Lavrik, V. I.; et al., (Not in MR)

Block, A. (with von Bloh, W.; Schellnhuber, H. J.) Efficient box-counting determination of generalized fractal dimensions. 91h:65015

von Bloh, W. see Block, A.; et al., 91h:65015

Bukiet, Bruce G. Density profiles for diverging detonations. 91a:65009

Bulychev, Yu. G. (with Pogonyshv, S. A.) Methods for digital modeling of stochastic evolution differential equations. (Russian) 91h:65016

Cleigs, Raimondas Numerical modeling of the interaction of focused counterrunning laser beams. (Russian. English and Lithuanian summaries) 91m:65019

Costea, Nicolae Applications of statistical experimental methods (the Monte Carlo method). (Romanian) 91h:65010

Coughran, W. M., Jr. (with Jerome, Joseph W.) Modular algorithms for transient semiconductor device simulation. I. Analysis of the outer iteration. 91d:65017

Degond, Pierre (with Mustieles, Francisco-José) A deterministic approximation of diffusion equations using particles. 91a:65010

— see also Mustieles, Francisco-José, (91c:00027)

El-Dab Ahmad, Khalaf (with Abd-El-Hakim, Nagi S.) Random sampling from a truncated bivariate normal distribution. 91f:65016

Ermakov, S. M. (with Melas, V. B.) Optimal branching of trajectories in simulation of systems described by stationary random processes. 91f:65013

Jerome, Joseph W. see Coughran, W. M., Jr., 91d:65017

Kambarov, A. S. see Abdukadyrov, A. A., 91c:65005

Lavrik, V. I. (with Bilyk, A. N.; Nikiforovich, N. A.) Multi-chamber simulation modelling of water quality in reservoir. (Not in MR)

Lee, Poh Ann see Sim, C. H., 91c:65006

Ma, Fai (with Wei, Mein Sieng) Monte Carlo simulation of linear two-phase flow in heterogeneous media. (Not in MR)

Makushkina, I. Yu. see Belov, V. V., (91g:65009)

Mann, J. Adin, Jr. see Ycart, Bernard; et al., 91h:65017

Melas, V. B. see Ermakov, S. M., 91f:65013

Mignolet, Marc P. (with Spanos, Pol-T. D.) A direct determination of ARMA algorithms for the simulation of stationary random processes. 91h:65023

Mustieles, Francisco-José (with Degond, Pierre) A deterministic particle method for the semiconductor Boltzmann equation. (see 91c:00027)

— see also Degond, Pierre, 91a:65010

Nikiforovich, N. A. see Lavrik, V. I.; et al., (Not in MR)

Pogonyshv, S. A. see Bulychev, Yu. G., 91h:65016

Reazar, S. see Ycart, Bernard; et al., 91h:65017

Romanovskii, M. R. Mathematical modeling of experiments with the help of inverse problems. 91f:65014

Rubinstein, Reuven Y. (with Shapiro, Alexander) Optimization of static simulation models by the score function method. 91k:65024

Schellnhuber, H. J. see Block, A.; et al., 91h:65015

Shapiro, Alexander see Rubinstein, Reuven Y., 91k:65024

da Silva, F. Carvalho see de Abreu, M. P.; et al., (Not in MR)

Sim, C. H. (with Lee, Poh Ann) Simulation of negative binomial processes. 91c:65006

Spanos, Pol-T. D. see Mignolet, Marc P., 91h:65023

Stefănescu, Pollana (with Ștefănescu, Ștefan V.) A simple Monte Carlo simulation technique with applications in large systems. (French and Russian summaries) 91d:65018

Ștefănescu, Ștefan V. see Ștefănescu, Pollana, 91d:65018

Szulga, Jerzy see Ycart, Bernard; et al., 91h:65017

Thome, Z. D. see de Abreu, M. P.; et al., (Not in MR)

Wei, Mein Sieng see Ma, Fai, (Not in MR)

Woyczyński, Wojbor A. see Ycart, Bernard; et al., 91h:65017

Ycart, Bernard (with Woyczyński, Wojbor A.; Szulga, Jerzy; Reazar, S.; Mann, J. Adin, Jr.)

An interacting particle model of adsorption. 91h:65017

Items with secondary classifications in 65C20

Arseen'ev, A. A. Justification of the direct statistical modeling method in a problem of kinetic gas theory. (Russian) 91c:82051

- Justification of the direct statistical modeling method in a problem of the kinetic theory of gases. (Russian) **91c:82061**
- Crochet, M. J. (with Delvaux, V.) Numerical simulation of inertial viscoelastic flow with change of type. **91g:76006**
- Degond, Pierre (with Poupaud, Frédéric; Nicot, Bernard; Guyot-Delaurens, F.) Semiconductor modelling via the Boltzmann equation. **91k:82053**
- Delvaux, V. see Crochet, M. J., **91g:76006**
- Fedorov, S. V. see Palagin, Yu. I.; et al., **91g:86003**
- Fei, Jing Gao Local analytical methods for digital simulation of dynamical control system. **91i:93058**
- Guyot-Delaurens, F. see Degond, Pierre; et al., **91k:82053**
- Heathcote, C. R. (with Nicholls, D. F.) Least-squares estimation of the contact rate in models for the spread of infectious diseases. **91e:92010**
- Kerkhove, Thomas On the one-dimensional current driven semiconductor equations. **91m:35223**
- Krasovskii, A. A. Approximation of functions of many arguments in systems of digital modelling. **91f:65033**
- Lebedev, Andrei Nikolaevich ★ Моделирование в научно-технических исследованиях. (Russian) [Modeling in scientific-technical research] **91i:00014**
- Liu, Ru Xun see Wang, Ru Yun, (Not in MR)
- Markowich, Peter A. Spatial-temporal structure of solutions of the semiconductor device problem. **91b:35104**
- Miura, Kenichi Vectorization and parallelization of transport Monte Carlo simulation codes. (see **91f:65006**)
- Morales, Juan J. (with Nuevo, María J.; Rull, Luis F.) Statistical error methods in computer simulations. **91h:65226**
- Müller, J.-A. The development of selective methods of modeling in East Germany. **91g:00025**
- Nelson, Barry L. Control variate remedies. (Not in MR)
- Nicholls, D. F. see Heathcote, C. R., **91e:92010**
- Nicot, Bernard see Degond, Pierre; et al., **91k:82053**
- Nuevo, María J. see Morales, Juan J.; et al., **91h:65226**
- Palagin, Yu. I. (with Fedotov, S. V.; Shalygin, A. S.) Parametric models for statistical modeling of vector inhomogeneous random fields. **91g:86003**
- Poupaud, Frédéric see Degond, Pierre; et al., **91k:82053**
- Ringhofer, Christian The shape of solutions to the fundamental semiconductor device equations. **91b:35013**
- Rössler, O. E. (with Stewart, H. B.; Wiesenfeld, Kurt) Unfolding a chaotic bifurcation. **91k:58090**
- Rull, Luis F. see Morales, Juan J.; et al., **91h:65226**
- Shalygin, A. S. see Palagin, Yu. I.; et al., **91g:86003**
- Spigler, Renato Numerical simulation for degenerate diffusions. **91g:65288**
- Stewart, H. B. see Rössler, O. E.; et al., **91k:58090**
- Sunkel, Masao Fractal decomposition of exponential operators with applications to many-body theories and Monte Carlo simulations. **91d:81005**
- Temirgaliev, N. Application of the theory of divisors to the numerical integration of periodic functions of several variables. **91h:65040**
- Varah, James M. On the conditioning of parameter estimation problems. **91m:65228**
- Wagner, Wolfgang¹ Controlled unbiased estimators for certain functional integrals. (see **91j:60004**)
- Wang, Ru Yun (with Liu, Ru Xun) Numerical simulation for an unsteady shock wave sweeping over multiple rectangular obstacles. (Chinese. English summary) (Not in MR)
- Wiesenfeld, Kurt see Rössler, O. E.; et al., **91k:58090**
- Yamitski, V. E. Kac's model for a gas of N particles and Monte-Carlo simulation in rarefied gas dynamics. (see **91j:60004**)

65C99 None of the above, but in this section

- Hall, Eric B. see Wessel, Alan E.; et al., **91i:65017**
- Honerkamp, J. (with Weese, J.) Tikhonov's regularization method for ill-posed problems. A comparison of different methods for the determination of the regularization parameter. **91a:65011**
- Mirzaev, N. Stability of recognition algorithms that are given on features of various types. (Russian) **91e:65018**
- Weese, J. see Honerkamp, J., **91a:65011**
- Wessel, Alan E. (with Hall, Eric B.; Wise, Gary L.) Importance sampling via simulacrum. **91i:65017**
- Wise, Gary L. see Wessel, Alan E.; et al., **91i:65017**
- Items with secondary classifications in 65C99
- Choi, U Jin (with Kwak, Do Young) Almost sure convergence of Galerkin approximations for a heat equation with a random initial condition. **91e:65116**
- Chorin, Alexandre Joel Constrained random walks and vortex filaments in turbulence theory. **91j:76038**
- Ervench, E. L. A statistical method for designing a mixed algorithm that is optimal with respect to stability. (Russian) **91k:65165**
- Fang, Kai Tai see Wang, Yuan¹, **91h:11077** and **91h:11078**
- Itoh, Toshiya An efficient probabilistic algorithm for solving quadratic equation over finite fields. **91h:11190**
- Khalifa, L. A. On an alternative to traditional computer tomography. (Russian) (Not in MR)
- Korzenowski, Andrzej A probabilistic approach to numerical solution of the nonlinear diffusion equation. **91m:65252**
- Kwak, Do Young see Choi, U Jin, **91e:65116**
- Novak, Erich Stochastic error bounds for some nonlinear problems in numerical analysis. (see **91j:41002**)
- Plaskota, L. On average case complexity of linear problems with noisy information. **91i:65217**
- Sod, G. A. A random choice method for the Stefan problem. **91d:65208**

- Wang, Yuan¹ (with Fang, Kai Tai) Number-theoretic method in applied statistics. (Chinese summary) **91h:11077**
- (with Fang, Kai Tai) Number-theoretic methods in applied statistics. II. **91h:11078**
- Zhu, Qi Ding A probabilistic finite element method. (Chinese. English summary) **91e:65134**

65Dxx Numerical approximation {Primarily algorithms; for theory, see 41-XX.}

- Bajaj, Chanderjit L. Geometric modelling with algebraic surfaces. **91d:65019**
- Gautschi, Walter Orthogonality—conventional and unconventional—in numerical analysis. **91d:65020**
- Grosse, Eric A catalogue of algorithms for approximation. (see **91e:65003**)
- Wang, C. Y. Computational geometry in China: a survey. **91d:65021**
- Items with secondary classifications in 65Dxx
- (Bézier, P.) see Farin, Gerald, **91i:65036**
- (Boehm, Wolfgang) see Farin, Gerald, **91i:65036**
- Deutsch, Frank Constrained best approximation. **91k:41001**
- Farin, Gerald ★ Curves and surfaces for computer aided geometric design. **91i:65036**
- Gautschi, Walter Some applications and numerical methods for orthogonal polynomials. (see **91k:65007**)
- Lebedev, V. I. ★ Функциональный анализ и вычислительная математика. (Russian) [Functional analysis and numerical mathematics] **91g:00001**
- Maass, Gerhard ★ Vorlesungen über numerische Mathematik. II. (German) [Lectures on numerical mathematics. II] **91a:65003**
- Sachs, Ekkehard W. Convergence of algorithms for perturbed optimization problems. **91k:49047**
- Sukharev, A. G. ★ Минимаксные алгоритмы в задачах численного анализа. (Russian) [Minimax algorithms in problems of numerical analysis] **91a:65004**

65D05 Interpolation

- Agarwal, Ravi Prakash (with Wong, Patricia J. Y.) Optimal error bounds for the derivatives of two-point Hermite interpolation. **91m:65020**
- Altzberg, L. A. (with Kravtsov, B. A.; Shaikulov, B. A.) Estimation of stability for interpolation of signals with a finite Fourier spectrum, and a numerical experiment. **91c:65007**
- Ammar, Gregory (with Dayawansa, W. P.; Martin, Clyde Franklin) Exponential interpolation: theory and numerical algorithms. **91k:65025**
- Angelos, James R. (with Kaufman, Edwin H., Jr.; Henry, Myron S.; Lenker, Terry D.) Optimal nodes for polynomial interpolation. (see **91j:41001**)
- Balazs, K. (with Kilgore, Theodore) A discussion of simultaneous approximation of derivatives by Lagrange interpolation. **91m:65021**
- Bezhaev, A. Ya. Interpolation with respect to integral means on spheres in \mathbb{R}^3 . (Russian) **91h:65011**
- Bos, L. P. (with Grabenstetter, J. E.; Salkauskas, K.) Finite element interpolation with weighted smoothing. **91m:65022**
- Brutman, L. The Fourier operator of even order and its application to an extremum problem in interpolation. (see **91e:65003**)
- Polynomial extrapolation from $[-1, 1]$ to the unit disc. **91k:65026**
- Buhmann, M. D. (with Powell, M. J. D.) Radial basis function interpolation on an infinite regular grid. **91j:65015**
- Carlson, Ralph E. Shape preserving bicubic interpolation: a progress report. (see **91k:65005**)
- (with Foley, Thomas A.) The parameter R^2 in multiquadric interpolation. (Not in MR)
- Chui, Charles K. (with Li, Xie Zhang; Zhong, Le Fan) On computation of minimum-norm tangent interpolants. (see **91j:41001**)
- (with Diamond, Harvey) Approximation and interpolation formulas for real-time applications. **91f:65015**
- Costantini, Paolo (with Fontanella, Ferruccio) Shape-preserving bivariate interpolation. **91f:65016**
- Crisuolo, Giuliana (with Mastroianni, Giuseppe; Occorsio, Donatella) Convergence of extended Lagrange interpolation. **91c:65008**
- Dahmen, Wolfgang (with Gmelig Meyling, R. H. J.; Ursem, J. H. M.) Scattered data interpolation by bivariate C^1 -piecewise quadratic functions. **91k:65027**
- Dayawansa, W. P. see Ammar, Gregory; et al., **91k:65025**
- De Meyer, H. (with Vanthournout, J.; Vanden Bergh, G.) On a new type of mixed interpolation. **91f:65017**
- Diamond, Harvey see Chui, Charles K., **91f:65015**
- Dobrovolski, I. G. see Morozov, V. A.; et al., (91k:65008)
- Dyn, Nira (with Ron, Amos) On multivariate polynomial interpolation. (see **91e:65003**)
- (with Levin, David; Rippa, Samuel) Algorithms for the construction of data dependent triangulations. (see **91c:65003**)
- Egecioglu, Ömer (with Gallopolos, E.; Koc, Çetin K.) Fast computation of divided differences and parallel Hermite interpolation. **91g:65018**
- (with Gallopolos, E.; Koc, Çetin K.) A parallel method for fast and practical high-order Newton interpolation. **91h:65018**
- Erğashev, B. see Imamov, A., **91k:65029**
- Fang, Kai C¹ polynomial interpolating approximation over an arbitrary triangle. (Chinese) **91d:65022**
- Some remarks on smooth interpolation over a triangle. (Chinese) (Not in MR)
- Fiedler, Miroslav Löwnerische Matrizen und rationale Interpolation. [Löwner matrices and rational interpolation] **91h:65019**
- Foley, Thomas A. Interpolation of scattered data on a spherical domain. (see **91e:65003**)
- see also Carlson, Ralph E., (Not in MR)
- Fontanella, Ferruccio see Costantini, Paolo, **91f:65016**
- Gallopolos, E. see Egecioglu, Ömer; et al., **91g:65018** and **91h:65018**
- Gao, Jun Bin A basis expression for multivariate triangular matrix interpolation. (Chinese. English summary) **91a:65012**

- Garrett, Tylene S. *see* Newbery, A. C. R., (Not in MR)
- Gasca, Mariano (with Mühlbach, G.) Multivariate interpolation: a survey with regard to extrapolation. (see 91e:00029)
- (with Martínez, José Javier) On the computation of determinants arising in some bivariate rational interpolation problems. 91a:65013
- Multivariate polynomial interpolation. 91k:65028
- Gmelig Meyling, R. H. J. *see* Dahmen, Wolfgang; et al., 91k:65027
- Goodrich, R. Kent *see* Wilson, F. Wesley; et al., 91e:65021
- Grabenstetter, J. E. *see* Bos, L. P.; et al., 91m:65022
- Hasegawa, Takemitsu (with Torii, Tatsuo; Sugiura, Hiroshi) An algorithm based on the FFT for a generalized Chebyshev interpolation. 91e:65009
- Henry, Myron S. *see* Angelos, James R.; et al., (91j:41001)
- Höllig, Klaus (with Marsden, Martin; Riemenschneider, Sherman D.) Bivariate cardinal interpolation on the 3-direction mesh: P -data. 91f:65018
- Imamov, A. (with Ergashev, B.) Formulas for interpolating functions of several variables. (Russian) 91k:65029
- Jackson, I. R. H. An order of convergence for some radial basis functions. 91e:65019
- Jiang, Tian Zi An asymptotic expansion for the norm of the derivative operator of a Lagrange interpolation operator. (Chinese. English summary) 91j:65016
- Kaltofen, Erich (with Yagati, Lakshman) Improved sparse multivariate polynomial interpolation algorithms. 91a:65014
- Kaufman, Edwin H., Jr. *see* Angelos, James R.; et al., (91j:41001)
- Kilgore, Theodore *see* Balázs, K., 91m:65021
- Koç, Çetin K. *see* Egecioglu, Ömer; et al., 91g:65018 and 91h:65018
- Kovalev, V. A. The method of integral splines in problems in dynamics. (Russian) 91j:65017
- Kravtsov, B. A. *see* Aizenberg, L. A.; et al., 91e:65007
- Lenker, Terry D. *see* Angelos, James R.; et al., (91j:41001)
- Levin, David *see* Dyn, Nira; et al., (91e:65003)
- Lü, Jian Ping Convergence and error estimation of bivariate cardinal interpolation on a three-directional mesh. (Chinese. English summary) 91k:65030
- Lü, Xie Zhang *see* Chui, Charles K.; et al., (91j:41001)
- Liem, Chin Bo *see* Lü, Tao; et al., 91e:65012
- Lorente, J. *see* Ramírez, V.; et al., (91k:65005)
- Lü, Tao (with Shih, Tsi Min; Liem, Chin Bo) ★ An analysis of splitting extrapolation for multidimensional problems. 91k:65012
- Madych, W. R. (with Nelson, S. A.) Error bounds for multiquadric interpolation. (see 91j:41002)
- Marsden, Martin *see* Höllig, Klaus; et al., 91e:65018
- Martin, Clyde Franklin (with Miller, John D.; Pearce, K.) Sums of exponentials with polynomial coefficients. 91g:65019
- *see also* Ammar, Gregory; et al., 91k:65025
- Martínez, José Javier *see* Gasca, Mariano, 91a:65013
- Mastroianni, Giuseppe *see* Criscuolo, Giuliana; et al., 91e:65008
- Medvedev, V. A. *see* Morozov, V. A.; et al., (91k:65008)
- le Méhauté, A. Continuity conditions for subdivision algorithms. (see 91j:41002)
- Mhaskar, H. N. (with Xu, Yuan) The rate of convergence of a Hermite interpolation process. (see 91j:41002)
- Miller, John D. *see* Martin, Clyde Franklin; et al., 91g:65019
- Morozov, V. A. (with Medvedev, V. A.; Dobrovolskii, I. G.) Interpolation methods in problems of digital processing of images. (Russian) (see 91k:65008)
- Mühlbach, G. *see* Gasca, Mariano, (91e:00029)
- Muñoz, F. J. *see* Ramírez, V.; et al., (91k:65005)
- Murashko, V. L. (with Osipov, I. L.) A method for generating an interpolational curve that has continuous piecewise-constant curvature. (Russian) 91h:65020
- Nelson, S. A. *see* Madych, W. R., (91j:41002)
- Newbery, A. C. R. (with Garrett, Tylene S.) Interpolation with minimized curvature. (Not in MR)
- Occorsio, Donatella *see* Criscuolo, Giuliana; et al., 91e:65008
- Osipenko, K. Yu. Optimal extrapolation of smooth functions that are given with error. (Russian) 91g:65020
- Osipov, I. L. *see* Murashko, V. L., 91h:65020
- Paruolo, Giuseppe A vector-efficient and memory-saving interpolation algorithm for PIC codes on a Cray X-MP. 91f:65018
- Passaquindici, Maria Interpolation via the continued fraction. (Italian. English summary) 91a:65015
- Pearce, K. *see* Martin, Clyde Franklin; et al., 91g:65019
- Pottmann, Helmut Scattered data interpolation based upon generalized minimum norm networks. 91m:65023
- Powell, M. J. D. *see* Bahmann, M. D., 91j:65015
- Preusser, Albrecht Efficient formulation of a bivariate nonic C^2 -Hermite polynomial on triangles. (Not in MR)
- Rabut, Christophe Fast quasi-interpolation of surfaces with generalised B -splines on regular nets. 91f:65019
- Rademacher, C. (with Scherer, Karl) Algorithms for computing best parametric cubic interpolation. 91k:65031
- Ramírez, V. (with Lorente, J.; Muñoz, F. J.) Some results on interpolation in two variables. (see 91k:65005)
- Rasch, Philip J. (with Williamson, David L.) On shape-preserving interpolation and semi-Lagrangian transport. 91f:65020
- Reichel, Lothar Newton interpolation at Leja points. 91e:65020
- Reimer, Manfred Problems and results in the calculation of extremal fundamental systems for sphere and ball. 91h:65021
- Riemenschneider, Sherman D. *see* Höllig, Klaus; et al., 91e:65018
- Rippa, Samuel Minimal roughness property of the Delaunay triangulation. 91j:65018
- *see also* Dyn, Nira; et al., (91e:65003)
- Ron, Amos *see* Dyn, Nira, (91e:65003)
- Ryndina, V. V. Some classes of the convergence of a (B, T) Newton interpolation process in the space A_∞ , and representing systems. (Russian) 91h:65013
- Salkauskas, K. *see* Bos, L. P.; et al., 91m:65022
- Salzer, Herbert E. Interpolation by division. (Not in MR)
- Schaback, Robert Convergence of planar curve interpolation schemes. (see 91j:41002)
- Scherer, Karl Best interpolation with free nodes by closed curves. 91a:65016
- *see also* Rademacher, C., 91k:65031
- Shaimkulov, B. A. *see* Aizenberg, L. A.; et al., 91e:65007
- Shih, Tai Min *see* Lü, Tao; et al., 91e:65012
- Soanes, Royce W. Good, better, and best meshes in piecewise linear interpolation. (see 91m:65002)
- Spratt, Wendy *see* Wilson, F. Wesley; et al., 91e:65021
- Sugiura, Hiroshi *see* Hasegawa, Takemitsu; et al., 91e:65009
- Tal-Ezer, Hillel High degree polynomial interpolation in Newton form. 91k:65032
- Tarasov, I. S. The generalized Vandermonde matrix and its applications. (Russian) 91j:65021
- Torii, Tatsuo *see* Hasegawa, Takemitsu; et al., 91e:65009
- Ursem, J. H. M. *see* Dahmen, Wolfgang; et al., 91k:65027
- Vanden Bergh, G. *see* De Meyer, H.; et al., 91f:65017
- Vanthournout, J. *see* De Meyer, H.; et al., 91f:65017
- Wang, Chung-Lie (with Wang, Shao Ming) Smooth transfinite interpolation on triangles. 91j:65019
- Wang, Jian Zhong² Conjugate point-evaluation functionals on B -nets. 91d:65023
- Wang, Shao Ming *see* Wang, Chung-Lie, 91j:65019
- Williamson, David L. *see* Rasch, Philip J., 91f:65020
- Wilson, F. Wesley (with Goodrich, R. Kent; Spratt, Wendy) Lawson's triangulation is nearly optimal for controlling error bounds. 91e:65021
- Wong, Patricia J. Y. *see* Agarwal, Ravi Prakash, 91m:65020
- Wu, Zong Min A suitable method for the interpolation of multivariate scattered data, and its convergence rate. (Chinese. English summary) 91a:65017
- Special characteristics of descriptions of mineral resource distribution functions and their interpolation models. (Chinese) (Not in MR)
- Xu, Yuan *see* Mhaskar, H. N., (91j:41002)
- Xu, Zhi Ming Discrete interpolation surfaces. (Chinese. English summary) 91a:65018
- Yagati, Lakshman *see* Kaltofen, Erich, 91a:65014
- Yang, Chang Lan A boundary interpolation scheme with no inner node on a curvilinear triangle. (Chinese. English summary) 91m:65024
- Zhong, Le Fan *see* Chui, Charles K.; et al., (91j:41001)
- Items with secondary classifications in 65D05
- Abouir, J. (with Cuyt, Annie A. M.) Error formulas for multivariate rational interpolation and Padé approximation. 91j:65025
- Barnhill, Robert E. (with Ou, H. S.) Surfaces defined on surfaces. 91g:65035
- Barnsley, Michael F. (with Harrington, Andrew N.) The calculus of fractal interpolation functions. 91c:41004
- Belor, Yu. A. (with Murzin, V. S.) A problem of interpolating the Uryson operator on the basis of random input and output data. (Russian. English summary) 91m:65321
- Bernardi, Christine Optimal finite-element interpolation on curved domains. (French summary) 91a:65228
- Berthold, Dietmar Lagrangian interpolation operators in Hölder spaces. 91d:45003
- Bühmann, M. D. Multivariate cardinal interpolation with radial-basis functions. 91f:41001
- Cappello, P. R. (with Gallopoulos, E.; Koç, Çetin K.) Systolic computation of interpolating polynomials. (German summary) 91f:65001
- Chui, Charles K. (with Diamond, Harvey) A characterization of multivariate quasi-interpolation formulas and its applications. 91e:41002
- Cuyt, Annie A. M. (with Jacobsen, Lisa; Verdonk, Brigitte M.) Instability and modification of Thiele interpolating continued fractions [Appl. Numer. Math. 4 (1988), no. 2-4, 253-262; MR 89e:41019]. (see 91m:41002)
- *see also* Abouir, J., 91j:65025
- De Meyer, H. (with Vanden Bergh, G.; Vanthournout, J.) Modified backward differentiation methods of the Adams-type based on exponential interpolation. 91m:65058
- Diamond, Harvey *see* Chui, Charles K., 91e:41002
- Dunham, Charles B. (with Zhu, Chang Zhong) Exact approximation of nodes. 91d:65032
- Gallopoulos, E. *see* Cappello, P. R.; et al., 91f:65001
- Goodman, T. N. T. (with Taani, A. A.) Cardinal interpolation by symmetric exponential box splines on a three-direction mesh. 91c:41008
- Harrington, Andrew N. *see* Barnsley, Michael F., 91c:41004
- Hess, Walter Paul *see* Schmidt, Jochen W.; et al., 91f:65027
- Hlawka, Edmund Über die direkten Methoden der Variationsrechnung und Gleichverteilung. [On direct methods of variational calculus and uniform distribution] 91d:49002
- Ibragimov, V. R. Some properties of the Richardson extrapolation. (Russian) 91m:65195
- Ivanov, V. T. (with Shcherbinin, S. A.) Methods for the calculation and analysis of interacting physical processes. (Russian) 91f:80002
- Jacobsen, Lisa *see* Cuyt, Annie A. M.; et al., (91m:41002)
- Kallay, Michael (with Ravani, Bahram) Optimal twist vectors as a tool for interpolating a network of curves with a minimum energy surface. 91j:65032
- Koç, Çetin K. *see* Cappello, P. R.; et al., 91f:65001
- Krasovskii, A. A. Approximation of functions of many arguments in systems of digital modelling. 91f:65033
- Lenze, Burkhard (with Locher, F.) Hermite-Lagrange two-point interpolation via Peano kernels. 91c:41011
- Locher, F. *see* Lenze, Burkhard, 91c:41011
- Lorentz, Rudolph Alexander Uniform bivariate Hermite interpolation. I. Coordinate degree. 91c:41012
- Labinsky, D. S. Can we avoid nonnormality and spurious poles in Padé and rational interpolation? (see 91j:41002)
- Maderua, C. (with Pagani, C. D.) Best estimates in the extrapolation problem for harmonic functions. 91c:31001
- Moss, William F. Exploring shape preserving interpolation using interactive graphics. (see 91j:41002)
- Murzin, V. S. *see* Belor, Yu. A., 91m:65321
- Nordheim, Th. *see* Schmidt, Jochen W.; et al., 91f:65027

- Ou, H. S. *see* Barnhill, Robert E., 91g:65035
- Pagan, C. D. *see* Madera, C., 91c:31001
- Paskov, S. H. Singularity of bivariate interpolation. 91c:41013
- Preusser, Albrecht Algorithm 684: C^1 - and C^2 -interpolation on triangles with quintic and nonic bivariate polynomials. (Not in MR)
- von Radziewski, Karin On periodic Hermite-Birkhoff interpolation by translation. 91c:41002
- Ravani, Bahram *see* Kallay, Michael, 91j:65032
- Rovba, E. A. Rational interpolation of the function $|x|$. (Russian. English summary) 91c:41043
- Schmidt, Jochen W. (with Hess, Walter Paul; Nordheim, Th.) Shape preserving histopolation using rational quadratic splines. (German summary) 91f:65027
- Séquin, Carlo H. *see* Shirman, Leon A., 91g:65042
- Shcherbinin, S. A. *see* Ivanov, V. T., 91f:80002
- Shirman, Leon A. (with Séquin, Carlo H.) Local surface interpolation with shape parameters between adjoining Gregory patches. 91g:65042
- Taani, A. A. *see* Goodman, T. N. T., 91c:41008
- Vanden Bergh, G. *see* De Meyer, H.; et al., 91m:65058
- Vanthournout, J. *see* De Meyer, H.; et al., 91m:65058
- Verdonk, Brigitte M. *see* Cuyt, Annie A. M.; et al., (91m:41002)
- Wu, Zong Min A class of convexity-preserving bases for radial basis interpolation. (Chinese. English summary) 91j:41007
- Xu, Chun Ning The convergence order of derivative approximation of interpolation processes by $1/2^n$ average Lagrange polynomials. (Chinese. English summary) 91b:41003
- Zhang, Zao Shun A multivariate cardinal interpolation problem. (Chinese) 91c:41015
- Zhu, Chang Zhong *see* Dunham, Charles B., 91d:65032
- Zippel, Richard Interpolating polynomials from their values. 91g:68090
- Zyagintsev, A. I. A problem of A. N. Kolmogorov. (Russian) 91c:41016
- ### 65D07 Splines
- Agarwal, Ravi Prakash *see* Wong, Patricia J. Y., 91c:65012
- Alfeld, Peter (with Schumaker, Larry L.) On the dimension of bivariate spline spaces of smoothness r and degree $d = 3r + 1$. 91h:65022
- Arge, E. (with Dahlen, Morten; Lyche, Tom; Marken, Knut M.) Constrained spline approximation of functions and data based on constrained knot removal. (see 91e:65003)
- Auerbach, S. (with Gmelig Meyling, R. H. J.; Neamtu, Marian; Schaeben, H.) Approximation and geometric modeling with simplex B -splines associated with irregular triangles. 91k:65033
- Barry, Phillip J. de Boor-Fix functionals and polar forms. 91k:65034
- Beaton, R. K. (with Chacko, E.) A quantitative comparison of end conditions for cubic spline interpolation. (see 91j:41001)
- Behrooz, G. Manifold Subbotin spline. 91j:65020
- Bogachev, Yu. P. (with Karpenko, A. P.; Shumayeva, S. M.) Parametric coordination of some spline-interpolation algorithms with the architecture of multiprocessor computer systems. 91e:65019
- de Boor, Carl The exact condition of the B -spline basis may be hard to determine. 91k:65023
- Bozzini, M. (with De Tisi, F.) An algorithm for knot location in bivariate least squares spline approximation. (see 91e:65003)
- Buikis, Andris Conservative spline-approximation of differential equations with discontinuous coefficients. (Russian) (see 91k:65007)
- Chacko, E. *see* Beaton, R. K., (91j:41001)
- Chen, Guan Rong *see* de Figueiredo, Rui J. P., 91e:65023
- Chen, Yuan *see* Wang, Jian Zhong?, (91j:41002)
- Choi, Charles K. Vertex splines and their applications to interpolation of discrete data. 91f:65021
- (with Lai, Ming Jun) On bivariate super vertex splines. 91h:65024
- (with Lai, Ming Jun) Multivariate vertex splines and finite elements. 91e:65022
- Clements, John C. Convexity-preserving piecewise rational cubic interpolation. 91g:65022
- Dahlen, Morten *see* Arge, E.; et al., (91e:65003)
- Dai, Yin Sheng (with Tang, Jun; Yang, Ming Sheng) Application of B -splines to the interpolation and approximation of ship contour lines. (Chinese) (Not in MR)
- Danner, Herbert (with Reinsch, Christian H.) An analysis of two algorithms for shape-preserving cubic spline interpolation. 91a:65020
- D'Azevedo, E. F. (with Simpson, R. B.) On optimal interpolation triangle incidences. 91a:65019
- De Tisi, F. *see* Bozzini, M., (91e:65003)
- Dinner, Dwight Instability in the dimension of spaces of bivariate piecewise polynomials of degree $2r$ and smoothness order r . 91k:65035
- Dierckx, Paul (with Tytgat, Bart) Generating the Bézier points of a β -spline curve. 91a:65021
- Dyn, Nira (with Levin, David; Rippa, Samuel) Data dependent triangulations for piecewise linear interpolation. 91a:65022
- El Tarazi, M. N. Quadratic spline interpolation on uniform meshes. 91f:65020
- de Figueiredo, Rui J. P. (with Chen, Guan Rong) PDL $_s$ splines defined by partial differential operators with initial and boundary value conditions. 91e:65023
- Florot, Jean-Charles (with Jeannin, Pierre) Courbes splines rationnelles contrôlées par un polygone massique. (English summary) [Rational spline curves and controlling mass polygon] 91f:65022
- (with Tabka, J.) Shape-preserving C^2 cubic polynomial interpolating splines. 91j:65021
- Gao, Xie Pin Asymptotic expansion of tension spline functions. (Chinese. English summary) 91c:65010
- Gmelig Meyling, R. H. J. (with Pflüger, P. R.) Smooth interpolation to scattered data by bivariate piecewise polynomials of odd degree. 91j:65022
- *see also* Auerbach, S.; et al., 91k:65033
- Goodman, T. N. T. Polyhedral splines. 91f:65023
- Grebennikov, A. I. (with Stolyarenko, D. A.) Numerical analysis of spline algorithms for smoothing functions of two variables defined with error on irregular grids. (Russian) (see 91k:65006)
- Gregory, John A. (with Sarfraz, Muhammad) A rational cubic spline with tension. 91m:65025
- Hänel, Anke (with Maess, Gerhard) 2D-interpolation by biquadratic splines with minimal surface. 91d:65024
- Hao, Yu Bin Explicit approximation by splines of the fifth degree with interpolation near the boundary. 91a:65023
- He, Tian Xiao *see* Wang, Ren Hong; et al., 91h:65027
- Hess, Walter Paul *see* Schmidt, Jochen W.; et al., 91f:65027
- Howell, Gary W. Error bounds for two even degree tridiagonal splines. 91f:65024
- Hřebíček, Jiří (with Šik, František; Veselý, Vítězslav) Discrete smoothing splines and digital filtration. Theory and applications. (Russian and Czech summaries) 91e:65024
- Hu, Ri Zhang *see* Li, Yue Sheng, 91k:65036
- Huang, Pu Shen Two-parameter isometric β -splines. (Chinese) 91a:65024
- Huang, Xu Ming Bivariate double mixed interpolating splines. (Chinese. English summary) 91e:65025
- Ignatov, M. I. (with Pevnyi, A. B.) Reinsch's method for solving the smoothing problem in the multidimensional case. 91a:65025
- Jeannin, Pierre *see* Florot, Jean-Charles, 91f:65022
- Jetter, Kurt On Jackson-Favard estimates for blending approximation. (see 91j:41002)
- Kaklis, P. D. (with Pandelis, D. G.) Convexity-preserving polynomial splines of nonuniform degree. 91h:65025
- Kalitin, N. N. (with Terikhova, N. I.) Natural parabolic interpolational splines. (Russian) 91b:65014
- Karpenko, A. P. *see* Bogachev, Yu. P.; et al., 91b:65019
- Kobza, Jiří On algorithms for parabolic splines. (Russian and Czech summaries) 91b:65015
- Koch, Per Erik (with Lyche, Tom) Exponential B -splines in tension. (see 91j:41002)
- Kovalev, A. V. An efficient algorithm for constructing a cubic spline with continuous constraints. (Russian) 91h:65016
- Kvasov, B. I. (with Yatsenko, S. A.) Conservative interpolation by rational splines. (see 91j:41002)
- Lachance, M. A. Piecewise polynomial approximation of polynomial curves. (see 91e:65003)
- Lahtinen, Aatos Shape preserving interpolation by quadratic splines. 91c:65011
- Lai, Ming Jun *see* Choi, Charles K., 91e:65022 and 91h:65024
- Le, An Bo Spaces of bivariate spline functions with boundary conditions. 91g:65023
- Lee, E. T. Y. A note on blossoming. 91a:65026
- Lenze, Burkhard On constructive one-sided spline approximation. (see 91j:41002)
- Levin, David *see* Dyn, Nira; et al., 91a:65022
- Li, Jia Kai (with Xu, Guo Liang) An adaptive Remes algorithm for best polynomial approximations. 91a:65027
- Li, Xu Wei *see* Tao, Fu Zhou, 91f:65028
- Li, Yue Sheng (with Hu, Ri Zhang) A spline interpolation method for multivariate scattered data. (Chinese. English summary) 91k:65036
- Liang, You Dong *see* Lai, Wei, 91f:65021
- Liu, Qing Chang Construction of a class of C^2 continuous and convexity-preserving interpolation parametric cubic spline curves. (Chinese) 91f:65025
- Liu, Xiao Yan *see* Wang, Ren Hong; et al., 91h:65027
- Liu, Yu Ming Doubly periodic quadratic splines on type-II triangulations. (Chinese. English summary) 91m:65026
- Lai, Wei (with Liang, You Dong) Discrete constructions and the problem of the shape-preserving property of rational B -spline curves. (Chinese. English summary) 91f:65021
- Li, Xu Guang *see* Wang, Ren Hong, 91j:65024
- Lyche, Tom Discrete B -splines and conversion problems. 91f:65026
- *see also* Arge, E.; et al., (91e:65003) and Koch, Per Erik, (91j:41002)
- Maess, Gerhard *see* Hänel, Anke, 91d:65024
- Marušić, Miljenko (with Rogina, Mladen) B -spline in tension. (Serbo-Croatian summary) (see 91m:00027)
- McCartin, Brian J. Computation of exponential splines. 91d:65025
- Marken, Knut M. *see* Arge, E.; et al., (91e:65003)
- Nadler, Edmond Hermite interpolation by C^1 bivariate splines. 91m:65027
- Neamtu, Marian Multivariate divided differences and B -splines. (see 91j:41002)
- *see also* Auerbach, S.; et al., 91k:65033
- Neuman, Edward Computation of inner products of some multivariate splines. 91h:65026
- Nordheim, Th. *see* Schmidt, Jochen W.; et al., 91f:65027
- Opfer, Gerhard An algorithm for nonlinear splines with nonnegativity constraints. 91f:65022
- Pandelis, D. G. *see* Kaklis, P. D., 91h:65025
- Pevnyi, A. B. *see* Ignatov, M. I., 91a:65025
- Pflüger, P. R. *see* Gmelig Meyling, R. H. J., 91j:65022
- Rabinowitz, Philip Numerical integration based on approximating splines. 91m:65028
- Rabot, Christophe A B -spline approximation algorithm for quasi-interpolation or filtering. (see 91e:65003)
- Ramachandran, Mankali Padmanabha End conditions for cubic spline interpolation. 91j:65023
- Ramshaw, Lyle Blossoms are polar forms. 91d:65026
- Rana, Surendra Singh Convergence of a class of discrete cubic interpolatory splines. 91g:65024
- Reinsch, Christian H. Software for shape-preserving spline interpolation. (see 91k:65011)
- *see also* Danner, Herbert, 91a:65020
- Rippa, Samuel *see* Dyn, Nira; et al., 91a:65022
- Rogina, Mladen *see* Marušić, Miljenko, (91m:00027)
- Rao, Amos Factorization theorems for univariate splines on regular grids. 91g:65025
- Sakal, Manabu (with Usmani, Riaz A.) On orders of approximation of plane curves by parametric cubic splines. 91k:65037
- Sarfraz, Muhammad *see* Gregory, John A., 91m:65025
- Schaback, Robert Adaptive rational splines. 91g:65026
- Schaeben, H. *see* Auerbach, S.; et al., 91k:65033
- Schmidt, Jochen W. (with Hess, Walter Paul; Nordheim, Th.) Shape preserving histopolation using rational quadratic splines. (German summary) 91f:65027
- Schumaker, Larry L. *see* Alfeld, Peter, 91h:65022

- Seidel, Hans-Peter Computing B -spline control points. 91d:65027
- Shabozov, M. Sh. Lacunary interpolation by cubic splines. (Russian. Tajiki summary) 91d:65028
- Shadrin, A. Yu. On the error of the approximation of functions by smoothing splines. (Russian) 91d:65029
- Shi, Xi Quan² An interpolation method for multivariate spline functions. (Chinese. English summary) 91f:65023
- Shumaeva, S. M. see Boglav, Yu. P.; et al., 91f:65019
- Sik, Frantisek see Hřebíček, Jiří; et al., 91e:65024
- Simpson, R. B. see D'Azevedo, E. F., 91a:65019
- Smith, P. W. On knots and nodes for spline interpolation. 91f:65024
- Stöckler, Joachim On minimum norm interpolation by multivariate Bernoulli splines. (see 91j:41002)
- Stolyarenko, D. A. see Grebennikov, A. I., (91k:65006)
- Tabka, J. see Florot, Jean-Charles, 91j:65021
- Tang, Jun see Dai, Yin Sheng; et al., (Not in MR)
- Tao, Fu Zhou (with Li, Xu Wei) A class of generalized fourth-order interpolation splines. (Chinese. English summary) 91f:65028
- Terikbora, N. I. Cubic smoothing splines. (Russian. English summary) (Not in MR) — see also Kalitkin, N. N., 91h:65014
- Thakur, Lakshman S. A direct algorithm for optimal quadratic splines. 91f:65025
- Traas, C. R. Practice of bivariate quadratic simplicial splines. 91f:65029
- Tripathi, H. C. On interpolation by deficient quintic splines. 91a:65028
- Tytgat, Bart see Dierckx, Paul, 91a:65021
- Usmani, Riaz A. see Sakai, Manabu, 91k:65037
- Van Damme, Rudi Multi-grid and $b(x)$ -splines. (see 91k:65005)
- Vesely, Vítězslav see Hřebíček, Jiří; et al., 91e:65024
- Volkov, Yu. S. Convergence of interpolation splines in terms of a local difference characteristic. (Russian) 91k:65038
- Wang, Jian Zhong² (with Chen, Yuan) A remark on minimal supports for bivariate splines. (see 91j:41002)
- Wang, Ren Hong (with He, Tian Xiao; Liu, Xiao Yan; Wang, Shou Cheng) An integral method for constructing bivariate spline functions. 91h:65027
- (with Lu, Xu Guang) On dimensions of spaces of bivariate splines with triangulations. 91j:65024
- Wang, Shou Cheng see Wang, Ren Hong; et al., 91h:65027
- Wong, Patricia J. Y. (with Agarwal, Ravi Prakash) Explicit error estimates for quintic and biquintic spline interpolation. 91c:65012
- Xie, Zhi Yun Nonlinear programming algorithms for the best interpolation knots of a spline. 91k:65028
- Xu, Guo Liang see Li, Jia Kai, 91a:65027
- Yang, Ming Sheng see Dai, Yin Sheng; et al., (Not in MR)
- Yatsenko, S. A. Rational B -splines. (Russian) (Not in MR) — see also Krasov, B. I., (91j:41002)
- Ye, Zheng Lin Monotone approximation and analysis of inflexion and singular points of 4- n B -spline curves. (Chinese. English summary) 91g:65027
- Zhang, Zao Shun A further discussion on dual bases of bivariate box splines. 91a:65029
- Zheldner, V. A. Estimates for approximation remainder terms for cubic quasi-interpolation splines. (Russian) 91k:65039

Items with secondary classifications in 65D07

- Anderson, Stewart J. (with Jones, Richard H.; Swanson, George D.) Smoothing polynomial splines for bivariate data. 91f:65031
- Attea, M. (with Benbrouhim, M. N.) Spline elastic manifolds. 91f:65127
- Ben-Artzi, Asher (with Ron, Amos) On the integer translates of a compactly supported function: dual bases and linear projectors. 91j:41009
- Benbrouhim, M. N. see Attea, M., 91f:65127
- Bezhaev, A. Yu. ★ Вспомогательные отображения и векторные сплайн-функции. (Russian) [Generating mappings and vector spline functions] 91e:65077
- (with Rozhenko, A. I.) ★ Вариационные сплайны в тензорных произведениях пространств. (Russian) [Variational splines in tensor products of spaces] 91k:65092
- Blaga, Petru Reducing of variance by spline functions in Monte Carlo integration. (Romanian summary) 91g:65013
- de Boor, Carl A local basis for certain smooth bivariate pp spaces. 91c:41023
- Quasiinterpolants and approximation power of multivariate splines. 91f:41009
- Boyanov, Borislav D. Optimal reconstruction of differentiable functions. 91c:41066
- Casciola, G. B -splines via recurrence relations. 91a:41020
- Dierckx, Paul (with Tytgat, Bart) Inserting new knots into beta-spline curves. 91e:65029
- Elschner, Johannes On spline approximation for a class of integral equations. II. Galerkin's method with smooth splines. 91g:65301
- On spline approximation for a class of noncompact integral equations. 91m:65326
- Farin, Gerald (with Hansford, Dianne; Worsey, A. J.) The singular cases for γ -spline interpolation. 91j:41010
- Fawzy, Tharwat (with Soliman, Samia) A spline approximation method for the initial value problem $y^{(n)} = f(x, y, y')$. 91m:65191
- Frontini, Marco (with Milovanovic, Gradimir V.) Moment-preserving spline approximation on finite intervals and Turán quadratures. (Serbo-Croatian summary) 91a:41021
- Goldman, R. N. Recursive triangles. 91h:65031
- Gori Nicolò-Amati, Laura (with Santi, Elisabetta) A monospline associated with quasi-Gaussian functionals: some properties. (Italian. English summary) 91j:65050
- Györfi, János Die Lösung der Anfangsprobleme der gewöhnlichen Differentialgleichungen mit Hilfe der modifizierten lakunären Spline-Funktionen. [The solution of the initial value problems of ordinary differential equations with the aid of modified lacunary spline functions] 91f:65132
- Hansford, Dianne see Farin, Gerald; et al., 91j:41010
- Höllig, Klaus (with Marsden, Martin; Riemenschneider, Sherman D.) Bivariate cardinal interpolation on the 3-direction mesh: P -data. 91f:65018
- Hoeckel, Josef Exact and approximate conversion of spline curves and spline surfaces. 91g:65038

- Jetter, Kurt (with Koch, Peter) Methoden der Fourier-Transformation bei der kardinalen Interpolation periodischer Daten. [Methods of Fourier transformation in the cardinal interpolation of periodic data] 91d:65220
- The Bernoulli spline and approximation by trigonometric blending polynomials. 91a:41009
- Johnson, Diane L. On polynomial monosplines with fixed point evaluations. 91c:41027
- Jones, Richard H. see Anderson, Stewart J.; et al., 91f:65031
- Koch, Peter see Jetter, Kurt, 91d:65220
- Kowalski, Jan Krzysztof Application of box splines to the approximation of Sobolev spaces. 91h:46033
- Lee, Seng Luan (with Tang, W. S.) Complex homogeneous splines on the torus. 91h:41015
- Li, Lao Lao Ratio-slope rational spline interpolation. (Chinese. English summary) 91h:41016
- Liu, Yun Kang Quadratic and cubic splines which satisfy a general boundary condition. (Chinese) 91j:41011
- Manni, Carla The dimension of bivariate spline spaces over special partitions. (see 91k:65005)
- Marsden, Martin see Höllig, Klaus; et al., 91f:65018
- Milovanovic, Gradimir V. see Frontini, Marco, 91a:41021
- Ma, Yu Jie Some properties of rational spatial cubic parametric curves. (Chinese. English summary) (Not in MR)
- Nürnberg, Günther (with Schumaker, Larry L.; Sommer, Manfred; Strauss, Hans) Uniform approximation by generalized splines with free knots. 91c:41029
- Pham, B. Algorithms for calculating cubic beta-splines. (Not in MR)
- Quak, Ewald (with Schumaker, Larry L.) Calculation of the energy of a piecewise polynomial surface. 91j:65035
- Rana, Surendra Singh Discrete quadratic splines. 91c:41031
- Riemenschneider, Sherman D. see Höllig, Klaus; et al., 91f:65018
- Ron, Amos see Ben-Artzi, Asher, 91j:41009
- Rozhenko, A. I. see Bezhaev, A. Yu., 91k:65092
- Sakai, Manabu (with Usmani, Riaz A.) On spline-on-spline numerical integration formula. 91g:41013
- see also Schmidt, Jochen W., 91c:41033
- Santi, Elisabetta see Gori Nicolò-Amati, Laura, 91j:65050
- Schmidt, Jochen W. (with Sakai, Manabu) A criterion for the positivity of rational cubic C^2 -spline interpolants. (German summary) 91c:41033
- Monotone data smoothing by quadratic splines via dualization. (German and Russian summaries) 91j:41012
- Schumaker, Larry L. see Nürnberg, Günther; et al., 91c:41029 and Quak, Ewald, 91j:65035
- Shi, Xi Quan² The error estimation of the cubic C^1 -interpolation finite element scheme in R^n . (Chinese. English summary) 91g:65250
- Shumilov, B. M. Hermitian interpolation of surfaces by implicitly given quadratic splines. (Russian) (Not in MR)
- Sivakumar, N. On bivariate cardinal interpolation by shifted splines on a three-direction mesh. 91c:41010
- Soliman, Samia see Fawzy, Tharwat, 91m:65191
- Sommer, Manfred see Nürnberg, Günther; et al., 91c:41029
- Strauss, Hans see Nürnberg, Günther; et al., 91c:41029
- Swanson, George D. see Anderson, Stewart J.; et al., 91f:65031
- Tang, W. S. see Lee, Seng Luan, 91h:41015
- Tytgat, Bart see Dierckx, Paul, 91e:65029
- Usmani, Riaz A. see Sakai, Manabu, 91j:41013
- Walz, Guido On the solution of Beltrami's equation by complex planar splines. 91e:41011
- Wang, Jian Zhong² Conjugate point-evaluation functionals on B -nets. 91d:65023
- Worsey, A. J. see Farin, Gerald; et al., 91j:41010
- Zar'yakov, Yu. S. Formulas for local approximation that are exact on cubic splines. (Russian) 91k:41023
- Zhang, Li Qing Asymptotic expansion and geometric properties of the spline collocation periodic solution of an ODE system. 91k:65127
- Zhang, Zao Shun A multivariate cardinal interpolation problem. (Chinese) 91c:41015
- Zhanlav, T. A three-point spline scheme of increased accuracy. (Russian) 91m:65213

65D10 Smoothing, curve fitting

- Abdelmalek, Nabih N. Piecewise linear least-squares approximation of planar curves. 91f:65030
- Anderson, Stewart J. (with Jones, Richard H.; Swanson, George D.) Smoothing polynomial splines for bivariate data. 91f:65031
- Anthony, G. T. (with Cox, M. G.) Near real-time spline fitting of long sequences of uniformly-spaced data. (see 91e:65003)
- Balaras, Constantinos (with Jeter, Sheldon M.) A surface fitting method for three-dimensional scattered data. 91h:65017
- Boehm, Wolfgang Some remarks on cyclides in solid modeling. 91h:65020
- de Boor, Carl Local corner cutting and the smoothness of the limiting curve. 91m:65029
- Cox, M. G. (with Harris, P. M.; Jones, H. M.) A knot placement strategy for least squares spline fitting based on the use of local polynomial approximations. (see 91e:65003)
- see also Anthony, G. T., (91e:65003)
- Cullinan, M. P. Data smoothing using nonnegative divided differences and l_2 approximation. 91f:65026
- Dahmen, Wolfgang Smooth piecewise quadric surfaces. 91a:65030
- Egger, A. G. Maximum likelihood and best approximations. 91h:65029
- Faroni, R. T. (with Neff, C. Andrew) On the numerical condition of Bernstein-Bézier subdivision processes. 91c:65013
- Fontanella, Ferruccio Shape preserving interpolation. 91f:65027
- Forbes, A. B. Least squares best fit geometric elements. (see 91e:65003)
- Fritsch, F. N. Monotone piecewise cubic data fitting. (see 91e:65003)
- Goodman, T. N. T. Shape preserving representations. 91a:65031
- Grosse, Eric LOESS: multivariate smoothing by moving least squares. (see 91j:41001)
- Gurwitz, Chaya Weighted median algorithms for L_1 approximation. 91d:65030
- Hahn, Jörg Filling polygonal holes with rectangular patches. 91a:65032

- Harris, P. M. *see* Cox, M. G.; et al., (91e:65003)
- Hildebrand, Wilbur Connecting the dots parametrically: an alternative to cubic splines. (Not in MR)
- Jeter, Sheldon M. *see* Balaras, Constantinos, 91b:65017
- Johnstone, John K. Working with ruled surfaces in solid modeling. 91a:65033
- Jones, H. M. *see* Cox, M. G.; et al., (91e:65003)
- Jones, Richard H. *see* Anderson, Stewart J.; et al., 91f:65031
- Kaufmann, Arnold Parallelization of the subdivision algorithm for intersection of Bézier curves on the FPS T20. 91a:65034
- Lee, David² Discontinuity detection and curve fitting. (see 91j:41002)
- Lelek, Vladimir (with Marek, Ivo) Data fitting under eigenvalue constraints. (see 91h:65032)
- Lipsitz, Zolt A stable method for fitting a C^∞ surface for randomly distributed data. 91a:65035
- Liu, Ke Xuan (with Meng, Ya Qin; Zhao, Xing Hua) A plane parametric cubic curve that contacts the second edge of its characteristic polygon. 91a:65036
- Liu, Qin Sheng A method of relaxation curve fitting in the magnetic field produced by the lung—an algorithm of the Powell symmetric Brodyen update for solving the nonlinear least-square problem. (Chinese. English summary) 91b:65018
- Ma, Yu Long (with Zheng, Jie Xiu; Zhou, Xin Hua) Treatment of experimental data by means of a mathematical model. (Chinese. English summary) 91b:65028
- Marek, Ivo *see* Lelek, Vladimir, (91h:65032)
- Meng, Ya Qin *see* Liu, Ke Xuan; et al., 91a:65036
- Min'ko, A. A. (with Petunin, Yu. I.) Convergence of the method of least squares in the uniform metric. 91g:65028
- Mulansky, Bernd Glättung mittels zweidimensionaler Tensorprodukt-Splinefunktionen. [Smoothing by means of two-dimensional tensor product spline functions] 91g:65029
- Neff, C. Andrew *see* Faroni, R. T., 91c:65013
- Petunin, Yu. I. *see* Min'ko, A. A., 91g:65028
- Potier, Christine (with Vercken, Christine) Spline curve fitting of digitized contours. (see 91e:65003)
- Pratt, M. J. Cyclide blending in solid modelling. 91b:65019
- Schmidt, Jochen W. (with Scholz, Isa) A dual algorithm for convex-concave data smoothing by cubic C^2 -splines. 91g:65030
- Scholz, Isa *see* Schmidt, Jochen W., 91g:65030
- Schumaker, Larry L. (with Utreras, Florencio I.) On generalized cross validation for tensor smoothing splines. 91f:65032
- Seitovski, Rudolf Condition of preponderant increase and Tchebycheff's inequality. (Slovenian summary) 91e:65026
- Swanson, George D. *see* Anderson, Stewart J.; et al., 91f:65031
- Utreras, Florencio I. *see* Schumaker, Larry L., 91f:65032
- Vercken, Christine *see* Potier, Christine, (91e:65003)
- Wu, Xia Yuan A numerical method for fitting the logistic curve. (Chinese. English summary) 91h:65021
- Zhang, Cai Ming An error in a method for constructing interpolation surfaces. (Chinese. English summary) 91d:65031
- Zhang, Ke Cun A new class of methods for data processing and its applications. (Chinese. English summary) 91f:65029
- Zhao, Xing Hua *see* Liu, Ke Xuan; et al., 91a:65036
- Zheng, Jie Xiu *see* Ma, Yu Long; et al., 91f:65028
- Zhou, Xin Hua *see* Ma, Yu Long; et al., 91f:65028
- Items with secondary classifications in 65D10**
- Allgower, Eugene L. (with Georg, Kurt) Estimates for piecewise linear approximations of implicitly defined manifolds. 91d:65070
- Bunch, K. J. (with Cain, W. N.; Grow, R. W.) A data fitting approach to series convergence acceleration. 91k:65015
- Cain, W. N. *see* Bunch, K. J.; et al., 91k:65015
- Della Vecchia, Biancamaria A new class of linear positive operators of Bernstein type. (Italian summary) 91c:41057
- Faroni, R. T. Numerical stability in geometric algorithms and representations. 91e:65030
- Georg, Kurt *see* Allgower, Eugene L., 91d:65070
- Girard, Didier A. A fast "Monte Carlo cross-validation" procedure for large least squares problems with noisy data. 91a:65005
- Grow, R. W. *see* Bunch, K. J.; et al., 91k:65015
- Hřeběček, Jiří (with Šik, František; Veselý, Vítězslav) Discrete smoothing splines and digital filtration. Theory and applications. (Russian and Czech summaries) 91e:65024
- Hu, Ri Zhang Smoothing approximation to scattered data in a rectangular domain with discrete boundary conditions. (Chinese. English summary) (Not in MR)
- Ramshaw, Lyle Blossoms are polar forms. 91d:65026
- Seidel, Hans-Peter (with Strasser, W.) Efficient algorithms for the acceleration of geometric modelling. 91c:65016
- Šik, František *see* Hřeběček, Jiří; et al., 91e:65024
- Strasser, W. *see* Seidel, Hans-Peter, 91c:65016
- Thomas-Agnan, Christine Smoothing periodic curves by a method of regularization. 91m:62074
- Turney, Peter The curve fitting problem: a solution. (Not in MR)
- Veselý, Vítězslav *see* Hřeběček, Jiří; et al., 91e:65024
- Wahba, Grace ★ Spline models for observational data. 91g:62028
- 65D15 Algorithms for functional approximation**
- Abouir, J. (with Cuyt, Annie A. M.) Error formulas for multivariate rational interpolation and Padé approximation. 91j:65025
- Alooes, François Un schéma numérique pour le calcul d'applications harmoniques de \mathbb{R}^3 dans la sphère. (English summary) [A numerical scheme for computing harmonic maps from \mathbb{R}^3 to S^2] 91g:65031
- Ammar, Gregory *see* Reichel, Lothar; et al., 91f:65027
- Bernardi, Christine (with Maday, Yvon) Relèvement polynomial de traces et applications. (English summary) [Polynomial lifting of traces, and applications] 91k:65040
- Berrut, J.-P. Barycentric formulae for some optimal rational approximants involving Blaschke products. (German summary) 91g:65032
- Bosworth, Ken W. A semiinfinite programming algorithm for constrained best approximation. (see 91e:65003)
- Bozzini, M. (with Lenarduzzi, L.) Inference region for a method of local approximation by using the residuals. (see 91e:65003)
- Brass, Helmut Optimal estimation rules for functions of high smoothness. 91g:65033
- Brezinski, Claude Duality in Padé-type approximation. 91j:65026
- Cabay, Stan *see* Labahn, George, 91b:65024
- Carnicer, Jesús M. (with Gasca, Mariano) On the evaluation of multivariate Lagrange formulae. 91c:65014
- Chiccoli, C. (with Lorenzutta, S.; Maino, G.) An algorithm for exponential integrals of real order. (German summary) 91e:65030
- Cortelazzo, G. (with De Simone, Caterina; Mian, Gian Antonio) An algorithm for simultaneous magnitude and phase approximation of bivariate rational polynomials. (Not in MR)
- Cuyt, Annie A. M. *see* Abouir, J., 91j:65025
- Demetrios, I. C. A characterization theorem for the discrete best monotonic approximation problem. 91h:65030
- De Simone, Caterina *see* Cortelazzo, G.; et al., (Not in MR)
- Dubuc, Serge (with Elqortobi, Abdelkader) Approximations of fractal sets. 91e:65027
- Dunham, Charles B. (with Zhu, Chang Zhong) Exact approximation of nodes. 91d:65032
- Elqortobi, Abdelkader *see* Dubuc, Serge, 91e:65027
- Freeden, Willi (with Mason, John C.) Uniform piecewise approximation on the sphere. (see 91e:65003)
- Frontini, Marco (with Rodriguez, G.; Seatzu, S.) An algorithm for computing minimum norm solutions of finite moment problem. 91b:65031
- Ganshin, G. S. Matrix methods for calculating the value of a polynomial of several variables. 91a:65037
- Gasca, Mariano *see* Carnicer, Jesús M., 91c:65014
- Gashkov, S. B. Parallel calculation of some classes of polynomials with an increasing number of variables. (Russian) (Not in MR)
- Gragg, W. B. *see* Reichel, Lothar; et al., 91f:65027
- Hu, Ri Zhang Smoothing approximation to scattered data in a rectangular domain with discrete boundary conditions. (Chinese. English summary) (Not in MR)
- Jones, Lee Kenneth (with Trutzel, V.) Corrigendum: "Computationally feasible high-resolution minimum-distance procedures which extend the maximum-entropy method" [Inverse Problems 5 (1989), no. 5, 749–766; MR 90m:65047]. (Not in MR)
- Jones, William B. (with Thron, W. J.) Continued fractions in numerical analysis [Appl. Numer. Math. 4 (1988), no. 2–4, 143–230; MR 90e:65021]. (see 91m:41002)
- Kansa, E. J. Multiquadrics—a scattered data approximation scheme with applications to computational fluid-dynamics. I. Surface approximations and partial derivative estimates. 91k:65022
- Multiquadrics—a scattered data approximation scheme with applications to computational fluid-dynamics. II. Solutions to parabolic, hyperbolic and elliptic partial differential equations. 91k:65023
- Kaufman, Edwin H., Jr. (with Taylor, G. D.) Linearly constrained generalized rational approximation. (see 91j:41002)
- Khitrov, G. M. Construction of polynomials with given Hurwitz determinants and a representation of the solution of a Lyapunov matrix equation. 91m:65030
- Khomova, G. V. Order-optimal methods for the reconstruction of functions. (Russian) (see 91k:65009)
- Kobayashi, Yasuhiro¹ *see* Ohkita, Masaaki, 91f:65035
- Kokorev, M. A. Construction of a stochastic algorithm, optimal for one step, for the approximation of a Lipschitz function. (Russian) 91m:65031
- Krasovskii, A. A. Approximation of functions of many arguments in systems of digital modelling. 91f:65033
- Fast linear interpolation of functions of several variables in digital simulation systems. 91m:65032
- Labahn, George (with Cabay, Stan) Matrix Padé fractions. 91b:65024
- Lasser, Dieter Bernstein-Bézier representation of solid models. 91a:65038
- Lenarduzzi, L. *see* Bozzini, M., (91e:65003)
- Li, Jiang Bo (with Ye, Mao Dong) Existence and discretization of optimal mixed-norm approximations. (Chinese. English summary) 91f:65034
- Litvin, O. N. Interlineation of functions of two variables on M ($M \geq 2$) lines with preservation of the class $C^r(\mathbb{R}^2)$. 91m:65033
- Lorenzutta, S. *see* Chiccoli, C.; et al., 91e:65030
- Maday, Yvon *see* Bernardi, Christine, 91k:65040
- Maino, G. *see* Chiccoli, C.; et al., 91e:65030
- Marinov, Pencho G. Approximate determination of the generalized polynomial of the best one-sided Hausdorff approximation. 91c:65015
- Mason, John C. *see* Freeden, Willi, (91e:65003)
- McInnes, Allan W. Quadratic function approximation determined by collocation. (see 91j:41002)
- Mian, Gian Antonio *see* Cortelazzo, G.; et al., (Not in MR)
- Min, Guo Hua Approximation of derivatives of functions by derivatives of Lagrange operators. (Chinese) (Not in MR)
- Mitra, Arunkumar Graphing implicit functions $f(x, y) = 0$. 91b:65032
- Ohkita, Masaaki (with Kobayashi, Yasuhiro¹) Piecewise-linear approximation of solution of linear differential equations by Walsh functions. 91f:65035
- Reemtsen, Rembert Modifications of the first Remez algorithm. 91a:65039
- Reichel, Lothar (with Ammar, Gregory; Gragg, W. B.) Discrete least squares approximation by trigonometric polynomials. 91j:65027
- Rodriguez, G. *see* Frontini, Marco; et al., 91b:65031
- Seatzu, S. *see* Frontini, Marco; et al., 91b:65031
- Sederberg, Thomas W. (with Zhao, Junwu; Zundel, Alan K.) Approximate parametrization of algebraic curves. 91a:65040
- Sweetis, J. J. (with Weinstein, S. E.; Xu, Yuesheng) The computation of a best monotone L_p approximation for $1 \leq p < \infty$. 91m:65034
- Tang, Ping Tak Peter A fast algorithm for linear complex Chebyshev approximation.

- 91m:65035
 Taylor, G. D. *see* Kaufman, Edwin H., Jr., (91j:41002)
 Thiran, J.-P. *see* Thiry, S., (91j:41002)
 Thiry, S. (with Thiran, J.-P.) On the choice of the starting point in a generalized exchange algorithm for the strict Chebyshev approximation. (see 91j:41002)
 Thron, W. J. *see* Jones, William B., (91m:41002)
 Trutzer, V. *see* Jones, Lee Kenneth, (Not in MR)
 Watson, G. Alistair Numerical methods for Chebyshev approximation of complex-valued functions. (see 91e:65003)
 — Chebyshev approximation to data by positive sums of exponentials. 91i:65033
 Weinstein, S. E. *see* Swetits, J. J.; et al., 91m:65034
 Xu, Yuesheng *see* Swetits, J. J.; et al., 91m:65034
 Ye, Mao Dong *see* Li, Jiang Bo, 91f:65034
 Yakovlev, V. I. Algorithm for calculating functions in method of successive approximations. 91i:65034
 Zeng, Huan Liang A convergence theorem for functional continued fractions and its applications. (Chinese. English summary) 91g:65034
 Zhao, Junwu *see* Sederberg, Thomas W.; et al., 91a:65040
 Zhu, Chang Zhong Best uniform variolvent approximation. (Chinese. English summary) 91a:65041
 — *see also* Dunham, Charles B., 91d:65032
 Zundel, Alan K. *see* Sederberg, Thomas W.; et al., 91a:65040
- Items with secondary classifications in 65D15
 Al-Khayyal, Faiz A. (with Larsen, Christian) Global optimization of a quadratic function subject to a bounded mixed integer constraint set. 91h:90128
 Baker, George A., Jr. (with Graves-Morris, P. R.) Definition and uniqueness of integral approximants. 91m:41029
 Berdyshev, V. I. Approximation by the Lipschitz class and the best trajectories. 91g:41025
 Brass, Helmut Practical Fourier analysis—error bounds and complexity. (German and Russian summaries) 91m:65337
 Chung, Koon Ping Using plane vector fields to obtain all the intersection curves of two general surfaces. 91a:53005
 Chinosi, Claudia (with Comodi, Maria Isabella) Numerical approximation of the stationary points of a nondifferentiable functional. (Italian. English summary) 91h:65114
 Choi, U Jin *see* Kwak, Do Young; et al., 91m:65347
 Chui, Charles K. (with Diamond, Harvey) Approximation and interpolation formulas for real-time applications. 91f:65015
 Comodi, Maria Isabella *see* Chinosi, Claudia, 91h:65114
 Cui, Ming Gen *see* Wu, Bo Ying; et al., 91j:65088
 Cuyt, Annie A. M. (with Verdonk, Brigitte M.) A review of branched continued fraction theory for the construction of multivariate rational approximants [Appl. Numer. Math. 4 (1988), no. 2-4, 263-271; MR 89k:41018]. (see 91m:41002)
 Daras, Nicholas J. The convergence of Padé-type approximants to holomorphic functions of several complex variables. 91j:65005
 Daugavet, V. A. (with Yakovlev, P. V.) Mean-square approximation of a rectangular matrix by matrices of smaller rank. 91a:65121
 Diamond, Harvey *see* Chui, Charles K., 91f:65015
 Farouki, R. T. Numerical stability in geometric algorithms and representations. 91e:65030
 — (with Neff, C. Andrew) On the numerical condition of Bernstein-Bézier subdivision processes. 91c:65013
 Fiorot, Jean-Charles (with Jeannin, Pierre) Courbes splines rationnelles contrôlées par un polygone massique. (English summary) [Rational spline curves and controlling mass polygon] 91f:65022
 Giannozzi, Paolo (with Grosso, Giuseppe; Moroni, Saverio; Pastori Parravicini, Giuseppe) The ordinary and matrix continued fractions in the theoretical analysis of Hermitian and relaxation operators [Appl. Numer. Math. 4 (1988), no. 2-4, 273-295; MR 89g:81111]. (see 91m:41002)
 Graves-Morris, P. R. *see* Baker, George A., Jr., 91m:41029
 Grosso, Giuseppe *see* Giannozzi, Paolo; et al., (91m:41002)
 Gu, Yu Hua *see* Wu, Bo Ying; et al., 91j:65088
 Gutknecht, Martin H. *see* Hayashi, Eric; et al., 91e:41014
 Hayashi, Eric (with Trefethen, Lloyd N.; Gutknecht, Martin H.) The CF table. 91e:41014
 Heilmann, Margareta (with Müller, Manfred Wolfgang) Direct and converse results on simultaneous approximation by the method of Bernstein-Durrmeyer operators. 91h:41022
 Hettich, R. (with Zencke, P.) An algorithm for general restricted rational Chebyshev approximation. 91i:41012
 Jeannin, Pierre *see* Fiorot, Jean-Charles, 91f:65022
 Kenney, Charles (with Laub, Alan J.) Padé error estimates for the logarithm of a matrix. 91a:65102
 Kuchinskaya, Kh. I. Approximation of functions by two-dimensional continued fractions. (Russian) (see 91j:00017)
 Kwak, Do Young (with Choi, U Jin; Son, S.) Prime number grid scheme to approximate function spaces with their low-dimensional subspaces. 91m:65347
 Larsen, Christian *see* Al-Khayyal, Faiz A., 91h:90128
 Laub, Alan J. *see* Kenney, Charles, 91a:65102
 Lyashenko, N. N. Basis-free harmonic analysis and invariant approximations. (Russian) 91k:41042
 Moroni, Saverio *see* Giannozzi, Paolo; et al., (91m:41002)
 Morris, J. L. *see* Tourigny, Yves; et al., 91m:65251
 Müller, Manfred Wolfgang *see* Heilmann, Margareta, 91h:41022
 Neff, C. Andrew *see* Farouki, R. T., 91c:65013
 Ngongo, E. Mundari Approximations rationnelles type Padé d'un semi-groupe. (English summary) [Padé rational approximations of a semigroup] 91j:65100
 — Approximations rationnelles type Norsett d'un semi-groupe. (English summary) [Norsett rational approximations of a semigroup] 91j:65101
 Pastori Parravicini, Giuseppe *see* Giannozzi, Paolo; et al., (91m:41002)
 Paszkowski, Stefan Hermite-Padé approximation (basic notions and theorems). 91m:41033
 Popov, Vasil A. *see* Sender, Blagovest Kh., 91h:41013

- Pospelov, V. V. Approximation of a function of two variables by the sum of products of functions of one variable in Sobolev spaces. 91j:41027
 Prestin, Jürgen Mean convergence of Lagrange interpolation. 91h:41016
 Rusak, V. N. (with Ta Hong Quang) Asymptotics of parabolic elements of the Chebyshev rational table for analytic functions. (Russian. English summary) 91j:30027
 — Best rational approximations of convolution with Weyl kernel, and functions in L_p . (Russian. English summary) 91j:41022
 Sanz-Serna, J. M. *see* Tourigny, Yves; et al., 91m:65251
 Sender, Blagovest Kh. (with Popov, Vasil A.) ★ The averaged moduli of smoothness. 91h:41013
 — ★ Hausdorff approximations. 91m:41001
 Sethian, J. A. Numerical algorithms for propagating interfaces: Hamilton-Jacobi equations and conservation laws. 91d:65206
 Sher, A. P. The Walsh transform with an arbitrary order of transforms. (Russian) 91m:94006
 Son, S. *see* Kwak, Do Young; et al., 91m:65347
 Sonnevend, György Applications of the notion of analytic center in approximation (estimation) problems. 91h:65075
 Spigler, Renato (with Vianello, Marco) A numerical method for evaluating zeros of solutions of second-order linear differential equations. 91d:65125
 Suprunenko, S. N. Mean-square approximation with an even nonnegative polynomial. 91i:41007
 Ta Hong Quang *see* Rusak, V. N., 91j:30027
 Tourigny, Yves (with Sanz-Serna, J. M.; Morris, J. L.) Approximation of radial functions by piecewise polynomials on arbitrary grids. 91m:65251
 Trefethen, Lloyd N. *see* Hayashi, Eric; et al., 91e:41014
 Válová, A. Yu. Approximate calculation of implicitly given functions of one variable. (Russian) 91h:65080
 Verdonk, Brigitte M. *see* Cuyt, Annie A. M., (91m:41002)
 Vianello, Marco *see* Spigler, Renato, 91d:65125
 Watson, G. Alistair Chebyshev approximation by positive sums of exponentials. 91k:41050
 Wu, Bo Ying (with Gu, Yu Hua; Cui, Ming Gen) Using the Padé approximation to construct an iterative formula for finding roots of nonlinear equations. (Chinese. English summary) 91j:65088
 Yakovlev, P. V. *see* Daugavet, V. A., 91a:65121
 Zencke, P. *see* Hettich, R., 91i:41012

65D17 Computer aided design (modeling of curves and surfaces) [see also 68U05]

- Anderson, Roger K.-E. Curves as boundaries of surfaces with prescribed shape. (see 91j:41001)
 Barnhill, Robert E. Computer aided geometric design. 91k:65041
 — (with Watson, Stephen H.) Geometry processing: numerical surface and volume integration. (see 91j:41001)
 — (with Ou, H. S.) Surfaces defined on surfaces. 91g:65035
 Bartels, Richard H. High-order conditions for joining low-order patches with tangent continuity. (see 91j:41001)
 Beška, M. Convexity and variation diminishing property of multidimensional Bernstein polynomials. 91e:65028
 Beyer, G. Beschreibung von Schnittkurvenstücken zweier Flächen zweiter Ordnung durch Bézierelemente 4. Grades. [Description of pieces of two second-order surfaces by Bézier segments of 4th degree] (see 91k:65004)
 (Bézier, P.) *see* Farin, Gerald, 91i:65036
 Boehm, Wolfgang Algebraic and differential geometric methods in C.A.G.D. 91f:65036
 — On cyclides in geometric modeling. 91g:65036
 — *see also* Farin, Gerald, 91i:65036
 Boffey, T. B. (with Cox, M. G.; Delves, L. M.; Puraglove, C. J.) Approximation by spheres. (see 91e:65003)
 Bryant, Jack (with Krumvieda, Clifford) Surface approximation of discrete 3-D objects. (see 91j:41001)
 Canonne, Jean-Charles (with Fiorot, Jean-Charles; Jeannin, Pierre) Une condition nécessaire et suffisante de raccordement C^k de courbes rationnelles. (English summary) [A necessary and sufficient condition for C^k continuity between rational curves] 91m:65036
 Cao, Yuan (with Hua, Xuan Ji) The convexity of quadratic parametric triangular Bernstein-Bézier surfaces. 91m:65037
 Cline, A. K. (with Renka, R. J.) A constrained two-dimensional triangulation and the solution of closest node problems in the presence of barriers. 91i:65035
 Cox, M. G. *see* Boffey, T. B.; et al., (91e:65003)
 Dahlsen, Morten *see* Dokken, Tor; et al., 91j:65028
 Dahlberg, Björn E. J. Construction of surfaces with prescribed shape. (see 91j:41001)
 Dahmen, Wolfgang (with Micchelli, Charles A.) Stationary subdivision, fractals and wavelets. 91m:65038
 Davranov, Yu. A numerical algorithm that is based on the use of the theory of mean curvatures. (Russian) 91f:65037
 Degen, Wendelin L. F. Explicit continuity conditions for adjacent Bézier surface patches. 91m:65040
 Delves, L. M. *see* Boffey, T. B.; et al., (91e:65003)
 DeRose, Tony D. Necessary and sufficient conditions for tangent plane continuity of Bézier surfaces. 91m:65039
 Dierckx, Paul (with Tytgat, Bart) Inserting new knots into beta-spline curves. 91e:65029
 Dokken, Tor (with Dahlsen, Morten; Lyche, Tom; Mørken, Knut M.) Good approximation of circles by curvature-continuous Bézier curves. 91j:65028
 Drs, L. Typen der Dreieckflächen. [Types of triangle surfaces] (see 91k:65004)
 Dunnington, D. R. (with Saia, A.; de Pennington, A.; Smith, G. L.) Constructive solid geometry with sculptured primitives using inner and outer sets. 91j:65029
 Dyn, Nira (with Levin, David; Gregory, John A.) Uniform subdivision algorithms for curves and surfaces. 91m:65041

- Drisk, Gerhard An algorithm for evolutionary surfaces. 91k:65042
- Farin, Gerald ★ Curves and surfaces for computer aided geometric design. 91i:65036
— Surfaces over Dirichlet tessellations. 91g:65037
— see also Worsey, A. J., 91g:65043
- Faronki, R. T. Numerical stability in geometric algorithms and representations. 91e:65030
— On the stability of transformations between power and Bernstein polynomial forms. 91m:65042
- Fiorot, Jean-Charles see Canonne, Jean-Charles; et al., 91m:65036
- Fu, Qing Xiang The intersection of a bicubic Bézier patch and a plane. 91m:65043
- Gâncă, Ioan A generalization of Bézier surfaces. (Romanian summary) (Not in MR)
- Garrity, Thomas (with Warren, Joe) Geometric continuity. 91k:65043
- Geise, G. Verbinden von Kurvenelementen. [Connection of curve elements] (see 91k:65004)
- (with Langbecker, U.) Finite quadric segments with four conic boundary curves. 91m:65044
- Goldman, R. N. Recursive triangles. 91k:65031
- Goodman, T. N. T. Constructing piecewise rational curves with Frenet frame continuity. 91k:65044
- Gregory, John A. Geometric continuity. 91k:65033
— (with Lau, Vincent K. H.; Zhou, Jian Wei¹) Smooth parametric surfaces and n -sided patches. 91f:65038
— see also Dyn, Nir; et al., 91m:65041
- Guo, Zi Hai see Wang, Wei², (Not in MR)
- Handscum, David Recovery of 2D and 3D incompressible fluid flows from velocity and flux data. (see 91j:41001)
- Hoffmann, Christoph M. Algebraic and numerical techniques for offsets and blends. 91f:65039
— A dimensionality paradigm for surface interrogations. 91j:65030
— (with Vermeer, Pamela J.) Eliminating extraneous solutions in curve and surface operations. 91m:65045
- Hoschek, Josef (with Lasser, Dieter) ★ Grundlagen der geometrischen Datenverarbeitung. (German) [Foundations of geometric data processing] 91m:65046
— Exact and approximate conversion of spline curves and spline surfaces. 91g:65038
— (with Schneider, Franz-Josef) Spline approximation of offset curves and offset surfaces. 91j:65031
- Hua, Xuan Ji see Cao, Yuan, 91m:65037
- Jeannin, Pierre see Canonne, Jean-Charles; et al., 91m:65036
- Joshi, V. N. see Sanglikar, M. A.; et al., 91f:65042
- Kallay, Michael (with Ravani, Bahram) Optimal twist vectors as a tool for interpolating a network of curves with a minimum energy surface. 91j:65032
- Karl, W. C. (with Verghese, G. C.) Curvatures of surfaces and their shadows. 91f:65037
- Knaup, Patrick M. The direct variational grid generation method extended to curves. (Not in MR)
- Koenderink, Jan J. ★ Solid shape. 91f:65040
- Koparkar, Pramod see Sanglikar, M. A.; et al., 91f:65042
- Krumvieda, Clifford see Bryant, Jack, (91j:41001)
- Langbecker, U. see Geise, G., 91m:65044
- Lasser, Dieter Visually continuous quartics and quintics. (German summary) 91j:65033
— see also Hoschek, Josef, 91m:65046
- Lau, Vincent K. H. see Gregory, John A.; et al., 91f:65038
- Levin, David see Dyn, Nir; et al., 91m:65041
- Liu, Ding Yuan G^1 continuity conditions between two adjacent rational Bézier surface patches. 91m:65047
- Liu, Xiao Chun A sufficient condition for convexity of parametric Bézier surfaces on triangular domains. (Chinese) (Not in MR)
- Liu, Xiong Wei (with Yuan, Zhe Jun) A new algorithm for computing the curve of free intersection surfaces in a CAD/CAM system. 91k:65032
- Lukács, Gábor The generalized inverse matrix and the surface-surface intersection problem. 91f:65041
- Lyche, Tom see Dokken, Tor; et al., 91j:65028
- Ma, Li Zhuang Region interpolation. (Chinese. English summary) 91i:65038
- le Méhauté, A. A finite element approach to surface reconstruction. 91g:65039
- Michelli, Charles A. see Dahmen, Wolfgang, 91m:65038
- Mörken, Kurt M. Products of splines as linear combinations of B -splines. (see 91j:41002)
— see also Dokken, Tor; et al., 91j:65028
- Mu, Yu Jie Some properties of rational spatial cubic parametric curves. (Chinese. English summary) (Not in MR)
- Müllenheim, Gregor Convergence of a surface/surface intersection algorithm. 91k:65045
- Nasri, Ahmad H. Surface interpolation on irregular networks with normal conditions. 91m:65048
- On, H. S. see Barnhill, Robert E., 91g:65035
- de Pennington, A. see Dunnington, D. R.; et al., 91j:65029
- Peters, Jörg Local cubic and bicubic C^1 surface interpolation with linearly varying boundary normal. 91k:65046
- Potter, Christine (with Vercken, Christine) Spline fitting and characterization of digitized curves. (see 91j:41002)
- Pratt, M. J. Cyclides in computer aided geometric design. 91g:65040
- Franszsch, Hartmut Linear subdivision. 91j:65034
- Purslove, C. J. see Boffey, T. B.; et al., (91e:65003)
- Quak, Ewald (with Schumaker, Larry L.) C^1 surface fitting using data dependent triangulations. (see 91j:41002)
— (with Schumaker, Larry L.) Calculation of the energy of a piecewise polynomial surface. 91j:65035
- Rando, Thomas (with Roulier, John) Fair curves and surfaces. (see 91j:41002)
- Ravani, Bahram see Kallay, Michael, 91f:65032
- Renka, R. J. see Cline, A. K., 91f:65035
- Roulier, John see Rando, Thomas, (91j:41002)
- Sala, A. see Dunnington, D. R.; et al., 91j:65029
- Sanglikar, M. A. (with Koparkar, Pramod; Joshi, V. N.) Modelling rolling ball blends for computer aided geometric design. 91f:65042
- Schneider, Franz-Josef see Hoschek, Josef, 91j:65031
- Schulze, Guido Segmentation operators on Coons' patches. 91g:65041
- Schumaker, Larry L. Reconstructing 3D objects from cross-sections. 91m:65049
— see also Quak, Ewald, 91j:65035 and 91j:41002
- Seidel, Hans-Peter (with Strasser, W.) Efficient algorithms for the acceleration of geometric modelling. 91c:65016
— Symmetric triangular algorithms for curves. 91j:65036
- Séquin, Carlo H. see Shirman, Leon A., 91g:65042
- Shirman, Leon A. (with Séquin, Carlo H.) Local surface interpolation with shape parameters between adjoining Gregory patches. 91k:65042
- Shumilov, B. M. Hermitian interpolation of surfaces by implicitly given quadratic splines. (Russian) (Not in MR)
- Smith, G. L. see Dunnington, D. R.; et al., 91j:65029
- Stöwer-Grote, Ralf Isometrische kubische Bézierkurvenssegmente. (English summary) [Isometric cubic Bézier curve segments] 91k:65033
- Strasser, W. see Seidel, Hans-Peter, 91c:65016
- Tian, Jie Smooth joining of rational Bézier surfaces. (Chinese. English summary) 91i:65039
- Tytgat, Bart see Dierckx, Paul, 91e:65029
- Várady, Tamás Overlap patches: a new scheme for interpolating curve networks with n -sided regions. 91m:65050
- Vercken, Christine see Potter, Christine, (91j:41002)
- Verghese, G. C. see Karl, W. C., 91f:65037
- Vermeer, Pamela J. see Hoffmann, Christoph M., 91m:65045
- Walter, Rolf Visibility of surfaces via differential geometry. 91k:65047
- Wang, Tian Jun Spline transfinite interpolation surface with control-points. 91k:65048
- Wang, Wei² (with Guo, Zi Hai) A method for designing irregular smooth curved surfaces using topological transformations. (Chinese. English summary) (Not in MR)
- Warren, Joe Several notions of geometric continuity for implicit plane curves. 91m:65051
— see also Garrity, Thomas, 91k:65043
- Watson, Stephen H. see Barnhill, Robert E., (91j:41001)
- Woodward, Charles Methods for computer-aided design of free-form objects. (Not in MR)
- Worsey, A. J. (with Farin, Gerald) Contouring a bivariate quadratic polynomial over a triangle. 91g:65043
- Xu, Wei The convexity of Bernstein-Bézier polynomial patches over a rectangle. (Chinese. English summary) 91i:65040
— Rational Bézier operator schemes. (Chinese. English summary) 91j:65037
- Xu, Zhi Ming Discrete interpolation surface. 91j:65038
- Yang, Hai Yu see Ye, Bing Jun, 91d:65034
- Ye, Bing Jun (with Yang, Hai Yu) A method for representing free-form surfaces. 91d:65034
- Ying, Pei Rong Plotting of the projection curves on the three coordinate planes of the space curve $f(x, y, z) = 0$, $h(x, y) = 0$. (Chinese. English summary) 91f:65043
- Yuan, Zhe Jun see Liu, Xiong Wei, 91h:65032
- Zhou, Chang Zheng On the convexity of parametric Bézier triangular surfaces. 91i:65041
- Zhou, Jian Wei¹ see Gregory, John A.; et al., 91f:65038
- Items with secondary classifications in 65D17
- Auerbach, S. (with Gmelig Meyling, R. H. J.; Neamtu, Marian; Schaeben, H.) Approximation and geometric modeling with simplex B -splines associated with irregular triangles. 91k:65033
- Bajaj, Chanderjit L. Geometric modelling with algebraic surfaces. 91d:65019
- Balaras, Constantinos (with Jeter, Sheldon M.) A surface fitting method for three-dimensional scattered data. 91i:65017
- (Barnhill, Robert E.) see Curves and surfaces in CAGD '89, 91e:65006
- Barry, Phillip J. de Boor-Fix functionals and polar forms. 91k:65034
- (Boehm, Wolfgang) see Curves and surfaces in CAGD '89, 91e:65006
- de Boor, Carl Local corner cutting and the smoothness of the limiting curve. 91m:65029
- Castelo, A. (with De Freitas, S.; Tavares dos Santos, Geovan) PL approximation to manifolds and its application to implicit ODEs. 91k:65082
- Chenit, Patrick (with Cosnard, Michel Yves; Robert, François; Gardan, Yvon; Robert, Yves; Witomski, Patrick; de Faget de Costelja, Paul) ★ МАТЕМАТИКА И КАПИ. I. (Russian) [Mathematics and CAD. I] 91e:65001
- (Chigir', S. D.) see Chenit, Patrick; et al., 91e:65001
- Cosnard, Michel Yves see Chenit, Patrick; et al., 91e:65001
- Costantini, Paolo (with Fontanella, Ferruccio) Shape-preserving bivariate interpolation. 91f:65016
- (Dahmen, Wolfgang) see Computation of curves and surfaces, 91e:65004 and Contributions to the computation of curves and surfaces, 91k:65005
- De Freitas, S. see Castelo, A.; et al., 91k:65082
- Dubuc, Serge (with Elqortobi, Abdelkader) Approximations of fractal sets. 91e:65027
- Elqortobi, Abdelkader see Dubuc, Serge, 91e:65027
- de Faget de Costelja, Paul see Chenit, Patrick; et al., 91e:65001
- Fiorot, Jean-Charles (with Tabka, J.) Shape-preserving C^2 cubic polynomial interpolating splines. 91f:65021
- Fontanella, Ferruccio Shape preserving interpolation. 91k:65027
— see also Costantini, Paolo, 91f:65016
- Forbes, A. B. Least squares best fit geometric elements. (see 91e:65003)
- Gardan, Yvon see Chenit, Patrick; et al., 91e:65001
- (Gasca, Mariano) see Computation of curves and surfaces, 91e:65004 and Contributions to the computation of curves and surfaces, 91k:65005
- Gmelig Meyling, R. H. J. (with Pfluger, P. R.) Smooth interpolation to scattered data by bivariate piecewise polynomials of odd degree. 91j:65022
— see also Auerbach, S.; et al., 91k:65033
- Gregory, John A. (with Sarfraz, Muhammad) A rational cubic spline with tension. 91m:65025
- (Hoschek, Josef) see Curves and surfaces in CAGD '89, 91e:65006
- Jeter, Sheldon M. see Balaras, Constantinos, 91i:65017
- Lee, David² Discontinuity detection and curve fitting. (see 91j:41002)
- Liang, You Dong see Li, Wei, 91i:65021

- LA, Wei (with Liang, You Dong) Discrete constructions and the problem of the shape-preserving property of rational B -spline curves. (Chinese. English summary) 91b:65021
- Lyche, Tom Discrete B -splines and conversion problems. 91f:65026
- (Mitchell, Charles A.) *see* Computation of curves and surfaces, 91e:65004 and Contributions to the computation of curves and surfaces, 91k:65005
- Nadler, Edmond Hermite interpolation by C^1 bivariate splines. 91m:65027
- Neamtu, Marian *see* Auerbach, S.; et al., 91k:65033
- Neff, C. Andrew Finding the distance between two circles in three-dimensional space. 91i:51030
- Pfluger, P. R. *see* Gmelig Meyling, R. H. J., 91j:65022
- Pottinger, David Data visualisation techniques for nonlinear systems. (see 91i:58094)
- Ramshaw, Lyle Blossoms are polar forms. 91d:65026
- Robert, François *see* Chenin, Patrick; et al., 91e:65001
- Robert, Yves *see* Chenin, Patrick; et al., 91e:65001
- Sarfaraz, Muhammad *see* Gregory, John A., 91m:65025
- Schaefer, H. *see* Auerbach, S.; et al., 91k:65033
- Tabka, J. *see* Florot, Jean-Charles, 91j:65021
- Tavares dos Santos, Geovan *see* Castelo, A.; et al., 91h:65082
- (Volkov, N. G.) *see* Chenin, Patrick; et al., 91e:65001
- Wang, C. Y. Computational geometry in China: a survey. 91d:65021
- Witowski, Patrick *see* Chenin, Patrick; et al., 91e:65001
- Zhang, Cai Ming An error in a method for constructing interpolation surfaces. (Chinese. English summary) 91d:65031

Items listed otherwise than by author

- Computation of curves and surfaces ★ Computation of curves and surfaces. 91e:65004
- Contributions to the computation of curves and surfaces ★ Contributions to the computation of curves and surfaces. 91k:65005
- Curves and surfaces in CAGD '89 ★ Curves and surfaces in CAGD '89. 91e:65006
- NATO Advanced Study Institute:
 — Computation of Curves and Surfaces ★ Computation of curves and surfaces. 91e:65004
 — ★ Contributions to the computation of curves and surfaces. 91k:65005
- Oberwolfach ★ Curves and surfaces in CAGD '89. 91e:65006
- Puerto de la Cruz ★ Computation of curves and surfaces. 91e:65004
- ★ Contributions to the computation of curves and surfaces. 91k:65005
- Symposium:
 Surfaces in Computer Aided Geometric Design ★ Curves and surfaces in CAGD '89. 91e:65006

65D20 Computation of special functions, construction of tables

- Alekseev, D. A. Application and realization of the A -method on an example of Bessel functions. (Russian. English summary) 91d:65035
- Alpert, Bradley K. (with Rokhlin, Vladimir V.) A fast algorithm for the evaluation of Legendre expansions. 91h:65042
- Burnett, Michael P. Summing $P_n(\cos \theta)/p(n)$ for certain polynomials $p(n)$. (Not in MR)
- Carr, Peter W. *see* Wade, James L., (Not in MR)
- Chiccoli, C. (with Lorenzutta, S.; Maino, G.) Recent results for generalized exponential integrals. 91a:65042
- Čížek, Jiří Karel *see* Weniger, Ernst Joachim, 91j:65040
- Cody, W. J. Performance evaluation of programs related to the real gamma function. 91m:65052
- (with Stoltz, L.) The use of Taylor series to test accuracy of function programs. 91m:65053
- Cooper, S. Clement (with Jones, William B.; Thron, W. J.) Orthogonal Laurent-polynomials and continued fractions associated with log-normal distributions. 91k:65049
- Coquereaux, R. (with Grossmann, A.; Lautrup, B. E.) Iterative method for calculation of the Weierstrass elliptic function. 91a:65043
- Dubuc, Serge An approximation of the gamma function. 91e:65031
- Dvorak, Steven L. (with Kuester, Edward F.) Numerical computation of the incomplete Lipschitz-Hankel integral $J_0(a, z)$. 91e:65032
- Ebina, Tsuyoshi (with Ishii, Rokuya) Calculation algorithms of primary functions on a digital signal processor. (Not in MR)
- Elhay, Sylvan (with Golub, Gene H.; Kautsky, Jaroslav) Updating and downdating of orthogonal polynomials with data fitting applications. 91m:65054
- Gautschi, Walter Computational aspects of orthogonal polynomials. 91m:65055
- Golub, Gene H. *see* Elhay, Sylvan; et al., 91m:65054
- Grossmann, A. *see* Coquereaux, R.; et al., 91a:65043
- Ishii, Rokuya *see* Ebina, Tsuyoshi, (Not in MR)
- Jones, William B. *see* Cooper, S. Clement; et al., 91k:65049
- Kautsky, Jaroslav *see* Elhay, Sylvan; et al., 91m:65054
- Kheifits, A. I. Explicit formulas for the roots of the equation $\sqrt{a^2 - z^2} \operatorname{tg} z = bz$. (Russian) 91a:65044
- Krämer, Walter Stephan Berechnung der Gammafunktion $\Gamma(x)$ für reelle Punkt- und Intervallargumente. [Computation of the gamma function $\Gamma(x)$ for real point and interval arguments] 91h:65034
- Kuester, Edward F. *see* Dvorak, Steven L., 91e:65032
- Lautrup, B. E. *see* Coquereaux, R.; et al., 91a:65043
- Lezhnev, V. G. Calculation of certain integrals of Bessel functions. (Russian) (see 91h:65008)
- Li, Lei Parallel complexity of polynomial computation on MIMD. (Chinese. English summary) 91j:65039
- Lorenzutta, S. *see* Chiccoli, C.; et al., 91a:65042
- Lynch, Robert E. (with Mavromatis, Harry A.) N -dimensional harmonic oscillator yields monotonic series for the mathematical constant π . 91g:65044
- Lyskova, A. S. Practical use of Chebyshev polynomials of a discrete variable for approximating some table functions. (Russian) (Not in MR)
- Maino, G. *see* Chiccoli, C.; et al., 91a:65042
- Maličká, Marianna *see* Maličský, Peter, 91m:65056

- Maličský, Peter (with Maličká, Marianna) On the computation of Aden functions. (Slovak summary) 91m:65056
- Márlas, V. A. Numerical computation of some Bessel functions of the second kind and their derivatives. (Romanian. French summary) (Not in MR)
- Mavromatis, Harry A. *see* Lynch, Robert E., 91g:65044
- Min'ko, A. A. Limit relations between Chebyshev polynomials of a discrete argument and Legendre polynomials. (Russian) 91a:65045
- Prevost, Marc Determinantal expression for partial Padé approximants. 91d:65036
- Approximation of weight function and approached Padé approximants. 91k:65050
- Rokhlin, Vladimir V. *see* Alpert, Bradley K., 91h:65042
- Song, Bao Rui The block structure of multivariate Padé tables. (Chinese. English summary) 91d:65037
- Stoltz, L. *see* Cody, W. J., 91m:65053
- Tezer, M. On the numerical evaluation of an oscillating infinite series. 91b:65025
- Thron, W. J. *see* Cooper, S. Clement; et al., 91k:65049
- Todd, John The Weierstrass mean. I. The periods of $p(z; e_1, e_2, e_3)$. 91m:65057
- Wandeland, Haakon Computation of continued fractions by square-root modification: reflections and examples [Appl. Numer. Math. 4 (1988), no. 2-4, 361-375; MR 89g:65017]. (see 91m:41002)
- Wade, James L. (with Carr, Peter W.) Efficient and precise computation of Bessel function integrals. (Not in MR)
- Weniger, Ernst Joachim (with Čížek, Jiří Karel) Rational approximations to the modified Bessel function of the second kind. 91j:65040
- Xiong, Gui Jing Mathematical foundations of a computational method for the complex function $\operatorname{arccot} Z$. (Chinese) 91h:65035
- Zheng, De Chuan Combined splines of exponential functions and trigonometric functions. (Chinese. English summary) 91a:65046

Items with secondary classifications in 65D20

- Balakrishnan, Narayanaswamy *see* Parthasarathy, P. R., (Not in MR)
- Bauer, Friedrich Ludwig Eine Bemerkung zu Koechers Reihen für die Eulersche Konstante. [A remark on Koecher's series for Euler's constant] 91k:11117
- Carlson, B. C. Landen transformations of integrals. 91m:33026
- Cuyt, Annie A. M. Old and new multidimensional convergence accelerators. 91d:65007
- D'Eliseo, Maurizio M. On the computation of the Laplace coefficients. 91c:70027
- Kerimov, M. K. Calculating the Rayleigh function. (Russian) 91m:33002
- Kida, Sôsaburô Padé-type and Padé approximants in several variables. 91m:41031
- Relation between Padé-type approximation and polynomial interpolation in several variables. 91m:41032
- Koecher, Max Einige Bemerkungen zur Eulerschen Konstanten. [Some remarks on Euler's constant] 91k:11118
- Lenze, Burkhard (with Locher, F.) Jacobi moments and a family of special orthogonal polynomials. 91c:33014
- Levrie, Paul On the relationship between generalised continued fractions and G -continued fractions. 91k:40003
- Locher, F. *see* Lenze, Burkhard, 91c:33014
- Markstein, P. W. Computation of elementary functions on the IBM RISC System/6000 processor. (Not in MR)
- Parthasarathy, P. R. (with Balakrishnan, Narayanaswamy) A continued fraction approximation of the modified Bessel function $I_1(t)$. (Not in MR)
- Poppe, G. P. M. (with Wijers, C. M. J.) More efficient computation of the complex error function. 91h:65068a
- de Toit, Cornelius F. The numerical computation of Bessel functions of the first and second kind for integer orders and complex arguments. 91c:33004
- Wijers, C. M. J. *see* Poppe, G. P. M., 91h:65068a
- Wimp, Jet Fields of formal Laurent series and applications to some problems in numerical analysis. 91h:65018
- Zidarov, D. P. Computable object functions and models used in inverse potential field problems. 91m:65316

65D25 Numerical differentiation

- Chirkalov, V. A. Calculation of a differentiating matrix for equidistant nodes using Aitken's scheme. (Russian) 91a:65047
- De Meyer, H. (with Vanden Bergh, G.; Vanthournout, J.) Modified backward differentiation methods of the Adams-type based on exponential interpolation. 91m:65058
- *see also* Vanthournout, J.; et al., 91i:65043
- Egorov, Yuri Vladimirovich (with Kondrat'ev, V. A.) On a problem of numerical differentiation. 91a:65048
- Feuillebois, F. Precise calculation of numerical derivatives using Lagrange and Hermite interpolation. 91a:65049
- Griewank, Andreas Automatic evaluation of first and higher-derivative vectors. (see 91m:58001)
- Guo, Lijia *see* Murio, D. A., 91e:65033 and (Not in MR)
- Ji, Zhong Shu (with Mo, Yu Long) A comparison of the properties of some regularization methods. (Chinese. English summary) 91j:65041
- Kolpakova, E. V. Numerical differentiation of a function. (Russian) (see 91j:00017)
- Kondrat'ev, V. A. *see* Egorov, Yuri Vladimirovich, 91a:65048
- Mo, Yu Long *see* Ji, Zhong Shu, 91j:65041
- Murio, D. A. (with Guo, Lijia) Discrete stability analysis of the mollification method for numerical differentiation. 91e:65033
- (with Guo, Lijia) Errata to: "Discrete stability analysis of the mollification method for numerical differentiation" [Comput. Math. Appl. 19 (1990), no. 6, 15-26; MR 91e:65033]. (Not in MR)
- Vanden Bergh, G. *see* Vanthournout, J.; et al., 91i:65043 and De Meyer, H.; et al., 91m:65058
- Vanthournout, J. (with Vanden Bergh, G.; De Meyer, H.) Families of backward differentiation methods based on a new type of mixed interpolation. 91i:65043
- *see also* De Meyer, H.; et al., 91m:65058

Walz, Guido Increasing the convergence modulus of an asymptotic expansion: an algorithm for numerical differentiation. 91f:65044

Items with secondary classifications in 65D25

- Ascarì, Aldo (with Pavani, Raffaella) Some matrix generalized inverses occurring in quadrature and differentiation of tabular function. (Italian summary) 91a:41034
 Brudaru, Octav Systolic networks for numerical differentiation by using Richardson-Romberg extrapolation method. 91c:65002
 Crăciun, M. Systolic estimation of derivatives using Richardson-Romberg's extrapolation method for central-divided differences. (Romanian summary) 91m:65345
 Fischer, Herbert Automatic differentiation: parallel computation of function, gradient, and Hessian matrix. 91b:65158
 Hess, Ronald E. An ADA library for automatic evaluation of derivatives. (Not in MR)
 Pavani, Raffaella see Ascarì, Aldo, 91a:41034
 Sun, Yong Sheng Optimal recovery of the derivative from a class of smooth functions. (see 91j:41002)
 Vădin, A. Yu. A dynamic method for reconstruction of a derivative in L_2 of improved accuracy. (Russian) 91e:65090

65D30 Numerical integration

- Acharya, B. P. (with Mohapatra, T.) Approximation of n -dimensional integral of analytic function of several complex variables. (Serbo-Croatian summary) 91f:65045
 Arellán, Aristides (with Nieves, Adrián) A numerical method for computing definite integrals. (Spanish) (see 91k:00022)
 Baerends, E. J. see Noolen, M.; et al., 91f:65048
 Bazarokhanov, D. B. Optimal reconstruction of an integral with a weight that has a singularity on some classes of functions with a nonsymmetric norm. (Russian) (Not in MR)
 Bialecki, Bernard A sinc-Hunter quadrature rule for Cauchy principal value integrals. 91d:65038
 Boyanov, Borislav D. (with Nikolov, Geno P.) Comparison of Birkhoff type quadrature formulae. 91e:65034
 Brebbia, C. A. see Hayami, K., 91b:00041
 Bronstein, Mannel An algorithm for the integration of elementary functions. 91a:65050
 Brudaru, Octav A systolic network for numerical integration. (Romanian summary) 91c:65045
 Bui Doan, Khanh A numerical evaluation of very oscillatory infinite integrals by asymptotics. 91j:65042
 Cheban, V. G. see Lanyuk, M. P., 91g:65046
 Connor, J. N. L. Practical methods for the uniform asymptotic evaluation of oscillating integrals with several coalescing saddle points. 91m:65059
 Corliss, George F. (with Krenz, Gary S.) Indefinite integration with validation. (Not in MR)
 — Validated anti-derivatives. (see 91k:00034)
 Criscuolo, Giuliana (with Mastroianni, Giuseppe; Santi, Elisabetta) Convergence of Gauss type formulas with preassigned nodes. (Serbo-Croatian summary) 91c:65017
 Dagnino, Caterina (with Santi, Elisabetta) On the evaluation of one-dimensional Cauchy principal value integrals by rules based on cubic spline interpolation. (German summary) 91f:65046
 — Product integration of singular integrands based on cubic spline interpolation at equally spaced nodes. 91h:65036
 Denisenko, N. P. On the estimation of uniform norms of the numerical integration operator by interpolation over Chebyshev nodes. (Russian) 91f:65044
 Egorov, A. D. (with Khripach, V. V.) Approximate calculation of functional integrals with respect to measures that can be generated by solutions of stochastic equations. (Russian. English summary) 91m:65060
 Ehrenmark, Ulf Torsten A note on an extension of extrapolative techniques for a class of infinite oscillatory integrals. 91d:65039
 Evans, James D. Evaluation of four irrational definite sine integrals using residue theory. 91f:65045
 — Applications of complex variable residue theory to the evaluation of irrational definite integrals. I. 91h:65037
 — Applications of complex variable residue theory to the evaluation solution of irrational definite integrals. II. 91h:65038
 Gao, Feng³ Probabilistic analysis of numerical integration algorithms. 91m:65061
 Gori Nicolò-Amati, Laura (with Santi, Elisabetta) The Peano kernel in relation to quasi-Gaussian quadrature formulae. (Serbo-Croatian summary) 91b:65026
 Hashitsume, Natsuki see Shibata, Fumiaki; et al., 91b:65027
 Hayami, K. (with Brebbia, C. A.) Quadrature methods for singular and nearly singular integrals in 3-D boundary element method. (see 91b:00041)
 Hunter, D. B. (with Smith, H. V.) The evaluation of Cauchy principal value integrals involving unknown poles. 91a:65051
 Jetter, Kurt Gaussian quadrature formulae involving derivatives of lacunary type. 91c:65018
 Jiang, He Li An optimum compound Simpson numerical method for the triple integral over an Ω region. (Chinese. English summary) 91m:65062
 Joe, S. Randomization of lattice rules for numerical multiple integration. 91j:65043
 Kalaida, A. F. Matrix algorithms for numerical integration. (Russian) 91a:65052
 Kalla, Shyam L. see Meyer C., Omar E., 91m:65064
 Kallrath, Josef (with Neutsch, Wolfram) Lattice integration on the 7-sphere. 91a:65053
 Kawonaki, Harumi see Shibata, Fumiaki; et al., 91b:65027
 Khripach, V. V. see Egorov, A. D., 91m:65060
 Kirichenko, A. M. see Lanyuk, M. P., 91f:65046
 Kovachik, Yu. I. Approximate calculation of Feynman integrals connected with integral equations. (Russian) 91m:65063
 Krenz, Gary S. see Corliss, George F., (Not in MR)
 Lee, Deok Kyo Application of theta functions for numerical evaluation of complete elliptic integrals of the first and second kinds. 91j:65044
 Lanyuk, M. P. (with Cheban, V. G.) Calculation of a class of improper integrals by a method of hybrid Fourier-second kind Hankel-Fourier integral transformation. (Russian) 91g:65046
 — (with Kirichenko, A. M.) Calculation of some improper integrals from trigonometric functions on the axis. I. (Ukrainian. Russian summary) 91f:65046
 Lether, F. G. (with Wenston, P. R.) An algorithm for the numerical computation of the Voigt function. 91a:65054
 Li, Yi Fu Single-node numerical integration. (Chinese) 91f:65047
 Lohanov, Yu. Yu. (with Shakhbagan, R. R.; Sidorova, O. V.; Zhidkov, E. P.) Computation of conditional Wiener integrals by the composite approximation formulas with weight. 91j:65045
 Mastroianni, Giuseppe see Criscuolo, Giuliana; et al., 91c:65017
 Meyer C., Omar E. (with Kalla, Shyam L.) On fractional integration operators and computational algorithms. (Spanish. English summary) 91m:65064
 Mohapatra, T. see Acharya, B. P., 91f:65045
 Moldenhauer, Wolfgang Vernetzte numerische Integration über Simplexe im \mathbb{R}^3 . [Gridded numerical integration over simplices in \mathbb{R}^3] 91e:65035
 Neutsch, Wolfram see Kallrath, Josef, 91a:65053
 Nienhaus, Helmut Numerical integration of trivariate periodic functions. (see 91j:41002)
 Nieves, Adrián see Arellán, Aristides, 91b:00022
 Nikolov, Geno P. see Boyanov, Borislav D., 91e:65034
 Noolen, M. (with te Velde, G.; Baerends, E. J.) Symmetric numerical integration formulas for regular polygons. 91f:65048
 Olde Daalhuis, A. B. see Temme, Nico M., 91f:65048
 Palamara Orsi, Annamaria Spline approximation for Cauchy principal value integrals. 91g:65047
 Ponomarenko, A. K. Formulas for the approximate calculation of integrals over the whole plane. (Russian) 91g:65048
 Rabinowitz, Philip Product integration based on Hermite-Fejér interpolation. 91f:65047
 — Generalized noninterpolatory rules for Cauchy principal value integrals. 91a:65055
 Rahman, Qazi I. (with Schmeisser, Gerhard) Characterization of the speed of convergence of the trapezoidal rule. 91d:65040
 Ramm, Alexander G. (with van der Sluis, A.) Calculating singular integrals as an ill-posed problem. 91m:65065
 Rodrigues, A. J. On $_{MN}$ and Dirac kernel approximants. 91a:65056
 Santi, Elisabetta see Gori Nicolò-Amati, Laura, 91b:65026; Criscuolo, Giuliana; et al., 91c:65017 and Dagnino, Caterina, 91f:65046
 Schmeisser, Gerhard see Rahman, Qazi I., 91d:65040
 Shakhbagan, R. R. see Lohanov, Yu. Yu.; et al., 91j:65045
 Shibata, Fumiaki (with Watabe, Miki; Kawasaki, Harumi; Hashitsume, Natsuki) Numerical evaluation of path integrals. 91b:65027
 Sidi, Avram On rates of acceleration of extrapolation methods for oscillatory infinite integrals. 91e:65036
 Sidorova, O. V. see Lohanov, Yu. Yu.; et al., 91j:65045
 van der Sluis, A. see Ramm, Alexander G., 91m:65065
 Smith, H. V. The numerical computation of a class of divergent integrals. 91m:65066
 — see also Hunter, D. B., 91a:65051
 Temme, Nico M. (with Olde Daalhuis, A. B.) Uniform asymptotic approximation of Fermi-Dirac integrals. 91f:65048
 Tortorella, Michael Closed Newton-Cotes quadrature rules for Stieltjes integrals and numerical convolution of life distributions. 91g:65049
 te Velde, G. see Noolen, M.; et al., 91f:65048
 Watabe, Miki see Shibata, Fumiaki; et al., 91b:65027
 Wenston, P. R. see Lether, F. G., 91a:65054
 Westreich, David A practical method for computing the exponential of a matrix and its integral. 91f:65049
 Xiang, Long Wan Error estimates of boundary type integration formulas on a triangle. (Chinese. English summary) 91k:65051
 Zadachka, V. K. Some methods for improving the accuracy of calculating integrals of rapidly oscillating functions. (Russian) (see 91k:65007)
 Zhidkov, E. P. see Lohanov, Yu. Yu.; et al., 91j:65045

Items with secondary classifications in 65D30

- Ahlf, V. U. (with Evans, G. A.) A comparison of the error function and the tanh transformation as progressive rules for double and triple singular integrals. 91g:65100
 Alarcón, E. see Sanz-Serna, J. M.; et al., 91c:65077
 Anolik, M. V. (with Khalidov, I. A.) Calculation of path integrals encountered in a problem on two-fold reflection of atoms of a rarefied gas from a slightly rough surface. (Russian. English summary) (Not in MR)
 Ascarì, Aldo (with Pavani, Raffaella) Some matrix generalized inverses occurring in quadrature and differentiation of tabular function. (Italian summary) 91a:41034
 Askey, Richard Integration and computers. 91k:33014
 Banerjee, Uday (with Osborn, John E.) Estimation of the effect of numerical integration in finite element eigenvalue approximation. 91d:65163
 Barnhill, Robert E. (with Watson, Stephen H.) Geometry processing: numerical surface and volume integration. (see 91j:41001)
 Bocher, P. Simultaneous self-verified computation of $\exp(A)$ and $\int_0^1 \exp(As)ds$. (German summary) 91f:65058
 Brandt, Achi (with Lubrecht, A. A.) Multilevel matrix multiplication and fast solution of integral equations. 91j:65194
 Cambanis, Stamatis see Masry, Elias, 91b:65004
 Candy, J. (with Rozmus, W.) A symplectic integration algorithm for separable Hamiltonian functions. 91m:70003
 Carravetta, Vincenzo see Fortunelli, Alessandro, 91c:33007
 Delvos, Franz-Jürgen r th order blending rectangle rules. 91c:41078
 Doblaré, M. see Sanz-Serna, J. M.; et al., 91c:65077
 Doygal, V. V. see Ermakov, S. M., 91m:65015
 Drummond, I. T. (with Horgan, R. R.) Continuum approximation to functional integrals. 91j:81165
 Eissa, E. P. The approximation of the n -dimensional singular integral. 91f:65208

- Ermakov, S. M. (with Dovgal', V. V.) Limit theorems for the Tausworthe pseudorandom number generator. 91m:65015
- Evans, G. A. see Ahlie, V. U., 91g:65100
- Feuillebois, F. Numerical calculation of singular integrals related to Hankel transform. 91m:65319
- Fortunelli, Alessandro (with Carravetta, Vincenzo) Single-centre expansion and angular decomposition of the overlap integral for Hermite Gaussian functions. 91e:33007
- Frontini, Marco (with Milovanović, Gradimir V.) Moment-preserving spline approximation on finite intervals and Turán quadratures. (Serbo-Croatian summary) 91m:41021
- Hasegawa, Takemitsu (with Torii, Tatsuo; Sugiura, Hiroshi) An algorithm based on the FFT for a generalized Chebyshev interpolation. 91c:65009
- Horgan, R. R. see Drummond, I. T., 91b:81165
- Khalidov, I. A. see Anolik, M. V., (Not in MR)
- (Korneichuk, N. P.) see Nikol'skii, S. M., 91j:41042
- Lamarche, François (with Leroy, Claude) Evaluation of the volume of intersection of a sphere with a cylinder by elliptic integrals. 91d:26016
- Larcher, Gerhard (with Niederreiter, Harald) Optimal coefficients modulo prime powers in the three-dimensional case. 91e:65014
- Leroy, Claude see Lamarche, François, 91d:26016
- Lezhnev, V. G. Calculation of certain integrals of Bessel functions. (Russian) (see 91k:65008)
- Likhoded, N. A. Sharpening of a Monte Carlo estimate for path integrals. (Russian. English summary) 91g:65014
- Lubrecht, A. A. see Brandt, Achil, 91j:65194
- Masy, Elias (with Cambanis, Stamatis) Trapezoidal Monte Carlo integration. 91b:65004
- (Medkov, K. P.) see Nikol'skii, S. M., 91j:41042
- Milovanović, Gradimir V. see Frontini, Marco, 91m:41021
- Miranker, Willard L. (with Winkler, Andrew) Path integral numerical methods for evolution equations. 91g:65213
- Niederreiter, Harald Quasi-Monte Carlo methods for multidimensional numerical integration. 91f:65008
- see also Larcher, Gerhard, 91e:65014
- Nikol'skii, S. M. ★ Fórmulas de cuadratura. (Spanish) [Quadrature formulas] 91j:41042
- Osborn, John E. see Banerjee, Uday, 91d:65163
- Pavani, Raffaella see Ascarl, Aldo, 91a:41034
- Rabinowitz, Philip Numerical integration based on approximating splines. 91m:65028
- Rozmus, W. see Candy, J., 91m:70003
- Sanz-Serna, J. M. (with Doblaré, M.; Alarcón, E.) Remarks on methods for the computation of boundary-element integrals by co-ordinate transformation. 91c:65077
- Sidi, Avram Comparison of some numerical quadrature formulas for weakly singular periodic Fredholm integral equations. (German summary) 91c:65086
- Sobol', I. M. Estimation of the sensitivity of nonlinear mathematical models. (Russian. English summary) 91f:65008
- Sugiura, Hiroshi see Hasegawa, Takemitsu; et al., 91c:65009
- Torii, Tatsuo see Hasegawa, Takemitsu; et al., 91c:65009
- Wasilkowski, G. W. Randomization for continuous problems. 91a:65006
- Watson, Stephen H. see Barnhill, Robert E., (91j:41001)
- Winkler, Andrew see Miranker, Willard L., 91g:65213
- Woźniakowski, H. Average case complexity of multivariate integration. 91f:65224
- Zeng, Xiao Ming* The pointwise approximation degree of Bézier-Durrmeyer integral operators. (Chinese. English summary) 91h:41021
- ### 65D32 Quadrature and cubature formulas
- Bialecki, Bernard A Sinc quadrature rule for Hadamard finite-part integrals. 91f:65049
- Boyano, Borislav D. (with Huang, Da Ren) Comparison of optimal quadrature formulas. 91d:65041
- Brass, Helmut Universal quadrature rules in the space of periodic functions. 91a:65057
- (with Förster, Klaus-Jürgen) Error bounds for quadrature formulas near Gaussian quadrature. 91e:65037
- Cools, Ronald (with Haegemans, Ann) Construction of symmetric cubature formulae with the number of knots (almost) equal to Möller's lower bound. 91e:65038
- (with Schmid, Hans Joachim) Minimal cubature formulae of degree $2k-1$ for two classical functionals. (German summary) 91d:65042
- (with Haegemans, Ann) The construction of cubature formulae using continuation and bifurcation software. 91g:65050
- (with Haegemans, Ann) A lower bound for the number of function evaluations in an error estimate for numerical integration. 91f:65046
- Crstici, Borislav (with Neagu, M.; Neamtu, N.) Functional equations and quadrature formulae. (Romanian summary) (see 91e:00034)
- Dagnino, Caterina (with Santi, Elisabetta) Spline product quadrature rules for Cauchy singular integrals. 91k:65052
- Delves, Franz-Jürgen (with Nienhaus, Helmut) A trivariate Boolean cubature scheme. 91e:65039
- Boolean methods for double integration. 91j:65047
- De Meyer, H. see Vanden Bergh, G.; et al., 91g:65055
- Dimou, George see Tsamaspyros, George, 91g:65054
- Disney, Shaun Error bounds for rank 1 lattice quadrature rules modulo composites. 91m:65067
- (with Sloan, Ian H.) Error bounds for the method of good lattice points. 91m:65068
- Dunachuk, E. E. Existence and uniqueness of optimal weighted quadrature formulas of a certain form. (Russian) 91m:65069
- Engels, H. (with Hensen, R.) Eine Klasse interpolatorischer Kubaturformeln mit Kronrod- und Patterson-erweiterung. (English summary) [A class of interpolating cubature formulas with Kronrod and Patterson extension] 91f:65050
- Eshdaviat, B. The structure of quadrature formulas for Fourier-type integrals by means of the Grebennik spline. (Russian) 91g:65051
- Fang, Gen Sun see Huang, Da Ren, 91f:65051
- Förster, Klaus-Jürgen On the minimal variance of quadrature formulas. 91e:65040
- (with Petras, Knut) On estimates for the weights in Gaussian quadrature in the ultraspherical case. 91d:65043
- (with Petras, Knut) On a problem proposed by H. Brass concerning the remainder term in quadrature for convex functions. 91j:65048
- see also Brass, Helmut, 91c:65037
- Gautschi, Walter (with Tychopoulos, E.; Varga, Richard S.) A note on the contour integral representation of the remainder term for a Gauss-Chebyshev quadrature rule. 91d:65044
- A class of slowly convergent series and their summation by Gaussian quadrature. 91j:65049
- Gori Nicolò-Amati, Laura (with Santi, Elisabetta) A monospline associated with quasi-Gaussian functionals: some properties. (Italian. English summary) 91j:65050
- (with Santi, Elisabetta) On some Turán-type integration rules for Cauchy principal value integrals. (see 91j:41001)
- Graf, Siegfried (with Novak, Erich) The average error of quadrature formulas for functions of bounded variation. 91m:65070
- Haegemans, Ann see Cools, Ronald, 91e:65038; 91g:65050; Verlinden, P., 91f:65055 and Cools, Ronald, 91j:65046
- Hajjaj, A. Numerical integration with linear combination of Chebyshev-Gauss quadratures. 91f:65050
- Hasegawa, Takemitsu (with Torii, Tatsuo) An automatic quadrature for Cauchy principal value integrals. 91j:65051
- Hausmann, Werner (with Luik, Eberhard) Cubature remainder estimates by approximation degrees. 91a:65058
- Hensen, R. see Engels, H., 91f:65050
- Huang, Da Ren (with Fang, Gen Sun) Existence of optimal quadrature formulas with repeated nodes on W_1^m . (Chinese) 91f:65051
- see also Boyano, Borislav D., 91d:65041
- Kalaide, A. F. Error estimates for quadrature formulas. (Russian) 91k:65053
- Kaul, Nancy see Raina, B. L., 91d:65046
- Keast, P. see Lyness, J. N.; et al., 91m:65071
- Knut, Petras Asymptotic behaviour of Peanokernels of fixed order. 91c:65019
- Köhler, Peter On the weights of Sard's quadrature formulas. 91g:65052
- On the error of compound quadrature formulas for r -convex functions. 91e:65041
- Konyayev, S. I. (with Tolmacheva, L. A.) Numerical location of nodes and weights in a sixth-order quadrature formula for a disk. (Russian) 91f:65051
- Kozlovskii, N. Ya. An estimate for the remainder of an interpolation quadrature formula with respect to a system of nodes of Jacobi polynomials. (Russian. English summary) 91g:65053
- Kuznetsov, V. F. Error estimates for some quadratures of a special form with four nodes on prescribed classes of functions. (Russian) 91f:65052
- Luik, Eberhard see Hausmann, Werner, 91a:65058
- Lyness, J. N. Some comments on quadrature rule construction criteria. 91b:65028
- (with Sorevik, T.) The number of lattice rules. 91a:65059
- An introduction to lattice rules and their generator matrices. 91b:65029
- (with Sorevik, T.; Keast, P.) Notes on integration and integer sublattices. 91m:65071
- see also Sloan, Ian H., 91a:65062
- Maestu, J. I. On symmetric cubature formulae for planar regions. 91c:65020
- (with Sáinz de la Maza, E.) On the positivity of the coefficients of symmetric cubature formulas for two-dimensional regions. (Spanish) (see 91j:00015)
- Manara, Lúcia Helena Barros Comparison of various adaptive or nonadaptive automatic quadrature algorithms of Romberg type. (Portuguese. English summary) 91f:65052
- Marshak, A. L. Asymptotic representation of weights of a Gaussian quadrature formula. 91k:65054
- (Mikhailov, G. A.) see Salikhov, G. N., 91a:65060
- Mikhailin, S. G. Errors in the approximation of quadrature formulas connected with the finite element method. 91f:65053
- Mynbaev, K. T. Cubature formulas for functions in a weighted anisotropic Sobolev-Liouville space. 91h:65039
- Mysovskikh, I. P. On the construction of cubature formulas that are exact for trigonometric polynomials. (Russian) (see 91k:65007)
- Neagu, M. see Crstici, Borislav; et al., (91e:00034)
- Neamtu, N. see Crstici, Borislav; et al., (91e:00034)
- Nienhaus, Helmut see Delves, Franz-Jürgen, 91e:65039
- Nikolov, Gene P. Existence and uniqueness of Hermite-Birkhoff Gaussian quadrature formulas. 91m:65072
- Noskov, M. V. see Polovinkin, V. I., 91b:65031
- Notaris, Sotirios E. Gauss-Kronrod quadrature formulae for weight functions of Bernstein-Szegő type. II. 91b:65030
- Novak, Erich see Graf, Siegfried, 91m:65070
- Pavel, Paraschiva Sur une formule du cubature de Gauss-Turán. (Romanian summary) [On a Gauss-Turán cubature formula] 91d:65045
- Pfeisterstorfer, Franz On Tchebycheff quadrature formulas. 91c:65021
- Weight functions admitting repeated positive Kronrod quadrature. 91e:65043
- On Stieltjes polynomials and Gauss-Kronrod quadrature. 91e:65042
- Gauss-Tchebycheff quadrature formulas. 91j:65052
- Petras, Knut Error estimates for Filon quadrature formulae. 91f:65053
- see also Förster, Klaus-Jürgen, 91d:65043 and 91j:65048
- Polovinkin, V. I. (with Noskov, M. V.) Asymptotic properties of the Cartesian products of cubature formulas. (Russian) 91b:65031
- Rabinowitz, Philip Uniform convergence results for Cauchy principal value integrals. 91j:65053
- Raina, B. L. (with Kaul, Nancy) Certain optimal rules for numerical integration. 91d:65046
- Restov, A. V. Gauss-type cubature formulas with an asymptotically minimal number of nodes. (Russian) (Not in MR)
- Rokhlin, Vladimir V. End-point corrected trapezoidal quadrature rules for singular functions. 91f:65054
- Sáinz de la Maza, E. see Maestu, J. I., (91j:00015)
- Sakurai, Tetsuya see Sugiura, Hiroshi, 91d:65048

- Salikhov, G. N. ★ Кубатурные формулы для многомерных сфер. (Russian) [Cubature formulas for multidimensional spheres] 91a:65060
- Samokish, B. A. Quadrature formulas for integrals of functions that are analytic in the interior of a segment. 91a:65073
- Santi, Elisabetta. see Gori Nicolò-Amati, Laura, 91b:65050; Dagnino, Caterina, 91b:65052 and Gori Nicolò-Amati, Laura, (91j:41001)
- Schmid, Hans Joachim. see Coils, Ronald, 91d:65042
- Shamsiev, E. A. see Tadzhev, Sh. I., 91f:65055
- Silvester, Peter P. Weighted Gaussian quadratures for singular and near-singular integrands. 91f:65054
- Sloan, Ian H. (with Walsh, Linda) A computer search of rank-2 lattice rules for multidimensional quadrature. 91a:65061
- (with Lyness, J. N.) Lattice rules: projection regularity and unique representations. 91a:65062
- see also Disney, Shaun, 91m:65068
- van der Sluis, A. Stable computation of Stieltjes integrals. 91d:65047
- Smelov, V. V. A class of quadrature formulas of Gaussian type. (Russian) 91b:65032
- Sorévik, T. see Lyness, J. N., 91a:65059 and 91m:65071
- Sugjura, Hiroshi (with Sakurai, Tetsuya) On the construction of high-order integration formulae for the adaptive quadrature method. 91d:65048
- Tadzhev, Sh. I. (with Shamsiev, E. A.) On the structure of cubature formulas for a sphere. (Russian) 91f:65055
- Temirgaliev, N. Application of the theory of divisors to the numerical integration of periodic functions of several variables. 91b:65040
- Temlyakov, V. N. Error estimates for quadrature formulas for classes of functions with a bounded mixed derivative. 91a:65063
- Tolmacheva, L. A. see Konyarov, S. I., 91f:65051
- Torii, Tatsuo. see Hasegawa, Takemitsu, 91f:65051
- Tsamasphyros, George (with Dimou, George) Gauss quadrature rules for finite part integrals. 91g:65054
- Tychopoulos, E. see Gautschi, Walter; et al., 91d:65044
- Vanden Bergh, G. (with De Meyer, H.; Vanthournout, J.) On a class of modified Newton-Cotes quadrature formulae based upon mixed-type interpolation. 91g:65055
- Vanthournout, J. see Vanden Bergh, G.; et al., 91g:65055
- Varga, Richard S. see Gautschi, Walter; et al., 91d:65044
- Vefov, V. M. Discrete approximations of integrals of multivalued mappings. 91f:65056
- Verlinden, P. (with Haegemans, Ann) The construction of cubature formulae by continuation. (German summary) 91f:65055
- Walsh, Linda. see Sloan, Ian H., 91a:65061
- Wang, Lie Hong. Quadrature residuals for some numerical integration formulas. (Chinese) (Not in MR)
- Zhu, Chang Zhong. A Gauss-type quadrature formula. (Chinese. English summary) 91b:65033
- Zinov'eva, O. T. Some cubature formulas for a three-dimensional cube. (Russian) 91g:65056
- Items with secondary classifications in 65D32**
- Dryanov, Dimitar P. Quadrature formulae for entire functions of exponential type. 91m:41051
- Dunaichuk, E. E. Weighted quadrature formulas, best with respect to coefficients, of the form $\sum_{k=1}^n A_k f(x_k)$ for some classes of differentiable functions. (Russian) (see 91a:41002)
- Necessary conditions for optimality of quadrature formulas with weight on some classes of differentiable functions. (Russian) (see 91a:41002)
- Fang, Gen Sun. see Huang, Da Ren, 91m:41052
- Hlawka, Edmund. Näherungsformeln zur Berechnung von mehrfachen Integralen mit Anwendungen auf die Berechnungen von Potentialen, Induktionskoeffizienten und Lösungen von Gleichungssystemen. [Approximation formulas for computing multiple integrals with applications to the computations of potentials, induction coefficients and solutions of systems of equations] 91m:11055
- Huang, Da Ren (with Fang, Gen Sun) The uniqueness of optimal quadrature formula and optimal interpolation knots with multiplicities in L_1 . 91m:41052
- Kushch, A. O. see Motornyi, V. P., (91a:41002)
- Ladopoulos, E. G. Cubature formulas for singular integral approximations used in three-dimensional elasticity. (Not in MR)
- Mitra, Alexandru I. The unbounded divergence of some product quadrature processes. 91d:41013
- Motornyi, V. P. (with Kushch, A. O.) The best quadrature formula of the form $\sum_{k=1}^n p_k f(x_k)$ on the class W^2H^m . (Russian) (see 91a:41002)
- Patterson, T. N. L. An algorithm for generating interpolatory quadrature rules of the highest degree of precision with preassigned nodes for general weight functions. 91g:65004
- Rahman, Qazi I. (with Schmeisser, Gerhard) Characterization of functions in terms of rate of convergence of a quadrature process. 91k:41032
- Schmeisser, Gerhard. see Rahman, Qazi I., 91k:41032
- Tomkins, R. J. see Xu, Li Zhi; et al., 91a:41036
- Wang, Chung-Lie. see Xu, Li Zhi; et al., 91a:41036
- Warwar, Abdul-Majid. Modified numerical methods based on arithmetic and geometric means. (Not in MR)
- Xu, Li Zhi (with Tomkins, R. J.; Wang, Chung-Lie) A quadrature method for a class of strongly oscillatory infinite integrals. 91a:41036
- 65D99 None of the above, but in this section**
- Abramyan, M. E. (with Simonenko, I. B.) Estimates for the condition number of some systems of functions. (Russian) 91k:65055
- Asayama, Yasusuke. see Ikebe, Yasuhiko; et al., 91f:65057
- Cai, Yuan Long. see Jiang, Hang Yi, 91g:65057
- Cameron, Stephen (with Rossignac, Jaroslav R.) Relationship between S -bounds and active zones in constructive solid geometry. 91a:65064
- Childs, Bart. see McGuire, Tim, (Not in MR)
- Fujishiro, Issei. see Ikebe, Yasuhiko; et al., 91f:65057
- Fumaro, Daniele. Computational aspects of pseudospectral Laguerre approximations. 91m:65074
- Ikebe, Yasuhiko (with Fujishiro, Issei; Asayama, Yasusuke) The divided difference table from a matrix viewpoint. 91f:65057
- Jiang, Hang Yi (with Cai, Yuan Long) Laplacian of spline for edge detection. 91g:65057
- Lin, Qun (with Liu, Jia Quan) An introduction to finite element extrapolation techniques starting from calculations of ratios of circumferences. (Chinese) 91e:65044
- Liu, Jia Quan. see Lin, Qun, 91e:65044
- McGuire, Tim (with Childs, Bart) An analysis of power series operators. (Not in MR)
- Nefed'ev, V. O. The generator of a grid of orthogonal curvilinear coordinates on an arbitrary surface. (Russian. English summary) (Not in MR)
- Orseovich, A. I. (with Reshetnyak, Yu. N.) Approximation of the intersection of ellipsoids in problems of guaranteed estimation. (Not in MR)
- Pavlov, A. G. The information structure of image functions, and the possibility of detecting systematic errors in solving ill-posed problems. 91k:65056
- Reshetnyak, Yu. N. see Orseovich, A. I., (Not in MR)
- Rossignac, Jaroslav R. see Cameron, Stephen, 91a:65064
- Simonenko, I. B. see Abramyan, M. E., 91k:65055
- Song, Bai Sheng. A general formula for finite difference quotients. (Chinese. English summary) 91e:65045
- Stekelee, J. J. A uniform representation scheme for freeform geometric modelling. 91a:65065
- Xu, Jin Sheng. see Yao, Peng Fei, 91f:65056
- Yao, Peng Fei (with Xu, Jin Sheng) The convergence of an algorithm. (Chinese. English summary) 91f:65056
- Zhong, Chong Xin. Approximate computations of the binomial and hypergeometric distributions and their error. (Chinese) (Not in MR)
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- Babich, V. M. (with Popov, M. M.) The method of summing Gaussian beams (a survey). 91c:78004
- Berka, Milan (with Vězník, Karel) Information-stochastic optimal algorithms for calculating multiple functionals. (Czech. English and Russian summaries) 91g:65148
- Berry, M. V. (with Howls, C. J.) Hyperasymptotics. 91b:34064
- Bessis, Daniel (with Demko, Stephen) Stable recovery of fractal measures by polynomial sampling. 91k:28009
- Block, A. (with von Bloh, W.; Schellnhuber, H. J.) Efficient box-counting determination of generalized fractal dimensions. 91b:65015
- von Bloh, W. see Block, A.; et al., 91b:65015
- Boyd, W. G. C. Stieltjes transforms and the Stokes phenomenon. 91m:33001
- Brown, C. S. Capacity of the regular polyhedra. 91f:65198
- Chen, Kai Zhou (with Dang, Chuang Yin) A new variable-dimension simplicial algorithm based on a new triangulation D_1 . (Chinese. English summary) 91b:65087
- Chernyshenko, Yu. A. see Lando, S. K., 91b:65143
- Crstici, Borislav. see Pečarić, Josip E.; et al., 91h:26008
- Dang, Chuang Yin. see Chen, Kai Zhou, 91b:65087
- Demko, Stephen. see Bessis, Daniel, 91k:28009
- Dragomir, Sever Silvestru. see Pečarić, Josip E.; et al., 91h:26008
- Farrell, Mary Eileen (with Passamante, A.; Hediger, T.) Comparing a nearest-neighbor estimator of local attractor dimensions for noisy data to the correlation dimension. 91h:58144
- Garbovskii, V. V. see Panchuk, V. I., 91d:65225
- Hanson, James D. see Huang, Jing-Zhi; et al., 91g:58184
- Hediger, T. see Farrell, Mary Eileen; et al., 91h:58144
- Howls, C. J. see Berry, M. V., 91b:34064
- Huang, Jing-Zhi (with Tsang, Kwok Yeung; Hanson, James D.) Dimension of strange attractors in four-dimensional maps. 91g:58184
- Juan, R. On boundary to CSG and extended octrees to CSG conversions. 91b:00020
- Jurkat, W. B. (with Zwieler, H. J.) Piecewise algebraic functions. 91f:65103
- Kaizerman, L. A. Applications of the method of optimal coefficients to the numerical solution of some problems in mathematical physics. (Russian) (see 91a:11004)
- Knaup, Patrick M. On the invertibility of the isoparametric map. 91c:73082
- Lando, S. K. (with Chernyshenko, Yu. A.) An algorithm for separating the branches of a multivalued function. (Russian) 91b:65143
- Langwitz, Detlef. Kettenwurzeln und Kettenoperationen. [Continued roots and chain operations] 91g:40003
- Lee, David. Detection, classification, and measurement of discontinuities. 91m:94004
- Light, William A. The Chebyshev solution of certain matrix equations. 91f:65072
- Maday, Yvon. Relèvements de traces polynomiales et interpolations hilbertiennes entre espaces de polynômes. (English summary) [Liftings of polynomial traces and Hilbert interpolation between spaces of polynomials] 91f:46046
- Men'shikov, G. G. Accuracy of an analogue calculation of a moving average by integration of a second-order linear equation. (Russian) (see 91k:00019)
- Novak, Erich. Stochastic error bounds for some nonlinear problems in numerical analysis. (see 91j:41002)
- Ogawa, Shiro. see Zhang, Guofeng, 91a:41016
- Panchuk, V. I. (with Garbovskii, V. V.) Matrix representation of continued fractions and its use in algorithms of parallel calculations. 91d:65225
- Passamante, A. see Farrell, Mary Eileen; et al., 91h:58144
- Pečarić, Josip E. (with Dragomir, Sever Silvestru; Crstici, Borislav) On the Olovyanishnikov-Schoenberg theorem and some similar results. (Romanian summary) 91h:26008
- Peskin, Charles S. see Saedy, James, 91e:53006
- Popov, M. M. see Babich, V. M., 91c:78004
- Schellnhuber, H. J. see Block, A.; et al., 91b:65015
- Shacham, Mordechai. see Shacham, Orit, (Not in MR)
- Shacham, Orit (with Shacham, Mordechai) Finding boundaries of the domain of definition for functions along a one-dimensional ray. (Not in MR)
- Saedy, James (with Peskin, Charles S.) Computation of geodesic trajectories on tubular surfaces. 91e:53006

- Svistunov, S. V. An iterative method for determining the elliptic hull of a system of vectors. (Russian. English summary) **91j:65161**
- Tricot, Claude. Local convex hulls of a curve, and the value of its fractal dimension. **91c:28008**
- Tsang, Kwok Yeung. *see* Huang, Jing-Zhi; et al., **91g:58184**
- Vězník, Karel. *see* Berka, Milan, **91g:65148**
- Wasilkowski, G. W. Note on quantization for signals with bounded $(r+1)$ st derivative. **91k:94008**
- Westreich, David. A practical method for computing the exponential of a matrix and its integral. **91f:65049**
- Zhang, Guofeng (with Ogawa, Shiro). Block structure of multivariate Padé approximants and ϵ -algorithm. **91a:41016**
- Zheng, Wei Mo. Construction of median itineraries without using anti-harmonics. **91g:58141**
- Zwiesler, H. J. *see* Jurkat, W. B., **91f:65103**

65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

- Allasia, Giampietro (with Besenghi, Renata). Numerical calculation of the Riemann zeta function and generalizations by means of the trapezoidal rule. **91f:65058**
- Besenghi, Renata. *see* Allasia, Giampietro, **91f:65058**
- Gaiduk, V. N. Application of numerical methods to sufficient conditions for the univalence of functions that are regular in the exterior of the unit disk. (Russian) (Not in MR)
- Hara, Heihachiro (with Mizumoto, Hisao). Determination of the modulus of quadrilaterals by finite element methods. **91c:65022**
- Ioakimidis, N. I. (with Perdios, E. A.; Papadakis, K. E.). Numerical estimation of the coefficient of the homogeneous Riemann-Hilbert problem on the basis of boundary data. **91k:65057**
- The location of discontinuity intervals of sectionally analytic functions: application to the interface crack problem. **91k:65058**
- Krutitskii, P. A. On an oblique derivative problem for a plane with cuts along a straight line, and related problems. (Russian. English summary) **91g:65058**
- Mizumoto, Hisao. *see* Hara, Heihachiro, **91c:65022**
- Opfer, Gerhard. Numerische Behandlung komplexer Approximationsaufgaben. [Numerical treatment of complex approximation problems] **91h:65041**
- Papadakis, K. E. *see* Ioakimidis, N. I.; et al., **91k:65057**
- Perdios, E. A. *see* Ioakimidis, N. I.; et al., **91k:65057**
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- Chekryzhov, S. S. *see* Koshel', S. M., (Not in MR)
- Chul, Charles K. (with Li, Xie Zhang; Zhong, Le Fan). On computation of minimum-norm tangent interpolants. (see **91j:41001**)
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- DeLillo, Thomas K. A note on Rengel's inequality and the crowding phenomenon in conformal mapping. **91a:30008**
- (with Elcrat, Alan R.). A comparison of some numerical conformal mapping methods for exterior regions. **91k:30015**
- Elcrat, Alan R. *see* DeLillo, Thomas K., **91k:30015**
- Fiedler, Miroslav. Löwner'sche Matrizen und rationale Interpolation. [Löwner matrices and rational interpolation] **91h:65019**
- Helton, J. William (with Spain, P. G.; Young, Nicholas J.). Tracking poles and representing Hankel operators directly from data. **91k:93040**
- Kamenetskii, D. S. (with Tsynkov, S. V.). Numerical generation of conformal grids in the exterior of a bounded simply connected domain based on the method of difference potentials. (Russian. English summary) **91j:65170**
- Koshel', S. M. (with Chekryzhov, S. S.). Approximate determination of zeros of analytic functions. (Not in MR)
- Li, Ping Qian. *see* Wen, Guo Chun, (Not in MR)
- Li, Xie Zhang. *see* Chul, Charles K.; et al., **(91j:41001)**
- Menke, Klaus. Conformal mapping of doubly connected regions. **91d:30010**
- Mikhailchuk, V. G. *see* Vlasnyuk, A. P., **91g:30007**
- Nitache, Joachim A. Finite-element methods for conformal mappings. **91b:30024**
- Radiello, M. V. (with Shukhat, A. A.). A method for constructing asymptotic approximations of roots of power-exponential equations. **91c:30074**
- Schönhage, A. Numerik analytischer Funktionen und Komplexität. [Numerics of analytic functions and complexity] **91h:68094**
- Shen, Zu He (with Wolfe, M. A.). A ball Newton point algorithm for bounding zeros of analytic functions. **91g:65110**
- Shukhat, A. A. *see* Radiello, M. V., **91c:30074**
- Spain, P. G. *see* Helton, J. William; et al., **91k:93040**
- Tsuchiya, Takuya. A note on discrete solutions of the Plateau problem. **91c:49063**
- Tsynkov, S. V. *see* Kamenetskii, D. S., **91j:65170**
- Vlasnyuk, A. P. (with Mikhailchuk, V. G.). Automatic construction of conformal and quasiconformal mappings of quadrangle domains by means of difference grids with "floating" nodes. (Russian) **91g:30007**
- Wang, Ze Ke. A constructive approach to zero distribution of a class of continuous functions. **91f:65108**
- Wegert, Elias. An iterative method for solving nonlinear Riemann-Hilbert problems. **91j:30032**
- Wegmann, Rudolf. Discretized versions of Newton type iterative methods for conformal mapping. **91j:30031**
- Wen, Guo Chun (with Li, Ping Qian). Numerical analysis of nonlinear quasiconformal mappings. (Chinese) (Not in MR)
- Wolfe, M. A. *see* Shen, Zu He, **91g:65110**
- Xiong, Gui Jing. Mathematical foundations of a computational method for the complex function $\text{arccot } Z$. (Chinese) **91h:65035**

- Young, Nicholas J. *see* Helton, J. William; et al., **91k:93040**
- Zhong, Le Fan. *see* Chul, Charles K.; et al., **(91j:41001)**

65Fxx Numerical linear algebra

- Bini, Dario (with Capovani, Milvio; Menchi, Ornella). ★ Metodi numerici per l'algebra lineare. (Italian) [Numerical methods for linear algebra] **91m:65075**
- Björck, Åke. Least squares methods. (see **91f:65001**)
- Capovani, Milvio. *see* Bini, Dario; et al., **91m:65075**
- Menchi, Ornella. *see* Bini, Dario; et al., **91m:65075**
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- (with Plemmons, Robert J.; Sameh, A. H.). Parallel algorithms for dense linear algebra computations. **91d:65224**
- Izmarov, Kh. D. ★ Численные методы для симметричных линейных систем. (Russian) [Numerical methods for symmetric linear systems] **91j:65001**
- Kleibasinski, Andrzej (with Schwetlick, Hubert). ★ Numerische lineare Algebra. (German) [Numerical linear algebra] **91h:65001**
- Plemmons, Robert J. *see* Gallivan, K. A.; et al., **91d:65224** and **(91h:65003)**
- Sameh, A. H. *see* Gallivan, K. A.; et al., **91d:65224** and **(91h:65003)**
- Schwetlick, Hubert. *see* Kleibasinski, Andrzej, **91h:65001**
- (Van Dooren, Paul). *see* Parallel algorithms for numerical linear algebra, **91f:65005**
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65F05 Direct methods for linear systems and matrix inversion

- Ahaffy, József (with Spedicato, Emilio). A class of scaled direct methods for linear systems. **91j:65054**
- Alvoni, Elisabetta. A note on recursive inversion formulas for block Toeplitz-like matrices. **91f:65059**
- Ammar, Gregory (with Gader, Paul D.). A variant of the Gohberg-Semencul formula involving circulant matrices. **91m:65076**
- Beauwens, Robert. Approximate factorizations with S/P consistently ordered M -factors. **91c:65046**
- Bevilacqua, Roberto (with Romani, Francesco; Lotti, Grazia). Parallel inversion of band matrices. (Russian summary) **91h:65057**
- Bischof, Christian H. A parallel QR factorization algorithm with controlled local pivoting. **91f:65055**
- Bochev, P. Simultaneous self-verified computation of $\exp(A)$ and $\int_0^1 \exp(Ax) dx$. (German summary) **91h:65058**
- Bodon, Elena. An algorithm for solving determined or undetermined, full of deficient rank linear systems based upon the optimally conditioned ABS algorithm. **91h:65059**
- Boisvert, Ronald F. Algorithms for special tridiagonal systems. **91m:65077**
- Bowden, Keith. A direct solution to the block tridiagonal matrix inversion problem. **91a:65066**
- Bula, Ján. A method for regularizing the solution of systems of linear algebraic equations. (Russian. English and Slovak summaries) **91a:65067**
- Chu, Eleanor (with George, Alan). QR factorization of a dense matrix on a hypercube multiprocessor. **91g:65059**
- Chun, J. (with Kailath, Thomas). Divide-and-conquer solutions of least-squares problems for matrices with displacement structure. **91m:65078**
- Cosnard, Michel Yves (with Daoudi, El Mostafa; Robert, Yves). Complexity of the parallel Givens factorization on shared memory architectures. **91h:65034**
- Daoudi, El Mostafa. *see* Cosnard, Michel Yves; et al., **91h:65034**
- Demeure, Cédric J. Fast QR factorization of Vandermonde matrices. **91a:65068**
- Deng, Jian Xin (with Xie, Jian Fang). Algorithms and software for solving linear algebraic equations exactly over an integral domain. (Chinese. English summary) **91j:65056a**
- (with Xie, Jian Fang). Algorithms and software for solving linear algebraic equations exactly over an integral domain (continued). (Chinese) **91j:65056b**
- Deprettere, E. F. *see* Jainandansing, K., **91d:65050** and **Nellis, H.; et al., 91k:65062**
- Dewilde, Patrick M. *see* Nellis, H.; et al., **91k:65062**
- Dieci, Luca (with Russell, Robert D.). Some aspects of invariant subspaces computation. **91g:65060**
- Di Lena, Giovanni (with Trigiani, Donato). Stability and spectral properties of incomplete factorization. **91d:65049**
- Döhler, R. Squared Givens rotation. **91m:65079**
- Donescu, Al. The SIMPLEX algorithm with the aid of Gauss-Seidel method. (French and Russian summaries) **91a:65069**
- Fasino, D. Spectral and structural properties of some pentadiagonal symmetric matrices. **91k:65059**
- Fiduccia, Charles M. *see* O'Hallaron, David R., **91m:65081**
- Fleck, R. (with Stummel, F.). Results of a rounding error analysis of the frontal-solution-method (FSM). **91j:65057**
- Foster, Leslie V. The probability of large diagonal elements in the QR factorization. **91k:65060**
- Gader, Paul D. *see* Ammar, Gregory, **91m:65076**
- George, Alan. *see* Chu, Eleanor, **91g:65059**
- Girko, V. L. Asymptotically normal estimates for solutions of systems of linear algebraic equations. I. **91m:65080a**

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- Govaerts, W. (with Pryce, J. D.) Block elimination with one refinement solves bordered linear systems accurately. 91h:65043
- Higham, Nicholas J. Bounding the error in Gaussian elimination for tridiagonal systems. 91f:65060
- (with Schreiber, Robert S.) Fast polar decomposition of an arbitrary matrix. 91g:65061
- Ho, Ching-Tien (with Johnson, S. Lennart) Optimizing tridiagonal solvers for alternating direction methods on Boolean cube multiprocessors. 91a:65070
- Jainandansing, K. (with Deprettere, E. F.) A new class of parallel algorithms for solving systems of linear equations. 91d:65050
- Jiang, Chang Jun (with Wu, Zhe Hui) An optimal algorithm for matrix multiplication. (Not in MR)
- Johnson, S. Lennart see Ho, Ching-Tien, 91a:65070
- Kailath, Thomas see Chun, J., 91m:65078
- Kielbasinski, Andrzej Stability of an elimination algorithm for special classes of matrices. I. (Polish. English summary) 91c:65047
- Klafsky, Emil (with Terlaky, Tamás) The role of the pivot technique in the proof of some fundamental theorems of linear algebra. (Spanish. English summary) 91j:65058
- Krivoshapova, A. N. Reduction of a nonsymmetric matrix to triangular form. (Russian) (see 91k:65008)
- Li, Lei see You, Zhao Yong. (Not in MR)
- Liao, An Ping A class of inverse problems for the matrix equation $AX = B$ and their numerical solution. (Chinese. English summary) 91f:65061
- Lotti, Grazia see Bevilacqua, Roberto; et al., 91f:65057
- Lu, Hao Complexity of inversion of Vandermonde matrices. (Chinese. English summary) 91a:65071
- see also You, Zhao Yong, 91f:65060
- Luo, Liang Sheng see Ouyang, Zi Xiang, 91c:65048
- Martins, M. Madalena A note on the convergence of the MSOR method. 91k:65061
- Neal, Larry see Poole, George, 91m:65084
- Nellis, H. (with Dewilde, Patrick M.; Deprettere, E. F.) Inversion of partially specified positive definite matrices by inverse scattering. 91k:65062
- O'Hallaron, David R. (with Fiduccia, Charles M.) Efficient method for computing double matrix products. 91m:65081
- Ostlyovskii, A. N. ★ Новый устойчивый алгоритм обращения симметричных трехдиагональных матриц. (Russian) [A new stable algorithm for the inversion of symmetric tridiagonal matrices] 91m:65062
- Ouyang, Zi Xiang (with Luo, Liang Sheng) Estimation of the accuracy of calculated inverse matrices. (Chinese summary) 91c:65048
- Paige, C. C. Some aspects of generalized QR factorizations. 91m:65083
- Poole, George (with Neal, Larry) A geometric analysis of Gaussian elimination. I. 91m:65084
- Pryce, J. D. see Govaerts, W., 91h:65043
- Robert, Yves (with Tourancheau, Bernard; Villard, Gilles) Algorithmes de Gauss et de Jordan sur un anneau de processeurs. (English summary) [Gauss and Jordan algorithms on a ring of processors] 91f:65062
- see also Comand, Michel Yves; et al., 91h:65034
- Romani, Francesco see Bevilacqua, Roberto; et al., 91f:65057
- Russell, Robert D. see Dieci, Luca, 91g:65060
- Sander, S. A. Algorithms for solving difference problems in rectangular domains. (Russian) 91c:65049
- Schreiber, Robert S. see Higham, Nicholas J., 91g:65061 and Trefethen, Lloyd N., 91g:65062
- Sheskin, Theodore J. Matrix inversion by augmentation and reduction. (Not in MR)
- Späth, H. Modified Gram-Schmidt for solving linear least squares problems is equivalent to Gaussian elimination for the normal equations. (Not in MR)
- Spedicato, Emilio see Ahaffy, József, 91f:65054
- Stummel, F. see Fleck, R., 91f:65057
- Su, Yang Feng A parallel direct method for solving banded linear equations. (Chinese. English summary) 91a:65072
- Sristanov, S. V. A numerical procedure for determining elliptic hulls of systems of vectors, and results of its study. (Russian. English summary) 91k:65063
- Terlaky, Tamás see Klafsky, Emil, 91j:65058
- Tourancheau, Bernard see Robert, Yves; et al., 91f:65062
- Trefethen, Lloyd N. (with Schreiber, Robert S.) Average-case stability of Gaussian elimination. 91g:65062
- Trigliante, Donato see Di Lena, Giovanni, 91d:65049
- Vassilevski, P. S. On some ways of approximating inverses of banded matrices in connection with deriving preconditioners based on incomplete block factorizations. (German summary) 91a:65073
- Villard, Gilles see Robert, Yves; et al., 91f:65062
- Wang, Guo Rang¹ The Moore-Penrose inverses of upper bidiagonal matrices, and a parallel algorithm for them. (Chinese. English summary) 91h:65044
- Wang, Shou Gen see Xu, Lan, 91a:65074
- White, R. E. Multisplitting of a symmetric positive definite matrix. 91k:65064
- Wu, Zhe Hui see Jiang, Chang Jun, (Not in MR)
- Xie, Jian Fang see Deng, Jian Xin, 91j:65056a and 91j:65056b
- Xie, Zan Fu An algorithm for solving a family of systems of linear equations. (Chinese) (Not in MR)
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- Yang, Xue Rong (with Zhang, Zhi Nan) Estimates of $\|B^{-1}A\|$. I. (Chinese. English summary) 91m:65085
- You, Zhao Yong (with Li, Lei) A parallel algorithm for generalized U -decomposition. (Chinese. English summary) (Not in MR)
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- Zhang, Zhi Nan see Yang, Xue Rong, 91m:65085
- Zhao, Shu Qin A method of solving a special class of tridiagonal systems of equations. (Chinese. English summary) (Not in MR)
- Zhou, Rong Fu Pivot estimation for Gaussian elimination. (Chinese. English summary) 91m:65086

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- Ajiz, Manzur Ali Implementation of Gram-Schmidt triangularization method using sequential column pointer data structure. 91k:65074
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- Bruguera, J. D. see Rivera, F. F.; et al., (Not in MR)
- Chun, J. (with Kailath, Thomas) Displacement structure for Hankel- and Vandermonde-like matrices. 91d:15043
- Doallo, R. see Rivera, F. F.; et al., (Not in MR)
- Domich, Paul D. Residual Hermite normal form computations. 91d:15020
- Elstratidis, Serafim N. see Katsaggelos, Angelos K., 91f:94006
- Elhay, Sylvan (with Golub, Gene H.; Kautsky, Jaroslav) Updating and downdating of orthogonal polynomials with data fitting applications. 91m:65054
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- Gasca, Mariano (with Peña, Juan Manuel) Neville elimination and total positivity. (Spanish) (see 91m:00014)
- Golub, Gene H. see Elhay, Sylvan; et al., 91m:65054
- Gould, Nicholas I. M. see Saff, I. S.; et al., (91k:65011)
- Igamberdyev, Kh. Z. see Mannapov, N. N.; et al., 91c:65063
- Kailath, Thomas see Chun, J., 91d:15043
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- Kautsky, Jaroslav see Elhay, Sylvan; et al., 91m:65054
- König, Jean-Claude (with Trystram, Denis) Ordonnancement du graphe à deux pas pour le calcul parallèle. (English summary) [Scheduling algorithms on the 2-step graph for parallel computations] 91f:65229
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- Lescrenier, M. see Saff, I. S.; et al., (91k:65011)
- Lifanov, I. K. (with Tyrtshnikov, E. E.) Toeplitz matrices and singular integral equations. (Russian. English summary) 91m:65332
- Likhoded, N. A. see Kos'yanchuk, V. V., (Not in MR)
- Louka, Basile (with Tchente, Maurice) Triangular matrix inversion on systolic arrays. 91g:65002
- Mannapov, N. N. (with Zakhidov, B. A.; Igamberdyev, Kh. Z.) An estimate for a regularization parameter in ill-posed inverse problems. (Russian) 91c:65063
- Milovanović, Emina I. see Milovanović, Igor Ž.; et al., (Not in MR)
- Milovanović, Igor Ž. (with Milovanović, Emina I.; Stojčev, Mile K.) An optimal algorithm for Gaussian elimination of band matrices on a MIMD computer. (Not in MR)
- Peña, Juan Manuel see Gasca, Mariano, (91m:00014)
- Pereyra, V. see Wright, Stephen Joseph, 91a:65208
- Peskin, R. see Rivera, F. F.; et al., (Not in MR)
- Reid, J. K. see Saff, I. S.; et al., (91k:65011)
- Riset, Taougy Implementing Gaussian elimination on a matrix-matrix multiplication systolic array. (Not in MR)
- Rivera, F. F. (with Doallo, R.; Bruguera, J. D.; Zapata, E. L.; Peskin, R.) Gaussian elimination with pivoting on hypercubes. (Not in MR)
- Rose, Donald J. see Bank, Randolph E., 91f:65085
- Rycerz, Anna Operations that preserve the integer rounding property of linear inequality systems. 91k:90126
- Simonenko, I. B. see Abramyan, M. E., 91k:65055
- Stojčev, Mile K. see Milovanović, Igor Ž.; et al., (Not in MR)
- Strakhov, V. N. Stable methods for solving linear problems in geophysics. I. Formulations and fundamental constructive ideas. (Russian) 91m:86012
- Stable methods for solving linear problems in geophysics. II. Fundamental algorithms. (Russian) 91m:86013
- Suff, I. S. (with Gould, Nicholas I. M.; Lescrenier, M.; Reid, J. K.) The multifrontal method in a parallel environment. (see 91k:65011)
- Tchente, Maurice see Louka, Basile, 91g:65002
- Trystram, Denis see König, Jean-Claude, 91f:65229
- Tyrtshnikov, E. E. see Lifanov, I. K., 91m:65332
- Wright, Stephen Joseph (with Pereyra, V.) Adaptation of a two-point boundary value problem solver to a vector-multiprocessor environment. 91a:65208
- Zakhidov, B. A. see Mannapov, N. N.; et al., 91c:65063
- Zapata, E. L. see Rivera, F. F.; et al., (Not in MR)

65F10 Iterative methods for linear systems [see also 65N22]

- Abu-Shumays, I. K. Incomplete block cyclic reduction as a preconditioner for polynomial iterative methods. 91k:65065
- Adams, Loyce M. Fourier analysis of two-level hierarchical basis preconditioners. (see 91f:65071)
- Akğil, Mustafa On the exact solution of a system of linear homogeneous equations via a projective algorithm. 91f:65061
- Akimova, E. N. ★ Об устойчивости расщепления немонотонной прогонки. (Russian) [On the stability of parallelization of nonmonotone double sweep] 91c:65050
- Altman, Tom A method of inexact steepest descent for systems of linear equations. 91a:65075
- Aradovskii, M. M. see Tsatskin, M. L., (91m:00013)
- Aras, Erment see Ponnappalli, Salla; et al., 91j:65062
- Ashby, Steven F. (with Mantuffel, Thomas A.; Saylor, Paul E.) A taxonomy for conjugate gradient methods. 91f:65062

- Axelsson, Owe (with Eijkhout, V.; Polman, B.; Vassilevski, P. S.) Incomplete block-matrix factorization iterative methods for convection-diffusion problems. 91d:65051
— (with Vassilevski, P. S.) A survey of multilevel preconditioned iterative methods. 91k:65066
- (with Vassilevski, P. S.) Algebraic multilevel preconditioning methods. I. 91c:65023
— An algebraic framework for hierarchical basis functions multilevel methods or the search for "optimal" preconditioners. (see 91f:65071)
- Bank, Randolph E. (with Welfert, Bruno D.; Yserentant, Harry) A class of iterative methods for solving saddle point problems. 91b:65035
- Barragy, E. see Carey, Graham F., 91k:65067
- Baumeister, J. On the adaptive solution of inconsistent systems of linear equations. 91a:65076
- Bi, He Ping see Yuan, Zhao Ding; et al., 91d:65057
- Birkhoff, Garrett (with Lynch, Robert E.) ELLPACK and ITPACK as research tools for solving elliptic problems. (see 91f:65071)
- Björck, Åke Iterative refinement and reliable computing. 91m:65087
- Block, U. (with Frommer, Andreas; Mayer, Günter) Block colouring schemes for the SOR method on local memory parallel computers. 91g:65063
- Brown, John J. Extensions of SSOR. 91b:65045
- Cao, Zhi Hao Polynomial acceleration methods for symmetric positive semidefinite systems. (Chinese. English summary) 91f:65063
- Carey, Graham F. (with Barragy, E.) Basis function selection and preconditioning high degree finite element and spectral methods. 91k:65067
- Casella, George see Piegorsch, Walter W., (Not in MR)
- Chen, Benito C. (with Onoda, Mahoki) Array architecture for solving a large-scale linear system of equations by block iterative method and high-speed approach. (Not in MR)
- Cheng, Li Zhi A fast algorithm for characteristic problems for a class of tridiagonal matrices. (Chinese) 91b:65046
- Chou, So-Hsiang (with Porching, T. A.) Contraction numbers for additive correction methods. 91m:65088
- Concus, Paul (with Saylor, Paul E.) Preconditioned iterative methods for indefinite symmetric Toeplitz systems. (see 91f:65071)
- Cvetković, Ljiljana (with Herceg, Dragoslav) On the method of averaging functional corrections applied to linear systems. (Serbo-Croatian summary) 91a:65078
— (with Herceg, Dragoslav) A modification of the overrelaxation method. 91a:65077
— (with Herceg, Dragoslav) Some sufficient conditions for the convergence of the method of averaging functional corrections. 91a:65079
- Dax, Achya On hybrid acceleration of a linear stationary iterative process. 91f:65063
— A note on the convergence of linear stationary iterative processes. 91j:65059
- Dixon, L. C. W. Parallel iterative methods for solving large sparse sets of linear equations. (see 91m:65006)
- Dryja, Maksymilian (with Widlund, Olof B.) On the optimality of an additive iterative refinement method. 91f:65064
— (with Widlund, Olof B.) Some domain decomposition algorithms for elliptic problems. (see 91f:65071)
- Ehrlich, L. W. A local relaxation scheme (ad-hoc SOR) applied to nine point and block difference equations. (see 91f:65071)
- Eiermann, Michael (with Reichel, Lothar) On the application of orthogonal polynomials to the iterative solution of singular linear systems of equations. 91m:65089
— (with Niethammer, Wilhelm; Rutten, Arden) Optimal successive overrelaxation iterative methods for p -cyclic matrices. 91m:65090
- Eijkhout, V. see Axelsson, Owe; et al., 91d:65051
- Eisenstat, Stanley C. (with Ortega, James M.; Vaughan, C. T.) Efficient polynomial preconditioning for the conjugate gradient method. 91f:65064
- Elman, Howard C. (with Golub, Gene H.) Block iterative methods for cyclically reduced nonselfadjoint elliptic problems. (see 91f:65071)
— (with Golub, Gene H.) Iterative methods for cyclically reduced nonselfadjoint linear systems. 91b:65036
— (with Golub, Gene H.) Iterative methods for cyclically reduced nonselfadjoint linear systems. II. 91c:65051
- Eisner, Ludwig Comparisons of weak regular splittings and multisplitting methods. 91b:65037
- Erëmin, A. Yu. see Kolotilina, L. Yu., 91d:65054
- Evans, David J. (with Li, Chang Jun) The use of the generalized conjugate gradient method for unsymmetric systems of linear equations possessing "Property A". 91c:65052
— (with Li, Chang Jun) The $D^{1/2}$ -norm of the SOR and cyclic Chebyshev semi-iterative (CCSI) methods for a class of nonsymmetric matrices. 91b:65047
— see also Yousif, W. S., 91b:65050 and Levin, Matthew Daniel, (91c:00029)
- Ewing, Richard E. Preconditioned conjugate gradient methods for large-scale fluid flow applications. 91d:65052
- Fiala, Tibor On the monotonicity of incomplete factorization. 91g:65065
- Fleming, Henry E. Equivalence of regularization and truncated iteration in the solution of ill-posed image reconstruction problems. 91f:65064
- Freund, Roland Wilhelm On conjugate gradient type methods and polynomial preconditioners for a class of complex non-Hermitian matrices. 91m:65091
- Frommer, Andreas see Block, U.; et al., 91g:65063
- Galanis, S. (with Hadjidimos, Apostolos; Noutsos, D.) Optimum first and second order extrapolations of successive overrelaxation type methods for certain classes of matrices. 91a:65080
— (with Hadjidimos, Apostolos; Noutsos, D.) On an SSOR matrix relationship and its consequences. 91a:65081
- Gander, Walter (with Golub, Gene H.; Gruntz, Dominik) Solving linear equations by extrapolation. 91j:65060
- Gao, Yi Ming Convergence criteria for the Jacobi and Gauss-Seidel iterative methods. (Chinese. English summary) 91g:65066
- Golub, Gene H. (with de Pillis, John E.) Toward an effective two-parameter SOR method. (see 91f:65071)
— see also Elman, Howard C., 91b:65036; 91c:65051; Gander, Walter; et al., 91j:65060 and Elman, Howard C., (91f:65071)
- Gruntz, Dominik see Gander, Walter; et al., 91j:65060
- Gutknecht, Martin H. Iterative methods for linear systems of equations designed via complex rational approximation. (see 91j:41001)
- Hadjidimos, Apostolos (with Noutsos, D.) The Young-Eidson algorithm: applications and extensions. 91g:65067
— see also Galanis, S.; et al., 91a:65080; 91a:65081 and Pierce, Daniel J.; et al., 91d:65056
- Hageman, Louis A. Relaxation parameters for the IQE iterative procedure for solving semi-implicit Navier-Stokes difference equations. (see 91f:65071)
- Hanke, Martin On cyclic k -step iterative methods. 91g:65068
— (with Niethammer, Wilhelm) On the acceleration of Kaczmarz's method for inconsistent linear systems. 91f:65065
— (with Neumann, Michael) Preconditionings and splittings for rectangular systems. 91d:65053
- Harrar, David L., II (with Ortega, James M.) Solution of three-dimensional generalized Poisson equations on vector computers. (see 91f:65071)
- (Hayes, Linda J.) see Iterative methods for large linear systems, 91f:65071
- Herceg, Dragoslav see Cvetković, Ljiljana, 91a:65077; 91a:65078 and 91a:65079
- Huang, De Cai (with Wen, Jia Bao) A discussion on the convergence domain of the TOR method for solving a large sparse least squares problem. (Chinese. English summary) 91j:65061
- Hübner, Otto Optimal real parameters for the MSOR method in the case of complex eigenvalues. 91f:65065
- Hughes, Thomas J. R. see Shakib, Farzin; et al., 91f:65070
- James, Douglas (with Plemmons, Robert J.) An iterative substructuring algorithm for equilibrium equations. 91f:65066
- Jing, Wu Xing (with Wu, Yao Hua²; Wang, Xue Xiao) An iterative method for solving arbitrary systems of linear equations. (Chinese. English summary) 91b:65048
- Johan, Zdeněk see Shakib, Farzin; et al., 91f:65070
- Joubert, Wayne D. (with Manteuffel, Thomas A.) Iterative methods for nonsymmetric linear systems. (see 91f:65071)
- Kaasschiet, E. F. A general finite element preconditioning for the conjugate gradient method. 91c:65024
- Kielbasinski, Andrzej Iterative refinement of solutions of linear least squares problems computed by an algorithm of normal equations. (Polish. English summary) 91a:65082 (Kincaid, David R.) see Iterative methods for large linear systems, 91f:65071
- Klousis, Panos D. see Roditis, Yanis S., 91a:65086
- Knyazev, Andrei Vladimirovich (with Skorokhodov, A. L.) ★ Модифицированные итерационные методы в подпространстве для решения систем уравнений со знакоопределенными матрицами и спектральных задач. (Russian) [Modified iterative methods in a subspace for solving systems of equations, with matrices without fixed sign, and spectral problems] 91a:65083
- Kolotilina, L. Yu. (with Erëmin, A. Yu.) Block SSOR preconditionings for high order 3D FE systems. 91d:65054
- Koltracht, Israel (with Lancaster, Peter) Constraining strategies for linear iterative processes. 91f:65066
- Lancaster, Peter see Koltracht, Israel, 91f:65066
- Lang, Wilgard Some algebraic aspects of multigrid methods. (see 91k:65007)
- Le, Jian see Parlett, Beresford N., (91m:65005)
- Lebedev, V. I. (with Zabelin, V. V.) ★ Об одном итерационном алгоритме с чебышевскими параметрами. (Russian) [An iterative algorithm with Chebyshev parameters] 91c:65025
- Levin, Matthew Daniel (with Evans, David J.) The performance of iterative schemes involving matrix-matrix products on the DAP. (see 91c:00029)
- Li, Bo Hu see Yuan, Zhao Ding; et al., 91d:65057
- Li, Chang Jun see Evans, David J., 91c:65052 and 91b:65047
- Li, Xie Zhang (with Varga, Richard S.) A note on the SSOR and USSOR iterative methods applied to p -cyclic matrices. 91b:65038
— (with Varga, Richard S.) A note on the SSOR and USSOR iterative methods applied to p -cyclic matrices. (see 91f:65071)
- Liu, De Gui see Yuan, Zhao Ding; et al., 91d:65057
- Liu, Guang Rong Optimum relaxation factors of SOR methods for inconsistently ordered three-cyclic matrices. (Chinese. English summary) 91f:65067
— P -cyclic matrices and an accelerated overrelaxation method. (Chinese. English summary) 91f:65068
- Liu, Xing Ping Generalized preconditioned iterative methods. (Chinese. English summary) 91f:65069
- Lynch, Robert E. Hodge approximation of boundary conditions. (see 91f:65071)
— see also Birkhoff, Garrett, (91f:65071)
- Mai, Tsun-Zee (with Young, David M., Jr.) A dual adaptive procedure for the automatic determination of iteration parameters for Chebyshev acceleration. 91a:65084
— see also Young, David M., Jr., (91f:65071)
- Manteuffel, Thomas A. see Ashby, Steven F.; et al., 91b:65062 and Joubert, Wayne D., (91f:65071)
- Marinescu, D. C. (with Rice, John Rischard) Multi-level asynchronous iteration for PDEs. (see 91f:65071)
- Martins, M. Madalena (with Trigo, M. Estela) Convergence conditions for the GAOR method. (see 91j:00015)
- Mayer, Günter see Block, U.; et al., 91g:65063
- Mooren, Marc (with Vandewalle, Joos) Recursive least squares with stabilized inverse factorization. (French and German summaries) 91f:65067
- Neumann, Michael see Hanke, Martin, 91f:65065 and Eiermann, Michael; et al., 91m:65090
- Niethammer, Wilhelm (with Varga, Richard S.) Relaxation methods for non-Hermitian linear systems. 91g:65069
— see also Hanke, Martin, 91f:65065 and Eiermann, Michael; et al., 91m:65090
- Noutsos, D. see Galanis, S.; et al., 91a:65080; 91a:65081 and Hadjidimos, Apostolos, 91g:65067
- Onoda, Mahoki see Chen, Benito C., (Not in MR)
- Ortega, James M. see Eisenstat, Stanley C.; et al., 91b:65036 and Harrar, David L., II, (91f:65071)
- Pan, Victor Fast and efficient parallel inversion of Toeplitz and block Toeplitz matrices. 91d:65055

- Parlett, Beresford N. (with Le, Jian) QR; its forward instability and failure to converge. (see 91m:65005)
- Piegorsch, Walter W. (with Casella, George) Erratum. Inverting a sum of matrices: "The early use of matrix diagonal increments in statistical problems" [SIAM Rev. 31 (1989), no. 3, 428-434; MR 90g:65044]. (Not in MR)
- Pierce, Daniel J. (with Hadjidimos, Apostolos; Plemmons, Robert J.) Optimality relationships for p -cyclic SOR. 91d:65056
- de Pillis, John E. see Golub, Gene H., 91f:65071
- Plemmons, Robert J. see Pierce, Daniel J.; et al., 91d:65056 and James, Douglas, 91f:65066
- Polman, B. see Axelsson, Owe; et al., 91d:65051
- Ponnappalli, Salla (with Sarkar, Tapan K.; Arvas, Ercument) Application of conjugate gradient method and FFT to electromagnetics and signal processing problems. 91j:65062
- Popa, Constantin On smoothing properties of SOR relaxation for algebraic multigrid method. 91a:65085
- Porsching, T. A. see Chou, So-Hsiang, 91m:65088
- Präger, Milan An iterative method of alternating type for systems with special block matrices. (Czech summary) 91k:65068
- Ramasetha, S. A new algorithm for solving large inhomogeneous linear system of algebraic equations. (Not in MR)
- Reichel, Leithar see Eiermann, Michael, 91c:65089
- Rice, John Richard see Marinescu, D. C., 91f:65071
- Roditis, Yanis S. (with Kioussis, Panos D.) Parallel multisplitting, block Jacobi type solutions of linear systems of equations. 91a:65086
- Rottan, Arden see Eiermann, Michael; et al., 91m:65090
- Saridakis, Yiannis G. Domains of divergence of the USSOR method applied on p -cyclic matrices. 91g:65070
- Sarkar, Tapan K. see Ponnappalli, Salla; et al., 91j:65062
- Saylor, Paul E. An adaptive algorithm for Richardson's method. (see 91f:65071)
- see also Ashby, Steven F.; et al., 91i:65062 and Concus, Paul, 91f:65071
- Shakh, Farzin (with Hughes, Thomas J. R.; Johan, Zdeněk) Element-by-element algorithms for nonsymmetric matrix problems arising in fluids. 91f:65070
- Shen, Guang Xing Domains of convergence of the 2-block AOR method for least-squares problems. (Chinese. English summary) 91i:65068
- Šisler, Miroslav Beitrag zu mehrparametrischen Iterationsverfahren für spezielle lineare Gleichungssysteme. (Russian and Czech summaries) [Contribution to multiparameter iteration methods for special systems of linear equations] 91h:65039
- Über die Verallgemeinerung eines gewissen Iterationsverfahrens für die Lösung spezieller linearer algebraischer Gleichungssysteme. (Russian and Czech summaries) [On the generalization of a certain iteration method for the solution of special linear systems of algebraic equations] 91h:65040
- Über ein mehrparametrisches Iterationsverfahren für lineare algebraische Gleichungssysteme. (Czech summary) [On a multiparameter iteration method for systems of linear algebraic equations] 91m:65092
- Über die Konvergenz eines symmetrischen Iterationsverfahrens für lineare Gleichungssysteme. (Czech summary) [On the convergence of a symmetric iteration method for systems of linear equations] 91m:65093
- Skorokhodov, A. L. ★ Модифицированные методы итераций подпространства в подпространстве для решения частных спектральных задач. (Russian) [Modified iterative methods for subspaces in a subspace for solving partial spectral problems] 91h:65049
- see also Knyazev, Andrei Vladimirovich, 91a:65083
- Skripnik, V. P. A degenerate parameter and convergence in L^2 . (Russian) 91m:65094
- van der Sluis, A. (with van der Vorst, Henk A.) SIRT- and CG-type methods for the iterative solution of sparse linear least-squares problems. 91m:65095
- Stewart, G. W. An iterative method for solving linear inequalities. (see 91k:65011)
- Tarasov, R. P. Calculation of functions in the algebra of triangular Toeplitz matrices, and the numerical inversion of the Laplace transform. (Russian) 91m:65096
- Trefethen, Lloyd N. Approximation theory and numerical linear algebra. 91j:65063
- Trigo, M. Estela see Martins, M. Madalena, 91j:65015
- Tsatskin, M. L. (with Aradovskii, M. M.) A recurrent QR-algorithm. (Russian) (see 91m:65013)
- Vandewalle, Joos see Moonen, Marc, 91f:65067
- Varga, Richard S. see Li, Xie Zhang, 91b:65038; Niethammer, Wilhelm, 91g:65069 and Li, Xie Zhang, 91f:65071
- Vassilevski, P. S. see Axelsson, Owe, 91c:65023; 91d:65051 and 91k:65066
- Vanham, C. T. see Eisenstat, Stanley C.; et al., 91g:65064
- van der Vorst, Henk A. see van der Sluis, A., 91m:65095
- Wachspress, Eugene L. The ADI minimax problem for complex spectra. (see 91f:65071)
- Wang, Xue Xiao see Jing, Wu Xing; et al., 91h:65048
- Wei, Zhi Hui (with Zhou, Rong Fu) Numerical stability of the SSOR method. (Chinese. English summary) 91i:65069
- Welfert, Bruno D. see Bank, Randolph E.; et al., 91h:65035
- Wen, Jia Bao see Huang, De Cai, 91f:65061
- Widlund, Olof B. see Dryja, Maksymilian, 91f:65064 and 91f:65071
- Wu, Chang Hui A multicolor SOR method for the finite-element method. (Not in MR)
- Wu, Yao Hua? see Jing, Wu Xing; et al., 91h:65048
- Young, David M., Jr. (with Mai, Tsun-Zee) The search for omega. (see 91f:65071)
- see also Mai, Tsun-Zee, 91a:65084
- Yousif, W. S. (with Evans, David J.) The AGE method and its variants. 91h:65050
- Yorresant, Harry see Bank, Randolph E.; et al., 91h:65035
- Yuan, Jin Yun (with Zhou, Rong Fu) The Ostrowski-Reich theorem for the generalized TOR method. (Chinese. English summary) 91i:65070
- Yuan, Zhao Ding (with Liu, De Gui; Li, Bo Hu; Bi, He Ping) The convergence of an asynchronous parallel iteration method for solving linear and nonlinear algebraic equations. (Chinese. English summary) 91f:65057
- Zabelin, V. V. see Lebedev, V. I., 91c:65025
- Zhan, Xin He (with Zhang, Shu Yuan) On the convergence of Gauss-Seidel iteration. (Chinese. English summary) (Not in MR)
- Zhang, Shu Yuan see Zhan, Xin He, (Not in MR)
- Zhou, Rong Fu see Wei, Zhi Hui, 91i:65069 and Yuan, Jin Yun, 91i:65070
- Items listed otherwise than by author
- Austin, TX ★ Iterative methods for large linear systems. 91f:65071
- Conference:
- Iterative Methods for Large Linear Systems ★ Iterative methods for large linear systems. 91f:65071
- Iterative methods for large linear systems ★ Iterative methods for large linear systems. 91f:65071
- Items with secondary classifications in 65F10
- Al-Tawaig, M. A two-term iterative solution scheme for linear sparse systems. 91a:65110
- Bennani, Maria see Ho, Diem; et al., 91a:65089
- Bhaya, A. see Kaszkurewicz, E.; et al., 91g:65324
- Bierlaire, M. (with Toint, Philippe L.; Tuytens, D.) On iterative algorithms for linear least squares problems with bound constraints. 91j:65109
- Bodon, Elena An algorithm for solving determined or undetermined, full of deficient rank linear systems based upon the optimally conditioned ABS algorithm. 91i:65059
- Brenner, Susanne C. A nonconforming multigrid method for the stationary Stokes equations. 91d:65167
- Brú, Rafael (with Fuster Capilla, Robert) Parallel chaotic extrapolated Jacobi method. (Not in MR)
- Chan, Tony F. Fourier analysis of relaxed incomplete factorization preconditioners. 91k:65138
- see also Kuo, C.-C. Jay, 91g:65225
- Chaparro, L. F. see Lu, Hong-Qian, 91b:93027
- Chatelin, Françoise see Ho, Diem; et al., 91a:65089
- Dinh Quang Thai (with Monastyrnyi, P. I.; Nguen Fyong Mai) Lowering the order of systems of difference equations in multiple difference shooting algorithms, and some of their properties. (Russian) 91d:65214
- Evans, David J. see Margaritis, K. G., 91f:65002
- Faber, V. (with Manteuffel, Thomas A.; Parter, Seymour V.) On the theory of equivalent operators and application to the numerical solution of uniformly elliptic partial differential equations. 91f:65164
- Felgenhauer, Andreas On the isotonicity of iterative difference schemes for elliptic problems. 91c:65067
- Fuster Capilla, Robert see Brú, Rafael, (Not in MR)
- Gallichio, Elisabeta see Ruiz-Clayssens, Julio Cesar; et al., 91c:34014
- Galligani, E. see Ruggiero, Valeria, 91f:65088
- Goldstein, Charles I. Multigrid analysis of finite element methods with numerical integration. 91h:65190
- Govaerts, W. (with Pryce, J. D.) Block elimination with one refinement solves bordered linear systems accurately. 91h:65043
- Guljaš, Boris Some convergence properties of rank-one quasi-Newton methods. (Serbo-Croatian summary) 91a:65138
- Herter, Rainer Einführung in Mehrgitterverfahren. [Introduction to multigrid methods] 91c:65076
- Herzberger, Jürgen (with Petković, L. D.) Efficient iterative algorithms for bounding the inverse of a matrix. (German summary) 91f:65092
- Ho, Diem Tchebychev acceleration technique for large scale nonsymmetric matrices. 91c:65095
- (with Chatelin, Françoise; Bennani, Maria) Arnoldi-Tchebychev procedure for large scale nonsymmetric matrices. (French summary) 91a:65089
- Ilin, V. P. (with Kuznetsov, I. B.; Pinkina, N. A.) ★ Исследование устойчивости параллельных алгоритмов решения рекурсивных задач на примере метода прогонки. (Russian) [Investigation of the stability of parallel algorithms for the solution of recurrence problems on the example of the double sweep method] 91f:65153
- Kaszkurewicz, E. (with Bhaya, A.; Šiljak, Dragoslav D.) On the convergence of parallel asynchronous block-iterative computations. 91g:65324
- Kuo, C.-C. Jay (with Chan, Tony F.) Two-color Fourier analysis of iterative algorithms for elliptic problems with red/black ordering. 91g:65225
- Kuznetsov, I. B. see Ilin, V. P.; et al., 91f:65153
- Larimore, Wallace E. Order-recursive factorization of the pseudoinverse of a covariance matrix. 91k:93026
- Lu, Hong-Qian (with Chaparro, L. F.) Recursive solution and stability conditions for 2-D least-squares modeling and stabilization problems. 91b:93027
- Mandel, Jan Iterative solvers by substructuring for the p -version finite element method. 91g:73062
- Manteuffel, Thomas A. see Faber, V.; et al., 91f:65164
- Margaritis, K. G. (with Evans, David J.) Systolic networks for iterative methods for linear equations using cyclic reduction. (Russian summary) 91f:65002
- Monastyrnyi, P. I. see Dinh Quang Thai; et al., 91d:65214
- Nevanlinna, Olavi Remarks on Picard-Lindelöf iteration. I. 91b:65087
- Remarks on Picard-Lindelöf iteration. II. 91b:65088
- Nguen Fyong Mai see Dinh Quang Thai; et al., 91d:65214
- O'Neill, James (with Szyld, Daniel B.) A block ordering method for sparse matrices. 91f:65087
- Parter, Seymour V. see Faber, V.; et al., 91f:65164
- Petković, L. D. see Herzberger, Jürgen, 91f:65092
- Pinkina, N. A. see Ilin, V. P.; et al., 91f:65153
- Pryce, J. D. see Govaerts, W., 91h:65043
- Rohn, Jiri Systems of linear interval equations. 91k:65080
- Ruggiero, Valeria (with Galligani, E.) An iterative method for large sparse linear systems on a vector computer. 91f:65088
- Ruiz-Clayssens, Julio Cesar (with Gallichio, Elisabeta; Vilhena, Marco Tulio) Inversion of higher-order matrix difference and differential equations through their dynamical solutions. 91c:34014
- Šiljak, Dragoslav D. see Kaszkurewicz, E.; et al., 91g:65324
- Slepnev, A. G. On the acceleration of the convergence of linear iterations. (Russian) 91d:65005
- On the acceleration of the convergence of linear iteration. II. (Russian) 91h:65005
- Szyld, Daniel B. see O'Neill, James, 91f:65087

- Toint, Philippe L. *see* Bierlaire, M.; et al. 91j:65109
 Tuytens, D. *see* Bierlaire, M.; et al. 91j:65109
 Vassilevski, P. S. On some ways of approximating inverses of banded matrices in connection with deriving preconditioners based on incomplete block factorizations. (German summary) 91a:65073
 Vilhena, Marco Tulio *see* Ruiz-Claesysen, Julio Cesar; et al. 91c:34014
 Zhang, Shangyou Optimal-order nonnested multigrid methods for solving finite element equations. I. On quasi-uniform meshes. 91g:65268
 — Optimal-order nonnested multigrid methods for solving finite element equations. II. On nonquasiuniform meshes. 91g:65269

65F15 Eigenvalues, eigenvectors

- Alt, René (with Blondel, J. L.) An additive decomposition method for the eigenvalue problem. (see 91c:00029)
 Andrew, Alan L. Eigenvalues and singular values of certain random matrices. 91f:65072
 Ashbaugh, Mark S. (with Benguria, Rafael D.) Some eigenvalue inequalities for a class of Jacobi matrices. 91m:65097a
 — (with Benguria, Rafael D.) Addendum: "Some eigenvalue inequalities for a class of Jacobi matrices". 91m:65097b
 Barlow, Jesse L. (with Demmel, James) Computing accurate eigensystems of scaled diagonally dominant matrices. 91g:65071
 Beelen, Theo (with Van Dooren, Paul) Computational aspects of the Jordan canonical form. 91m:65098
 Beex, A. A. *see* Fargues, Monique P. 91m:65103
 Béliveau, J. G. *see* Marcos, B. 91a:65091
 Benguria, Rafael D. *see* Ashbaugh, Mark S. 91m:65097a and 91m:65097b
 Bennani, Maria *see* Ho, Diem; et al. 91a:65089
 Bittner, Leonhard An eigenvalue problem of the theory of ARMA models and multistep iteration procedures. (see 91m:65005)
 Blech, Joab J. *see* Ram, Yitsak M.; et al. 91f:65073
 Blondel, J. L. *see* Alt, René. (91c:00029)
 Bohte, Zvonimir Computable error bounds for approximate eigensystems of matrices. (Slovenian summary) 91m:65099
 Braun, Simon G. *see* Ram, Yitsak M.; et al. 91f:65073
 Brunet, Marie-Christine *see* Chatelin, Françoise. 91m:65100
 Bunch, K. J. (with Grow, R. W.) A technique to shift an eigenvalue of a complex matrix to accelerate convergence of the power and inverse power method. (Not in MR)
 Buslaev, A. P. Nonlinear spectra of matrices and extremal problems. (Russian) 91h:65051
 Cai, Da Yong (with Hong, Jing) A new algorithm for the eigenvalue problem of matrices. 91i:65071
 Chatelin, Françoise (with Brunet, Marie-Christine) A probabilistic round-off error propagation model. Application to the eigenvalue problem. 91m:65100
 — *see also* Ho, Diem; et al. 91a:65089
 Chen, Jiang He Block generalized diagonally dominant matrices and convergence of block matrix iterations. (Chinese. English summary) 91a:65087
 Chen, Kang Ping (with Joseph, Daniel D.) Application of the singular value decomposition to the numerical computation of the coefficients of amplitude equations and normal forms. 91m:65101
 Chu, King-wah Eric On multiple eigenvalues of matrices depending on several parameters. 91f:65064
 Chu, Moody T. Solving additive inverse eigenvalue problems for symmetric matrices by the homotopy method. 91j:65065
 — (with Driessel, Kenneth R.) The projected gradient method for least squares matrix approximations with spectral constraints. 91f:65073
 Dai, Hua Inverse eigenvalue problems for periodic Jacobi matrices. (Chinese. English summary) 91h:65041
 — The construction of periodic Jacobi matrices from spectral data. (Chinese. English summary) 91c:65026
 — *see also* He, Xu Chu. 91c:65054
 (Dailey, R. Lane) *see* Mills-Curran, William C. 91m:65109
 Delf, A. S. Realistic a priori and a posteriori error bounds for computed eigenvalues. 91j:65066
 — Singular values of an interval matrix. 91m:65102
 Demmel, James (with Kahan, W.) Accurate singular values of bidiagonal matrices. 91i:65072
 — *see also* Barlow, Jesse L. 91g:65071
 Deng, Cheng Ming *see* Yang, Wan Nian. 91c:65029
 Driessel, Kenneth R. *see* Chu, Moody T. 91f:65073
 Elsner, Ludwig *see* Watkins, D. S. 91m:65114
 Fargues, Monique P. (with Beex, A. A.) Fast order-recursive generalized Hermitian Toeplitz eigenspace decomposition. 91m:65103
 Fedorov, F. I. Three-dimensional perturbation theory. (Russian. English summary) 91a:65088
 Garus, Rainer (with Küpper, Tassilo) Computation of the smallest positive eigenvalue of a quadratic λ -matrix. 91h:65069
 Geist, George A. Reduction of a general matrix to tridiagonal form. 91m:65104
 Gill, Doron (with Tadmor, Eitan) An $O(N^2)$ method for computing the eigensystem of $N \times N$ symmetric tridiagonal matrices by the divide and conquer approach. 91d:65058
 Godunov, S. K. Criteria for the convergence of orthogonal-power methods of the spectral analysis of matrices. (Russian) 91a:65053
 Gragg, W. B. (with Reichel, Lothar) A divide and conquer method for unitary and orthogonal eigenproblems. 91h:65052
 Grow, R. W. *see* Bunch, K. J. (Not in MR)
 Gupta, Kajal K. *see* Lawson, Charles L. 91m:65107
 Hari, V. *see* Veselić, K. 91a:65098
 He, Chun Yan *see* Sun, Gui Lan. 91a:65097
 He, Chun Yang On estimating the least singular value of a matrix. 91c:65027
 He, Xu Chu (with Dai, Hua) Sufficient conditions for the solubility of the multiplicative inverse eigenvalue problem. 91a:65054
 Ho, Diem Eigensolutions to large nonsymmetric matrices by Arnoldi-Tchebychev. (see 91c:00029)
 — Tchebychev acceleration technique for large scale nonsymmetric matrices. 91d:65059
 — (with Chatelin, Françoise; Bennani, Maria) Arnoldi-Tchebychev procedure for large scale nonsymmetric matrices. (French summary) 91a:65089
 Hong, Jing *see* Cai, Da Yong. 91h:65071
 Huang, Kai Bin *see* Li, Zhi Lin. 91m:65108
 Huckle, Thomas Computing the minimum eigenvalue of a symmetric positive definite Toeplitz matrix with spectral transformation Lanczos methods. (see 91m:65005)
 Ji, Xing Zhi Numerical solution of joint eigenpairs of a family of commutative matrices. (Not in MR)
 Jia, Zhong Xiao (with Xiong, Xi Wen) Convergence of the generalized Lanczos method in the eigenvalue problem for nonsymmetric real matrices. (Chinese. English summary) (Not in MR)
 Jiang, Er Xiong An algorithm for finding generalized eigenpairs of a symmetric definite matrix pencil. 91f:65074
 — On the theoretical foundation of the Rayleigh quotient iteration method. (Chinese. English summary) 91m:65105
 Joseph, Daniel D. *see* Chen, Kang Ping. 91m:65101
 Kahan, W. *see* Demmel, James. 91i:65072
 Karyshov, S. V. A numerical method for solving an eigenvalue problem with nonlinear occurrence of the spectral parameter for sparse matrices. 91a:65090
 — Erratum: "A numerical method for solving an eigenvalue problem with nonlinear occurrence of the spectral parameter for sparse matrices" [Zh. Vychisl. Mat. i Mat. Fiz. 29 (1989), no. 12, 1898–1903; MR 91a:65090]. (Russian) 91g:65072
 Kayasov, Andrei Vladimirovich A preconditioned conjugate gradient method for eigenvalue problems and its implementation in a subspace. (see 91m:65005)
 Kokovikhina, O. V. A numerical method for solving a nonlinear spectral problem. (Russian) 91h:65053
 Kuczyński, Jacek Implementation of the gmr algorithm for large symmetric eigenproblems. 91g:65073
 Küpper, Tassilo *see* Garus, Rainer. 91h:65069
 Lancaster, Peter (with Ye, Qiang) Variational properties and Rayleigh quotient algorithms for symmetric matrix pencils. 91a:65055
 — (with Ye, Qiang) Variational and numerical methods for symmetric matrix pencils. 91m:65106
 Lawson, Charles L. (with Gupta, Kajal K.) The Lanczos algorithm for a pure imaginary Hermitian matrix. 91m:65107
 van Lenthe, Johan H. (with Pulay, Peter) A space-saving modification of Davidson's eigenvector algorithm. (Not in MR)
 Leung, A. Y. T. Perturbed general eigensolutions. 91j:65067
 Li, Ren Can Perturbation bounds for generalized eigenvalues. II. 91c:65028
 Li, Tien-Yien (with Zhang, Hong; Sun, Xian-He) Parallel homotopy algorithm for the symmetric tridiagonal eigenvalue problem. 91h:65070
 Li, Zhi Lin (with Huang, Kai Bin) Some perturbation theorems for eigenvectors. (Chinese. English summary) 91m:65108
 Loharev, I. V. Eigenvalues and eigenvectors of a symmetric matrix that depends on a parameter. (Russian) 91h:65042
 Maksimov, Yu. M. A composition algorithm for calculating bi-orthogonal systems of right and left eigenvectors of simple matrices. (Russian) (Not in MR)
 Marcos, B. (with Béliveau, J. G.) Nonlinear optimization technique for partial solution of generalized eigenvalue problems. 91a:65091
 Mills-Curran, William C. Comment on: "Eigenvector derivatives with repeated eigenvalues" [AJAA J. 27 (1989), no. 4, 486–491; MR 90b:65064] by R. L. Dailey. 91m:65109
 Morgan, Ronald B. Davidson's method and preconditioning for generalized eigenvalue problems. (Not in MR)
 Nanda, Tara R. An interactive method for the eigenvalue problem for matrices. 91a:65092
 Notay, Ivan Incomplete factorization of singular linear systems. 91d:65060
 O'Leary, Dianne P. (with Stewart, G. W.) Computing the eigenvalues and eigenvectors of symmetric arrowhead matrices. (Not in MR)
 Paardeskooper, M. H. C. A quadratically convergent parallel Jacobi process for diagonally dominant matrices with distinct eigenvalues. 91a:65093
 Pan, Victor Estimating the extremal eigenvalues of a symmetric matrix. 91g:65074
 Papadarakis, M. (with Smerov, S.) A new implementation of the Lanczos method in linear problems. 91a:65094
 Parlett, Beresford N. Misconvergence in the Lanczos algorithm. 91m:65110
 Pham Van At Determination of the largest eigenvalue and corresponding eigenvector of nonnegative matrices by the power method. (Russian) 91a:65095
 Popescu, Ileana *see* Rizzoli, Irina. 91a:65096
 Pulay, Peter *see* van Lenthe, Johan H. (Not in MR)
 Ram, Yitsak M. (with Blech, Joab J.; Braun, Simon G.) Eigenproblem error bounds with application to symmetric dynamic system modification. 91f:65073
 Reichel, Lothar *see* Gragg, W. B. 91h:65052
 Reiter, Clifford Easy algorithms for finding eigenvalues. (Not in MR)
 Rizzoli, Irina (with Popescu, Ileana) Computation of the eigenvalues for a tridiagonal, symmetric, real matrix. (French and Russian summaries) 91a:65096
 Sasa, Taimo The regularized iterative method with the Rayleigh quotient. (Russian. English summary) 91m:65111
 — The regularized iterative method with the generalized Rayleigh quotient. (Russian. English summary) 91m:65112
 Schmidt, Robert An empirical approach to improving the accuracy of Schwarz-Rayleigh's approximate eigenvalues. (Not in MR)
 — Accurate upper bounds to eigenvalues via Temple's lower-bound formula. 91m:65113
 — Errata: "An empirical approach to improving the accuracy of Schwarz-Rayleigh's approximate eigenvalues" [Indust. Math. 39 (1989), no. 2, 135–141]. (Not in MR)
 Schreiber, Robert S. *see* Shroff, Gautam. 91a:65056
 Schwarz, Hans-Rudolf Numerische Behandlung großer Matrizen-Eigenwertprobleme. [Numerical treatment of large matrix eigenvalue problems] 91h:65054
 — Eigenvalue problems and preconditioning. (see 91m:65005)
 Shroff, Gautam (with Schreiber, Robert S.) On the convergence of the cyclic Jacobi method

- for parallel block orderings. 91c:65056
 Smerou, S. *see* Papadarakakis, M., 91a:65094
 Soto, Ricardo Lorenzo On an inverse eigenvalue problem for Jacobi matrices. 91g:65075
 Stewart, G. W. *see* O'Leary, Dianne P., (Not in MR)
 Sun, Gui Lan (with He, Chun Yan) A gradient approximation method for finding eigenvalues and eigenvectors of matrices. (Chinese. English summary) 91a:65097
 Sun, Xian-He *see* Li, Tian-Yuan; et al., 91k:65070
 Tadmor, Eitan *see* Gili, Doron, 91d:65058
 Van Dooren, Paul *see* Beelen, Theo, 91m:65098
 Veselić, K. (with Hari, V.) A note on a one-sided Jacobi algorithm. 91a:65098
 Wang, Jia Song (with Xia, You Sheng) A homotopy algorithm for solving a class of symmetric positive definite generalized eigenvalue problems. (Chinese. English summary) 91i:65074
 Watkins, D. S. (with Elsner, Ludwig) Convergence of algorithms of decomposition type for the eigenvalue problem. 91m:65114
 Xia, You Sheng *see* Wang, Jia Song, 91i:65074
 Xiong, Xi Wen *see* Jia, Zhong Xian, (Not in MR)
 Yang, Wan Nian (with Deng, Cheng Ming) Error bounds of approximate solutions for generalized eigenvalue problems. (Chinese. English summary) 91c:65029
 Ye, Qiang A convergence analysis for nonsymmetric Lanczos algorithms. 91m:65115
 — *see also* Lancaster, Peter, 91e:65055 and 91m:65106
 Ye, Yi Cai A numerical algorithm for simultaneously finding all real eigenvalues of a matrix. (Chinese. English summary) 91i:65075
 Yin, Qing Xiang A quasi-Lanczos method for inverse eigenvalue problems of real symmetric band matrices. (Chinese. English summary) 91a:65099
 Zhang, Gui Zhi A note on power methods. (Chinese) 91g:65076
 Zhang, Hong *see* Li, Tian-Yuan; et al., 91k:65070
 Zheng, Dao Sheng Modification and generalization of the MDR method for generalized eigenvalue problems. (Chinese. English summary) 91c:65030
 Živković, Tomislav P. Solution of the perturbed eigenvalue equation by the low-rank perturbation method. 91i:65076

Items with secondary classifications in 65F15

- (Albrecht, J.) *see* Numerical treatment of eigenvalue problems, 91m:65005
 Alefeld, G. (with Illg, B.; Potra, F. A.) An enclosure method with higher order of convergence—applications to the algebraic eigenvalue problem. (see 91m:65005)
 Bini, Dario (with Di Benedetto, Fabio) Solving the generalized eigenvalue problem for rational Toeplitz matrices. 91f:15025
 Byers, Ralph A Hamiltonian-Jacobi algorithm. 91e:65057
 (Collatz, Lothar) *see* Numerical treatment of eigenvalue problems, 91m:65005
 Dai, Hua Sufficient conditions for the solvability of an algebraic inverse eigenvalue problem. (Chinese. English summary) 91d:15012
 — Inverse eigenvalue problems for Jacobi matrices and symmetric tridiagonal matrices. (Chinese. English summary) 91f:15015
 Deif, A. S. The interval eigenvalue problem. 91k:65077
 Di Benedetto, Fabio *see* Bini, Dario, 91f:15025
 Di Lena, Giovanni (with Peluso, R. I.; Piazza, G.) A least-squares method for computing the eigenvalues and eigenvectors of symmetric matrices. (Italian. English summary) 91d:65079
 Evans, David J. (with Margaritis, K. G.) Systolic designs for eigenvalue-eigenvector computations using matrix powers. (Not in MR)
 Fasino, D. Spectral and structural properties of some pentadiagonal symmetric matrices. 91k:65059
 Grimes, Roger G. (with Simon, Horst D.) Solution of large, dense symmetric generalized eigenvalue problems using secondary storage. (Not in MR)
 (Hagedorn, P.) *see* Numerical treatment of eigenvalue problems, 91m:65005
 Healey, Timothy J. (with Treacy, J. A.) Exact block diagonalization of large eigenvalue problems for structures with symmetry. 91k:73084
 Illg, B. *see* Alefeld, G.; et al., (91m:65005)
 Ji, Xing Zhi The pseudosymmetric tridiagonalization of an arbitrary real matrix. 91d:15014
 Knyazev, Andrei Vladimirovich (with Skorokhodov, A. L.) ★ Модифицированные итерационные методы в подпространстве для решения систем уравнений со знакоопределенными матрицами и спектральными задачами. (Russian) [Modified iterative methods in a subspace for solving systems of equations, with matrices without fixed sign, and spectral problems] 91a:65083
 Liu, Xin Guo *see* Xiong, Xi Wen, (Not in MR)
 Margaritis, K. G. *see* Evans, David J., (Not in MR)
 Megson, G. M. A systolic helix for matrix triangularization with partial pivoting. (Not in MR)
 Natarajan, Ramesh A parallel algorithm for the generalized symmetric eigenvalue problem on a hybrid multiprocessor. (Not in MR)
 Peluso, R. I. *see* Di Lena, Giovanni; et al., 91d:65079
 Piazza, G. *see* Di Lena, Giovanni; et al., 91d:65079
 Potra, F. A. *see* Alefeld, G.; et al., (91m:65005)
 Sidorov, A. M. Eigenvalues and eigenvectors of a perturbed operator. (Russian) 91j:47019
 Simon, Horst D. *see* Grimes, Roger G., (Not in MR)
 Šisler, Miroslav Über ein mehrparametrisches Iterationsverfahren für lineare algebraische Gleichungssysteme. (Czech summary) [On a multiparameter iteration method for systems of linear algebraic equations] 91m:65092
 Skorokhodov, A. L. *see* Knyazev, Andrei Vladimirovich, 91a:65083
 Soto, Ricardo Lorenzo A numerical reconstruction of a Jacobi matrix from spectral data. 91c:65064
 Treacy, J. A. *see* Healey, Timothy J., 91k:73084
 (Velle, Waldemar) *see* Numerical treatment of eigenvalue problems, 91m:65005
 Xiong, Xi Wen (with Liu, Xin Guo) Perturbation problems for matrix eigenvalues. (Chinese. English summary) (Not in MR)
 You, Guang Hong Optimal estimation of eigenvalues of products of positive definite Hermitian matrices. (Chinese) (Not in MR)
 Zhang, Lei A class of inverse eigenvalue problems for symmetric matrices. (Chinese. English summary) 91g:15010
 Zhdanov, A. I. Recursive estimation of minimum eigenvalues of information matrices. 91h:93187
- Items listed otherwise than by author
- Numerical treatment of eigenvalue problems ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005
 Oberwolfach ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005
 Workshop:
 Eigenvalue Problems in the Natural and Engineering Sciences and their Numerical Treatment ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005

65F20 Overdetermined systems, pseudoinverses

- Bramhan, Richard L., Jr. ★ Scientific data analysis. 91d:65061
 Čelić, Momir V. On error estimation for the pseudosolution of an inconsistent linear system. (Serbo-Croatian summary) 91g:65077
 Cox, M. G. The least-squares solution of linear equations with block-angular observation matrix. 91m:65116
 Cui, Ming Gen (with Zhang, Sen; Hu, Nai Li) A direct correction algorithm for solving overdetermined linear systems of equations. (Chinese. English summary) 91i:65077
 Hansen, Per Christian *see* Zha, Hong Yuan, 91c:65031
 Hu, Nai Li *see* Cui, Ming Gen; et al., 91i:65077
 Liao, Jian Wen An improvement on the method for finding the perturbation parameter p in directed perturbation algorithms. (Chinese. English summary) 91h:65043
 Morandi, R. (with Spallari, F.) Parallel algorithms for the iterative solution of sparse least-squares problems. 91f:65075
 Spallari, F. *see* Morandi, R., 91f:65075
 Skrobanski, J. J. Bounded-norm matrix-inverse mappings. 91m:65117
 Sreedharan, V. P. Duality theorems with applications for computing minimal norm nonnegative solutions of linear systems. (see 91j:41002)
 Zha, Hong Yuan (with Hansen, Per Christian) Regularization and the general Gauss-Markov linear model. 91c:65031
 Zhang, Sen *see* Cui, Ming Gen; et al., 91i:65077

Items with secondary classifications in 65F20

- Edén, Lars Algorithms for the computation of functionals defined on the solution of a discrete ill-posed problem. 91g:65084
 Hansen, Per Christian Solution of ill-posed problems by means of truncated SVD. 91d:65089
 — Perturbation bounds for discrete Tikhonov regularisation. 91e:65087
 — The discrete Picard condition for discrete ill-posed problems. 91m:65119
 Laratta, A. (with Zironi, Fernando) Numerical solution of linear least-squares problems with linear equality constraints. 91d:65091
 O'Leary, Dianne P. On bounds for scaled projections and pseudoinverses. 91f:15056
 Vaarmann, O. ★ Обобщенные обратные отображения. (Russian) [Generalized inverse mappings] 91a:65145
 Van Huffel, Sabine (with Zha, Hong Yuan) The restricted total least squares problem: formulation, algorithm, and properties. 91m:15017
 Vassilevski, P. S. On some ways of approximating inverses of banded matrices in connection with deriving preconditioners based on incomplete block factorizations. (German summary) 91a:65073
 Zha, Hong Yuan The restricted singular value decomposition of matrix triplets. 91m:15016
 — *see also* Van Huffel, Sabine, 91m:15017
 Zironi, Fernando *see* Laratta, A., 91d:65091

65F25 Orthogonalization

- Abramchuk, V. S. Investigation of the numerical stability of algorithms for solving systems of linear equations. (Russian. English summary) 91a:65100
 Chun, J. (with Kailath, Thomas) Displacement structure for Hankel, Vandermonde, and related (derived) matrices. 91m:65118
 Kailath, Thomas *see* Chun, J., 91m:65118
 Koltracht, Israel (with Lancaster, Peter; Smith, Digby) The structure of some matrices arising in tomography. 91j:65068
 Lancaster, Peter *see* Koltracht, Israel; et al., 91j:65068
 Li, Lei A parallel column sweep Gram-Schmidt orthogonalizing algorithm. (Chinese) (Not in MR)
 Ponomareva, I. A. The Lanczos method with selective orthogonalization. (Russian) (see 91k:65009)
 Shan, P. L. An improved Lanczos algorithm for solving ill-conditioned linear equations. 91j:65069
 Smith, Digby *see* Koltracht, Israel; et al., 91j:65068

65F30 Other matrix algorithms

- Aarden, J. M. C. (with Karlsson, K. E.) Preconditioned CG-type methods for solving the coupled system of fundamental semiconductor equations. 91c:65032
 Afbov, N. K. Linear systems with constraints on the norm of solutions. (Russian) (see 91j:00008)
 Arbenz, Peter Divide-and-conquer algorithms for the computation of the SVD of bidiagonal matrices. (see 91k:65014)
 Bekker, Paul A. (with Dijkstra, T. K.) On the nature and number of the constraints on the reduced form as implied by the structural form. 91h:65055
 Berry, Michael W. *see* Cybenko, G., 91f:65076
 Bistriz, Yuval (with Lev-Ari, Hanoch; Kailath, Thomas) Immittance- versus scattering-domain fast algorithms for non-Hermitian Toeplitz and quasi-Toeplitz matrices. 91a:65101
 Bodon, Elena A code for linear least squares based upon the ABS procedure. 91g:65078

- Byers, Ralph A Hamiltonian-Jacobi algorithm. 91e:65057
- Chan, Tony F. (with Hansen, Per Christian) Computing truncated singular value decomposition least squares solutions by rank revealing QR-factorizations. 91e:65059
- Chen, Ming Kui The solution of banded Toeplitz systems of equations. (Chinese. English summary) 91i:65078
- Crowmover, Richard M. A least squares approach to linear discriminant analysis. 91k:65071
- Cybenko, G. (with Berry, Michael W.) Hyperbolic Householder algorithms for factoring structured matrices. 91f:65076
- Dai, Hua The numerically stable reconstruction of Jacobi matrices from spectral data. 91i:65079
- Optimal approximation of real symmetric matrix pencils under spectral restrictions. (Chinese. English summary) 91h:65056
- De Pierro, Alvaro R. (with Iusem, Alfredo N.) On the asymptotic behavior of some alternate smoothing series expansion iterative methods. 91g:65079
- Dijkstra, T. K. see Bekker, Paul A., 91h:65055
- Douglas, Craig C. (with Mandel, Jan; Miranker, Willard L.) Fast hybrid solution of algebraic systems. 91i:65080
- El-Mikkawy, M. E. A. An algorithm for solving Vandermonde systems. (Not in MR)
- Fernando, K. Vince Linear convergence of the row cyclic Jacobi and Kogbetliantz methods. 91g:65080
- Gander, Walter Algorithms for the polar decomposition. 91j:65070
- Gao, Er Jian see Qu, Guo Xiang. (Not in MR)
- Gilyazov, S. F. see Morozov, V. A.; et al., (91k:65006)
- Han, Xu Li A criterion for the Arnoldi algorithm for solving systems of linear algebraic equations. (Chinese. English summary) 91j:65071
- Hansen, Per Christian The discrete Picard condition for discrete ill-posed problems. 91m:65119
- Truncated singular value decomposition solutions to discrete ill-posed problems with ill-determined numerical rank. 91e:65058
- see also Chan, Tony F., 91e:65059
- Heinig, Georg (with Jankowski, Peter) Fast algorithms for the solution of general Toeplitz systems. (German summary) 91h:65057
- Henkel, Charles S. (with Plemmons, Robert J.) Recursive least squares on a hypercube multiprocessor using the covariance factorization. 91i:65081
- Higham, Nicholas J. Matrix nearness problems and applications. 91h:65044
- Stability analysis of algorithms for solving confluent Vandermonde-like systems. 91d:65062
- Iusem, Alfredo N. see De Pierro, Alvaro R., 91g:65079
- Ivanitskii, A. Yu. see Morozov, V. A.; et al., (91k:65006)
- Jankowski, Peter see Heinig, Georg, 91h:65057
- Kailath, Thomas see Bistritz, Yuval; et al., 91a:65101
- Karlsson, K. E. see Aarden, J. M. C., 91c:65032
- Karmazin, V. N. see Morozov, V. A., (91k:65009)
- Kenney, Charles (with Laub, Alan J.) Padé error estimates for the logarithm of a matrix. 91e:65102
- Kiehl, M. Increasing the vector length for matrix multiplication with reduced memory access. (see 91m:00035)
- Laub, Alan J. see Kenney, Charles, 91a:65102
- Lev-Ari, Hanoach see Bistritz, Yuval; et al., 91a:65101
- Li, Lei (with Xu, Yin Feng) A fast algorithm for testing positive definiteness of matrices. (Chinese) 91e:65060
- Light, William A. The Chebyshev solution of certain matrix equations. 91j:65072
- Lüneburg, Heinz On the computation of the Smith normal form. 91g:65081
- Mal'tsev, V. A. The direct inversion method for matrices of special form and its application to solving partial differential equations. (Russian) 91h:65058
- Mandel, Jan see Douglas, Craig C.; et al., 91i:65080
- Markham, G. Conjugate gradient type methods for indefinite, asymmetric, and complex systems. 91f:65077
- Megson, G. M. An efficient double pipe systolic array for matrix product. 91j:65073
- Milovanović, Emina I. (with Stojčev, Mile K.; Milovanović, Igor Ž.) Two-processor system for LU factorization of five-diagonal matrix. 91m:65120
- Milovanović, Igor Ž. see Milovanović, Emina I.; et al., 91m:65120
- Miranker, Willard L. see Douglas, Craig C.; et al., 91i:65080
- Morozov, V. A. (with Karmazin, V. N.) Stable numerical methods for solving systems of linear algebraic equations of general type. (Russian) (see 91k:65009)
- (with Gilyazov, S. F.; Ivanitskii, A. Yu.) On the error of the solution of systems of linear algebraic equations with approximate data. (Russian) (see 91k:65006)
- Ojalvo, I. U. (with Ting, Thomas C. T.) Interpretation and improved solution approach for ill-conditioned linear equations. (Not in MR)
- Pan, Ching-Tsuan (with Plemmons, Robert J.) Least squares modifications with inverse factorizations: parallel implications. 91h:65059
- Plemmons, Robert J. (with White, R. E.) Substructuring methods for computing the nullspace of equilibrium matrices. 91e:65061
- see also Pan, Ching-Tsuan, 91h:65059 and Henkel, Charles S., 91i:65081
- Qu, Guo Xiang (with Gao, Er Jian) A comparison of four algorithms for optimizing element/node sequences. (Chinese) (Not in MR)
- Sezer, M. E. (with Šiljak, Dragoslav D.) Nested epsilon decompositions of linear systems: weakly coupled and overlapping blocks. 91m:65121
- Šiljak, Dragoslav D. see Sezer, M. E., 91m:65121
- Stojčev, Mile K. see Milovanović, Emina I.; et al., 91m:65120
- Tang, Jin see Wang, Cheng Shu, 91m:65122
- Ting, Thomas C. T. see Ojalvo, I. U., (Not in MR)
- Tuckerman, Laurette S. Transformations of matrices into banded form. 91g:65082
- Übi, E. The method of orthogonal transformations. (Russian. English and Estonian summaries) 91h:65045
- Varah, James M. Relative sizes of the Hessian terms in nonlinear parameter estimation. 91a:65103
- Wang, Cheng Shu (with Tang, Jin) The convergence of an MED iterative algorithm for the kurtosis norm. 91m:65122
- Wang, Jia Song (with Xiao, Jian Hua) A descent algorithm for L_1 norm solutions to systems of linear equations. (Chinese. English summary) 91a:65104
- Wehage, Roger A. Symbolic uncoupling and efficient solution of tree-structured linear equation systems. 91f:65078
- White, R. E. see Plemmons, Robert J., 91e:65061
- Xiao, Jian Hua see Wang, Jia Song, 91a:65104
- Xu, Yin Feng see Li, Lei, 91e:65060
- Zheng, Hui Rao An orthogonal similarity method for particular solutions to inverse problems of positive definite equations. (Chinese. English summary) 91d:65063
- Items with secondary classifications in 65F30
- Behzadi, A. M. see Kaveh, A., 91e:65126
- Bini, Dario Matrix structures in parallel matrix computations. (Italian summary) 91g:65322
- Bischof, Christian H. Incremental condition estimation. 91k:65076
- Boley, Daniel Estimating the sensitivity of the algebraic structure of pencils with simple eigenvalue estimates. 91f:15033
- Bulgakov, A. Ya. Matrix spectrum dichotomy and generalized Lyapunov matrix equation. 91j:15012
- Chen, Chun Hui see Sun, Ji Guang, 91d:15027
- Choi, Byoung Seon On the block LU decomposition of block Toeplitz matrices using the vector Yule-Walker equations. 91m:93035
- Choi, Jae Rong see Kim, Byoung-Dok; et al., 91m:62052
- Chun, J. (with Kailath, Thomas) Displacement structure for Hankel, Vandermonde, and related (derived) matrices. 91m:65118
- (with Kailath, Thomas) Divide-and-conquer solutions of least-squares problems for matrices with displacement structure. 91m:65078
- Chung, Kuo Liang (with Lin, Feng Ch'ing; Yeh, Yeong Nan) A three-phase parallel algorithm for solving linear recurrences. (Not in MR)
- Hansen, Per Christian see Zha, Hong Yuan, 91c:65031
- Jódar, Lucas (with Law, A. G.; Weston, J. H.) Approximate solutions of $X'' - BX = F(t)$, with B a constant matrix. 91j:65120
- Kailath, Thomas see Chun, J., 91m:65078 and 91m:65118
- Kaveh, A. (with Behzadi, A. M.) An associate graph for finite element ordering. 91e:65126
- Khitrov, G. M. Construction of polynomials with given Hurwitz determinants and a representation of the solution of a Lyapunov matrix equation. 91m:65030
- Khrstov, Nikolai D. see Konstantinov, Mikhail M.; et al., 91m:15021
- Kim, Byoung-Dok (with Choi, Jae Rong; Kudô, Akio) The algorithm of sweep-the-negatives and its applications to order restricted inference. 91m:62052
- Konstantinov, Mikhail M. (with Petkov, Petko Khr.; Khrstov, Nikolai D.) Perturbation analysis of matrix quadratic equations. 91m:15021
- Kudô, Akio see Kim, Byoung-Dok; et al., 91m:62052
- Lamas, J. A. see Zapata, E. L.; et al., (Not in MR)
- Law, A. G. see Jódar, Lucas; et al., 91j:65120
- Light, William A. Approximation of matrices. 91k:41035
- Lin, Feng Ch'ing see Chung, Kuo Liang; et al., (Not in MR)
- Marques, Maria da Graça Matrices with prescribed nonprincipal blocks and the trace function. 91m:15005
- Paolini, Gaia Valeria (with Radicati di Brozolo, Giuseppe) Data structures to vectorize CG algorithms for general sparsity patterns. 91e:65062
- Petkov, Petko Khr. see Konstantinov, Mikhail M.; et al., 91m:15021
- Pinkina, N. A. ★ Анализ устойчивости ортогональной прогонки. (Russian) [Analysis of the stability of an orthogonal sweep] (Not in MR)
- Plata, O. G. see Zapata, E. L.; et al., (Not in MR)
- Prince, Jerry L. (with Willsky, Alan S.) A geometric projection-space reconstruction algorithm. 91h:65215
- Radicati di Brozolo, Giuseppe (with Robert, Yves; Squazzero, P.) Designing linear algebra algorithms on the IBM 3090 vector multiprocessor with a hierarchical memory system. (Not in MR)
- see also Paolini, Gaia Valeria, 91e:65062
- Raus, Toomas Choice of parameter for the class of regularization methods under random error conditions. (Russian. English summary) 91m:65159
- Reichel, Lothar A matrix problem with application to rapid solution of integral equations. 91c:65085
- Rivera, F. F. see Zapata, E. L.; et al., (Not in MR)
- Robert, Yves see Radicati di Brozolo, Giuseppe; et al., (Not in MR)
- Rohn, Jiri A short proof of finiteness of Murty's principal pivoting algorithm. 91k:90208
- Squazzero, P. see Radicati di Brozolo, Giuseppe; et al., (Not in MR)
- Shen, Guang Xing Some properties of connective diagonally dominant matrices. (Chinese. English summary) 91m:15036
- Sun, Ji Guang (with Chen, Chun Hui) Generalized polar decomposition. (Chinese. English summary) 91d:15027
- Vesely, Vítězslav Fast cell-structured algorithm for digit reversal of arbitrary length. 91e:65001
- Weston, J. H. see Jódar, Lucas; et al., 91j:65120
- Willsky, Alan S. see Prince, Jerry L., 91h:65215
- Yeh, Yeong Nan see Chung, Kuo Liang; et al., (Not in MR)
- Zapata, E. L. (with Lamas, J. A.; Rivera, F. F.; Plata, O. G.) Modified Gram-Schmidt QR factorization on hypercube SIMD computers. (Not in MR)
- Zha, Hong Yuan (with Hansen, Per Christian) Regularization and the general Gauss-Markov linear model. 91c:65031
- Zhang, Yuan Ji On the reduction of a symmetric indefinite matrix to block diagonal form. (Chinese. English summary) 91d:15023

65F35 Matrix norms, conditioning, scaling [see also 15A12, 15A60]

- Askey, Steven F. (with Manteuffel, Thomas A.; Saylor, Paul E.) Adaptive polynomial preconditioning for Hermitian indefinite linear systems. 91m:65123

- (with Manteuffel, Thomas A.; Otto, James S.) Adaptive polynomial preconditioning for HPD linear systems. (see 91m:00026)
- Axelsson, Owe (with Kolotilina, L. Yu.) Monotonicity and discretization error estimates. 91k:65072
- Brugnano, L. (with Marrone, M.) Vectorization of some block preconditioned conjugate gradient methods. 91g:65083
- (with Trigiante, Donato) A full parallel preconditioner for a class of M -matrices. (Not in MR)
- Buoni, John J. A stable method for the incomplete factorization of H -matrices. 91j:65074
- Chan, Tony F. see Kuo, C.-C. Jay; et al., 91g:65087
- Codenotti, Bruno (with Leoncini, Mauro) Preconditioning linear systems and parallelism. (Russian summary) 91h:65060
- Demmel, James Nearest defective matrices and the geometry of ill-conditioning. 91m:65124
- Díaz, J. C. (with Macedo, C. G., Jr.) Fully vectorizable block preconditionings with approximate inverses for nonsymmetric systems of equations. 91a:65105
- Dietze, Siegfried (with Pönisch, Gerd) Condition of nearly rankdeficient matrices. 91a:65106
- Duff, Iain S. (with Meurant, Gérard A.) The effect of ordering on preconditioned conjugate gradients. 91d:65064
- Elkén, Lars Algorithms for the computation of functionals defined on the solution of a discrete ill-posed problem. 91g:65084
- Elman, Howard C. Relaxed and stabilized incomplete factorizations for nonselfadjoint linear systems. 91f:65079
- Evans, David J. (with Li, Chang Jun) Connections between the PCG method applied to systems with red/black form and its reduced system. 91g:65085
- see also Miellon, Jean-Claude; et al., 91k:65073
- Gambolati, G. see Sartoretto, F.; et al., 91k:65029
- Gautschi, Walter How (un)stable are Vandermonde systems? 91f:65080
- Greenbaum, Anne (with Rodrigue, Garry) Optimal preconditioners of a given sparsity pattern. 91h:65061
- Gustafsson, Ivar A class of preconditioned conjugate gradient methods applied to finite element equations. (see 91k:65010)
- Higham, Nicholas J. Experience with a matrix norm estimator. 91f:65081
- Jung, Michael (with Langer, Ulrich¹; Semmler, Ulrich) Two-level hierarchically preconditioned conjugate gradient methods for solving linear elasticity finite element equations. 91f:65082
- Kaporin, I. E. Preconditioning of the method of conjugate gradients for solving discrete analogues of differential problems. 91h:65062
- King, J. Thomas On the construction of preconditioners by subspace decomposition. 91d:65065
- Kolotilina, L. Yu. Explicit preconditioning of H -matrices. (Russian) 91g:65086
- see also Axelsson, Owe, 91k:65072
- Kuo, C.-C. Jay (with Chan, Tony F.; Tong, Charles) Multilevel filtering elliptic preconditioners. 91g:65087
- Langer, Ulrich¹ see Jung, Michael; et al., 91f:65082
- Laratta, A. Some remarks on error propagation in computing projections onto linear manifolds. 91h:65082
- Leferink, H. W. J. (with Spijker, M. N.) The relevance of stability regions in the numerical solution of initial value problems. (see 91f:65004)
- Leoncini, Mauro see Codenotti, Bruno, 91h:65060
- Li, Chang Jun see Evans, David J., 91g:65085
- Li, Lei see You, Zhao Yong, 91f:65083
- Lao, Liang Sheng Some discussions on the preconditioning of ill-conditioned linear systems. (Chinese. English summary) 91a:65107
- Macedo, C. G., Jr. see Díaz, J. C., 91a:65105
- Mandel, Jan (with Miranker, Willard L.) New techniques for fast hybrid solutions of systems of equations. 91a:65108
- Manteuffel, Thomas A. see Ashby, Steven F.; et al., 91m:65123 and (91m:00026)
- Marrone, M. see Brugnano, L., 91g:65083
- Meurant, Gérard A. see Duff, Iain S., 91d:65064
- Miellon, Jean-Claude (with Spiteri, Pierre; Evans, David J.) Le préconditionnement SSOR: une estimation du conditionnement obtenu; optimisation du paramètre de relaxation. (English summary) [SSOR preconditioning: an estimate of the condition number; optimization of the relaxation parameter] 91k:65073
- Miranker, Willard L. see Mandel, Jan, 91a:65108
- Otto, James S. see Ashby, Steven F.; et al., (91m:00026)
- Oyanagi, Yoshio see Zhang, Shao Liang, 91m:65126
- Pini, G. see Sartoretto, F.; et al., (91k:65029)
- Pönisch, Gerd see Dietze, Siegfried, 91a:65106
- Popov, Vladimir An easily computed upper bound for the condition number of a matrix. 91a:65109
- Rodrigue, Garry see Greenbaum, Anne, 91h:65061
- Sáráru, A. (with Sáráru, M.) Stability of finite linear combinations of vectors under changes of their coefficients. An application to approximation problems. 91j:65075
- Sáráru, M. see Sáráru, A., 91j:65075
- Sartoretto, F. (with Pini, G.; Gambolati, G.) Effective preconditioning for the simultaneous evaluation of the smallest eigenpairs of sparse matrices. (see 91k:65029)
- Saylor, Paul E. see Ashby, Steven F.; et al., 91m:65123
- Schäfer, Eugen (with Sporer, Ingrid) An efficient conjugate gradient preconditioner for Toeplitz systems. 91d:65066
- Semmler, Ulrich see Jung, Michael; et al., 91f:65082
- Smith, Barry F. (with Widlund, Olof B.) A domain decomposition algorithm using a hierarchical basis. 91m:65125
- Spijker, M. N. see Leferink, H. W. J., (91f:65004)
- Spiteri, Pierre see Miellon, Jean-Claude; et al., 91k:65073
- Sporer, Ingrid see Schäfer, Eugen, 91d:65066
- Tlamanetsky, Miron A note on a block preconditioner. (Not in MR)
- Tong, Charles see Kuo, C.-C. Jay; et al., 91g:65087
- Trigiante, Donato see Brugnano, L., (Not in MR)
- Widlund, Olof B. see Smith, Barry F., 91m:65125
- You, Zhao Yong (with Li, Lei) Fast algorithm of ill-conditioned least-squares problems with triangular Toeplitz matrix. (Chinese summary) 91f:65083
- Yserentant, Harry Two preconditioners based on the multi-level splitting of finite element spaces. 91j:65076
- Zhang, Shao Liang (with Oyanagi, Yoshio) A necessary and sufficient convergence condition of orthomin(k) methods for least squares problem with weight. 91m:65126
- Ziętak, K. Properties of the approximations of a matrix which lower its rank. 91c:65033
- Items with secondary classifications in 65F35
- Axelsson, Owe (with Carey, Graham F.; Lindskog, G.) On a class of preconditioned iterative methods on parallel computers. 91d:65162
- Bohte, Zvonimir Computable error bounds for approximate eigensystems of matrices. (Slovenian summary) 91m:65099
- Bowman, Harold see Golberg, Michael A., 91j:65198
- Bramble, James H. (with Pasciak, Joseph E.; Xu, Jinchao) Parallel multilevel preconditioners. (see 91c:65010)
- Canuto, Claudio (with Pietra, Paola) Boundary and interface conditions within a finite element preconditioner for spectral methods. 91m:65282
- Cao, Zhi Hao Polynomial acceleration methods for symmetric positive semidefinite systems. (Chinese. English summary) 91h:65063
- Carey, Graham F. see Axelsson, Owe; et al., 91d:65162
- Chan, Tony F. (with Goovaerts, Danny) A note on the efficiency of domain decomposed, incomplete factorizations. 91f:65189
- Fourier analysis of relaxed incomplete factorization preconditioners. 91k:65138
- Córdova Y., Antonio (with Gautschi, Walter; Ruscheweyh, Stephan) Vandermonde matrices on the circle: spectral properties and conditioning. 91i:15008
- Deshpande, Lalita N. (with Limaye, Balmohan V.) On the stability of singular finite-rank methods. 91g:65126
- Díaz, J. C. see Leaf, G. K.; et al., 91a:65221
- Di Lena, Giovanni (with Trigiante, Donato) Stability and spectral properties of incomplete factorization. 91d:65049
- Dörfler, W. The conditioning of the stiffness matrix for certain elements approximating the incompressibility condition in fluid dynamics. 91k:65142
- Dostal, Zdeněk Projector preconditioning and domain decomposition methods. (Not in MR)
- Douglas, Craig C. (with Mandel, Jan; Miranker, Willard L.) Fast hybrid solution of algebraic systems. 91h:65080
- Evans, David J. (with Li, Chang Jun) The $D^{1/2}$ -norm of the SOR and cyclic Chebyshev semi-iterative (CCSI) methods for a class of nonsymmetric matrices. 91h:65047
- Gautschi, Walter see Córdova Y., Antonio; et al., 91i:15008
- Gill, Doron (with Tadmor, Eitan) An $O(N^2)$ method for computing the eigensystem of $N \times N$ symmetric tridiagonal matrices by the divide and conquer approach. 91d:65058
- Glabisch, Gerhard (with Langer, Ulrich¹) On the use of multigrid preconditioners in a multigrid software package. (see 91k:65012)
- Golberg, Michael A. (with Bowman, Harold) The conditioning of some projection methods for Fredholm and singular integral equations. 91j:65198
- Goldstein, Charles I. Preconditioned iterative methods for convection diffusion and related boundary value problems. 91b:65126
- Goovaerts, Danny see Chan, Tony F., 91f:65189
- Hanke, Martin (with Neumann, Michael) Preconditionings and splittings for rectangular systems. 91d:65053
- Higham, Nicholas J. FORTRAN codes for estimating the one-norm of a real or complex matrix, with applications to condition estimation. (Not in MR)
- Huang, Hong Ci see Mu, Mo, 91d:65154
- Kielbasiński, Andrzej Stability of an elimination algorithm for special classes of matrices. I. (Polish. English summary) 91e:65047
- Langer, Ulrich¹ see Globisch, Gerhard, (91k:65012)
- Le, Jian see Parlett, Beresford N., (91m:65005)
- Leaf, G. K. (with Minkoff, M.; Díaz, J. C.) Nested block factorization preconditioners for convective-diffusion problems in three dimensions. 91a:65221
- Lemaire-Misonne, Catherine Conditionnement de problèmes. Application aux statistiques. (English summary) [Problem conditioning. Application to statistics] 91m:65344
- Li, Chang Jun see Evans, David J., 91g:65087
- Liebau, Frank see Wittum, Gabriel, 91d:65192
- Limaye, Balmohan V. see Deshpande, Lalita N., 91g:65126
- Lindskog, G. see Axelsson, Owe; et al., 91d:65162
- Liu, Xing Ping Generalized preconditioned iterative methods. (Chinese. English summary) 91f:65069
- Mandel, Jan see Douglas, Craig C.; et al., 91h:65080
- Manteuffel, Thomas A. (with Parter, Seymour V.) Preconditioning and boundary conditions. 91d:65160
- Martins, M. Madalena A note on the convergence of the MSOR method. 91k:65061
- Meyer, Arnd A parallel preconditioned conjugate gradient method using domain decomposition and inexact solvers on each subdomain. (German summary) 91i:65192
- Minkoff, M. see Leaf, G. K.; et al., 91a:65221
- Miranker, Willard L. see Douglas, Craig C.; et al., 91h:65080
- Mu, Mo (with Huang, Hong Ci) A new measure of numerical stability for discretized systems of boundary value problems. 91d:65154
- Neumann, Michael see Hanke, Martin, 91d:65053
- Parlett, Beresford N. (with Le, Jian) QR; its forward instability and failure to converge. (see 91m:65005)
- Parter, Seymour V. see Manteuffel, Thomas A., 91d:65160
- Pasciak, Joseph E. see Bramble, James H.; et al., (91c:65010)
- Pietra, Paola see Canuto, Claudio, 91m:65282
- Ruscheweyh, Stephan see Córdova Y., Antonio; et al., 91i:15008
- Schneider, Michael H. Matrix scaling, entropy minimization, and conjugate duality. II. The dual problem. 91c:90086

- Schönauer, W. *see* Weiss, R., (91k:65010)
 Schwetlick, Hubert Nonstandard scaling matrices in trust region methods. 91f:65125
 Skrobiaszki, J. J. Bounded-norm matrix-inverse mappings. 91m:65117
 Strakhov, V. N. Stable methods for solving linear problems in geophysics. I. Formulations and fundamental constructive ideas. (Russian) 91m:86012
 — Stable methods for solving linear problems in geophysics. II. Fundamental algorithms. (Russian) 91m:86013
 Tadmor, Eitan *see* Gill, Doron, 91d:65058
 Trigliante, Donato *see* Di Lena, Giovanni, 91d:65049
 Weiss, R. (with Schönauer, W.) Data reduction (DARE) preconditioning for generalized conjugate gradient methods. (see 91k:65010)
 Wittum, Gabriel (with Liebau, Frank) On truncated incomplete decompositions. 91d:65192
 Xu, Jinchao *see* Bramble, James H.; et al., (91c:65010)

65F40 Determinants

Items with secondary classifications in 65F40

- Aradovskii, M. M. *see* Tsatskin, M. L., (91m:00013)
 Boyer, Robert P. *see* Wimp, Jet, 91h:15010
 Gasca, Mariano (with Martínez, José Javier) On the computation of determinants arising in some bivariate rational interpolation problems. 91a:65013
 Martínez, José Javier *see* Gasca, Mariano, 91a:65013
 Tsatskin, M. L. (with Aradovskii, M. M.) A recurrent QR-algorithm. (Russian) (see 91m:00013)
 Wimp, Jet (with Boyer, Robert P.) Formal series and an algorithm for computing some special determinants with elements in a ring. 91h:15010

65F50 Sparse matrices

- Abaffy, József (with Dixon, L. C. W.) On solving sparse band systems with three algorithms of the ABS family. 91m:65127
 Ajiz, Manzoor Ali Implementation of Gram-Schmidt triangularization method using sequential column pointer data structure. 91k:65074
 Al-Towail, M. A. Two-term iterative solution scheme for linear sparse systems. 91a:65110
 Arioli, Mario (with Duff, Iain S.) Experiments in tearing large sparse systems. (see 91k:65011)
 — (with Duff, Iain S.; Gould, Nicholas I. M.; Reid, J. K.) Use of the P^4 and P^3 algorithms for in-core factorization of sparse matrices. 91f:65084
 Ashcraft, Cleve (with Eisenstat, Stanley C.; Liu, Joseph W. H.) A fan-in algorithm for distributed sparse numerical factorization. 91a:65111
 Bank, Randolph E. (with Rose, Donald J.) On the complexity of sparse Gaussian elimination via bordering. 91f:65085
 Barker, V. A. Numerical solution of sparse singular systems of equations arising from ergodic Markov chains. 91a:65112
 Barlow, Jesse L. (with Vemulapati, Udaya B.) An improved method for one-way dissection with singular diagonal blocks. 91g:65088
 — On the use of structural zeros in orthogonal factorization. 91a:65113
 Chen, Xue Qing *see* Yan, Zheng; et al., 91a:65119
 Chu, Eleanor (with George, Alan) Sparse orthogonal decomposition on a hypercube multiprocessor. 91h:65063
 Davis, Timothy A. (with Yew, Pen-Chung) A nondeterministic parallel algorithm for general unsymmetric sparse LU factorization. 91g:65089
 Dixon, L. C. W. *see* Abaffy, József, 91m:65127
 Don, F. J. Henk Some issues in solving large sparse systems of equations. 91g:65090
 Duff, Iain S. *see* Arioli, Mario; et al., 91f:65084 and (91k:65011)
 Eisenstat, Stanley C. *see* Ashcraft, Cleve; et al., 91a:65111
 Fan, Chin-Ju *see* Pothén, Alex, 91k:65075
 Galligani, E. *see* Ruggiero, Valeria, 91f:65088
 George, Alan (with Ng, Esmond) Parallel sparse Gaussian elimination with partial pivoting. 91c:65034
 — *see also* Chu, Eleanor, 91h:65063
 Gilbert, John R. (with Hafsteinsson, Hjálmtýr) Parallel symbolic factorization of sparse linear systems. 91g:65091
 Gould, Nicholas I. M. *see* Arioli, Mario; et al., 91f:65084
 Grimes, Roger G. (with Pierce, Daniel J.; Simon, Horst D.) A new algorithm for finding a pseudoperipheral node in a graph. 91f:65086
 Guo, Chun Hua Some results on sparse block factorization iterative methods. 91m:65128
 Hafsteinsson, Hjálmtýr *see* Gilbert, John R., 91g:65091
 Ho, Chin Wen (with Lee, R. C. T.) A parallel algorithm for solving sparse triangular systems. (Not in MR)
 Huang, Yun Qing (with van der Vorst, Henk A.) Some observations on the convergence behavior of GMRES. II. (Chinese summary) (Not in MR)
 Lee, R. C. T. *see* Ho, Chin Wen, (Not in MR)
 Lion, Kang-Pu *see* Pothén, Alex; et al., 91h:65064
 Liu, Joseph W. H. Reordering sparse matrices for parallel elimination. 91a:65114
 — The role of elimination trees in sparse factorization. 91a:65115
 — *see also* Ashcraft, Cleve; et al., 91a:65111
 McCormick, S. Thomas Making sparse matrices sparser: computational results. 91f:65084
 Ng, Esmond *see* George, Alan, 91c:65034
 O'Neill, James (with Szyld, Daniel B.) A block ordering method for sparse matrices. 91f:65087
 Paolini, Gaia Valeria (with Radicati di Brozolo, Giuseppe) Data structures to vectorize CG algorithms for general sparsity patterns. 91c:65062
 Pierce, Daniel J. *see* Grimes, Roger G.; et al., 91f:65086
 Pothén, Alex (with Fan, Chin-Ju) Computing the block triangular form of a sparse matrix. 91k:65075
 — (with Simon, Horst D.; Lion, Kang-Pu) Partitioning sparse matrices with eigenvectors of graphs. 91h:65064
 Radicati di Brozolo, Giuseppe *see* Paolini, Gaia Valeria, 91c:65062
 Reid, J. K. Sparse matrix computations. 91a:65116
 — *see also* Arioli, Mario; et al., 91f:65084
 Rose, Donald J. *see* Bank, Randolph E., 91f:65085
 Ruggiero, Valeria (with Galligani, E.) An iterative method for large sparse linear systems on a vector computer. 91f:65088
 Saltz, Joel H. Aggregation methods for solving sparse triangular systems on multiprocessors. 91a:65117
 Simon, Horst D. *see* Grimes, Roger G.; et al., 91f:65086 and Pothén, Alex; et al., 91h:65064
 Szyld, Daniel B. *see* O'Neill, James, 91f:65087
 Vassilevski, P. S. Algorithms for construction of preconditioners based on incomplete block-factorizations of the matrix. 91a:65118
 Vemulapati, Udaya B. *see* Barlow, Jesse L., 91g:65088
 van der Vorst, Henk A. *see* Huang, Yun Qing, (Not in MR)
 Xiang, Nian De *see* Yan, Zheng; et al., 91a:65119
 Yan, Zheng (with Chen, Xue Qing; Xiang, Nian De) Factor modification of partitioned sparse matrices. (Chinese. English summary) 91a:65119
 Yew, Pen-Chung *see* Davis, Timothy A., 91g:65089
- Items with secondary classifications in 65F50
- Bischof, Christian H. (with Lewis, John G.; Pierce, Daniel J.) Incremental condition estimation for sparse matrices. 91m:15015
 Bowden, Keith A direct solution to the block tridiagonal matrix inversion problem. 91a:65066
 Dixon, L. C. W. (with Maany, Z.; Mohseninia, M.) Automatic differentiation of large sparse systems. (Not in MR)
 Duff, Iain S. (with Wiberg, Torbjörn) Remarks on implementations of $O(n^{1/2})$ assignment algorithms. (Not in MR)
 Eder, Ali *see* Keyes, David E.; et al., 91g:65262
 Fiduccia, Charles M. *see* O'Hallaron, David R., 91m:65081
 Gambolati, G. *see* Sartoretto, F.; et al., (91c:00029)
 Gill, Philip E. (with Murray, Walter; Saunders, Michael A.; Wright, Margaret H.) A Schur-complement method for sparse quadratic programming. 91m:65171
 Greenbaum, Anne (with Rodrigue, Garry) Optimal preconditioners of a given sparsity pattern. 91h:65061
 Gropp, William D. *see* Keyes, David E.; et al., 91g:65262
 Kaasschieter, E. F. A general finite element preconditioning for the conjugate gradient method. 91c:65024
 Keyes, David E. (with Gropp, William D.; Eder, Ali) Domain decomposition techniques for large sparse nonsymmetric systems arising from elliptic problems with first-order terms. 91g:65262
 Koltracht, Israel (with Lancaster, Peter; Smith, Digby) The structure of some matrices arising in tomography. 91f:65068
 Lancaster, Peter *see* Koltracht, Israel; et al., 91f:65068
 Lewis, John G. *see* Bischof, Christian H.; et al., 91m:15015
 Lin, Joseph W. H. A graph partitioning algorithm by node separators. (Not in MR)
 Maany, Z. *see* Dixon, L. C. W.; et al., (Not in MR)
 Mei, Zhen A Newton-like method for simple bifurcation problems with application to large sparse systems. 91m:65147
 Mohseninia, M. *see* Dixon, L. C. W.; et al., (Not in MR)
 Morandi, R. (with Scallari, F.) Parallel algorithms for the iterative solution of sparse least-squares problems. 91f:65075
 Murray, Walter *see* Gill, Philip E.; et al., 91m:65171
 O'Hallaron, David R. (with Fiduccia, Charles M.) Efficient method for computing double matrix products. 91m:65081
 Pierce, Daniel J. *see* Bischof, Christian H.; et al., 91m:15015
 Pini, G. *see* Sartoretto, F.; et al., (91c:00029)
 Plassman, Paul E. Sparse Jacobian estimation and factorization on a multiprocessor. 91m:65346
 Rodrigue, Garry *see* Greenbaum, Anne, 91h:65061
 Sartoretto, F. (with Pini, G.; Gambolati, G.) Effective preconditioning for the simultaneous evaluation of the smallest eigenpairs of sparse matrices. (see 91c:00029)
 Saunders, Michael A. *see* Gill, Philip E.; et al., 91m:65171
 Schwarz, Hans-Rudolf Numerische Behandlung großer Matrizen-Eigenwertprobleme. [Numerical treatment of large matrix eigenvalue problems] 91h:65054
 — Eigenvalue problems and preconditioning. (see 91m:65005)
 Scallari, F. *see* Morandi, R., 91f:65075
 van der Sluis, A. (with van der Vorst, Henk A.) SIRT- and CG-type methods for the iterative solution of sparse linear least-squares problems. 91m:65095
 Smith, Digby *see* Koltracht, Israel; et al., 91f:65068
 Viegas de Vasconcelos, A. Parallelization of sparse matrix algorithms on multiprocessors. (Russian summary) 91k:65168
 van der Vorst, Henk A. *see* van der Sluis, A., 91m:65095
 Wiberg, Torbjörn *see* Duff, Iain S., (Not in MR)
 Wright, Margaret H. *see* Gill, Philip E.; et al., 91m:65171
- Items listed otherwise than by author
- Glenneden Beach, OR ★ Sparse matrices. 91b:65001
 Sparse matrices ★ Sparse matrices. 91b:65001
 Symposium:
 Sparse Matrices ★ Sparse matrices. 91b:65001

65F99 None of the above, but in this section

- Abdon, Ikram E. *see* Dussansey, Nicolas J., 91f:65089
 Akhmetzhanova, Z. Zh. (with Bakan, G. M.) A finitely converging algorithm for solving a combined system of linear equations and inequalities. 91g:65092
 Babanin, A. S. *see* Girko, V. L., 91a:65123
 Bakan, G. M. *see* Akhmetzhanova, Z. Zh., 91g:65092
 Barrodale, I. *see* Zala, C., (91c:65003)

- Berman, Piotr (with Schnitger, Georg) On the performance of the minimum degree ordering for Gaussian elimination. 91b:65046
- Bischof, Christian H. Incremental condition estimation. 91b:65076
- Cai, Da Yong see Chu, De Lin, 91j:65077
- Carstensen, C. (with Stein, Erwin) Analysis und Berechnung der Falk'schen ECP-Transformation und verwandte Probleme. [Analysis and computation of Falk's ECP transformation and related problems] 91a:65120
- Chen, K. see Lin, Feng Ch'ing, 91j:65079
- Chen, Wen Hui An algorithm for solving the symmetric indefinite linear system $Ax = b$. (Chinese. English summary) 91b:65047
- Chu, De Lin (with Cai, Da Yong) Block diagonal stabilization of matrices. (Chinese. English summary) 91j:65077
- Codenotti, Bruno Parallel solution of linear systems by repeated squaring. (Not in MR)
- Coleman, Norman P. see Shieh, Leang San; et al., 91g:65097
- Côté, Georges (with Zahar, R. V. M.) Computation of the matrix exponential. 91b:65085
- Dai, Hua Numerically stable construction of real symmetric band matrices from spectral data. 91b:65065
- Dauguet, V. A. (with Yakovlev, P. V.) Mean-square approximation of a rectangular matrix by matrices of smaller rank. 91b:65121
- Delosme, Jean-Marc A parallel algorithm for the algebraic path problem. (see 91a:68006)
- Deng, Nai Yang see Zhu, Mei Fang, 91g:65099
- Druskin, V. L. (with Knizhnerman, L. A.) Two polynomial methods for calculating functions of symmetric matrices. 91b:65048
- Duff, Iain S. The solution of large-scale least-squares problems on supercomputers. 91a:65122
- Duri, Francesca see Ruggiero, Valeria, 91a:65126
- Dussanoy, Nicolas J. (with Abdou, Ikram E.) Some new multiplicative algorithms for image reconstruction from projections. 91b:65089
- Eaves, B. Curtis (with Rothblum, Uriel G.) Relationships of properties of piecewise affine maps over ordered fields. 91j:65078
- Elsner, Ludwig (with Koltracht, Israel; Neumann, Michael) On the convergence of asynchronous paracontractions with application to tomographic reconstruction from incomplete data. 91g:65093
- Evans, David J. Block partitioned matrix algorithms for VLSI systolic arrays. (see 91a:68006)
- Ewerbring, L. Magnus (with Luk, Franklin T.) Computing the singular value decomposition on the connection machine. 91b:65049
- Forbes, A. B. (with Mansfield, A. J.) Neural implementation of a method for solving systems of linear equations. 91b:65090
- Frangakis, G. P. see Traftas, Spyros G., 91a:65128
- Girko, V. L. (with Babanin, A. S.) On an estimate for the solution of empirical systems of linear algebraic equations. (Russian) 91a:65123
- Gu, Ming see Li, Jiong Xing, 91a:65124
- Halpin, Marc Fractions continues matricielles. (English summary) [Matrix continued fractions] 91b:65066
- Higham, Nicholas J. Computing error bounds for regression problems. 91m:65129
- Huang, C.-H. (with Johnson, Jeremy R.; Johnson, Robert Warren) A report on the performance of an implementation of Strassen's algorithm. (Not in MR)
- Igamberdyev, Kh. Z. see Mannapov, N. N.; et al., 91e:65063
- Jiang, Chang Jun (with Yan, Chun Gang) A fast sequential and parallel algorithm for multiplying quasi-Hilbert matrices and general matrices. (Chinese. English summary) (Not in MR)
- Jiang, Zheng Xin (with Wei, Yi Xian) An approximation of paired comparison matrices. (Chinese. English summary) 91b:65086
- Johnson, Jeremy R. see Huang, C.-H.; et al., (Not in MR)
- Johnson, Robert Warren see Huang, C.-H.; et al., (Not in MR)
- Kirilyuk, O. P. Simplifying the structure of band matrices. (Russian) 91f:65091
- Klem, Nikola (with Tolić, Dobrolo D.) Possibilities for practical implementation of Strassen's method for large systems of linear equations. (Serbo-Croatian summary) (see 91m:00027)
- Knizhnerman, L. A. see Druskin, V. L., 91b:65048
- Koltracht, Israel see Elsner, Ludwig; et al., 91g:65093
- Kovalenko, A. V. Statistical estimates for the accuracy of Chebyshev iterative methods. (Russian) (see 91b:00047)
- Krishnamurthy, E. V. (with Kunde, M.; Schimmler, Manfred; Schröder, Heiko) Systolic algorithm for tensor products of matrices: implementation and applications. (Not in MR)
- Kucherenko, V. V. (with Trunov, G. A.) The rate of convergence of methods of approximate factorization. 91b:65080
- Kunde, M. see Krishnamurthy, E. V.; et al., (Not in MR)
- Kunkel, Peter (with Mehrmann, V.) Numerical solution of differential algebraic Riccati equations. 91b:65087
- Li, Ji Qian see Zhang, Zhi Min, (Not in MR)
- Lin, Feng Ch'ing (with Chen, K.) On the design of an integrated systolic array for solving simultaneous linear equations. 91j:65079
- Liu, Xin Guo (with Xu, Ya Ge) On the Rayleigh quotient matrix. (Chinese. English summary) 91j:65080
- Liu, Zheng She (with Wen, Chuan Yuan; Zhang, Ming Lian) A recursive Householder transformation formula for converting matrices to upper triangular form, and its applications. (Chinese. English summary) (Not in MR)
- Lu, An (with Wachspress, Eugene L.) Solution of Lyapunov equations by alternating direction implicit iteration. (Not in MR)
- Lu, Hao (with Sun, Wei Wei) Complexity of the multiplication of Toeplitz matrices and Hankel matrices. (Chinese. English summary) 91b:65051
- see also You, Zhao Yong, 91b:65053
- Li, Jiong Xing (with Gu, Ming) An error bound for the discrete Lyapunov matrix equation $X - AXB = C$. (Chinese. English summary) 91a:65124
- Luk, Franklin T. see Ewerbring, L. Magnus, 91b:65049
- Mannapov, N. N. (with Zakhidov, B. A.; Igamberdyev, Kh. Z.) An estimate for a regularization parameter in ill-posed inverse problems. (Russian) 91e:65063
- Mansfield, A. J. see Forbes, A. B., 91b:65090
- Margulis, L. F. On a connection between Z1 algorithms and the direct power method. (Russian. Tajiki summary) 91b:65052
- Mehrmann, V. see Kunkel, Peter, 91b:65087
- Neumann, Michael see Elsner, Ludwig; et al., 91g:65093
- O'Leary, Dianne P. Robust regression computation using iteratively reweighted least squares. 91g:65094
- Park, Haesun Efficient diagonalization of oversized matrices on a distributed-memory multiprocessor. 91a:65125
- Pasechnik, T. V. Stable methods for the numerical construction of a matrix splitter. (Russian. English summary) 91g:65095
- Pastorov, N. A. An algorithm matrix criterion for stability. (Russian) 91g:65096
- Rammelt, K. Lineare Gleichungssysteme mit Polynomkoeffizienten: exakte Lösung mittels modularer Homomorphismen. II. [Linear systems of equations with polynomial coefficients: exact solution by modular homomorphisms. II] (see 91h:00022)
- Rothblum, Uriel G. see Eaves, B. Curtis, 91j:65078
- Ruggiero, Valeria (with Duri, Francesca) Analysis of algorithms for solving tridiagonal systems on a vector computer. (Italian. English summary) 91a:65126
- Schimmler, Manfred see Krishnamurthy, E. V.; et al., (Not in MR)
- Schnitger, Georg see Berman, Piotr, 91b:65046
- Schröder, Heiko see Krishnamurthy, E. V.; et al., (Not in MR)
- Shieh, Leang San (with Tsai, Jason Sheng Horng; Coleman, Norman P.) Fast and stable algorithms for computing the principal n th root of a complex matrix and their applications to mathematical science and control systems. 91g:65097
- Soto, Ricardo Lorenzo A numerical reconstruction of a Jacobi matrix from spectral data. 91e:65064
- Stadnik, I. P. Systems of linear algebraic equations in problems of designing magnetic systems, and a geometric method for solving them. (Russian) 91a:65127
- Stein, Erwin see Carstensen, C., 91a:65120
- Stickel, Eberhard U. An algorithm for fast high precision computation of matrix exponential and logarithm. 91g:65098
- Sun, Wei Wei see Lu, Hao, 91b:65051
- Tolić, Dobrolo D. see Klem, Nikola, (91m:00027)
- Trunov, G. A. see Kucherenko, V. V., 91b:65080
- Tsai, Jason Sheng Horng see Shieh, Leang San; et al., 91g:65097
- Traftas, Spyros G. (with Frangakis, G. P.) On microcomputer-based simulation of linear multivariable systems. 91a:65128
- Wachspress, Eugene L. see Lu, An, (Not in MR)
- Wei, Mu Sheng Perturbation of the least squares problem. 91m:65130
- Wei, Yi Xian see Jiang, Zheng Xin, 91b:65086
- Wen, Chuan Yuan see Liu, Zheng She; et al., (Not in MR)
- Xu, Ya Ge see Liu, Xin Guo, 91j:65080
- Yakovlev, P. V. see Dauguet, V. A., 91b:65121
- Yan, Chun Gang see Jiang, Chang Jun, (Not in MR)
- You, Zhao Yong (with Lu, Hao) Some properties of rational g -circulants and complexity of inverting g -circulants. (Chinese summary) 91b:65053
- Zahar, R. V. M. see Côté, Georges, 91b:65085
- Zakhidov, B. A. see Mannapov, N. N.; et al., 91e:65063
- Zala, C. (with Barrodale, I.) Applications of discrete L_1 methods in science and engineering. (see 91e:65063)
- Zhang, Li Jun A stable parallel algorithm on an MIMD computer. (Chinese. English summary) 91a:65129
- Zhang, Ming Lian see Liu, Zheng She; et al., (Not in MR)
- Zhang, Zhi Min (with Li, Ji Qian) A weighted algorithm for determining segment elements in a matrix. (Chinese. English summary) (Not in MR)
- Zhu, Mei Fang (with Deng, Nai Yang) On the symmetric rank- m correction of matrices. 91g:65099

Items with secondary classifications in 65F99

- Abramovich, Yu. I. (with Kachur, V. G.) Analysis of the convergence of a tunable vector in adaptive techniques employing inversion of the maximum likelihood estimates of correlation matrices. 91c:94001
- Araki, Mitsuhiro see Hagiwara, Tomomichi; et al., 91j:49048
- Bajić, Vladimir B. Numerical test for semidefiniteness of functional matrices. 91j:15019
- Berens, H. (with Finzel, M.) Addendum: "A continuous selection of the metric projection in matrix spaces" [in *Numerical methods of approximation theory*, Vol. 8 (Oberwolfach, 1986), 21–29, Birkhäuser, Basel, 1987; MR 90i:41040]. 91e:41039
- Bevilacqua, Roberto (with Zellini, P.) Closure, commutativity and minimal complexity of some spaces of matrices. 91a:15025
- (with Lotti, C.; Romani, Francesco) Storage compression of inverses of band matrices. 91g:65001
- Brigman, L. M. A polynomial method of simplex type for solving systems of linear inequalities. 91b:65121
- Chang, Kuo Liang see Lin, Feng Ch'ing, (Not in MR)
- Craig, Roy R., Jr. see Kim, Hyung M., (Not in MR)
- Dai, Hua On the symmetric solutions of linear matrix equations. 91e:15012
- Dax, Achya The smallest point of a polytope. 91d:65088
- Dever, Mary Beth see Kwong, Man Kam, 91f:15037
- Docherty, Paul see Scales, John A.; et al., 91c:00019
- Dongarra, Jack (with Hammarling, Sven) Evolution of numerical software for dense linear algebra. (see 91c:65011)
- Elsner, Ludwig see Watkins, D. S., 91e:58145
- Fiedler, Miroslav Löwner'sche Matrizen und rationale Interpolation. [Löwner matrices and rational interpolation] 91b:65019
- Finzel, M. see Berens, H., 91e:41039
- Gao, Jun Bin A basis expression for multivariate triangular matrix interpolation. (Chinese. English summary) 91a:65012
- Gersztenkorn, Adam see Scales, John A.; et al., 91c:00019
- Girard, Didier A. A fast "Monte Carlo cross-validation" procedure for large least squares problems with noisy data. 91a:65005

- Golub, Gene H. (with Gutknecht, Martin H.) Modified moments for indefinite weight functions. 91h:30034
- Gutknecht, Martin H. *see* Golub, Gene H., 91h:30034
- Hagiwara, Tomomichi (with Saito, Yumi; Araki, Mituhiko) Numerical calculation for discretization of continuous quadratic performance index. 91j:49048
- Hajj, Ibrahim N. (with Skelboe, Stig) A multilevel parallel solver for block tridiagonal and banded linear systems. (Not in MR)
- Hammarling, Sven *see* Dongarra, Jack, 91h:65011
- Herzberger, Jürgen Über die Wirksamkeit eines Iterationsverfahrens zur Einschließung der Inversen einer Intervallmatrix. [On the efficiency of an iteration method for the inclusion of inverses of an interval matrix] 91h:65088
- Higham, Nicholas J. Exploiting fast matrix multiplication within the level 3 BLAS. (Not in MR)
- Huang, C.-H. (with Johnson, Jeremy R.; Johnson, Robert Warren) A tensor product formulation of Strassen's matrix multiplication algorithm. 91j:65003
- Jin, Zhi Ying The TOR method for solving linear systems of interval equations. (Chinese. English summary) 91h:65089
- Jódar, Lucas (with Navarro, E.) On the generalized Riccati matrix differential equation. Exact, approximate solutions and error estimate. (Russian and Czech summaries) 91h:34003
- Johnson, Jeremy R. *see* Huang, C.-H.; et al., 91h:65003
- Johnson, Robert Warren *see* Huang, C.-H.; et al., 91h:65003
- Kachur, V. G. *see* Abramovich, Yu. I., 91c:94001
- Kaltofen, Erich (with Krishnamoorthy, M. S.; Saunders, B. David) Mr. Smith goes to Las Vegas: randomized parallel computation of the Smith normal form of polynomial matrices. 91e:65166
- (with Krishnamoorthy, M. S.; Saunders, B. David) Parallel algorithms for matrix normal forms. 91f:65228
- Kenney, Charles (with Laub, Alan J.; Wette, Matt) Error bounds for Newton refinement of solutions to algebraic Riccati equations. 91f:65097
- Kim, Hyoung M. (with Craig, Roy R., Jr.) Computational enhancement of an unsymmetric block Lanczos algorithm. (Not in MR)
- Klatte, Diethard (with Thiere, Gisbert) Über Fehlerschranken für lineare Ungleichungssysteme. [On error bounds for systems of linear inequalities] 91f:65123
- Krechel, Arno (with Plum, Hans-Joachim; Stüben, Klaus) Parallelization and vectorization aspects of the solution of tridiagonal linear systems. (Not in MR)
- Krishnamoorthy, M. S. *see* Kaltofen, Erich; et al., 91e:65166 and 91f:65228
- Kwong, Man Kam (with Dever, Mary Beth) Computer-aided study of a problem in Hermitian matrix theory. 91f:15037
- Laub, Alan J. *see* Kenney, Charles; et al., 91f:65097
- Li, Lei A block estimate for the numerical radius of a matrix. (Chinese) (Not in MR)
- Lin, Feng Ch'ing (with Chung, Kuo Liang) A cost-optimal parallel tridiagonal system solver. (Not in MR)
- Lotti, C. *see* Bevilacqua, Roberto; et al., 91g:65001
- Lu, Hao On computational complexity for the multiplication of generalized Hilbert matrices with vectors and solution of certain generalized Hilbert linear systems. 91h:65169
- Complexity of the solutions to Vandermonde equations. (Chinese) (Not in MR)
- Ma, Si Liang A new proof of the Kreiss matrix theorem. (Chinese. English summary) 91e:15020
- Merkur'ev, S. P. *see* Vinitskii, S. I.; et al., 91h:81101
- Müller, Michael Wolfgang (with Scherer, Rudolf) A note on the algebraic stability of Runge-Kutta methods. 91j:65132
- Navarro, E. *see* Jódar, Lucas, 91h:34003
- Pellegrino, S. (with Van Heerden, T.) Solution of equilibrium equations in the force method: a compact band scheme for underdetermined linear systems. 91h:65002
- Plum, Hans-Joachim *see* Krechel, Arno; et al., (Not in MR)
- Pottier, Loïc Bornes et algorithme de calcul des générateurs des solutions de systèmes diophantiens linéaires. (English summary) [Bounds and algorithm for generators of solutions of linear Diophantine systems] 91j:11115
- Puzynin, I. V. *see* Vinitskii, S. I.; et al., 91h:81101
- Randall, J. H. (with Rayner, A. A.) The accuracy of least squares calculations with the Cholesky algorithm. 91h:65255
- Rayner, A. A. *see* Randall, J. H., 91h:65255
- Rohn, Jiri A Farkas-type theorem for linear interval equations. (German summary) 91a:65133
- Nonsingularity and P -matrices. 91g:65104
- On nonconvexity of the solution set of a system of linear interval equations. 91e:65066
- Romani, Francesco *see* Bevilacqua, Roberto; et al., 91g:65001
- Roth, P. N. A fast pointer-based solver for simultaneous linear equations. (Not in MR)
- Saito, Yumi *see* Hagiwara, Tomomichi; et al., 91j:49048
- Saunders, B. David *see* Kaltofen, Erich; et al., 91e:65166 and 91f:65228
- Scales, John A. (with Docherty, Paul; Gersztenkorn, Adam) Regularisation of nonlinear inverse problems: imaging the near-surface weathering layer. 91c:00019
- Scherer, Rudolf *see* Müller, Michael Wolfgang, 91j:65132
- Serdyukova, S. I. The quasi-Jordan form of analytic matrices that form a bounded semigroup. 91j:47046
- Sheng, Song Bai (with Xu, Shao Jie) A numerical method for solving linear inequalities. (Chinese. English summary) 91h:65092
- Sherali, Hanif D. (with Ulular, Osman) Conjugate gradient methods using quasi-Newton updates with inexact line searches. 91f:90126
- Skelboe, Stig *see* Hajj, Ibrahim N., (Not in MR)
- Soledovich, Moshe A machine executable generalized inner product and its applications. (Not in MR)
- Soh, C. B. Schur stability of convex combination of matrices. 91f:15057
- Stüben, Klaus *see* Krechel, Arno; et al., (Not in MR)
- Suslov, V. M. *see* Vinitskii, S. I.; et al., 91h:81101
- Svistunov, S. V. An iterative method for determining the elliptic hull of a system of vectors. (Russian. English summary) 91g:65161
- Thiere, Gisbert *see* Klatte, Diethard, 91f:65123
- Trunov, G. A. An estimate for a spectral relation for incomplete factorization of the form S^*S of the difference approximation of the Laplace operator in the case of a quasiregular operator S . (Russian) 91h:65161
- Ullmar, Osman *see* Sherali, Hanif D., 91f:90126
- Van Heerden, T. *see* Pellegrino, S., 91h:65002
- Vazirani, Vijay V. (with Yannakakis, Mihalis) Pfaffian orientations, 0-1 permanents, and even cycles in directed graphs. 91e:05080
- Vinitskii, S. I. (with Merkur'ev, S. P.; Puzynin, I. V.; Suslov, V. M.) Matrix structure of the Faddeev equations in the coordinate space. 91h:81101
- Watkins, D. S. (with Elsner, Ludwig) On Rutishauser's approach to self-similar flows. 91e:58145
- Welfe, Aleksander (with Zatoň, Wojciech) Simulation of econometric models with the Gauss-Seidel method. (Czech summary) 91h:90033
- Wette, Matt *see* Kenney, Charles; et al., 91f:65097
- Xu, Shao Jie *see* Sheng, Song Bai, 91h:65092
- Yannakakis, Mihalis *see* Vazirani, Vijay V., 91e:05080
- Zatoň, Wojciech *see* Welfe, Aleksander, 91h:90033
- Zellini, P. *see* Bevilacqua, Roberto, 91a:15025
- Zhao, Jin Xi Direct method for solving linear inequalities. (Chinese. English summary) 91h:65082
- Zhdanov, A. I. Approximate stochastic systems of linear algebraic equations. 91g:65156
- Zhu, Hai Yan A note about power-boundedness of interval matrices. 91m:65136

65Gxx Error analysis

65G05 Roundoff error

- Ahlie, V. U. (with Evans, G. A.) A comparison of the error function and the tanh transformation as progressive rules for double and triple singular integrals. 91g:65100
- Braune, K. A-posteriori Fehlerschranken bei der Berechnung inverser Standardfunktionen mit Hilfe des Newton-Verfahrens. [A posteriori error bounds in the computation of inverse standard functions with the aid of the Newton method] 91h:65067
- Dobronets, B. S. (with Shaidurov, V. V.) ★ Двусторонние численные методы. (Russian) [Two-sided numerical methods] 91m:65131
- Evans, G. A. *see* Ahlie, V. U., 91g:65100
- Flyvbjerg, H. (with Petersen, H. G.) Error estimates on averages of correlated data. 91h:65054
- Goodman, Richard H. Some models of relative error in products. 91a:65130
- Kondratenko, O. S. *see* Zadira, V. K.; et al., 91g:65101
- Lyashenko, N. N. (with Nikulin, M. S.) Probabilistic analysis of round-off errors in arithmetic with a floating point. 91e:65035
- Meñikova, S. S. *see* Zadira, V. K.; et al., 91g:65101
- Nikulin, M. S. *see* Lyashenko, N. N., 91e:65035
- Novak, Erich Stochastic error bounds for some nonlinear problems in numerical analysis. (See 91j:41002)
- Overton, Michael L. Numerical computation: the state of the art. (See 91k:00024)
- Petersen, H. G. *see* Flyvbjerg, H., 91h:65054
- Pinkins, N. A. ★ Анализ устойчивости ортогональной прогонки. (Russian) [Analysis of the stability of an orthogonal sweep] (Not in MR)
- Poppe, G. P. M. (with Wijers, C. M. J.) More efficient computation of the complex error function. 91h:65068a
- (with Wijers, C. M. J.) Algorithm 680: evaluation of the complex error function. 91h:65068b
- Sasaki, Mutsuko *see* Sasaki, Tateaki, 91h:65069
- Sasaki, Tateaki (with Sasaki, Mutsuko) Analysis of accuracy decreasing in polynomial remainder sequence with floating-point number coefficients. 91h:65069
- Shaidurov, V. V. *see* Dobronets, B. S., 91m:65131
- (Shokin, Yu. I.) *see* Dobronets, B. S., 91m:65131
- Voedodin, V. V. (with Yalymov, P. I.) ★ Новый метод исследования ошибок округления. (Russian) [A new method for studying rounding errors] 91h:65070
- Wijers, C. M. J. *see* Poppe, G. P. M., 91h:65068a and 91h:65068b
- Yalymov, P. I. *see* Voedodin, V. V., 91h:65070
- Zadira, V. K. (with Kondratenko, O. S.; Meñikova, S. S.) Analysis of the accuracy of algorithms for calculating some estimates for correlation functions using the fast Fourier transform. 91g:65101
- Items with secondary classifications in 65G05
- Abadie, J. (with Dekhli, F.) Error estimation in mathematical programming computation. (See 91e:00029)
- Abramchuk, V. S. Investigation of the numerical stability of algorithms for solving systems of linear equations. (Russian. English summary) 91a:65100
- Barlow, Jesse L. On the use of structural zeros in orthogonal factorization. 91a:65113
- Error analysis of a pairwise summation algorithm to compute the sample variance. 91m:65342
- Brunet, Marie-Christine *see* Chatelin, Françoise, 91m:65100
- Calvetti, Daniela A stochastic roundoff error analysis for the fast Fourier transform. 91m:65341
- Čelić, Momir V. On error estimation for the pseudosolution of an inconsistent linear system. (Serbo-Croatian summary) 91g:65077
- Chatelin, Françoise (with Brunet, Marie-Christine) A probabilistic round-off error propagation model. Application to the eigenvalue problem. 91m:65100
- Cody, W. J. Performance evaluation of programs for the error and complementary error functions. (Not in MR)
- Collatz, Lothar Guaranteed inclusions of solutions of some types of boundary value problems. (See 91k:65003)
- Dekhli, F. *see* Abadie, J., (91e:00029)
- Disney, Shaun Error bounds for rank 1 lattice quadrature rules modulo composites. 91m:65067

- Faye, Jean-Pierre. Implémentation synchrone de CESTAC. (English summary) [Synchronized implementation of CESTAC] (Not in MR)
- Goodrich, R. Kent. *see* Wilson, F. Wesley; et al., 91e:65021
- Higham, Nicholas J. Stability analysis of algorithms for solving confluent Vandermonde-like systems. 91d:65062
- Bounding the error in Gaussian elimination for tridiagonal systems. 91f:65060
- Ilin, V. P. (with Kuznetsov, I. B.; Pinkina, N. A.) ★ Исследование устойчивости параллельных алгоритмов решения рекурсивных задач на примере метода прогонки. (Russian) [Investigation of the stability of parallel algorithms for the solution of recurrence problems on the example of the double sweep method] 91e:65153
- Kaneko, Kunihiko. Clustering, coding, switching, hierarchical ordering, and control in a network of chaotic elements. 91j:58110
- Karryev, A. A. (with Mamedov, Ya. D.) Application of exact difference schemes to the error estimation of the method of lines for a parabolic-hyperbolic system. (Russian. English summary) 91g:65201
- Kiebasinski, Andrzej. Stability of an elimination algorithm for special classes of matrices. I. (Polish. English summary) 91e:65047
- Kuznetsov, I. B. *see* Ilin, V. P.; et al., 91e:65153
- Laratta, A. Some remarks on error propagation in computing projections onto linear manifolds. 91d:65082
- Linz, Peter. Accurate error bounds for integral equations. 91h:65220
- Löser, D. W. (with Oliver, Frank W. J.) Closure and precision in level-index arithmetic. 91f:65002
- Mamedov, Ya. D. *see* Karryev, A. A., 91g:65201
- Oliver, Frank W. J. *see* Löser, D. W., 91f:65002
- Pinkina, N. A. *see* Ilin, V. P.; et al., 91e:65153
- Rump, Siegfried M. Rigorous sensitivity analysis for systems of linear and nonlinear equations. 91h:65072
- Rycerz, Anna. Operations that preserve the integer rounding property of linear inequality systems. 91k:90126
- Spratt, Wendy. *see* Wilson, F. Wesley; et al., 91e:65021
- Wilson, F. Wesley (with Goodrich, R. Kent; Spratt, Wendy) Lawson's triangulation is nearly optimal for controlling error bounds. 91e:65021

65G10 Interval and finite arithmetic

- Alefeld, G. On the approximation of the range of values by interval expressions. (German summary) 91j:65081
- (with Illg, B.; Potra, F. A.) An enclosure method with higher order of convergence—applications to the algebraic eigenvalue problem. (see 91m:65005)
- Bauch, Hartmut. Solving ordinary initial value problems by means of T -intervals. 91j:65082
- Berković, Ivana F. (with Mitrović, Zarko M.) On orthogonality in interval analysis. (Serbo-Croatian summary) (see 91m:90027)
- Delf, A. S. The interval eigenvalue problem. 91k:65077
- Debnar, H.-J. Computing narrow inclusions for the solution of integral equations. 91a:65131
- Eiermann, M. C. *see* Shen, Zu He; et al., 91k:65081
- Frommer, Andreas (with Mayer, Günter) Efficient methods for enclosing solutions of systems of nonlinear equations. (German summary) 91g:65102
- Garloff, Jürgen. Block methods for the solution of linear interval equations. 91k:65078
- Herzberger, Jürgen (with Petković, L. D.) Efficient iterative algorithms for bounding the inverse of a matrix. (German summary) 91f:65092
- Über die Wirksamkeit eines Iterationsverfahrens zur Einschließung der Inversen einer Intervallmatrix. [On the efficiency of an iteration method for the inclusion of inverses of an interval matrix] 91i:65088
- *see also* Petković, Miodrag S., 91m:65135
- Illg, B. *see* Alefeld, G.; et al., (91m:65005)
- Jahn, K.-U. Evaluation of Hausdorff distances in interval mathematics. (German summary) 91k:65079
- Jin, Zhi Ying. The TOR method for solving linear systems of interval equations. (Chinese. English summary) 91f:65089
- Kaibser, A. L. A sharpened scheme for constructing a posteriori interval extension of an elementary function. (Russian) 91i:65090
- Kearfott, R. Baker. Interval arithmetic techniques in the computational solution of nonlinear systems of equations: introduction, examples, and comparisons. 91f:65093
- Lakshmikantham, V. (with Sun, Yong) Applications of interval analysis to minimal and maximal solutions of differential equations. 91m:65132
- Madan, Ved P. Interval Newton method: Hansen-Greenberg approach—some procedural improvements. 91a:65132
- Mayer, Günter *see* Frommer, Andreas, 91g:65102
- Mitrović, Zarko M. Hermitian interval matrices. (Serbo-Croatian summary) 91m:65133
- *see also* Berković, Ivana F., (91m:90027)
- Mohd, Ismail Bin. An interval global optimization algorithm for a class of functions with several variables. 91m:65134
- Nesterov, V. M. A generalization of interval analysis and its applications for estimating a set of function values. (Russian) 91j:65083
- Neumaier, Arnold (with Shen, Zu He) The Krawczyk operator and Kantorovich's theorem. 91g:65103
- *see also* Shen, Zu He; et al., 91k:65081
- Oelschlägel, Dieter. Zur Intervallapproximation (approximation mit fehlerbehafteten Daten). (English and Russian summaries) [On interval approximation (approximation with data containing errors)] 91e:65065
- Petković, L. D. *see* Herzberger, Jürgen, 91f:65092
- Petković, Miodrag S. (with Herzberger, Jürgen) Hybrid inclusion algorithms for polynomial multiple complex zeros in rectangular arithmetic. 91m:65135
- Potra, F. A. *see* Alefeld, G.; et al., (91m:65005)
- Rohn, Jiri. A Farkas-type theorem for linear interval equations. (German summary) 91a:65133
- Systems of linear interval equations. 91k:65080
- Nonsingularity and P -matrices. 91g:65104
- Interval solutions of linear interval equations. (Russian and Czech summaries) 91g:65105
- On nonconvexity of the solution set of a system of linear interval equations. 91e:65066
- Real eigenvalues of an interval matrix with rank one radius. 91h:65071
- Rump, Siegfried M. Rigorous sensitivity analysis for systems of linear and nonlinear equations. 91h:65072
- Shackell, John. Asymptotic estimation of oscillating functions using an interval calculus. 91e:65067
- Shen, Zu He (with Neumaier, Arnold; Eiermann, M. C.) Solving minimax problems by interval methods. 91k:65081
- *see also* Neumaier, Arnold, 91g:65103
- Sun, Yong. *see* Lakshmikantham, V., 91m:65132
- Zhou, Ru Hai. An interval test for nonlinear systems. (Chinese. English summary) 91k:65082
- Zhu, Hai Yan. A note about power-boundedness of interval matrices. 91m:65136
- Items with secondary classifications in 65G10
- Bauch, Hartmut (with Linke, Harald) Äußere und innere Schranken für Lösungsmengen von Anfangswertproblemen bei gewöhnlichen Differentialgleichungen 1. Ordnung. [Outer and inner bounds for solution sets of initial value problems for first-order ordinary differential equations] 91d:65096
- Burgmeier, Peter (with Jahn, K.-U.; Plokhov, A. G.) An interval computational method for approximating controllability sets. (German summary) 91f:93007
- Delf, A. S. Singular values of an interval matrix. 91m:65102
- Diamond, Phil. Least squares fitting of compact set-valued data. 91m:65180
- Debnar, H.-J. Contributions to computational analysis. 91f:65231
- Dobronets, B. S. (with Shaidurov, V. V.) ★ Двусторонние численные методы. (Russian) [Two-sided numerical methods] 91m:65131
- Eiermann, M. C. *see* Shen, Zu He, 91a:65162
- Elishakoff, Isaac. Some questions in eigenvalue problems in engineering. (see 91m:65005)
- Frommer, Andreas (with Mayer, Günter) On the R -order of Newton-like methods for enclosing solutions of nonlinear equations. 91h:65057
- Fujii, Yasuo. *see* Ichida, K., 91c:90092
- Govind, Rakesh. *see* Zhao, Renhong, 91k:04006
- Grochow, W. Variantenbewertungsverfahren und Intervallmathematik. [Procedures for the evaluation of variants and interval mathematics] (Not in MR)
- Höhner, Eckhard. Zur iterativen Defektkorrektur bei Anfangswertproblemen gewöhnlicher Differentialgleichungen. [On the iterative defect correction in initial value problems for ordinary differential equations] 91d:65097
- Ichida, K. (with Fujii, Yasuo) Multicriterion optimization using interval analysis. (German summary) 91c:90092
- Ivanitsa, V. V. *see* Martynyuk, D. I., 91h:65120
- Jahn, K.-U. *see* Burgmeier, Peter; et al., 91f:93007
- Kardash, A. I. *see* Vengerskil, P. S.; et al., 91j:65092
- Kearfott, R. Baker. Preconditioners for the interval Gauss-Seidel method. 91d:65072
- Krämer, Walter Stephan. Berechnung der Gammafunktion $\Gamma(x)$ für reelle Punkt- und Intervallargumente. [Computation of the gamma function $\Gamma(x)$ for real point and interval arguments] 91h:65034
- Linke, Harald. *see* Bauch, Hartmut, 91d:65096
- Madan, Ved P. Interval contractions and rootfinding. 91f:65093
- Martynyuk, D. I. (with Ivanitsa, V. V.) An interval-analytic method for solving the Cauchy problem. (Russian) 91h:65120
- Mayer, Günter. *see* Frommer, Andreas, 91b:65057
- Nikol'skii, M. S. Approximation of a continuous multivalued mapping by constant multivalued mappings. (Russian) 91g:65160
- Petković, Miodrag S. On the efficiency of some combined methods for polynomial complex zeros. (Not in MR)
- Plokhov, A. G. *see* Burgmeier, Peter; et al., 91f:93007
- Sen'o, P. S. *see* Vengerskil, P. S.; et al., 91j:65092
- Shaidurov, V. V. *see* Dobronets, B. S., 91m:65131
- Shen, Zu He (with Eiermann, M. C.) Interval-majorant method and global optimization. (German summary) 91a:65162
- (with Wolfe, M. A.) On interval enclosures using slope arithmetic. 91e:26007
- (Shokina, Yu. I.) *see* Dobronets, B. S., 91m:65131
- Ve'or, V. M. Discrete approximations of integrals of multivalued mappings. 91f:65056
- Vengerskil, P. S. (with Kardash, A. I.; Sen'o, P. S.) Application of some interval iterative methods to the solution of systems of nonlinear algebraic equations. (Russian) 91j:65092
- Wolfe, M. A. *see* Shen, Zu He, 91e:26007
- Zhao, Renhong (with Govind, Rakesh) Algebraic characteristics of extended fuzzy numbers. 91k:04006

65G99 None of the above, but in this section

- Bei, Ji Yao. *see* Cao, Xiao Rui; et al., (Not in MR)
- Cao, Xiao Rui (with Wang, Jie Xin; Xue, Bing Yuan; Bei, Ji Yao) The stability of the sequential three-points method. (Not in MR)
- Isaikina, L. F. (with Podlovchenko, A. B.) Estimation of denormalization errors. 91e:65068
- Podlovchenko, A. B. *see* Isaikina, L. F., 91e:65068
- Wang, Jie Xin. *see* Cao, Xiao Rui; et al., (Not in MR)
- Wichmann, B. A. Towards a formal specification of floating point. 91b:65055
- Xue, Bing Yuan. *see* Cao, Xiao Rui; et al., (Not in MR)
- Items with secondary classifications in 65G99
- Girko, V. L. Asymptotically normal estimates for solutions of systems of linear algebraic equations. I. 91m:65080a
- Asymptotically normal estimates for solutions of systems of linear algebraic equations. II. 91m:65080b
- Hayashi, Isao (with Tanaka, Hideo) The fuzzy GMDH algorithm by possibility models and its application. 91i:65216
- Khrstov, Nikolai D. *see* Konstantinov, Mikhail M.; et al., 91m:15021

- Konstantinov, Mikhail M. (with Petkov, Petko Khr.; Khristov, Nikolai D.) Perturbation analysis of matrix quadratic equations. 91m:15021
- Olver, Frank W. J. Rounding errors in algebraic processes—in level-index arithmetic. (see 91k:65011)
- Pavel'ev, A. G. The information structure of image functions, and the possibility of detecting systematic errors in solving ill-posed problems. 91k:65056
- Petkov, Petko Khr. see Konstantinov, Mikhail M.; et al., 91m:15021
- Tanaka, Hideo see Hayashi, Isao, 91i:65216
- Tang, Ping Tak Peter Accurate and efficient testing of the exponential and logarithm functions. (Not in MR)
- Zwaan, M. Error estimates for nonuniform sampling. 91m:94007

65Hxx Nonlinear algebraic or transcendental equations

- Sikorski, K. Fast algorithms for the computation of fixed points. 91d:65067

Items with secondary classifications in 65Hxx

- Han, Dan Fu see Wang, Xing Hua, 91d:65086
- Maass, Gerhard ★ Vorlesungen über numerische Mathematik. II. (German) [Lectures on numerical mathematics. II] 91a:65003
- Wang, Xing Hua (with Han, Dan Fu) On some advances in numerical methods for solving nonlinear equations and systems of nonlinear equations. (Chinese) 91d:65086

65H05 Single equations

- Aliiev, Fikret Akhmadali oglu (with Borydyug, B. A.; Larin, V. B.) Comments on: "A stability-enhancing scaling procedure for Schur-Riccati solvers" [Systems Control Lett. 12 (1989), no. 3, 241–250; MR 90c:65063] by C. Kenney, A. J. Laub and M. Wette. 91g:65106
- Andreev, Andrei St. see Kyurkchiev, Nikolai V., 91i:65092
- Atanasova, Lidiya (with Dyukanova, Teodora A.; Kyurkchiev, Nikolai V.) Methods with a $3R + 4$ order of convergence for calculating roots of an algebraic equation. (Russian. English summary) 91g:65107
- Bao, Xue Song see Xu, Hong Yi; et al., 91d:65069
- Ben-Or, Michael (with Tiwari, Praseon) Simple algorithms for approximating all roots of a polynomial with real roots. 91k:65083
- Bertsekas, Dimitri P. (with Tsitsiklis, John N.) Some aspects of parallel and distributed iterative algorithms—a survey. 91m:65137
- Borydyug, B. A. see Aliiev, Fikret Akhmadali oglu; et al., 91g:65106
- Brankin, R. W. see Freeman, T. L., 91f:65095
- Brudaru, Octav Systolic arrays for solving nonlinear equations by a noniterative method. 91b:65056
- Cai, Yao Zhi see Tang, Jing Sheng. (Not in MR)
- Cheng, Jin Song A parallel algorithm for finding roots of a complex polynomial. 91g:65108
- Chung, S. K. An accelerating monotone iterative technique for nonlinear boundary value problems. 91k:65084
- Claudio, D. M. Sichere Numerik und Anzahl der korrekten Ziffern der errechneten Ergebnisse bei Fixpunktsatz. [Safe numerics and number of correct digits of computed results in the fixed-point theorem] 91h:65073
- Crampin, M. Bilinear transformations and quadratic equations. 91d:65068
- Cui, Ming Gen see Wu, Bo Ying; et al., 91j:65088
- Curry, James H. On zero finding methods of higher order from data at one point. 91a:65134
- Cvetković, Ljiljana see Petković, Miodrag S., 91m:65141
- Czopik, J. The simultaneous determination of all zeros of a polynomial. (German summary) 91j:65084
- Davenport, J. H. (with Mignotte, Maurice) On finding the largest root of a polynomial. (French summary) 91h:65074
- Dedieu, Jean-Pierre À propos de la méthode de Dandelin-Graeffe. (English summary) [Zeros of polynomials and the Dandelin-Graeffe method] 91f:65094
- Dyukanova, Teodora A. see Atanasova, Lidiya; et al., 91g:65107
- Encheva, Tatiana I. (with Levin, A. Yu.) Finding the zeros of exponential quasi-polynomials. 91m:65138
- Field, David A. Convergence rates for Padé-based iterative solutions of equations. 91m:65139
- Freeman, T. L. (with Brankin, R. W.) A divide and conquer method for polynomial zeros. 91f:65095
- Friedman, Joel A density theorem for purely iterative zero finding methods. 91g:65109
- Frommer, Andreas (with Mayer, Günter) On the R -order of Newton-like methods for enclosing solutions of nonlinear equations. 91b:65057
- Gáldintai, A. Remarks on the optimization of the Lehmer-Schur method. 91m:65140
- Gao, Tang An A condition for existence of zeroes of combinatorial mappings. (Chinese. English summary) (Not in MR)
- Gordon, Sheldon P. (with Von Eschen, Ellis R.) A parabolic extension of Newton's method. 91f:65096
- Gu, Yu Hua see Wu, Bo Ying; et al., 91j:65088
- Gupta, D. K. (with Kaul, C. N.) A note on two-sided iterative method for real multiple roots of $f(x) = 0$. 91c:65036
- Han, Dan Fu see Wang, Xing Hua, 91b:65081
- He, Chun Jin "Product polynomials" and the new cut-factor method. (Chinese) (Not in MR)
- Huang, Qiang A multipoint derivative iterative method—a new iterative approach. (Chinese) (Not in MR)
- Hui, Erich Eine Erweiterung des Verfahrens von Newton. I. [An extension of Newton's method. I] 91c:65037a
- Eine Erweiterung des Verfahrens von Newton. II. [An extension of Newton's method. II] 91c:65037b
- Jin, Chong Fang The column-update quasi-Newton method for solving singular problems. (Chinese. English summary) 91i:65091
- Joseph, G. (with Levine, A.; Liukkonen, J.) Randomized Newton-Raphson. 91k:65085
- Kaul, C. N. see Gupta, D. K., 91c:65036
- Kenney, Charles (with Laub, Alan J.; Wette, Matt) Error bounds for Newton refinement of solutions to algebraic Riccati equations. 91f:65097
- see also Aliiev, Fikret Akhmadali oglu; et al., 91g:65106
- Kim, Byong Bae On the convergence radius and convergence rate of quasi-Newton methods. (Korean. English summary) 91b:65058
- Kyurkchiev, Nikolai V. (with Andreev, Andrei St.) A two-sided method for calculating all the multiple roots of an algebraic equation. (Russian) 91h:65092
- see also Atanasova, Lidiya; et al., 91g:65107
- Larin, V. B. see Aliiev, Fikret Akhmadali oglu; et al., 91g:65106
- Laub, Alan J. see Kenney, Charles; et al., 91f:65097 and Aliiev, Fikret Akhmadali oglu; et al., 91g:65106
- Lá, Dung Corrigendum: "An efficient derivative-free method for solving nonlinear equations" [ACM Trans. Math. Software 11 (1985), no. 3, 250–262; MR 87d:65057]. (Not in MR)
- Lenard, Christopher T. Laguerre's iteration and the method of traces for eigenproblems. 91h:65075
- Levin, A. Yu. see Encheva, Tatiana I., 91m:65138
- Levine, A. see Joseph, G.; et al., 91k:65085
- Libgober, Anatoly S. On topological complexity of solving polynomial equations of special type. 91h:65076
- Ling, Fu Hua A multiple shooting method for determining periodic windows of one-dimensional maps. 91b:65059
- Liukkonen, J. see Joseph, G.; et al., 91k:65085
- Lucas, T. N. Finding roots by deflated polynomial approximation. 91h:65077
- Madan, Ved P. Interval contractions and rootfinding. 91f:65093
- Makrelor, I. V. On the simultaneous determination of the roots of polynomial equations. (Russian) 91h:65078
- Mayer, Günter see Frommer, Andreas, 91b:65057
- Mignotte, Maurice see Davenport, J. H., 91h:65074
- Miyakoda, Tsuyako Iterative methods for multiple zeros of a polynomial by clustering. 91k:65086
- Olmo Romero, José Rapidly convergent computational methods for the roots of second-order equations using new generalized Fibonacci sequences. (Spanish) 91a:65135
- Petek, Peter Cubic equation, Newton's method and analytic functions. (see 91f:65001)
- Petković, L. D. see Petković, Miodrag S.; et al., 91a:65136
- Petković, Miodrag S. (with Petković, L. D.; Stefanović, L. V.) On the R -order of a class of simultaneous iterative processes. 91a:65136
- Schröder-like algorithms for multiple complex zeros of a polynomial. (German summary) 91j:65085
- On the efficiency of some combined methods for polynomial complex zeros. (Not in MR)
- (with Cvetković, Ljiljana) A hybrid method for a polynomial complex zero. 91m:65141
- Shen, Zu He (with Wolfe, M. A.) A ball Newton point algorithm for bounding zeros of analytic functions. 91g:65110
- Sikorski, K. (with Trojan, G. M.) Asymptotic near optimality of the bisection method. 91h:65079
- Simeunović, D. M. On some estimates of approximate values of zeros of polynomials. 91j:65086
- Stefanović, L. V. see Petković, Miodrag S.; et al., 91a:65136
- Tang, Jing Sheng (with Cai, Yao Zhi) Extrapolation methods of the first kind for finding roots of $f(x) = 0$. (Chinese. English summary) (Not in MR)
- Tiwari, Praseon see Ben-Or, Michael, 91k:65083
- Trojan, G. M. see Sikorski, K., 91h:65079
- Tsitsiklis, John N. see Bertsekas, Dimitri P., 91m:65137
- Tu, Jun Ru see Xu, Hong Yi; et al., 91d:65069
- Válová, A. Yu. Approximate calculation of implicitly given functions of one variable. (Russian) 91h:65080
- Von Eschen, Ellis R. see Gordon, Sheldon P., 91f:65096
- Wang, De Ren (with Zhao, Feng Guang) Complexity analysis of a process for simultaneously obtaining all zeros of polynomials. (German summary) 91g:65111
- Wang, Hui (with Xu, Zeng Kun) A convergence theorem for parallel disk iteration for finding all the zeros of a polynomial. (Chinese. English summary) 91m:65142
- Wang, Xiao Dong¹ An inverse interpolation method for finding the extremum points of a function and its convergence rate. 91j:65087
- Wang, Xing Hua (with Han, Dan Fu) On dominating sequence method in the point estimate and Smale theorem. 91h:65081
- Wette, Matt see Kenney, Charles; et al., 91f:65097 and Aliiev, Fikret Akhmadali oglu; et al., 91g:65106
- Wolfe, M. A. see Shen, Zu He, 91g:65110
- Wu, Bo Ying (with Gu, Yu Hua; Cui, Ming Gen) Using the Padé approximation to construct an iterative formula for finding roots of nonlinear equations. (Chinese. English summary) 91j:65088
- Wys, R. Ein numerisches Verfahren zur simultanen Ermittlung aller Nullstellen eines Polynoms. [A numerical method for the simultaneous determination of all zeros of a polynomial] 91f:65094
- Xu, Hong Yi (with Bao, Xue Song; Tu, Jun Ru) An indirect application of Runge-Kutta method for solving $f(x) = 0$. (Chinese summary) 91d:65069
- Xu, Zeng Kun see Wang, Hui, 91m:65142
- Yang, Li Jun Local analysis of double singular point and computation of bifurcation direction. 91f:65098
- Zhao, Feng Guang see Wang, De Ren, 91g:65111

Items with secondary classifications in 65H05

- Bi, He Ping see Yuan, Zhao Ding; et al., 91d:65057
- Bihani, Ofer (with Wenzel, Wolfgang) Unstable periodic orbits and the symbolic dynamics of the complex Hénon map. 91j:58101
- Conrad, Michel Yves (with Fragniaud, Pierre) Finding the roots of a polynomial on an MIMD multicomputer. (Not in MR)
- Dunham, Charles B. (with Zhu, Chang Zhong) Exact approximation of nodes. 91d:65032

- Fraignaud, Pierre. *see* Cosnard, Michel Yves, (Not in MR)
- Friedman, Joel. On the convergence of Newton's method. **91a:30005**
- Georg, Kurt (with Zachmann, David). Nonlinear convection diffusion equations and Newton-like methods. (see **91e:65005**)
- Ghaderpanah, S. (with Klasa, S.). Polynomial scaling. **91a:65152**
- Griewank, Andreas. Automatic evaluation of first and higher-derivative vectors. (see **91m:58001**)
- Han, Dan Fu. *see* Wang, Xing Hua, **91d:58014**
- Hearn, Anthony C. Equation solving by symbolic computation. (see **91k:00034**)
- Huynh The Phung. *see* Pham Huy Diên, **91k:65108**
- Klasa, S. *see* Ghaderpanah, S., **91a:65152**
- Li, Bo Hu. *see* Yuan, Zhao Ding; et al., **91d:65057**
- Liu, Bo. The accelerative method of approximate bifurcation solution. (see **91b:00048**)
- Liu, De Gui. *see* Yuan, Zhao Ding; et al., **91d:65057**
- Mitra, Arunkumar. Graphing implicit functions $f(x, y) = 0$. **91i:65032**
- Pham Huy Diên (with Huynh The Phung). Algorithm for finding a solution to the inclusion $0 \in F(x)$. **91k:65108**
- Robin, A. C. Newton-Raphson behaving chaotically. **91d:58168**
- Robin, Jif. Interval solutions of linear interval equations. (Russian and Czech summaries) **91g:65105**
- Vasil'ev, V. A. Topological complexity of algorithms for the approximate solution of systems of polynomial equations. **91c:68061**
- Wang, Xing Hua (with Han, Dan Fu). Domain estimates and point estimates for Newton iteration. **91d:58014**
- Wenzel, Wolfgang. *see* Bihani, Ofer, **91j:58101**
- Yakobsohn, Jean-Claude. On Newton's rule and Sylvester's theorems. **91j:12002**
- Yardley, Peter D. Graphical solution of the cubic equation developed from the work of Omar Khayyam. **91i:01013**
- Yuan, Zhao Ding (with Liu, De Gui; Li, Bo Hu; Bi, He Ping). The convergence of an asynchronous parallel iteration method for solving linear and nonlinear algebraic equations. (Chinese. English summary) **91d:65057**
- Zachmann, David. *see* Georg, Kurt, **(91e:65005)**
- Zhu, Chang Zhong. *see* Dunham, Charles B., **91d:65032**
- ### 65H10 Systems of equations
- Allgower, Eugene L. (with Georg, Kurt). Estimates for piecewise linear approximations of implicitly defined manifolds. **91d:65070**
- (with Georg, Kurt). Numerically stable homotopy methods without an extra dimension. **91i:65095**
- Auzinger, Winfried (with Stetter, H. J.). An elimination algorithm for the computation of all zeros of a system of multivariate polynomial equations. **91g:65112**
- Bae, Sung Han. *see* Kwak, Do Young; et al., **91b:65062**
- Bai, Feng Shan (with Li, Qing Yang). Higher-order well-posed auxiliary equations for computing simple bifurcation points and selections of their initial values. (Chinese. English summary) **91c:65038**
- Belash, K. N. Solution of systems of nonlinear equations of general form. (Russian) **91g:65113**
- Berman, Sorrell. An example of propagation of error associated with an iterated least squares solution. **91d:65071**
- Bogle, I. D. L. (with Perkins, J. D.). A new sparsity preserving quasi-Newton update for solving nonlinear equations. **91f:65099**
- Boorj, Samih K. (with Walker, Homer F.). Least-change secant updates of nonsquare matrices. **91g:65122**
- Brown, Peter N. (with Saad, Youcef). Hybrid Krylov methods for nonlinear systems of equations. **91c:65069**
- Bui Doan, Khanh. Un calcul numérique des différentes solutions d'un système d'équations non-linéaires. (English summary) [A numerical calculation of different solutions of a system of nonlinear equations] **91a:65100**
- Cal, Yu Zhi. An adaptive quasi-Newton L -update method for solving systems of nonlinear equations. (Chinese. English summary) **91a:65137**
- Castelo, A. (with De Freitas, S.; Tavares dos Santos, Geovan). PL approximation to manifolds and its application to implicit ODEs. **91h:65082**
- Chen, Xiao Jun. On the convergence of Brodyen-like methods for nonlinear equations with nondifferentiable terms. **91k:65087**
- *see also* Yamamoto, Tetsuro, **91j:65094**
- Chen, Zhi. *see* Deng, Nai Yang, **91m:65143**
- Choi, U Jin. *see* Kwak, Do Young; et al., **91b:65062**
- Coleman, Thomas F. (with Li, Guang Ye). Solving systems of nonlinear equations on a message-passing multiprocessor. **91i:65096**
- Cvetković, Ljiljana. *see* Herceg, Dragoslav; et al., **91b:65061**
- De Freitas, S. *see* Castelo, A.; et al., **91h:65082**
- Deng, Nai Yang (with Chen, Zhi). Truncated nonlinear ABS algorithm and its convergence property. (German summary) **91m:65143**
- Di Lena, Giovanni (with Messano, B.; Zitarosa, A.). On the generalized successive approximations method. **91g:65114**
- Feng, Guo Chen. *see* Wang, Yu, **91f:65107**
- Frommer, Andreas. Lokale Konvergenzaussagen bei nichtlinearen Mehrfachzerlegungen. [Statements of local convergence in nonlinear multisplittings] **91h:65060**
- Galantai, A. Block ABS methods for nonlinear systems of algebraic equations. **91g:65115**
- Georg, Kurt. An introduction to PL algorithms. **91h:65083**
- *see also* Allgower, Eugene L., **91d:65070** and **91i:65095**
- Golovkin, N. M. (with Morozov, V. V.). Solution of systems of algebraic equations that arise in network design. (Russian) (see **91k:93005**)
- Griewank, Andreas. Direct calculation of Newton steps without accumulating Jacobians. **91k:65088**
- Guljai, Boris. Some convergence properties of rank-one quasi-Newton methods. (Serbo-Croatian summary) **91a:65138**
- Guttala, Ramesh S. *see* Zafria, Pedro J., **91b:65063** and **91k:65090**
- Haegemans, Ann. *see* Verlinden, P., **91e:65071**
- Harker, Patrick T. (with Pang, Jong-Shi). A damped-Newton method for the linear complementarity problem. **91f:65101**
- Herceg, Dragoslav (with Cvetković, Ljiljana; Petrović, Nenad). On an iterative method for solving certain nonlinear systems. (Serbo-Croatian summary) **91b:65061**
- (with Krejić, Nataša). On two relaxation methods for solving systems of nonlinear equations. (Serbo-Croatian summary) (see **91m:00027**)
- Herrero, Carmen (with Silva, José A.). On the equivalence between strong solvability and strict semimonotonicity for some systems involving Z -functions. **91m:65144**
- Høy, Annegret (with Schwetlick, Hubert). Some superlinearly convergent methods for solving singular nonlinear equations. **91g:65116**
- A superlinearly convergent Gauss-Newton-type method for rankdeficient consistent least squares problems. **91m:65145**
- Hughes-Hallett, A. J. A note on the difficulty of comparing iterative processes with differing rates of convergence. **91i:65097**
- Jin, Chong Fang. The use of the Schubert method to solve singular problems. (Chinese. English summary) **91f:65102**
- Jurkat, W. B. (with Zwiesler, H. J.). Piecewise algebraic functions. **91f:65103**
- Kalaba, Robert (with Tesfatian, L.). Solving nonlinear equations by adaptive homotopy continuation. **91m:65146**
- Károlyics, F. An interval method for nonlinear systems of equations. **91f:65104**
- Kang, Li Shan. *see* Shao, Jian Ping, **91m:65149**
- Kardash, A. I. *see* Vengerskii, P. S.; et al., **91j:65092**
- Kearfott, R. Baker. Corrigenda: "Some tests of generalized bisection" [ACM Trans. Math. Software 13 (1987), no. 3, 197–220; MR 88m:65081]. (Not in MR)
- Preconditioners for the interval Gauss-Seidel method. **91d:65072**
- Krejić, Nataša. *see* Herceg, Dragoslav, **(91m:00027)**
- Kunkel, Peter. Efficient computation of singular points. **91a:65139**
- Kuntsevich, V. M. (with Nikitenko, A. S.). Determination of estimates for the solution set of nonlinear equations with indeterminate parameters. **91k:65089**
- Küpper, Tassilo (with Ulrich, Klaus). Stepwise control for pathfollowing methods through reduced basis techniques. (see **91b:00048**)
- Kwak, Do Young (with Choi, U Jin; Bae, Sung Han). An algebraic geometric method to calculate branches near a bifurcation point. **91b:65062**
- Li, Guang Ye. *see* Coleman, Thomas F., **91i:65096**
- Li, Qing Yang. *see* Bai, Feng Shan, **91c:65038** and Wang, Ze Ke, **91j:65093**
- Li, Tien-Yien (with Wang, Xiao Shen). Solving deficient polynomial systems with homotopies which keep the subschemes at infinity invariant. **91j:65089**
- Martinez, José Mario. A family of quasi-Newton methods for nonlinear equations with direct secant updates of matrix factorizations. **91h:65084**
- Mei, Zhen. A Newton-like method for simple bifurcation problems with application to large sparse systems. **91m:65147**
- A special extended system and a Newton-like method for simple singular nonlinear equations. (German summary) **91j:65090**
- Melenk, Herbert. Solving polynomial equation systems by Groebner type methods. (Not in MR)
- Meray, Pavol. On the existence of a solution of $F(x) = 0$ in some compact sets. (Russian summary) **91d:65073**
- Symmetric homotopies for solving systems of polynomial equations. (Russian summary) **91d:65074**
- Messano, B. *see* Di Lena, Giovanni; et al., **91g:65114**
- Mitra, Arunkumar. A neighborhood magnification method for solving implicit equations in two variables. **91f:65105**
- (Mo, Zi Zhong). *see* Wang, Ze Ke, **91j:65093**
- Morgan, Alexander P. (with Sommese, Andrew John). Generically nonsingular polynomial continuation. **91g:65117**
- Morozov, V. V. *see* Golovkin, N. M., **(91k:93005)**
- Nikitenko, A. S. *see* Kuntsevich, V. M., **91k:65089**
- Novaković, Zoran R. A Lyapunov-like methodology for solving systems of nonlinear equations. (see **91c:00029**)
- Solving systems of nonlinear equations using the Lyapunov direct method. (Not in MR)
- Ochiai, Makoto. *see* Yamamura, Kiyotaka, **91m:65150**
- O'Neill, Kevin A. The continuation method for rational and deficient systems. **91f:65106**
- Pang, Jong-Shi. *see* Harker, Patrick T., **91f:65101**
- Perkins, J. D. *see* Bogle, I. D. L., **91f:65099**
- Petrović, L. D. *see* Petrović, Miodrag S., **91a:65140**
- Petrović, Miodrag S. (with Petrović, L. D.). On the bounds of the R -order of some iterative methods. **91a:65140**
- Petrović, Nenad. *see* Herceg, Dragoslav; et al., **91b:65061**
- Pintér, J. Solving nonlinear equation systems via global partition and search: some experimental results. (German summary) **91a:65141**
- (Qi, Li Qun). *see* Wang, Ze Ke, **91j:65093**
- Redkovskii, N. N. A numerical method for solving systems of nonlinear equations. **91m:65148**
- Romanli, P. G. An iterative method for solving systems of nonlinear equations on a parallelepiped. **91g:65118**
- Saad, Youcef. *see* Brown, Peter N., **91c:65069**
- Schmidt, Phillip H. PL methods for constructing a numerical implicit function. **91i:65098**
- Schulze, Reinhard. Die ITEX- und die Polynom-ITEX-Methoden zur Lösung nichtlinearer Gleichungssysteme. [The ITEX and the polynomial ITEX method for the solution of systems of nonlinear equations] (see **91k:65012**)
- Schwetlick, Hubert. *see* Høy, Annegret, **91g:65116**
- Sen, P. S. *see* Vengerskii, P. S.; et al., **91j:65092**
- Shao, Jian Ping (with Kang, Li Shan). An asynchronous parallel mixed algorithm for solving algebraic systems of equations. (Chinese. English summary) **91m:65149**
- Shen, Yun Qiu (with Ypma, Tjalling J.). Solving nonlinear systems of equations with only one nonlinear variable. **91g:65119**
- *see also* Ypma, Tjalling J., **91g:65123**
- Shen, Zu He (with Wolfe, M. A.). A note on the comparison of the Kantorovich and Moore theorems. **91h:65085**
- Shimiyalee, R.-N. Optimization of an iterative process for solving a system of equations.

- (Russian. English and Lithuanian summaries) 91e:65070
- Silva, Jose A. *see* Herrero, Carmen, 91m:65144
- Smale, Stephen \otimes Complexity aspects of numerical analysis. 91j:65091
- Sommese, Andrew John *see* Morgan, Alexander P., 91g:65117
- Soriano Arbizu, J. M. On the existence and computation of zeros of regular functions. (Spanish. English summary) 91g:65120
- Stetter, H. J. *see* Auzinger, Winfried, 91g:65112
- Tavares dos Santos, Geovan *see* Castelo, A.; et al., 91h:65082
- Tesfatsion, L. *see* Kalaba, Robert, 91m:65146
- (Traub, Joseph F.) *see* Smale, Stephen, 91j:65091
- Trif, Damiana On a predictor-corrector method to follow a continuum of $F^{-1}(0)$, for $F: \mathbb{R}^{n+1} \rightarrow \mathbb{R}^n$. (see 91k:00030)
- Ulrich, Klaus *see* Küpper, Tassilo, (91b:00048)
- Vengerskil, P. S. (with Kardash, A. I.; Sen'ko, P. S.) Application of some interval iterative methods to the solution of systems of nonlinear algebraic equations. (Russian) 91j:65092
- Verlinden, P. (with Haegemans, Ann) Real homotopy for solving systems of real polynomial equations. 91g:65071
- Walker, Homer F. Newton-like methods for underdetermined systems. 91h:65086
- (with Watson, Layne T.) Least-change secant update methods for underdetermined systems. 91g:65121
- *see also* Bourji, Samih K., 91g:65122
- Wang, Xiao Shen *see* Li, Tien-Yien, 91j:65089
- Wang, Yu (with Feng, Guo Chen) Block relaxation BFGS methods. (Chinese. English summary) 91f:65107
- Direct exchange entry updates of symmetric matrix factorizations. (Chinese. English summary) 91f:65099
- Wang, Ze Ke A constructive approach to zero distribution of a class of continuous functions. 91f:65108
- On the basic theory of the vector-labelled simplicial algorithm—some opinions concerning the book *Numerical solution methods for systems of nonlinear equations* (Chinese) [Science Press, Beijing, 1987] by Q. Y. Li, Z. Z. Mo and L. Q. Qi. (Chinese. English summary) 91j:65093
- Watson, Layne T. *see* Walker, Homer F., 91g:65121
- Williams, Margaret A. (with Wilson, D. G.) Iterative solution of a nonlinear system arising in phase-change problems. 91f:65100
- Wilson, D. G. *see* Williams, Margaret A., 91f:65100
- Wolfe, M. A. *see* Shen, Zu He, 91h:65085
- Yamamoto, Tetsuro (with Chen, Xiao Jun) An existence and nonexistence theorem for solutions of nonlinear systems and its application to algebraic equations. 91j:65094
- Yamamura, Kiyotaka (with Ochiai, Makoto) An efficient integer labelling method for solving systems of nonlinear equations with separable mappings. 91m:65150
- Ypma, Tjalling J. Finite difference approximation of sparse Jacobian matrices in Newton-like methods. 91f:65109
- (with Shen, Yun Qiu) Solving $N + m$ nonlinear equations with only m nonlinear variables. (German summary) 91f:65123
- *see also* Shen, Yun Qiu, 91g:65119
- Zitarosa, A. *see* Di Lena, Giovanni; et al., 91g:65114
- Zufiria, Pedro J. (with Guttalu, Ramesh S.) A computational method for finding all the roots of a vector function. 91h:65063
- (with Guttalu, Ramesh S.) On an application of dynamical systems theory to determine all the zeros of a vector function. 91k:65090
- Zwiesler, H. J. *see* Jurkat, W. B., 91f:65103

Items with secondary classifications in 65H10

- Banks, H. T. (with Ito, Kazufumi) A numerical algorithm for optimal feedback gains in high-dimensional linear quadratic regulator problems. 91m:93055
- Bhaya, A. *see* Kaszkurewicz, E.; et al., 91g:65324
- Coleman, Thomas F. On characterizations of superlinear convergence for constrained optimization. 91h:65105
- Durallet, Jeanne Computation of solutions of two-point boundary value problems by a simplicial homotopy algorithm. 91j:65130
- El Baz, Didier M -functions and parallel asynchronous algorithms. 91e:65165
- Field, David A. Convergence rates for Padé-based iterative solutions of equations. 91m:65139
- Frommer, Andreas (with Mayer, Günter) Efficient methods for enclosing solutions of systems of nonlinear equations. (German summary) 91g:65102
- Gao, Tang An The simplex algorithm for the three-solution theorem. (Chinese. English summary) 91g:65140
- Ge, Ren Pu Finding more and more solutions of a system of nonlinear equations. 91b:49041
- Gianni, Patrizia Properties of Gröbner bases under specializations. 91g:13032
- Griewank, Andreas (with Sheng, Laihua) On the Gauss-Broyden method for nonlinear least squares. 91a:65154
- Healey, Timothy J. Numerical bifurcation with symmetry: diagnosis & computation of singular points. 91d:58061
- Ito, Kazufumi *see* Banks, H. T., 91m:93055
- Kalkbrener, Michael Solving systems of algebraic equations by using Gröbner bases. 91g:13031
- Kaszkurewicz, E. (with Bhaya, A.; Šiljak, Dragoslav D.) On the convergence of parallel asynchronous block-iterative computations. 91g:65324
- Kearfott, R. Baker Interval arithmetic techniques in the computational solution of nonlinear systems of equations: introduction, examples, and comparisons. 91f:65093
- Lapin, A. V. Relaxation methods for some classes of variational inequalities in \mathbb{R}^n . (Russian) 91g:65143
- Landberg, Bruce N. (with Poore, Aubrey B.) Variable order Adams-Bashforth predictors with an error-stepsize control for continuation methods. 91m:65198
- Mayer, Günter *see* Frommer, Andreas, 91g:65102
- Mejia, Raymond Interactive program for continuation of solutions of large systems of nonlinear equations. (see 91e:65005)

- Morgan, Alexander P. \star Solving polynomial systems using continuation for engineering and scientific problems. 91c:00014
- (with Sommese, Andrew John; Watson, Layne T.) Finding all isolated solutions to polynomial systems using HOMPACK. 91g:65003
- Neumaier, Arnold (with Shen, Zu He) The Krawczyk operator and Kantorovich's theorem. 91g:65103
- Noda, Tatsuo The Aitken-Steffensen formula for systems of nonlinear equations. IV. 91j:65186
- Pang, Jong-Shi Newton's method for B -differentiable equations. 91m:49029
- Poore, Aubrey B. *see* Landberg, Bruce N., 91m:65198
- Rump, Siegfried M. Rigorous sensitivity analysis for systems of linear and nonlinear equations. 91h:65072
- Schwetlick, Hubert Zur numerischen Behandlung nichtlinearer parameterabhängiger Gleichungen. [On the numerical treatment of nonlinear parameter-dependent equations] 91h:58005
- Shen, Zu He *see* Neumaier, Arnold, 91g:65103
- Sheng, Laihua *see* Griewank, Andreas, 91a:65154
- Šiljak, Dragoslav D. *see* Kaszkurewicz, E.; et al., 91g:65324
- Sommese, Andrew John *see* Morgan, Alexander P.; et al., 91g:65003
- Sukacheva, T. G. *see* Sviridyuk, G. A., 91g:65146
- Sviridyuk, G. A. (with Sukacheva, T. G.) Galerkin approximations of singular nonlinear equations of Sobolev type. 91g:65146
- Todd, Michael J. *see* Ye, Yinyu, 91g:90121
- Varah, James M. Relative sizes of the Hessian terms in nonlinear parameter estimation. 91a:65103
- Varga, Andrés A note on Hamming's algorithm for the discrete Lyapunov equation. 91m:93088
- Vrahatis, Michael N. Solving systems of nonlinear equations using the nonzero value of the topological degree. 91g:65006
- Watson, Layne T. *see* Morgan, Alexander P.; et al., 91g:65003
- Welle, Aleksander (with Zatoň, Wojciech) Simulation of econometric models with the Gauss-Seidel method. (Czech summary) 91h:90033
- Ye, Yinyu (with Todd, Michael J.) Containing and shrinking ellipsoids in the path-following algorithm. 91g:90121
- Zatoň, Wojciech *see* Welle, Aleksander, 91h:90033
- Zhou, Ru Hai An interval test for nonlinear systems. (Chinese. English summary) 91k:65062

65H17 Eigenvalues, eigenvectors and bifurcation problems [see also 58C40, 58E07, 58F14, 90C30]

- Altman, Tom A hypo-quadratic convergence method for systems of nonlinear equations. 91g:65124
- Govaerts, W. Bordered augmented linear systems in numerical continuation and bifurcation. 91m:65151
- Huitfeldt, Jacques (with Ruhe, Axel) A new algorithm for numerical path following applied to an example from hydrodynamical flow. 91j:65095
- Khlibnik, A. I. Numerical methods in the bifurcation analysis of dynamical systems. An approach based on parameter continuation. (Russian) (see 91i:00015)
- Pönnisch, Gerd A two-stage Newton-like method for computing simple bifurcation points of nonlinear equations depending on two parameters. 91m:65152
- Ruhe, Axel *see* Huitfeldt, Jacques, 91j:65095

Items with secondary classifications in 65H17

- Bae, Sung Han *see* Kwak, Do Young; et al., 91b:65062
- Bai, Feng Shan The numerical recognition of bifurcation problems. 91e:58034
- Brown, H. S. (with Jolly, Michael S.; Kevrekidis, Ioannis G.; Titi, Edriss S.) Use of approximate inertial manifolds in bifurcation calculations. 91g:58251
- Buslaev, A. P. Nonlinear spectra of matrices and extremal problems. (Russian) 91h:65051
- Choi, U Jin *see* Kwak, Do Young; et al., 91b:65062
- Fedorov, F. I. Three-dimensional perturbation theory. (Russian. English summary) 91a:65088
- Jolly, Michael S. *see* Brown, H. S.; et al., 91g:58251
- Karjshov, S. V. A numerical method for solving an eigenvalue problem with nonlinear occurrence of the spectral parameter for sparse matrices. 91a:65090
- Erratum: "A numerical method for solving an eigenvalue problem with nonlinear occurrence of the spectral parameter for sparse matrices" [Zh. Vychisl. Mat. i Mat. Fiz. 29 (1989), no. 12, 1898–1903; MR 91a:65090]. (Russian) 91g:65072
- Kevrekidis, Ioannis G. *see* Brown, H. S.; et al., 91g:58251
- Kokovikhina, O. V. A numerical method for solving a nonlinear spectral problem. (Russian) 91h:65053
- Kwak, Do Young (with Choi, U Jin; Bae, Sung Han) An algebraic geometric method to calculate branches near a bifurcation point. 91b:65062
- Titi, Edriss S. *see* Brown, H. S.; et al., 91g:58251

65H20 Global methods, including homotopy approaches [see also 58C30, 90C30]

- Wang, Ze Ke A geometrical interpretation of the without-exception feasibility of PL homotopy methods. 91e:65072
- On the geometry of paths generated by PL homotopy methods. 91m:65153
- The wing-shaped structure of paths generated by the PL-homotopy method. (Chinese) 91m:65154

Items with secondary classifications in 65H20

- Durallet, Jeanne Computation of solutions of two-point boundary value problems by a simplicial homotopy algorithm. 91j:65130
- Kalaba, Robert (with Tesfatsion, L.) Solving nonlinear equations by adaptive homotopy continuation. 91m:65146

- Li, Tien-Yien (with Wang, Xiao Shen) Solving deficient polynomial systems with homotopies which keep the subchemes at infinity invariant. 91j:65089
- Ochiai, Makoto see Yamamura, Kiyotaka, 91m:65150
- Tesfatsion, L. see Kalaba, Robert, 91m:65146
- Wang, Xiao Shen see Li, Tien-Yien, 91j:65089
- Yamamura, Kiyotaka (with Ochiai, Makoto) An efficient integer labelling method for solving systems of nonlinear equations with separable mappings. 91m:65150

65H99 None of the above, but in this section

- Bertsekas, Dimitri P. see Tseng, Paul; et al., 91e:65075
- Chen, Kai Zhou (with Dang, Chuang Yin) A new variable-dimension simplicial algorithm based on a new triangulation D_1 . (Chinese. English summary) 91h:65087
- Cooper, Jeffrey A. A formula yielding an approximate solution for some higher degree trinomial equations. (Not in MR)
- Dai, Rui-Xin (with Rheinboldt, Werner C.) On the computation of manifolds of foldpoints for parameter-dependent problems. 91e:65073
- Dang, Chuang Yin see Chen, Kai Zhou, 91h:65087
- Demeure, Cédric J. (with Mullis, Clifford T.) A Newton-Raphson method for moving-average spectral factorization using the Euclid algorithm. 91g:65125
- Filam, Sjur D. (with Zowe, Jochem) Relaxed outer projections, weighted averages and convex feasibility. 91e:65074
- Mullis, Clifford T. see Demeure, Cédric J., 91g:65125
- Rabier, Patrick J. (with Rheinboldt, Werner C.) On a computational method for the second fundamental tensor and its application to bifurcation problems. 91h:65088
- Rheinboldt, Werner C. see Dai, Rui-Xin, 91e:65073 and Rabier, Patrick J., 91h:65088
- Tseng, Paul (with Bertsekas, Dimitri P.; Tsitsiklis, John N.) Partially asynchronous, parallel algorithms for network flow and other problems. 91e:65075
- Tsitsiklis, John N. see Tseng, Paul; et al., 91e:65075
- Urahama, Kichii Convergence properties of waveform relaxation-Newton method. 91e:65076
- Wang, Ze Ke The fundamental theorem on vector labelling complementary pivoting algorithms. (Chinese. English summary) 91m:65155
- Zowe, Jochem see Filam, Sjur D., 91e:65074

Items with secondary classifications in 65H99

- Abenda, S. (with Turchetti, G.) Inverse problem for fractal sets on the real line via the moment method. (Italian and Russian summaries) 91a:58107
- Barrodale, I. see Zala, C., (91e:65003)
- Belash, K. N. (with Tret'yakov, A. A.) Methods for solving degenerate problems. (Russian) (see 91k:65006)
- Benjamin, Arthur T. Errata: "The bisection method: which root?" [Amer. Math. Monthly 94 (1987), no. 9, 861-863; MR 89c:26016]. 91c:26013
- Docherty, Paul see Scales, John A.; et al., 91c:650019
- Feng, Ke Qin Some iterative recurrence formulas. (Chinese summary) 91k:26001
- Gersztenkorn, Adam see Scales, John A.; et al., 91c:650019
- Gu, Ming see Li, Jiong Xing, 91a:65124
- Hirsch, Michael D. (with Papadimitriou, Christos H.; Vavasis, Stephen A.) Exponential lower bounds for finding Brouwer fixed points. 91e:90021
- Jajou, Amer F. (with Zimmermann, Karel) Max-separable equations and the set covering. (Russian and Czech summaries) 91a:90117
- Johnstone, John K. Working with ruled surfaces in solid modeling. 91a:65033
- Jürgens, Hartmut see Peitgen, Heinz-Otto, 91d:58110
- Li, Jiong Xing (with Gu, Ming) An error bound for the discrete Lyapunov matrix equation $X - AXB = C$. (Chinese. English summary) 91a:65124
- Lukács, Gábor The generalized inverse matrix and the surface-surface intersection problem. 91f:65041
- Martin, Clyde Franklin (with Miller, John D.; Pearce, K.) Sums of exponentials with polynomial coefficients. 91g:65019
- Miller, John D. see Martin, Clyde Franklin; et al., 91g:65019
- More, Jorge J. A collection of nonlinear model problems. 91e:90010
- Morgan, Alexander P. (with Somme, Andrew John; Wampler, Charles W.) Polynomial continuation for mechanism design problems. 91f:70002
- Papadimitriou, Christos H. see Hirsch, Michael D.; et al., 91c:90021
- Pearce, K. see Martin, Clyde Franklin; et al., 91g:65019
- Peitgen, Heinz-Otto (with Jürgens, Hartmut) Fraktale: Computerexperimente (ent)zaubern komplexer Strukturen. [Fractals: computer experiments (de)mystify complex structures] 91d:58110
- Scales, John A. (with Docherty, Paul; Gersztenkorn, Adam) Regularisation of nonlinear inverse problems: imaging the near-surface weathering layer. 91c:90019
- Somme, Andrew John see Morgan, Alexander P.; et al., 91f:70002
- Tret'yakov, A. A. see Belash, K. N., (91k:65006)
- Turchetti, G. see Abenda, S., 91a:58107
- Vavasis, Stephen A. see Hirsch, Michael D.; et al., 91c:90021
- Wampler, Charles W. see Morgan, Alexander P.; et al., 91f:70002
- Yomdin, Y. Sard's theorem and its improved versions in numerical analysis. 91j:58026
- Zala, C. (with Barrodale, I.) Applications of discrete L_1 methods in science and engineering. (see 91e:65003)
- Zimmermann, Karel see Jajou, Amer F., 91a:90117

65Jxx Numerical analysis in abstract spaces

- Bakushinskii, A. B. (with Goncharkii, A. V.) * Итеративные методы решения некорректных задач. (Russian) [Iterative methods for solving ill-posed problems] 91h:65064
- Chernyshenko, V. M. Analogues of the Seidel method. (Russian) (see 91g:00035)
- Goncharkii, A. V. see Bakushinskii, A. B., 91h:65064

Items with secondary classifications in 65Jxx

- (Blicer, Adam M.) see Glasko, V. B., 91h:00015

- (Boron, Leo F.) see Zeidler, Eberhard, 91b:47002
- Glasko, V. B. * Inverse problems of mathematical physics. 91h:00015
- Lebedev, V. I. * Функциональный анализ и вычислительная математика. (Russian) [Functional analysis and numerical mathematics] 91g:00001
- Zeidler, Eberhard * Nonlinear functional analysis and its applications. II/B. 91b:47002

65J05 General theory

- Bezhaev, A. Yu. * Воспроизводящие отображения и векторные сплайны-функции. (Russian) [Generating mappings and vector spline functions] 91e:65077
- Böhmer, Klaus Defect corrections and mesh independence principle for operator equations and their discretizations. 91f:65110
- Boulbrachene, Messaoud (with Cortey-Dumont, Philippe; Miellou, Jean-Claude) Perturbation de méthodes asynchrones. (English summary) [Perturbation of asynchronous methods] 91e:65078
- Cortey-Dumont, Philippe see Boulbrachene, Messaoud; et al., 91e:65078
- Deville, M. O. see Francken, P.; et al., 91j:65096
- Francken, P. (with Deville, M. O.; Mund, E. H.) On the spectrum of the iteration operator associated to the finite element preconditioning of Chebyshev collocation calculations. 91j:65096
- Führich, Arnold see Kaiser, Hans; et al., 91h:65090
- Jankó, Béla Über die ableitungsfreie Näherungsverfahren von der höheren Konvergenzenordnung für die Auflösung nichtlineare Operatorgleichungen in pseudometrischen Räumen. [On derivative-free approximation methods of higher order of convergence for the solution of nonlinear operator equations in pseudometric spaces] 91d:65075
- Jonca, Andrzej Prediction bands for ill-posed problems. 91h:65089
- Kaiser, Hans (with Führich, Arnold; Stradowska-Krok, Ewa) Untersuchung iterativer Prozesse mit Hilfe der Operatorenrechnung für Elementfolgen. (English and Russian summaries) [Investigation of iterative processes with the aid of the operator calculus for sequences of elements] 91h:65090
- Kan, V. N. On the convergence of an iterative process. (Russian) 91f:65111
- Kon, Mark A. (with Novak, Erich) On the adaptive and continuous information problems. 91a:65143
- (with Novak, Erich) The adaption problem for approximating linear operators. 91a:65142
- Kwapisz, Marian On the error evaluation of approximate solutions of discrete equations. 91e:65079
- Lin, Qi Hou A convergence theorem of the sequence of Ishikawa iterates for quasi-contractive mappings. 91m:65156
- Mer'shikov, Yu. L. A regularizing algorithm for a class of approximate functional equations of the first kind. (Russian) (see 91h:00029)
- Miellou, Jean-Claude see Boulbrachene, Messaoud; et al., 91e:65078
- Mund, E. H. see Francken, P.; et al., 91j:65096
- Neuberger, J. W. Calculation of sharp shocks using Sobolev gradients. (see 91e:90026)
- Novak, Erich see Kon, Mark A., 91a:65142 and 91a:65143
- Obgadz, T. A. Application of the method of R -functions and Ψ -transformation for solutions of operator equations. (Russian. English and Georgian summaries) 91j:65097
- Owens, R. W. (with Sreedharan, V. P.) An algorithm for approximation by elements of a cone in a Banach space. 91k:65091
- Păvăloiu, Ion Sur l'approximation des racines des équations dans un espace métrique. [Approximation of the roots of equations in a metric space] 91d:65076
- Potra, F. A. On Q -order and R -order of convergence. 91d:65077
- Ritov, Y. The convergence of an algorithm for finding the distance between a ball in a subspace and a sum of subspaces. 91h:65091
- Sreedharan, V. P. see Owens, R. W., 91k:65091
- Stradowska-Krok, Ewa see Kaiser, Hans; et al., 91h:65090
- Szidarovszky, Ferenc On the convergence of nonstationary algorithms modeled by point-to-set maps. 91j:65098
- Tautenhahn, Ulrich Numerical solution of implicit ill-posed inverse problems by regularization. 91e:65112
- Wasilkowski, G. W. On adaptive information with varying cardinality for linear problems with elliptically contoured measures. 91a:65144
- (with Woźniakowski, H.) Mixed settings for linear problems. 91h:65065
- Woźniakowski, H. see Wasilkowski, G. W., 91h:65065

Items with secondary classifications in 65J05

- Bakaev, N. Ya. Stability of weighted difference schemes. 91k:65128
- Gutknecht, Martin H. Iterative methods for linear systems of equations designed via complex rational approximation. (see 91j:41001)
- Lelek, Vladimír (with Marek, Ivo) Data fitting under eigenvalue constraints. (see 91h:60032)
- Lepp, Riho Discrete approximation of extremal problems with operator constraints of inequality type. (Russian) 91m:65183
- Maday, Yvon Analysis of spectral projectors in one-dimensional domains. 91c:41095
- Marek, Ivo see Lelek, Vladimír, (91h:60032)
- Mulansky, Bernd Glättung mittels zweidimensionaler Tensorprodukt-Splinefunktionen. [Smoothing by means of two-dimensional tensor product spline functions] 91g:65029
- Noor, Muhammad Aslam General quasi-complementarity problems. 91k:90207
- Sabatier, Pierre C. A few geometrical features of inverse and ill-posed problems. 91c:90016
- Sendov, Biagovest Kh. * Hausdorff approximations. 91m:41001
- Stuart, Andrew The global attractor under discretisation. 91g:58172

65J10 Equations with linear operators (do not use 65Fxx)

- Aller, B. The generalized residual principle for L -pseudosolutions. (Russian. Tajiki summary) 91e:65080
- The generalized residual principle and the generalized residual method for L -pseudosolutions. (Russian) 91h:65092
- Ardelyan, N. V. (with Nagaeva, E. I.) Convergence of iterative methods for solving systems of two linear operator equations. (Russian) 91d:65078

- Bakaev, N. Yu. A study of the stability of some two-layer difference schemes. 91f:65081
- Bellini-Morante, Aldo. *see* Totaro, Silvia, 91g:65133
- Bezhaev, A. Yu. (with Rozhenko, A. I.) ★ Вариационные сплайны в тензорных произведениях пространств. (Russian) [Variational splines in tensor products of spaces] 91k:65092
- Björstad, Petter E. (with Mandel, Jan) On the spectra of sums of orthogonal projections with applications to parallel computing. 91m:65157
- Bondarev, B. V. (with Dakhmani, A.) Stochastic approximation in ill-posed problems with random errors. 91h:65093
- Bramble, James H. (with Pasciak, Joseph E.; Wang, Jun Ping; Xu, Jinchao) Convergence estimates for multigrid algorithms without regularity assumptions. 91m:65158
- Charushnikov, V. D. On the approximate solution of operator equations. (Russian) (*see* 91g:00034)
- Chen, Yun Feng The conditional least squares solution to abstract linear equations. (Chinese. English summary) 91k:65093
- Dakhmani, A. *see* Bondarev, B. V., 91h:65093
- Deshpande, Lalita N. (with Limaye, Balmohan V.) On the stability of singular finite-rank methods. 91g:65126
- Di Lena, Giovanni (with Peluso, R. I.; Piazza, G.) A least-squares method for computing the eigenvalues and eigenvectors of symmetric matrices. (Italian. English summary) 91d:65079
- Fedchuk, O. V. The variational-gradient method for equations with an unbounded operator. (Russian) 91h:65094
- Ford, William F. *see* Sidi, Avram, 91m:65161
- Gaponenko, Yu. L. ★ Некорректные задачи на слабых компактах. (Russian) [Ill-posed problems on weakly compact sets] 91f:65113
- Gatica, Gabriel N. A Galerkin method with smoothing. 91j:65099
- Gilyazov, S. F. Some properties of the methods of conjugate directions. (Russian) (*see* 91g:65006)
- Grebennikov, A. I. Regularizing and optimal properties of the method of successive smoothings. (Russian) (*see* 91k:65009)
- Algorithms for solving integral equations with a singularity in the kernel in the presence of errors in the kernel and the right-hand side. (Russian) (*see* 91k:65009)
- On the justification of the spline approximation method. (Russian) (*see* 91k:65008)
- Herzberger, Jürgen A class of efficient iterative methods of bounding the inverse of a linear bounded operator. 91d:65080
- Imomnazarov, B. *see* Kuzhumuratov, A. Ya., 91h:65096
- Jones, Lee Kenneth (with Trutzu, V.) On extending the orthogonality property of minimum norm solutions in Hilbert space to general methods for linear inverse problems. 91h:65095
- Karimova, D. Kh. (with Stetsenko, V. Ya.) A method for accelerating the convergence of relaxation processes. (Russian. Tajiki summary) 91d:65081
- Khoromskii, B. N. *see* Zhidkov, E. P.; et al., 91g:65134
- Kilho, T. Optimal choice of the parameter in the iterated versions of the Tikhonov method on the class of sourcewise representable solutions. (Russian. English summary) 91g:65127
- Kolyadin, V. L. (with Kravchenko, V. F.) Statistically optimal solution of operator equations when the original data have finite size. 91e:65082
- Kravchenko, V. F. *see* Kolyadin, V. L., 91e:65082
- Krasker, L. A. Sufficient condition for the convergence of a triangular iterative method with a nonselfadjoint input operator. (Russian) 91g:65128
- Kuzhumuratov, A. Ya. (with Imomnazarov, B.) Positive solutions of ill-posed problems. (Russian. Tajiki summary) 91h:65096
- Lehtinen, Markku S. (with Päivrinta, Lassi; Somersalo, Erkki) Linear inverse problems for generalised random variables. 91f:65129
- Leyk, Zbigniew Galerkin method and optimal error algorithms in Hilbert spaces. 91k:65094
- Li, Rong Hua (with Yang, Hong Tao) Some convergence conditions for the Galerkin method. (Chinese. English summary) 91f:65101
- Limaye, Balmohan V. *see* Deshpande, Lalita N., 91g:65126
- Liu, Jia Qi *see* Liu, Zhen Yue, 91f:65039
- Liu, Zhen Yue (with Liu, Jia Qi) A class of variational methods for solving ill-posed problems. (Chinese. English summary) 91c:65039
- Louis, Alfred K. (with Maass, P.) A mollifier method for linear operator equations of the first kind. 91g:65130
- Maass, P. *see* Louis, Alfred K., 91g:65130
- Mandel, Jan *see* Björstad, Petter E., 91m:65157
- Margulis, L. F. (with Shagbazyan, A. M.) Estimates of the relative error for some iterative methods. (Russian. Tajiki summary) 91g:65131
- Nagaya, E. I. *see* Ardelyan, N. V., 91d:65078
- Ngongo, E. Mundari Approximations rationnelles type Padé d'un semi-groupe. (English summary) [Padé rational approximations of a semigroup] 91j:65100
- Approximations rationnelles type Norsett d'un semi-groupe. (English summary) [Norsett rational approximations of a semigroup] 91j:65101
- Nikonov, E. G. *see* Zhidkov, E. P.; et al., 91g:65134
- Päivrinta, Lassi *see* Lehtinen, Markku S.; et al., 91g:65129
- Pasciak, Joseph E. *see* Bramble, James H.; et al., 91m:65158
- Peluso, R. I. *see* Di Lena, Giovanni; et al., 91d:65079
- Piazza, G. *see* Di Lena, Giovanni; et al., 91d:65079
- Plato, Robert Optimal algorithms for linear ill-posed problems yield regularization methods. 91i:65102
- (with Vainikko, Gennadi) On the regularization of projection methods for solving ill-posed problems. 91h:65097
- Pokrzywa, Andrzej (with Reginska, Teresa) A class of regularization methods for ill posed problems. 91f:65114
- Pöschel, Gerd On computing coupled turning points of parameter dependent nonlinear equations. (*see* 91m:58001)
- Rass, Toomas Choice of parameter for the class of regularization methods under random error conditions. (Russian. English summary) 91m:65159
- Reddy, Satish C. (with Trefethen, Lloyd N.) Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues. 91j:65102
- Reginska, Teresa An iteration method of improving computable bounds for eigenvalues. 91g:65132
- *see also* Pokrzywa, Andrzej, 91f:65114
- Regava, Dzh. L. Convergence of an averaged scheme of summary approximation for an abstract parabolic equation. (Russian. English and Georgian summaries) 91f:65103
- Rozhenko, A. I. *see* Bezhaev, A. Yu., 91k:65092
- Samokhin, A. B. A multistep method of minimal residuals for solving linear equations. (Russian) 91m:65160
- Shaaban, M. *see* Stetsenko, V. Ya., 91j:65103
- Shadrin, V. Yu. Application of the multigrid method for solving linear functional equations. (Russian) (*see* 91k:00026)
- Shagbazyan, A. M. *see* Margulis, L. F., 91g:65131
- Sidi, Avram (with Ford, William F.) Quotient-difference type generalizations of the power method and their analysis. 91m:65161
- Soledki, S. G. Optimization of adaptive direct methods for solving operator equations in a Hilbert space. 91f:65115
- Somersalo, Erkki *see* Lehtinen, Markku S.; et al., 91g:65129
- Stetsenko, V. Ya. Estimates for the elasticity of solutions of linear integral and operator equations. (Russian. Tajiki summary) 91f:65116
- (with Shaaban, M.) Estimates for the solution of an operator equation. (Russian. Tajiki summary) 91j:65103
- *see also* Karimova, D. Kh., 91d:65081
- Tarasov, R. P. Numerical algorithms for canonical factorization and their application. (Russian) 91h:65098
- Totaro, Silvia (with Bellini-Morante, Aldo) On the discrete ordinate method in particle transport. (Italian summary) 91g:65133
- Trefethen, Lloyd N. *see* Reddy, Satish C., 91j:65102
- Trutzu, V. *see* Jones, Lee Kenneth, 91h:65095
- Vasarmann, O. ★ Обобщенные обратные отображения. (Russian) [Generalized inverse mappings] 91a:65145
- Vainikko, Gennadi *see* Plato, Robert, 91h:65097
- Van hamme, J. Generalized inverses of linear operators in Hilbert spaces. 91i:65104
- Wang, Guo Rong Iterative methods for computing the Drazin inverse and the W -weighted Drazin inverse of linear operators based on functional interpolation. (Chinese summary) 91f:65105
- Wang, Jun Ping *see* Bramble, James H.; et al., 91m:65158
- Xu, Jinchao *see* Bramble, James H.; et al., 91m:65158
- Yang, Hong Tao *see* Li, Rong Hua, 91f:65101
- Yang, Qing Min Stability theory of three-step difference schemes for self-conjugate lower bounded operator equations. (Chinese) 91m:65162
- Zhidkov, E. P. (with Nikonov, E. G.; Khoromskii, B. N.) Asymptotic estimates for the error of approximation by the Galerkin method for a class of quasipotential equations. (Russian) 91g:65134

Items with secondary classifications in 65J10

- Ahués, Mario Spectral condition numbers for defective elements of linear operators in Hilbert spaces. 91a:47015
- (Appell, Jürgen) *see* Krasnosel'skii, M. A.; et al., 91f:47051
- Ashyralyev, A. O. On uniform difference schemes of a higher order of approximation for elliptical equations with a small parameter. 91d:65105
- Bakaev, N. Yu. Estimates for the stability of a general discretization method. (Russian) 91e:65104
- Bouldin, Richard Operator approximations with stable eigenvalues. 91f:47022
- Deshpande, Lalita N. (with Limaye, Balmohan V.) A fixed point technique to refine a simple approximate eigenvalue and a corresponding eigenvector. 91a:47019
- Dye, John M. (with Khamsi, Mohamed A.; Reich, Simeon) Random products of contractions in Banach spaces. 91h:47003
- Gorbunov, V. K. Regularization of extremal problems. (Russian) 91m:49033
- Ito, Kazufumi Finite-dimensional compensators for infinite-dimensional systems via Galerkin-type approximation. 91i:93054
- Johnson, Claes (with Nie, Yi Yong; Thomé, Vidar) An a posteriori error estimate and adaptive timestep control for a backward Euler discretization of a parabolic problem. 91g:65199
- Khatirulla, R. Kh. Application of the Monte Carlo method for estimating functionals from eigenfunctions of positive operators. 91m:65011
- Khamsi, Mohamed A. *see* Dye, John M.; et al., 91h:47003
- Klein, P. P. Eigenwertenschließung bei nichtselbstadjungierten Eigenwertaufgaben. [On the inclusion of eigenvalues in nonselfadjoint eigenvalue problems] 91k:47040
- Klement, Kerstin Lineare Gleichungen erster Art mit kompakten, vollständig symmetrisierbaren Operatoren der Form $K = AH$. (English and Russian summaries) [Linear equations of the first kind with compact, completely symmetrizable operators of the form $K = AH$] 91k:47018
- Krasnosel'skii, M. A. (with Lifshits, E. A.; Sobolev, A. V.) ★ Positive linear systems. 91f:47051
- Krein, S. G. An abstract scheme for the consideration of boundary value problems. (Russian) 91c:47021
- Kulkarni, Rekha P. (with Limaye, Balmohan V.) Solution of a Schrödinger equation by iterative refinement. 91f:65208
- Li, Shou Fu Stability and B -convergence of general linear methods. 91e:65095
- Lifshits, E. A. *see* Krasnosel'skii, M. A.; et al., 91f:47051
- Limaye, Balmohan V. *see* Deshpande, Lalita N., 91a:47019 and Kulkarni, Rekha P., 91f:65208
- Linden, Hansjörg Methoden der Zwischenprobleme zweiter Art bei Schranken für Eigenwerte rationaler Eigenwertaufgaben. [Methods of intermediate problems of the second kind in bounds for eigenvalues of rational eigenvalue problems] 91c:49068
- Linz, Peter Bounds and estimates for condition numbers of integral equations. 91k:65159
- Marion, Martine (with Temam, Roger) Nonlinear Galerkin methods. 91a:65220
- Mazko, A. G. Monotone approximation to the solutions of linear equations. (Russian) 91c:47023

- Mazumdar, Tapas Existence of solution of the operator equation $AX - XB = Q$ with possibly unbounded A, B, Q . **91a:47018**
- Menikhès, L. D. (with Plichko, A. N.) On regularization theory in topological vector spaces. **91m:46008**
- Nair, M. Thamban On iterative refinements for spectral sets and spectral subspaces. **91b:47009**
- Nie, Yi Yong see Johnson, Claes; et al., **91g:65199**
- Plichko, A. N. see Menikhès, L. D., **91m:46008**
- Podievskii, B. M. Some gradient methods in an eigenvalue problem of polynomial operator pencils of selfadjoint operators. (Russian) **91k:47027**
- Potapov, M. M. A stable method for solving an operator equation in the presence of a constraint. **91k:47020**
- Regińska, Teresa Approximate solution of ill-posed problems. (Polish. English summary) **91g:65147**
- Reich, Simeon see Dye, John M.; et al., **91h:47003**
- Roch, Steffen (with Silbermann, Bernd) Nonstrongly converging approximation methods. **91h:47026**
- Saadahar, A. Finite-dimensional approximation of the solution of a linear operator equation by means of a compact operator. (Russian) **91h:47010**
- Shafiev, R. A. ★ Псевдообращение операторов и некоторые приложения. (Russian) [Pseudo-inversion of operators and some applications] **91f:47016**
- Sidorov, A. M. Eigenvalues and eigenvectors of a perturbed operator. (Russian) **91j:47019**
- Silbermann, Bernd see Roch, Steffen, **91h:47026**
- Sobolev, A. V. see Krasnosel'skii, M. A.; et al., **91f:47051**
- Stankiewicz, Roman Runge-Kutta methods for parabolic equations with nonsmooth initial data. **91m:65238**
- Tautenhahn, Ulrich A new regularisation method for parameter identification in elliptic problems. **91i:65161**
- Tomam, Roger see Marion, Martine, **91a:65220**
- Thomé, Vidar see Johnson, Claes; et al., **91g:65199**
- Trunov, G. A. An estimate for a spectral relation for incomplete factorization of the form S^*S of the difference approximation of the Laplace operator in the case of a quasiregular operator S . (Russian) **91h:65161**
- Tscherich, Helmut Die Bestimmung des betragsgrößten Eigenwertes eines positiven Integraloperators durch sukzessive Iteration. (English and Russian summaries) [Calculation of the maximal (in modulus) eigenvalue of a positive integral operator by successive iteration] **91d:65219**
- Zabrejko, P. P. Error estimates for successive approximations and spectral properties of linear operators. **91m:47013**
- 65J15 Equations with nonlinear operators (do not use 65Hxx)**
- Ansoorge, Rainer (with Lei, Jin Gan) Weak set convergence and its application to projection methods. **91m:65163**
- Argyros, Ioannis K. Concerning the convergence of Newton's method. **91g:65135**
- A new iterative procedure for finding "large" solutions of the quadratic equation in Banach space. **91g:65136**
- Concerning the approximate solutions of operator equations in Hilbert space under mild differentiability conditions. **91g:65137**
- On the secant method and nondiscrete mathematical induction. **91j:65104**
- On the convergence of certain iterations to the fixed points of nonlinear operators. **91k:65095**
- On a new iteration for solving polynomial equations in Banach space. **91d:65082**
- Error bounds for a certain class of Newton-like methods. **91k:65096**
- Some projection methods for the approximation of implicit functions. **91b:65066**
- The secant method in generalized Banach spaces. **91k:65099**
- On Newton's method under mild differentiability conditions. (Arabic summary) **91k:65097**
- Error for the modified secant method. **91d:65083**
- On the solution of equations with nondifferentiable and Piák error estimates. **91k:65099**
- A mesh-independence principle for nonlinear operator equations and their discretizations under mild differentiability conditions. (German summary) **91i:65106**
- Iterations converging faster than Newton's method to the solutions of nonlinear equations in Banach space. **91m:65164**
- The Newton-Kantorovich method under mild differentiability conditions and the Piák error estimates. **91k:65098**
- Badea, Lari On the Schwarz alternating method with more than two subdomains for nonlinear monotone problems. **91m:65165**
- Banks, H. T. (with Lo, C. K.; Reich, Simeon; Rosen, I. G.) Numerical studies of identification in nonlinear distributed parameter systems. **91b:65067**
- Bremer, I. (with Schneider, K. R.) A remark on solving large systems of equations in function spaces. (Czech summary) **91k:65100**
- Candela, V. (with Marquina, A.) Recurrence relations for rational cubic methods: I. The Halley method. (German summary) **91m:65166**
- Chen, Guan Rong On the information-based complexity of optimal reconstruction for nonlinear systems. **91f:65117**
- Chen, Xiao Jun (with Yamamoto, Tetsuro) A necessary and sufficient condition for the convergence of certain iterative methods for nonlinear equations. **91g:65138**
- see also Yamamoto, Tetsuro, **91k:65109**
- Chen, Zhang Xing On the existence, uniqueness and convergence of nonlinear mixed finite element methods. (Portuguese summary) **91g:65139**
- Chien, Ch'ing Sheng Predictor-corrector methods for large sparse problems. **91k:65101**
- Diaconu, Adrian Sur les opérateurs itératifs composés. [On composite iterative operators] **91c:65083**
- Sur quelques propriétés des opérateurs itératifs. [On some properties of iterative operators] **91f:65118**
- Sur la convergence de certaines méthodes itératives utilisées pour la résolution des équations opérationnelles non-linéaires. [Convergence of some iterative methods used for solving nonlinear operator equations] **91f:65119**
- Engl, Heinz W. (with Kunisch, Karl; Neubauer, Andreas) Convergence rates for Tikhonov regularisation of nonlinear ill-posed problems. **91k:65102**
- Gao, Tang An The simplex algorithm for the three-solution theorem. (Chinese. English summary) **91g:65140**
- Georgescu, Adelina see Oprea, Iuliana, **91j:65106**
- Grebenyuk, V. S. On the solution of operator equations. (Russian) (see **91g:00035**)
- Grigorieff, Rolf Dieter On the behaviour of stability constants in discretisations of nonlinear problems. **91g:65141**
- Hacia, Lechuslaw Approximate solutions of a certain class of operator equations. **91c:65084**
- Han, Dan Fu see Wang, Xing Hua, **91d:65086** and **91i:65107**
- Hoyer, Wolfgang (with Schmidt, Jochen W.; Shabani, Naser) Superlinearly convergent decomposition methods for block-tridiagonal nonlinear systems of equations. **91k:65104**
- Huynh The Phung see Pham Huy Diên, **91k:65108**
- Ivanov, Valentin Konstantinovich (with Mel'nikova, I. V.) Construction of quasivalues for weakly well-posed problems. **91a:65146**
- Joshi, Mohan C. (with Sukavanam, N.) Approximate solvability of semilinear operator equations. **91g:65142**
- Jurisch, A. see Richter, C.; et al., (91k:65012)
- Jurisch, R. see Richter, C.; et al., (91k:65012)
- Kartsatos, Athanasios G. The existence of a method of lines for evolution equations involving maximal monotone operators and locally defined perturbations. **91k:65105**
- Kelley, C. T. Operator prolongation methods for nonlinear equations. **91h:65100**
- (with Sachs, Ekkehard W.) Approximate quasi-Newton methods. **91d:65084**
- Kunisch, Karl see Engl, Heinz W.; et al., **91k:65102**
- Lapin, A. V. (with Solov'ev, D. O.) ★ Итерационные схемы расщепления для вариационных неравенств. (Russian) [Iterative splitting schemes for variational inequalities] **91c:65040**
- Relaxation methods for some classes of variational inequalities in \mathbb{R}^n . (Russian) **91g:65143**
- Lei, Jin Gan (with Ma, Ya Nan) Galerkin's method for bifurcation problems of equations with gradient operators. (see **91b:00048**)
- see also Ansoorge, Rainer, **91m:65163**
- Levin, A. M. An iterative algorithm for determining the regularization parameter in the method of the least residual estimate. (Russian) **91m:65167**
- Lippold, Günter Error estimates and step-size control for the approximate solution of a first order evolution equation. (French summary) **91m:65168**
- Liskovets, O. A. Regularization of variational inequalities with pseudomonotone operators on approximately defined domains. **91c:65041**
- Litvinseva, S. P. (with Rodionov, I. D.; Solomatina, E. B.) The parameter evolution method in spectral problems of mathematical physics. (Russian) **91k:65106**
- Liu, Bo The accelerative method of approximate bifurcation solution. (see **91h:00048**)
- Lo, C. K. see Banks, H. T.; et al., **91b:65067**
- López Marcos, J. C. (with Sanz-Serna, J. M.) A definition of stability for nonlinear problems. **91g:65144**
- Ma, Ya Nan see Lei, Jin Gan, (91b:00048)
- Magenes, Enrico A time-discretization scheme approximating the nonlinear evolution equation $u_t + Au = 0$. **91a:65147**
- Marquina, A. see Candela, V., **91m:65166**
- Matveev, O. V. A method for solving polynomial equations in Banach spaces. **91h:65101**
- Mei, Zhen Numerical approximation of simple bifurcation points with a splitting iteration method. **91g:65145**
- Mel'nikova, I. V. see Ivanov, Valentin Konstantinovich, **91a:65146**
- Mohapatra, Ram Narayan see Verma, Ram U., **91m:65170**
- Moret, Igor A continuation procedure based on projected Newton steps. (German summary) **91a:65148**
- (with Omari, Pierpaolo) A projective Newton method for semilinear operator equations in Banach spaces. **91k:65107**
- Nagaeva, E. I. Semilocal convergence of two-stage iterative methods. (Russian) **91j:65105**
- Neubauer, Andreas Tikhonov regularisation for nonlinear ill-posed problems: optimal convergence rates and finite-dimensional approximation. **91k:65103**
- see also Engl, Heinz W.; et al., **91k:65102**
- Omari, Pierpaolo see Moret, Igor, **91k:65107**
- Oprea, Iuliana (with Georgescu, Adelina) Numerical methods in bifurcation theory. III. Periodic solutions. (Romanian. English summary) **91j:65106**
- Paválov, Ion Sur une méthode de type Steffensen utilisée pour la résolution des équations opérationnelles non-linéaires. [A Steffensen-type method for solving nonlinear operator equations] **91d:65085**
- Pham Huy Diên (with Huynh The Phung) Algorithm for finding a solution to the inclusion $0 \in F(x)$. **91k:65108**
- Porath, Günter Monotone Iterationsverfahren zur Lösungseinschließung bei nichtlinearen Operatorgleichungen zweiter Art. (English and Russian summaries) [Monotone iteration methods for solutions enclosure in nonlinear operator equations of the second kind] **91h:65068**
- Reich, Simeon see Banks, H. T.; et al., **91b:65067**
- Richter, C. (with Jurisch, A.; Jurisch, R.) Approximation on optimal meshes. (see **91k:65012**)
- Rodionov, I. D. see Litvinseva, S. P.; et al., **91k:65106**
- Rosen, I. G. On Hilbert-Schmidt norm convergence of Galerkin approximation for operator Riccati equations. **91c:65085**
- Convergence of Galerkin approximations for operator Riccati equations—a nonlinear evolution equation approach. **91m:65169**
- see also Banks, H. T.; et al., **91b:65067**
- Sachs, Ekkehard W. see Kelley, C. T., **91d:65084**
- Sanz-Serna, J. M. see López Marcos, J. C., **91g:65144**
- Sarason, Jukka Projection methods for a class of Hammerstein equations. **91j:65107**
- Schmidt, Jochen W. see Hoyer, Wolfgang; et al., **91k:65104**
- Schneider, K. R. see Bremer, I., **91k:65100**
- Shabani, Naser see Hoyer, Wolfgang; et al., **91k:65104**
- Solomatina, E. B. see Litvinseva, S. P.; et al., **91k:65106**

- Solov'ev, D. O. *see* Lapin, A. V., 91c:65040
- Sukacheva, T. G. *see* Sviridyuk, G. A., 91g:65146
- Sukavanam, N. *see* Joshi, Mohan C., 91g:65142
- Sun, Fang Yu *see* Wang, Xing Hua; et al., 91h:65107
- Sviridyuk, G. A. (with Sukacheva, T. G.) Galerkin approximations of singular nonlinear equations of Sobolev type. 91g:65146
- Turinic, Mihai Mapping theorems and general Newton-Kantorovich processes. (French summary) 91j:65108
- Verma, Ram U. (with Mohapatra, Ram Narayan) Application of numerical range to approximation-solvability of nonlinear functional equations. 91m:65170
- Wang, Xing Hua (with Han, Dan Fu) On some advances in numerical methods for solving nonlinear equations and systems of nonlinear equations. (Chinese) 91d:65086
- (with Han, Dan Fu; Sun, Fang Yu) Point estimates for some deformation Newton iterations. (Chinese. English summary) 91h:65107
- Yamamoto, Tetsuro (with Chen, Xiao Jun) Ball-convergence theorems and error estimates for certain iterative methods for nonlinear equations. 91k:65109
- *see also* Chen, Xiao Jun, 91g:65138
- Yang, Zhong Hua¹ An improved scheme for chord methods at singular points. (Chinese. English summary) 91h:65108
- Items with secondary classifications in 65J15
- Abramov, A. A. (with Gaipova, A. N.; Dzhumagazieva, S. Kh.) Some equations with discontinuous monotone operators and a method for solving them. (Russian) (see 91e:00006)
- Ansari, Q. H. *see* Siddiqi, Abul Hasan, 91d:65093
- Argyros, Ioannis K. Concerning the convergence of iterates to fixed points of nonlinear equations in Banach space. (Not in MR)
- Remarks on quadratic equations in Banach space. 91e:47062
- On the monotone convergence of some iterative procedures in partially ordered Banach spaces. 91h:47067
- Bai, Feng Shan The numerical recognition of bifurcation problems. 91e:58034
- Balázs, Martin (with Goldner, Gavrila) Modified monotone enclosures for convex operators. 91h:47139
- On the approximate solution of certain operatorial equations. 91k:47165
- (with Goldner, Gavrila) On approximatively solving certain operator equations. (Romanian summary) 91h:47068
- Causignac, Philippe (with Zimmermann, Bruno; Ferro, Robert) Finite element approximation of electrostatic potential in one-dimensional multilayer structures with quantized electronic charge. (German summary) 91m:65221
- Cliffe, K. A. *see* Spence, Alastair; et al., 91d:58190 and Wu, Wei¹; et al., 91m:58118
- Connolly, T. J. (with Wall, David J. N.) On Fréchet differentiability of some nonlinear operators occurring in inverse problems: an implicit function theorem approach. 91k:35250
- Dzhumagazieva, S. Kh. *see* Abramov, A. A.; et al., (91e:00006)
- Ferro, Robert *see* Causignac, Philippe; et al., 91m:65221
- Franc, Jan Monotone operators. A survey directed to applications to differential equations. (Russian and Czech summaries) 91k:47129
- Gaipova, A. N. *see* Abramov, A. A.; et al., (91e:00006)
- Godunov, B. A. (with Zabreiko, P. P.) The nature of the convergence of successive approximations for equations with smooth operators. (Russian. English summary) 91a:47089
- Goldner, Gavrila *see* Balázs, Martin, 91h:47139 and 91h:47068
- Griewank, Andreas (with Reddien, George W.) Computation of cusp singularities for operator equations and their discretizations. 91e:58036
- Guenther, Ronald B. (with Lee, John W.) Convergence of the Newton-Raphson method for boundary value problems of ordinary differential equations. 91j:34033
- Guljaš, Boris Some convergence properties of rank-one quasi-Newton methods. (Serbo-Croatian summary) 91a:65138
- Guo, Xiang Dong Bifurcation problems with Fredholm operator and its numerical solutions. (see 91h:00048)
- Ha, Cu D. A generalization of the proximal point algorithm. 91m:47098
- Hoppe, Ronald H. W. On the numerical solution of variational inequalities by multi-grid techniques. 91b:65070
- Hu, Guo Qing (with Li, Kai Tai) Two efficient extended systems for nonsimple turning point of bifurcation problems. (see 91h:00048)
- Jepson, A. D. *see* Spence, Alastair; et al., 91d:58190
- Lasiecka, Irena Approximations of solutions to infinite-dimensional algebraic Riccati equations with unbounded input operators. 91d:49039
- Lamerová, Dana The Rothe method and time periodic solutions to the Navier-Stokes equations and equations of magnetohydrodynamics. (Russian and Czech summaries) 91e:35175
- Lee, John W. *see* Guenther, Ronald B., 91j:34033
- Li, Kai Tai *see* Hu, Guo Qing, (91h:00048)
- Li, Lei *see* You, Zhao Yong, 91d:7006
- Li, Shou Fu β -convergence of linear multistep methods. (Chinese. English summary) 91b:65093
- (with Ruan, Bao Geng) Nonlinear stability of multistep multiderivative methods. 91d:65117
- Linden, Hansjörg Methoden der Zwischenprobleme zweiter Art bei Schranken für Eigenwerte rationaler Eigenwertaufgaben. [Methods of intermediate problems of the second kind in bounds for eigenvalues of rational eigenvalue problems] 91c:49068
- Mittelmann, Hans D. Nonlinear parametrized equations: new results for variational problems and inequalities. 91f:65197
- Myrdarczyk, W. Galerkin methods for nonlinear Volterra type equations. 91k:65161
- Reddien, George W. *see* Griewank, Andreas, 91e:58036
- Ruan, Bao Geng *see* Li, Shou Fu, 91d:65117
- Šćepanović, Radoje The variational method and equations of Hammerstein type. (Russian. Serbo-Croatian summary) 91d:47092
- Siddiqi, Abul Hasan (with Ansari, Q. H.) An iterative method for generalized variational inequalities. 91d:65093

- Spence, Alastair (with Cliffe, K. A.; Jepson, A. D.) A note on the calculation of paths of Hopf bifurcations. 91d:58190
- *see also* Wu, Wei¹; et al., 91m:58118
- Tolstykh, M. A. *see* Zakharov, Yu. N., (Not in MR)
- Urahama, Kikichi Convergence properties of waveform relaxation-Newton method. 91e:65076
- Vaarmann, O. Solution of nonlinear least squares problems by Levenberg-Marquardt type methods. (Russian and Estonian summaries) 91c:65048
- Wall, David J. N. *see* Connolly, T. J., 91k:35250
- Wu, Wei¹ (with Cliffe, K. A.; Spence, Alastair) Steady-state/steady-state mode interaction in nonlinear equations with Z_2 -symmetry. 91m:58118
- Yang, Shu Lang Some problems in nonlinear analysis. (Chinese. English summary) 91e:47065
- Yang, Zhong Hua¹ Classification of pitchfork bifurcations and their computation. 91e:58039
- You, Zhao Yong (with Li, Lei) Existence and uniqueness of fixed point for a mapping on product Banach space and convergence of iterations. (Chinese summary) 91d:47086
- Zabreiko, P. P. *see* Godunov, B. A., 91a:47089
- Zakharov, Yu. N. (with Tolstykh, M. A.) Multiparametric optimization of iterative schemes for solving equations with polynomial nonlinearity. (Russian) (Not in MR)
- Zarubin, A. G. On the rate of convergence of the Faedo-Galerkin method for quasilinear nonstationary operator equations. 91j:34100
- Zhu, Zheng You Numerical methods for bifurcation problems. (Chinese) 91d:58044
- Zimmermann, Bruno *see* Causignac, Philippe; et al., 91m:65221

65J20 Improperly posed problems

- Engl, Heinz W. Regularization of ill-posed problems: convergence rates. (see 91h:00032)
- Gilliam, D. S. (with Lund, J. R.; Vogel, Curtis R.) Quantifying information content for ill-posed problems. 91h:65109
- Gilyazov, S. F. A regularizing algorithm that is based on the method of conjugate gradients. (Russian) (see 91k:65006)
- Kozlov, Vladimir Arkad'evich (with Maz'ya, V. G.) Iterative procedures for solving ill-posed boundary value problems that preserve the differential equations. 91h:65110
- Lund, J. R. *see* Gilliam, D. S.; et al., 91h:65109
- Maz'ya, V. G. *see* Kozlov, Vladimir Arkad'evich, 91h:65110
- Regińska, Teresa Approximate solution of ill-posed problems. (Polish. English summary) 91g:65147
- Vogel, Curtis R. *see* Gilliam, D. S.; et al., 91h:65109

65J99 None of the above, but in this section

- Argyros, Ioannis K. (with Szidarovszky, Ferenc) Comparison theorems for algorithmic models. 91h:65102
- Hromádka, Theodore V., II Best approximation of a linear operation equation (invited contribution). 91h:65103
- Keeling, Stephen L. On Lipschitz continuity of nonlinear differential operators. 91h:65111
- Louis, Alfred K. Inverse problems in medicine. 91h:65112
- Makarenko, A. S. Some approximations of problems in mathematical physics. (Russian) 91h:65104
- Strel'kov, N. A. Optimal coordinate functions in projection-difference methods, widths and lattice packings. (Russian) 91h:65113
- Szidarovszky, Ferenc *see* Argyros, Ioannis K., 91h:65102
- Items with secondary classifications in 65J99
- Frigerio, Alberto Simulated annealing and quantum detailed balance. 91a:82047
- Kojećký, Tomáš On a certain class of always convergent sequences and the Rayleigh quotient iterations. (Russian and Czech summaries) 91h:40001
- Mazumdar, Tapas (with Miller, David F.) On the equivalence of the operator equations $XA + BX = C$ and $X - p(-B)Xp(A)^{-1} = W$ in a Hilbert space, p a polynomial. 91h:47015
- Miller, David F. *see* Mazumdar, Tapas, 91h:47015
- Munch, Niels Juul Orthogonally invariant measures and best approximation of linear operators. 91c:60055
- Pyfer, Yu. P. Nonlinear reduction of a measurement. (Russian) 91a:90127
- Romanovskii, M. R. Mathematical modeling of experiments with the help of inverse problems. 91f:65014

65Kxx Mathematical programming, optimization and variational techniques

- Baranov, V. L. *see* Vasil'ev, V. V., 91a:65149
- Vasil'ev, V. V. (with Baranov, V. L.) ★ Моделирование задач оптимизации и дифференциальных игр. (Russian) [Modeling of problems in optimization and differential games] 91a:65149
- Items with secondary classifications in 65Kxx
- (Pardalos, Panos M.) *see* Computational methods in global optimization, 91h:90004
- (Rosen, J. B.) *see* Computational methods in global optimization, 91h:90004
- Sekhar, A. G. ★ Минимаксные алгоритмы в задачах численного анализа. (Russian) [Minimax algorithms in problems of numerical analysis] 91a:65004

Items listed otherwise than by author

Computational methods in global optimization ★ Computational methods in global optimization. 91h:90004

65K05 Mathematical programming [see also 90Cxx]

- Abadie, J. (with Dekhli, F.) Error estimation in mathematical programming computation. (see 91e:00029)

- Abdukhamidov, A. U. The method of geometric progression for searching for the minimum of unimodal functions. (Russian) (Not in MR)
- Abramova, M. V. A finite algorithm of conditional gradient type for the approximate solution of convex multicriterial problems. (Russian) 91h:65114
- Agibolov, G. P. Quasimonotone functions and their minimization. (Russian) 91d:65087
- Aluffi-Pentini, Filippo (with Parisi, Valerio; Zirilli, Francesco) A parallel global optimization algorithm inspired by quantum physics. (Not in MR)
- Ansari, Q. H. see Siddiqi, Abul Hasan, 91d:65093
- Axelsson, Owe Preconditioned conjugate gradient methods. Preface. 91a:65150
- Belash, K. N. (with Tret'yakov, A. A.) Methods for solving degenerate problems. (Russian) (see 91k:65006)
- Berka, Milan (with Vězník, Karel) Information-stochastic optimal algorithms for calculating multiple functionals. (Czech. English and Russian summaries) 91g:65148
- Berkowitz, Brian see Dax, Achya, 91g:65149
- Bertocchi, Maria A parallel algorithm for global optimization. 91f:65120
- Besdek, James C. see Selim, Shokri Z., 91m:65172
- Bierlaire, M. (with Toint, Philippe L.; Tuytens, D.) On iterative algorithms for linear least squares problems with bound constraints. 91j:65109
- Blinder, Andreas (with Engl, Heinz W.; Vessella, Sergio) Some inverse problems for a nonlinear parabolic equation connected with continuous casting of steel: stability estimates and regularization. 91k:65110
- Boris, J. P. see Picone, J. M.; et al., 91b:65073
- Brigman, L. M. A polynomial method of simplex type for solving systems of linear inequalities. 91f:65121
- Byrd, Richard H. (with Dert, Cornelius L.; Rinnooy Kan, Alexander H. G.; Schnabel, Robert B.) Concurrent stochastic methods for global optimization. 91a:65151
- Cai, Qi Zhi see Li, Ming Xia; et al., 91b:65071
- Chang, Xiao Wen see Sun, Wen Yu, 91b:65076
- Chattopadhyay, Rini see Sen, Rabindranath; et al., 91m:65173
- Chen, Bao Xing An algebraic method for finding a class of extrema. (Chinese) (Not in MR)
- Chen, Zhong Wen see Wang, Jia Song, 91b:65078 and 91b:65079
- Coleman, Thomas F. On characterizations of superlinear convergence for constrained optimization. 91h:65105
- Conn, Andrew R. (with Gould, Nicholas I. M.; Toint, Philippe L.) An introduction to the structure of large scale nonlinear optimization problems and the LANCELOT project. (see 91m:00026)
- Coope, Ian D. see Price, C. J., 91k:65113
- Dax, Achya The smallest point of a polytope. 91d:65088
- (with Berkowitz, Brian) Column relaxation methods for least norm problems. 91g:65149
- Dekhli, F. see Abadie, J., (91c:90029)
- Dert, Cornelius L. see Byrd, Richard H.; et al., 91a:65151
- Ding, Guan Dong (with Lin, Ying Ju) A feasible direction algorithm for nonsmooth optimization with linear constraints. (Chinese. English summary) 91b:65069
- Dixon, L. C. W. (with Mohseninia, M.) Incomplete Cholesky decomposition in the truncated Newton method. (see 91c:00029)
- Dueck, Gunter (with Scheuer, Tobias) Threshold accepting: a general purpose optimization algorithm appearing superior to simulated annealing. (Not in MR)
- Eiermann, M. C. see Shen, Zu He, 91a:65162
- Engl, Heinz W. see Blinder, Andreas; et al., 91k:65110
- Fontecilla, Rodrigo Inexact secant methods for nonlinear constrained optimization. 91c:65042
- Fukushima, Masao A conjugate gradient algorithm for sparse linear inequalities. 91h:65106
- Gabasov, R. F. (with Kirillova, F. M.) New algorithms of solving extremal problems. 91j:65110
- Gabisoniy, V. E. (with Kharchev, V. N.) ★ Математические аспекты автоматического проектирования. (Russian) [Mathematical aspects of automated design] 91c:65043
- Gao, Zi You see Lu, Xin Ming, 91k:65111; He, Guo Ping. (Not in MR) and Jiang, Chang Jun. (Not in MR)
- Ghaderpanah, S. (with Klass, S.) Polynomial scaling. 91a:65152
- Ghosh, Nilotpal (with Hager, William W.) A derivative-free bracketing scheme for univariate minimization. 91f:65122
- Gilbert, J. Ch. On the local and global convergence of a reduced quasi-Newton method. 91c:65153
- Gill, Philip E. (with Murray, Walter; Saunders, Michael A.; Wright, Margaret H.) A Schur complement method for sparse quadratic programming. 91m:65171
- Golub, B. M. see Shcherbina, Yu. N., (Not in MR)
- González, Roberto L. V. (with Sagastizábal, Claudia A.) Un algorithme pour la résolution rapide d'équations discrètes de Hamilton-Jacobi-Bellman. (English summary) [An algorithm for the fast solution of discrete Hamilton-Jacobi-Bellman equations] 91h:65107
- Gould, Nicholas I. M. see Conn, Andrew R.; et al., (91m:00026)
- Greenspan, Donald Supercomputer studies in absolute minimization. 91j:65111
- Griewank, Andreas (with Sheng, Laihua) On the Gauss-Broyden method for nonlinear least squares. 91a:65154
- Grippo, L. (with Lampariello, F.; Lucidi, S.) A quasi-discrete Newton algorithm with a nonmonotone stabilization technique. 91c:65086
- Gryazina, G. Yu. Control of the accuracy of a step of the Newton method for a solution of a nonlinear complementarity problem. (Russian) (see 91a:00023)
- Hager, William W. see Ghosh, Nilotpal, 91f:65122
- Hansen, Per Christian Solution of ill-posed problems by means of truncated SVD. 91d:65089
- Perturbation bounds for discrete Tikhonov regularisation. 91c:65087
- Relations between SVD and GSVD of discrete regularization problems in standard and general form. 91j:65112
- Harker, Patrick T. (with Xiao, Baichun) A polynomial-time algorithm for affine variational inequalities. (Not in MR)
- (Hathaway, Richard J.) see Selim, Shokri Z., 91m:65172
- He, Guang Zong Proof of convergence of Rosen's gradient projection method. (Chinese. English summary) 91g:65150
- He, Guo Ping (with Gao, Zi You) A supermemory gradient projection method. (Chinese. English summary) (Not in MR)
- He, Yu The downstairs method for finding a global minimum of a function of several variables. 91d:65090
- Hoppe, Ronald H. W. On the numerical solution of variational inequalities by multi-grid techniques. 91h:65070
- Hou, Shao Pin see Zhang, Jian Zhong; et al., 91h:65113a and 91h:65113b
- Huang, Shi Qing see Li, Ming Xia; et al., 91b:65071
- Huth, Martin (with Tichatschke, Rainer) Ein Hybridverfahren zur Lösung semi-infinitärer Optimierungsaufgaben. [A hybrid method for the solution of semi-infinite optimization problems] 91c:65088
- Iusem, Alfredo N. (with Moledo, Leonardo) On finitely convergent iterative methods for the convex feasibility problem. 91a:65155
- Ivanitskii, A. Yu. see Vasil'ev, F. P.; et al., 91m:65176; Morozov, V. A., (91k:65008) and (91k:65008)
- Jasinski, Heinrich Numerische Verfahren zur Optimierung von Steueraufgaben. (English and Russian summaries) [Numerical methods for the optimization of control problems] 91f:65115
- Jiang, Chang Jun (with Gao, Zi You) A fast algorithm for one-dimensional minimum problems. (Chinese. English summary) (Not in MR)
- Kalashnikov, V. V. (with Kalashnikova, N. I.) Control of step accuracy in the loaded functional method. (Russian) 91j:65113
- Kalashnikova, N. I. see Kalashnikov, V. V., 91j:65113
- Kaplan, A. A. Convergence rate estimates for regularized methods of solving variational problems. 91a:65156
- Kharchev, V. N. see Gabisoniy, V. E., 91c:65043
- (Kim, Tachwan) see Selim, Shokri Z., 91m:65172
- Kirillova, F. M. see Gabasov, R. F., 91j:65110
- Klass, S. see Ghaderpanah, S., 91a:65152
- Klatte, Diethard (with Thieme, Gisbert) Über Fehlerschranken für lineare Ungleichungssysteme. [On error bounds for systems of linear inequalities] 91f:65123
- Knoth, O. A globalization scheme for the generalized Gauss-Newton method. 91a:65157
- Korotchenko, A. G. Suboptimal algorithms for searching for an extremum in a class of functions. (Russian) 91c:65044
- Kurzhanski, M. A. see Vasil'ev, F. P., 91b:65077
- Lambrakos, S. G. see Picone, J. M.; et al., 91b:65073
- Lampariello, F. see Grippo, L.; et al., 91c:65086
- Langer, Ulrich Applications of multigrid preconditioners to mixed and nonlinear variational problems. (see 91h:00032)
- Laratta, A. (with Zironi, Fernando) Numerical solution of linear least-squares problems with linear equality constraints. 91d:65091
- Li, Bao Xia (with Shen, Yu) Asynchronous iterative parallel algorithms for unconstrained optimization. (Chinese. English summary) 91a:65158
- Li, Mao Xiang A penalty finite element method for a class of nonlinear variational inequalities. (Chinese. English summary) 91h:65108
- Li, Ming Xia (with Huang, Shi Qing; Cai, Qi Zhi) An algorithm for solving a special quadratic programming problem. (Chinese. English summary) 91b:65071
- Liem, Chin Bo see Li, Tao; et al., 91f:65124
- Lin, Ying Ju see Ding, Guan Dong, 91b:65069
- Liu, San Yang (with You, Zhao Yong) Proper efficient solutions to nonsmooth nonconvex vector extreme value problems. (Chinese. English summary) 91j:65114
- Loois, Frank A. An asynchronous Newton-Raphson method. (see 91f:65006)
- Lozovanu, D. D. (with Unguryanu, V. A.) An algorithm for testing the embeddability of a k-dimensional unit cube in an orthogonal projection of a polyhedral set defined by a system of linear inequalities. (Russian) 91g:65151
- Li, Tao (with Liem, Chin Bo; Shih, Tai Min) Parallel algorithms for variational inequalities based on domain decomposition. 91f:65124
- A convergence proof for the row-action method for finding common points of convex sets. (Chinese. English summary) 91j:65115
- Lu, Xin Ming (with Gao, Zi You) A new rule for pivoting operations in the simplex method. (Chinese. English summary) 91k:65111
- Lucidi, S. see Grippo, L.; et al., 91c:65086
- Lukšan, Ladislav Computational experience with improved variable metric methods for unconstrained minimization. 91h:65109
- Mäkelä, Raimo ★ On computer aided optimal shape design. 91k:65112
- Martínez, José Mario (with Santos, Rita Filomena) An algorithm for solving nonlinear least-squares problems with a new curvilinear search. (German summary) 91g:65152
- Meleshko, V. I. see Zadachin, V. M., 91b:65080
- Mironovskiy, F. An optimization problem in queueing theory and a numerical method for solving it. (Not in MR)
- Mohseninia, M. see Dixon, L. C. W., (91c:00029)
- Moledo, Leonardo see Iusem, Alfredo N., 91a:65155
- Morozov, V. A. (with Ivanitskii, A. Yu.) A stable method for solving a class of linear programming problems. (Russian) (see 91k:65008)
- (with Ivanitskii, A. Yu.) Stable methods for solving linear programming problems with interval coefficients. (Russian) (see 91k:65008)
- see also Vasil'ev, F. P.; et al., 91m:65176
- Murray, Walter see Gill, Philip E.; et al., 91m:65171
- Negrón-Marrero, Pablo V. A numerical method for detecting singular minimizers of multidimensional problems in nonlinear elasticity. 91j:65116
- Ni, Qin Unconstrained optimization methods with adaptive scaling of variables. (Chinese. English summary) 91h:65072
- Noor, Muhammad Aslam (with Tirmizi, S. I. A.) Highly accurate methods for solving unilateral problems. 91f:65116
- Ohta, Toyomi see Shidama, Yasunari; et al., 91a:65163
- Pappalardo, Massimo Image space approach to penalty methods. 91a:65159
- Parisi, Valerio see Aluffi-Pentini, Filippo; et al., (Not in MR)
- Perikator, A. E. (with Redkovskii, N. N.) A method for minimizing unimodal nonconvex functions. (Russian. English summary) 91a:65160
- Peretti, A. (with Sutti, C.) Vector and parallel performances of minimization algorithms based on homogeneous models. (see 91m:65006)
- Picone, J. M. (with Lambrakos, S. G.; Boris, J. P.) Timing analysis of the monotonic logical

- grid for many-body dynamics. 91b:65073
- Pinter, J. Global convergence revisited: reply to A. Žilinskas: "A note on: 'Extended univariate algorithms for n -dimensional global optimization'" [Computing 41 (1989), no. 3, 275–276; MR 90b:90128]. (German summary) (Not in MR)
- Plaskota, L. Asymptotic error for the global maximum of functions in s dimensions. 91a:65161
- Powell, M. J. D. On a matrix factorization for linearly constrained optimization problems. 91b:65074
- Price, C. J. (with Coope, Ian D.) An exact penalty function algorithm for semi-infinite programmes. 91k:65113
- Pu, Ding Gao A modified DFP algorithm. (Chinese) (Not in MR)
- (with Yu, Wen Ci) On the convergence property of the DFP algorithm. 91b:65110
- Redkovskii, N. N. see Perektorov, A. E., 91a:65160
- Rinnooy Kan, Alexander H. G. see Byrd, Richard H.; et al., 91a:65151
- Sagastizabal, Claudia A. see González, Roberto L. V., 91b:65107
- Saha, Tripti see Sen, Rabindranath; et al., 91b:65173
- Santos, Rita Filomena see Martínez, José Mario, 91b:65152
- Sarma, M. S. On the convergence of the Baba and Dorea random optimization methods. (Not in MR)
- Saunders, Michael A. see Gill, Philip E.; et al., 91m:65171
- Scheiber, Ernest On the convergence of the Ritz method used simultaneously with the gradient projection method. 91c:65045
- Schreier, Tobias see Dueck, Gunter, (Not in MR)
- Schnabel, Robert B. see Byrd, Richard H.; et al., 91a:65151
- Schneider, W. see Weiss, R., (91k:65010)
- Schmitt, Hubert Nonstandard scaling matrices in trust region methods. 91b:65125
- Selim, Shokri Z. Comments on: "Optimality test for fixed points of the fuzzy c -means algorithm" [Pattern Recognition 21 (1988), no. 6, 651–663; MR 89m:65063] by T. Kim, J. Bezdek and R. Hathaway. 91m:65172
- Sen, Rabindranath (with Chattopadhyay, Rini; Saha, Tripti) On a general convergence for Broyden like update method. 91m:65173
- Sergeev, Ya. D. (with Strongin, R. G.) An algorithm for global minimization with parallel iterations. 91g:65153
- Shcherbina, Yu. N. (with Golub, B. M.) Convergence of an iterative method with memory in the use of the Cholesky LDL^T -expansion for the minimization of functions. (Ukrainian. Russian summary) (Not in MR)
- Shen, Yu see Li, Bao Xin, 91a:65158
- Shen, Zu He (with Eiermann, M. C.) Interval-majorant method and global optimization. (German summary) 91a:65162
- Sheng, Lihua see Griewank, Andreas, 91a:65154
- Sheng, Song Bai (with Xu, Shao Jie) A numerical method for solving linear inequalities. (Chinese. English summary) 91d:65092
- Shidama, Yasunari (with Ohta, Toyomi; Yamaura, Hiroo) A simplification of computation for optimal control problems using fixed-point theorem. 91a:65163
- Shih, Tsi Min see Li, Tao; et al., 91f:65124
- Shmyrlov, V. I. A class of linear homogeneous complementarity problems in \mathbb{R}^n_+ . (Russian) 91m:65174
- Shpak, A. L. An algorithm for the minimization of a multi-extremal C^2 function on an interval. (Russian) 91f:65126
- Siddiqi, Abul Hasan (with Ansari, Q. H.) An iterative method for generalized variational inequalities. 91d:65093
- Simoch, Martin Anmerkungen zu einem Mehrgitterverfahren für lineare Komplementaritätsprobleme. (English summary) [Remarks on a multigrid method for linear complementarity problems] 91a:65164
- Snyman, J. A. An interior feasible direction method with constraint projections for linear programming. 91j:65117
- Sonnevend, György Applications of the notion of analytic center in approximation (estimation) problems. 91b:65075
- Stachurski, A. An equivalence between two algorithms for a class of quadratic programming problems with M -matrices. 91b:65111
- Storey, Colin see Tonati-Ahmed, D., 91c:65046
- Strongin, R. G. see Sergeev, Ya. D., 91g:65153
- Sun, Wen Yu (with Chang, Xiao Wen) Greville's method for minimization of homogeneous function models. (Chinese. English summary) 91b:65076
- Sutti, C. see Peretti, A., (91m:65006)
- Thiere, Gisbert see Klatte, Diethard, 91f:65123
- Tichatschke, Rainer see Huth, Martin, 91f:65088
- Tirmizi, S. I. A. see Noor, Muhammad Aslam, 91b:65116
- Todd, Michael J. The effects of degeneracy and null and unbounded variables on variants of Karmarkar's linear programming algorithm. 91m:65175
- Toint, Philippe L. Global convergence of a class of trust-region methods for nonconvex minimization in Hilbert space. 91g:65154
- see also Bierlaire, M.; et al., 91j:65109 and Conn, Andrew R.; et al., (91m:00026)
- Tonati-Ahmed, D. (with Storey, Colin) Efficient hybrid conjugate gradient techniques. 91c:65046
- Tret'yakov, A. A. see Belash, K. N., (91k:65006)
- Tuytens, D. see Bierlaire, M.; et al., 91j:65109
- Unguryanu, V. A. see Lozovans, D. D., 91g:65151
- Uryasov, S. P. Adaptive variable metric methods for nondifferentiable optimization problems. 91b:65112
- Vasil'ev, F. P. (with Kurzhanski, M. A.) On the method of quasisolutions for unstable problems of minimization with imprecisely defined initial data. 91b:65077
- (with Ivanitskii, A. Yu.; Morozov, V. A.) An estimate for the rate of convergence of the residual method for problems of linear programming with approximate data. (Russian) 91m:65176
- Vessella, Sergio see Binder, Andreas; et al., 91k:65110
- Vězník, Karel see Berka, Milan, 91g:65148
- Wang, Jia Song (with Chen, Zhong Wen) Some algorithms for solving L_1 norm minimization. (Chinese. English summary) 91b:65078
- (with Chen, Zhong Wen) A solution for models of l_1 norm minimization in seismic inverses. (Chinese. English summary) 91b:65079
- Weiss, R. (with Schöner, W.) Data reduction (DARE) preconditioning for generalized conjugate gradient methods. (see 91k:65010)
- Wright, Margaret H. see Gill, Philip E.; et al., 91m:65171
- Wu, Shi Quan¹ A descent algorithm based on a positive basis and its convergence properties. (Chinese. English summary) 91k:65114
- A restricted stepsize method and its extension. (Chinese. English summary) 91a:65165
- Xiao, Baichun see Harker, Patrick T., (Not in MR)
- Xu, Cheng Xian Hybrid method for nonlinear least-square problems without calculating derivatives. 91g:65155
- Xu, Shao Jie see Sheng, Song Bai, 91d:65092
- Yamaura, Hiroo see Shidama, Yasunari; et al., 91a:65163
- You, Zhao Yong see Liu, San Yang, 91j:65114
- Yu, Wen Ci see Pu, Ding Gao, 91b:65110
- Zadachin, V. M. Optimality conditions with a degenerate minimum. (Russian) (see 91k:65009)
- (with Meleshko, V. I.) On the rate of convergence of the modified Newton method in the solution of problems of nonregular minimization. (Russian. English summary) 91b:65080
- Zhang, Jian Zhong (with Zhu, De Tong; Hou, Shao Pin) Some improved projected quasi-Newton algorithms and their convergence. I. Methods and global behavior. 91b:65113a
- (with Zhu, De Tong; Hou, Shao Pin) Some improved projected quasi-Newton algorithms and their convergence. II. Local convergence rate and numerical tests. 91b:65113b
- Zhang, Ke Can A numerical method for a class of irregular conditional extremum problems. (Chinese. English summary) 91b:65081
- Zhang, Yao Min An algorithm using a local positive basis for nonlinearly constrained optimization. (Chinese. English summary) 91k:65115
- Zhao, Jin Xi Direct method for solving linear inequalities. (Chinese. English summary) 91b:65082
- Zhdanov, A. I. Approximate stochastic systems of linear algebraic equations. 91g:65156
- Zheng, Quan¹ An integral variable measure algorithm and its applications. (Chinese. English summary) 91k:65116
- Zhu, De Tong see Zhang, Jian Zhong; et al., 91b:65113a and 91b:65113b
- (Žilinskas, Antanas) see Pinter, J., (Not in MR)
- Zirilli, Francesco see Aluffi-Pentini, Filippo; et al., (Not in MR)
- Zironi, Fernando see Laratta, A., 91d:65091

Items with secondary classifications in 65K05

- Adler, Ilan see Monteiro, Renato D. C., 91b:90082 and 91m:90101
- Aharoni, Ron (with Censor, Yair) Block-iterative projection methods for parallel computation of solutions to convex feasibility problems. 91b:90151
- Ahn, Hyunsil see Kim, Seungh; et al., 91k:90170
- Aluffi-Pentini, Filippo (with Parisi, Valerio; Zirilli, Francesco) A global optimization algorithm using stochastic differential equations. (Not in MR)
- Ankudinov, G. I. Symbol-numerical methods in problems of discrete programming with logic constraints. 91a:90136
- Antonyuk, A. A. (with Danilin, Yu. M.) Secant-type methods in minimization problems. (Russian) 91a:90144
- Antsiferov, E. G. (with Ashchepkov, L. T.; Bulatov, V. P.) ★ Методы оптимизации и их приложения. Часть I. (Russian) [Optimization methods and their applications. Part I] 91j:90001
- Aragón, J. L. (with Vázquez Polo, G.; Gómez, Alfredo) A general algorithm for the generation of quasilattices by means of the cut and projection method using the simplex method of linear programming and the Moore-Penrose generalized inverse. 91j:52020
- Ashchepkov, L. T. see Antsiferov, E. G.; et al., 91f:90001
- Abić, Miroslav D. (with Kovačević-Vujčić, Vera V.; Radosavljević-Nikolić, Mirjana D.) Asymptotic behaviour of Karmarkar's method for linear programming. 91c:90066
- Achmuty, Giles Duality algorithms for smooth unconstrained optimization. 91g:90140
- Bank, Bernd (with Heintz, Joos; Krick, Teresa; Mandel, Reinhard; Solernó, Pablo) Une borne géométrique pour la programmation entière à contraintes polynomiales. (English summary) [A geometrical bound for integer programming with polynomial constraints] 91b:90136
- Bartels, Richard H. see Mahdavi-Amiri, Nezam, (Not in MR)
- Beattie, C. A. (with Boisen, M. B., Jr.; Johnson, L. W.) Inertia-preserving secant updates. 91a:90145
- (with Boisen, M. B., Jr.; Johnson, L. W.) Errata corrigé: "Inertia-preserving secant updates" [J. Optim. Theory Appl. 62 (1989), no. 1, 1–16; MR 91a:90145]. (Not in MR)
- Bein, W. (with Brucker, Peter) An $O(n \log n)$ -algorithm for solving a special class of linear programs. (German summary) 91a:90102
- Ben-Tal, Aharon (with Melman, A.; Zowe, Jochem) Curved search methods for unconstrained optimization. 91j:90053
- Bernusson, Jacques (with Dias Peres, Pedro Luis; Geromel, J. C.) A linear programming oriented procedure for quadratic stabilization of uncertain systems. 91b:93118
- Björck, Åke Least squares methods. (see 91f:65001)
- Bobylev, N. A. (with Ismailov, I. G.; Propol, A. I.) The continuation method in the problem of the approximate construction of solutions of infinite-dimensional optimization problems. 91k:90220
- Boffy, T. B. (with Cox, M. G.; Deives, L. M.; Pursglove, C. J.) Approximation by spheres. (see 91c:65003)
- Boisen, M. B., Jr. see Beattie, C. A.; et al., 91a:90145 and (Not in MR)
- Bonnans, Joseph Frédéric Local study of Newton type algorithms for constrained problems. 91j:90142
- Asymptotic admissibility of the unit stepsize in exact penalty methods. 91b:90174
- On the stability of solutions in nonlinear programming. 91j:90087
- Bosworth, Ken W. A semiminfinite programming algorithm for constrained best approximation. (see 91c:65003)
- Brucker, Peter see Bein, W., 91a:90102
- Bulatov, V. P. see Antsiferov, E. G.; et al., 91f:90001
- Burke, James V. (with Moré, Jorge J.; Tormaldo, Gerardo) Convergence properties of trust region methods for linear and convex constraints. 91b:90114

- Carey, Graham F. *see* Pardhanani, Anand, 91a:65237
- Canas Renteria, Eduardo (with Pola, Cecilia) A new quadratic-programming algorithm. (Spanish) (see 91j:90015)
- Censor, Yair (with De Pierro, Alvaro R.; Iusem, Alfredo N.) Optimization of Burg's entropy over linear constraints. 91m:90123
— *see also* Aharoni, Ron, 91b:90151
- Chen, Chao (with Huang, Chun Yi) A combinatorial program using the simplex method. (Chinese. English summary) 91e:90059
- Chen, Guang Jun Algorithmic models for nonlinearly constrained extremal problems. (Chinese. English summary) 91i:90056
- Cho, Seong-Cheol *see* Kim, Seung; et al., 91k:90170
- Chu, Moody T. (with Driessell, Kenneth R.) The projected gradient method for least squares matrix approximations with spectral constraints. 91f:65073
- Coleman, Thomas F. (with Li, Yuying) A quadratically-convergent algorithm for the linear programming problem with lower and upper bounds. 91k:90093
— (with Li, Guang Ye) Solving systems of nonlinear equations on a message-passing multiprocessor. 91i:65096
- Conn, Andrew R. (with Gould, Nicholas I. M.; Toint, Philippe L.) A globally convergent augmented Lagrangian algorithm for optimization with general constraints and simple bounds. 91i:90158
- Corana, A. (with Marchesi, M.; Martini, C.; Ridella, S.) Corrigenda: "Minimizing multimodal functions of continuous variables with the 'simulated annealing' algorithm" [ACM Trans. Math. Software 13 (1987), no. 3, 262–280; MR 88m:90121]. (Not in MR)
- Cox, M. G. *see* Boffey, T. B.; et al., (91c:65003)
- Csendes, Tibor Interval method for bounding level sets: revisited and tested with global optimization problems. 91k:90159
- Danilin, Yu. M. *see* Antonyuk, A. A., 91a:90144
- Davidon, William C. Variable metric method for minimization. 91k:90160
- Delves, L. M. *see* Boffey, T. B.; et al., (91c:65003)
- Deng, Nai Yang *see* Zhu, Mei Fang, 91g:65099
- Dennis, J. E., Jr. (with Martinez, Hector J.; Tapia, Richard) Convergence theory for the structured BFGS secant method with an application to nonlinear least squares. 91b:90177
- De Pierro, Alvaro R. Nonlinear relaxation methods for solving symmetric linear complementarity problems. 91b:90201
— *see also* Censor, Yair; et al., 91m:90123
- Dias Peres, Pedro Luis *see* Bernusson, Jacques; et al., 91b:93118
- Ding, Fang Yun Properties of production rate of science-technique elements for general production functions and a computing method. (Chinese) (Not in MR)
- Dixon, L. C. W. (with Maany, Z.; Mohseninia, M.) Automatic differentiation of large sparse systems. (Not in MR)
- Dodu, J. C. (with Huard, P.) Méthodes de quasi-Newton sous contraintes non linéaires: algorithmes à convergence locale superlinéaire. II. Convergence en x seul. (English summary) [Quasi-Newton methods in the nonlinearly constrained case: locally and superlinearly convergent algorithms. II. Convergence of the quadratic program solution itself] 91i:90058
- Doedel, Eusebius J. *see* Kermévez, J.-P.; et al., 91j:90076
- Dorea, C. C. Y. Stopping rules for a random optimization method. 91b:90178
- Driessell, Kenneth R. *see* Chu, Moody T., 91f:65073
- Du, Ding Zhu (with Zhang, Xiang Sun) Global convergence of Rosen's gradient projection method. 91k:90179
— (with Wu, Fang; Zhang, Xiang Sun) On Rosen's gradient projection methods. 91i:90059
- Dussault, Jean-Pierre *see* Marcotte, Patrice, 91a:49005
- Eggenmont, P. P. B. Multiplicative iterative algorithms for convex programming. 91k:90140
- Elden, Lars Algorithms for the computation of functionals defined on the solution of a discrete ill-posed problem. 91g:65084
- Engels, John R. (with Martinez, Hector J.) Local and superlinear convergence for partially known quasi-Newton methods. 91k:90162
- Esakow, Elizabeth *see* Smith, Sharon L.; et al., 91k:90184
- Fletcher, Roger Low storage methods for unconstrained optimization. (see 91e:65005)
— A new variational result for quasi-Newton formulae. 91k:90163
- Floudas, Christodoulos A. (with Pardalos, Panos M.) ★ A collection of test problems for constrained global optimization algorithms. 91m:90154
- Fruhwith, B. *see* Ruhe, G., 91g:90137
- Gabasov, R. F. (with Kirillova, F. M.; Kostina, E. A.) A network problem in piecewise-linear programming. (Russian. English summary) 91b:90117
- Gaivoronskii, A. A. A numerical method for searching for optimal submeasures. 91i:90043
- Gao, Zi You (with Wang, Wei) An improved feasible direction method for nonlinear programming. (Chinese. English summary) 91i:90060
— *see also* Lu, Xin Ming; et al., 91k:90097 and Zeng, Qing Guang; et al., 91k:90190
- Gasparyan, M. S. (with Nersisyan, G. Sh.) A truncated method for unconditional minimization. (Russian. English and Armenian summaries) 91k:90165
- Gaudioso, Manlio (with Monaco, Maria Flavia) Quadratic approximations in convex nondifferentiable optimization. 91m:49013
- Gelman, E. (with Mandel, Jan) On multilevel iterative methods for optimization problems. 91b:90180
- Geromel, J. C. *see* Bernusson, Jacques; et al., 91b:93118
- Godonoga, A. F. (with Ursu, B. P.) A scheme for solving discrete minimax problems with successive choice of functions. (Russian) 91i:90061
- Goffin, J.-L. (with Vial, Jean-Philippe) Cutting planes and column generation techniques with the projective algorithm. 91d:90058
- Gol'dman, N. L. On the determination of the gradient in the optimization of a two-phase Stefan problem with a control in the boundary conditions. (Russian) (see 91k:65006)
- Golab, B. M. A modification of the linearization method. (Ukrainian. Russian summary) (Not in MR)
- Gómez, Alfredo *see* Aragón, J. L.; et al., 91j:52020
- Gong, Jin Shuang *see* Li, Zong Yuan, 91k:90173
- Gonzaga, Clavis C. Polynomial affine algorithms for linear programming. 91i:90035
- Gould, Nicholas I. M. *see* Conn, Andrew R.; et al., 91k:90158
- Guisewite, G. M. (with Pardalos, Panos M.) Minimum concave-cost network flow problems: applications, complexity, and algorithms. 91k:90211
- Guo, Jian *see* Tang, Huan Wen; et al., 91i:90068
- Gurwitz, Chaya Weighted median algorithms for L_1 approximation. 91d:65030
- Han, Chi-Guen (with Pardalos, Panos M.; Ye, Yinyu) Computational aspects of an interior point algorithm for quadratic programming problems with box constraints. 91k:90136
- Han, Hou De A direct boundary element method for Signorini problems. 91c:65070
- Harker, Patrick T. (with Pang, Jong-Shi) A damped-Newton method for the linear complementarity problem. 91f:65101
- He, Bing Sheng The saddle point algorithm for general linear programming. (Chinese. English summary) 91m:90099
- A projection method for a class of quadratic programming problems. (Chinese. English summary) 91e:90076
- He, Guang Zong Rosen's gradient projection with discrete steps. 91e:90110
- He, Guo Ping *see* Lai, Yan Lian, 91k:90171 and Zeng, Qing Guang; et al., 91k:90190
- Heintz, Joos *see* Bank, Bernd; et al., 91b:90136
- Hettich, R. (with Ries, M.) A modified scaling algorithm for LP. 91b:90062
- Higgins, J. E. (with Polak, Elijah) Minimizing pseudoconvex functions on convex compact sets. 91k:90167
- Hlaváček, Ivan Domain optimization in 3D-axisymmetric elliptic problems by dual finite element method. (Russian and Czech summaries) 91i:65178
- Ho, Yu-Chi (with Hu, Jian Qiang) An infinitesimal perturbation analysis algorithm for a multiclass $G/G/1$ queue. 91k:60097
- Holmg Tui *see* Phan Thiên Thach, 91f:90124
- Hollatz, Horst Some numerical and practical problems in linear programming. (see 91h:00023)
- Horst, Reiner (with Thai Q. Phong; Nguyen Van Thoai) On solving general reverse convex programming problems by a sequence of linear programs and line searches. 91k:90142
— Deterministic methods in constrained global optimization: some recent advances and new fields of application. 91k:90168
- Hu, Jian Qiang *see* Ho, Yu-Chi, 91k:60097
- Huang, Chun Yi *see* Chen, Chao, 91e:90059
- Huang, Nan Jing *see* Zhang, Shi Sheng, 91g:90169
- Huard, P. *see* Dodu, J. C., 91i:90058
- Idrissi, H. (with Lefebvre, O.; Michelot, C.) Applications and numerical convergence of the partial inverse method. 91f:90098
- Ignator, M. I. (with Pevnyi, A. B.) Reinsch's method for solving the smoothing problem in the multidimensional case. 91a:65025
- Ismaïlov, I. G. *see* Bobylev, N. A.; et al., 91k:90220
- Ito, Kazufumi (with Kunisch, Karl) The augmented Lagrangian method for equality and inequality constraints in Hilbert spaces. 91i:90062
- Iusem, Alfredo N. *see* Censor, Yair; et al., 91m:90123
- Jarre, F. On the convergence of the method of analytic centers when applied to convex quadratic programs. 91m:90129
- Jennings, L. S. (with Teo, Kok Lay) A computational algorithm for functional inequality constrained optimization problems. 91g:90151
- Jiang, Ye *see* Tang, Huan Wen; et al., 91i:90068
- Johnson, L. W. *see* Beattie, C. A.; et al., 91a:90145 and (Not in MR)
- Jonsson, Örjan (with Larsson, Torbjörn; Värbrand, Peter) A Lagrangian relaxation scheme for a scheduling problem. 91m:90085
- Kalantari, Bahman Karmarkar's algorithm with improved steps. 91c:90067
- Kaplan, A. A. The rate of convergence of a regularized method for smoothing exact penalty functions. (Russian) 91b:90215
— (with Tichatschke, Rainer) Investigation of iterative processes for solving ill-posed convex variational problems. (Russian) 91m:49030
- Kermévez, J.-P. (with Liu, Yu; Seane, M. L.; Doedel, Eusebius J.) Optimization by continuation. 91j:90076
- Kim, Seun (with Ahn, Hyunsil; Cho, Seong-Cheol) Variable target value subgradient method. 91k:90170
- Kirillova, F. M. *see* Gabasov, R. F.; et al., 91b:90117
- Kiwiel, Krzysztof C. ★ Niektóre metody obliczeniowe optymalizacji nieróżniczkowalnej. (Polish) [Some computation methods for nondifferentiable optimization] 91f:90119
- Kojima, Masakazu (with Mizuno, Shinji; Yoshise, Akiko) Ellipsoids that contain all the solutions of a positive semi-definite linear complementarity problem. 91k:90206
- Kostina, E. A. *see* Gabasov, R. F.; et al., 91b:90117
- Kovačević-Vujčić, Vera V. *see* Alić, Miroslav D.; et al., 91c:90066
- Kovoor, N. *see* Pardalos, Panos M., 91j:90058
- Krick, Teresa *see* Bank, Bernd; et al., 91b:90136
- Kunisch, Karl *see* Ito, Kazufumi, 91i:90062
- Kuznetsov, Aleksandr Georgievich (with Rykov, A. S.) Convergence of adaptive minimization algorithms for objective function minimum drift. 91j:90090
- Lai, Yan Lian (with He, Guo Ping) A constrained variable metric algorithm for second-order corrections. (Chinese. English summary) 91k:90171
- Lapin, A. V. Relaxation methods for some classes of variational inequalities in R^n . (Russian) 91g:65143
- Larsson, Torbjörn *see* Jonsson, Örjan; et al., 91m:90085
- Lavery, John E. Solution of steady-state, two-dimensional conservation laws by mathematical programming. 91m:65265
- Lefebvre, O. (with Michelot, C.; Plastria, F.) Geometric interpretation of the optimality conditions in multifacility location and applications. 91c:90065
— (with Michelot, C.; Plastria, F.) Errata corrigé: "Geometric interpretation of the optimality conditions in multifacility location and applications" [J. Optim. Theory Appl. 65 (1990), no. 1, 85–101; MR 91c:90065]. (Not in MR)
— *see also* Idrissi, H.; et al., 91f:90098
- Lemaréchal, Claude ★ Méthodes numériques d'optimisation. (French) [Numerical methods of optimization] 91d:65002
- Leyden, Dennis Patrick Modified quadratic hill-climbing with SAS/IML. 91k:90172
- Li, Guang Ye *see* Coleman, Thomas F., 91i:90096
- Li, Yuying *see* Coleman, Thomas F., 91k:90093
- Li, Zong Yuan (with Gong, Jin Shuang) An algorithm for successive quadratic programming with perturbations and its global convergence. (Chinese. English summary)

- 91k:90173
 Lin, Ts'ung Wu Well-behaved penalty functions for constrained optimization. (Chinese summary) 91g:90155
- Liu, Yu³ see Kérnvez, J.-P.; et al., 91j:90076
- Lu, Xin Ming (with Gao, Zi You; Zhang, Shu Jian) A simplex method and a broken line search technique for solving linear programming problems. (Chinese. English summary) 91k:90097
- Lundberg, Bruce N. (with Poore, Aubrey B.; Yang, Bing) Smooth penalty functions and continuation methods for constrained optimization. 91j:90082
- Lastig, Irvin J. (with Marsten, Roy E.; Shanno, David F.) The primal-dual interior point method on the Cray supercomputer. 91m:90100
- Maany, Z. see Dixon, L. C. W.; et al., (Not in MR)
- Mahdavi-Amiri, Nezam (with Bartels, Richard H.) Constrained nonlinear least squares: An exact penalty approach with projected structured quasi-Newton updates. (Not in MR)
- Makaskas, Afigidas see Žilinskas, Antanas, 91k:90195
- Makhmudov, E. N. Some extremal problems for discrete and differential inclusions with distributed parameters of elliptic type, and duality. 91j:65183
- Mandel, Jan see Gelman, E., 91b:90180
- Mandel, Reinhard see Bank, Bernd; et al., 91b:90136
- Marchesi, M. see Corana, A.; et al., (Not in MR)
- Marcotte, Patrice (with Dussault, Jean-Pierre) A sequential linear programming algorithm for solving monotone variational inequalities. 91a:49005
- Marsten, Roy E. see Lastig, Irvin J.; et al., 91m:90100
- Martínez, Héctor J. see Dennis, J. E., Jr.; et al., 91b:90177 and Engels, John R., 91k:90162
- Martini, C. see Corana, A.; et al., (Not in MR)
- Mehrotra, Sanjay (with Sun, Jie) An algorithm for convex quadratic programming that requires $O(n^{3.5}L)$ arithmetic operations. 91m:90130
- (with Sun, Jie) A method of analytic centers for quadratically constrained convex quadratic programs. 91m:90131
- Melman, A. see Ben-Tal, Aharon; et al., 91g:90053
- Merkovskiy, R. R. (with Ward, D. E.) Upper DSL approximates and nonsmooth optimization. 91d:90101
- Michéol, C. see Lefebvre, O.; et al., 91c:90065; Idrissi, H.; et al., 91f:90098 and Lefebvre, O.; et al., (Not in MR)
- Mizuno, Shinji see Kojima, Masakazu; et al., 91k:90206
- Mockus, Linas A global optimization method for an arbitrary domain. (Russian. English and Lithuanian summaries) 91k:90176
- Mohseninia, M. see Dixon, L. C. W.; et al., (Not in MR)
- Monaco, Maria Flavia see Gaudioso, Manlio, 91m:49013
- Monteiro, Renato D. C. (with Adler, Ilan) An extension of Karmarkar type algorithm to a class of convex separable programming problems with global linear rate of convergence. 91b:90082
- (with Adler, Ilan; Resende, Mauricio G. C.) A polynomial-time primal-dual affine scaling algorithm for linear and convex quadratic programming and its power series extension. 91m:90101
- More, Jorge J. A collection of nonlinear model problems. 91f:00010
- On the performance of algorithms for large-scale bound constrained problems. 91m:90160
- (with Toraldo, Gerardo) On the solution of large quadratic programming problems with bound constraints. 91k:90137
- see also Burke, James V.; et al., 91f:90114
- Nash, Stephen G. (with Sofer, Ariela) Assessing a search direction within a truncated-Newton method. 91f:90121
- Nefedov, V. N. Error estimation in convex polynomial problems of optimization. 91c:90109
- Nersisyan, G. Sh. see Gasparyan, M. S., 91k:90165
- Nguyen, V. Hien see Xia, Zan Quan; et al., 91c:90106
- Nguyen Van Thoai see Horst, Reiner; et al., 91k:90142
- Nikulina, T. V. Calculation of the contingent derivative with respect to direction for an integral operator. 91c:49025
- Nocedal, Jorge The performance of several algorithms for large scale unconstrained optimization. 91k:90183
- Noor, Muhammad Aslam Iterative algorithms for semi-linear quasi complementarity problems. 91f:90134
- General quasi complementarity problems. 91k:90207
- Ogasawara, Hideho Some properties of a quadratic formulation for linear complementarity problems. 91a:90166
- Otero Pereira, Juan Manuel Zwei Trajektorienverfahren zur Lösung nichtlinearer Optimierungsaufgaben. (English summary) [Two trajectory methods for the solution of nonlinear optimization problems] 91i:90065
- Pang, Jong-Shi see Harker, Patrick T., 91f:65101
- Pardalos, Panos M. (with Kovoor, N.) An algorithm for a singly constrained class of quadratic programs subject to upper and lower bounds. 91j:90058
- see also Han, Chi-Geun; et al., 91k:90136; Guisewite, G. M., 91k:90211 and Floudas, Christodoulos A., 91m:90154
- Pardhanani, Anand (with Carey, Graham F.) Optimization of computational grids. 91a:65237
- Parisi, Valerio see Abaffi-Pentini, Filippo; et al., (Not in MR)
- Perevozchikov, A. G. Methods for estimating complex engineering systems whose quality is given by a preference relation. (Russian. English summary) 91g:90008
- On the complexity of the calculation of the global extremum in a class of multi-extremal problems. (Russian) 91b:90188
- Penny, A. B. see Ignatov, M. I., 91a:65025
- Pham Dinh Tuan (with Wang, S.; Yassine, A.) Training multi-layered neural network with a trust-region based algorithm. (French summary) (Not in MR)
- Phan Thiên Thach (with Hoàng Tuy) The relief indicator method for constrained global optimization. 91f:90124
- Phillips, A. T. (with Rosen, J. B.) Guaranteed ϵ -approximate solution for indefinite quadratic global minimization. 91i:90047
- Pieter, J. Solving nonlinear equation systems via global partition and search: some experimental results. (German summary) 91a:65141
- Pištora, Vladislav Shape optimization of an elastoplastic body for the model with strain-hardening. (Russian and Czech summaries) 91j:73050
- Plastria, F. see Lefebvre, O.; et al., 91c:90065 and (Not in MR)
- Pflichinger, E. Grenzwertaussagen für semistochastische Approximationsverfahren bei Verwendung von einigen deterministischen Schritten. [Limit value statements for semistochastic approximation methods when using some deterministic step sizes] 91k:65227
- Pola, Cecilia see Casas Rentería, Eduardo, (91j:00015)
- Polak, Elijah Basics of minimax algorithms. 91f:90125
- see also Higgins, J. E., 91k:90167
- Poore, Aubrey B. see Lundberg, Bruce N.; et al., 91j:90082
- Prince, Jerry L. (with Willsky, Alan S.) A geometric projection-space reconstruction algorithm. 91k:65215
- Propoi, A. I. see Bobylev, N. A.; et al., 91k:90220
- Purglove, C. J. see Boffey, T. B.; et al., (91c:65003)
- Radosavljević-Nikolić, Mirjana D. see Ašić, Miroslav D.; et al., 91c:90066
- Rapcsák, Tamás ★ Tensor optimization. 91k:90182
- Ratschek, H. (with Voller, R. L.) Global optimization over unbounded domains. 91c:90103
- Ravindran, A. see Shia, Wan S., 91m:90145
- Resende, Mauricio G. C. see Monteiro, Renato D. C.; et al., 91m:90101
- Ridella, S. see Corana, A.; et al., (Not in MR)
- Ries, M. see Hettich, R., 91b:90062
- Rohn, Jiri A short proof of finiteness of Murty's principal pivoting algorithm. 91k:90208
- Ros, C. An $O(n^3L)$ approximate center method for linear programming. 91k:90100
- Rosen, J. B. see Phillips, A. T., 91i:90047
- Roubíček, Tomáš Evaluation of Clarke's generalized gradient in optimization of variational inequalities. 91b:49023
- Ruhe, G. (with Fruehwirth, B.) ϵ -optimality for bicriteria programs and its application to minimum cost flows. (German summary) 91g:90137
- Rykov, A. S. see Kuznetsov, Aleksandr Georgievich, 91j:90090
- Schittkowski, K. Solving constrained nonlinear least squares problems by a general purpose SQP-method. 91b:90191
- Schmidt, Jochen W. Unconstrained dual programs to some discretized variational problems with side conditions. 91b:49033
- Schnabel, Robert B. see Smith, Sharon L.; et al., 91k:90184
- Schneider, Michael H. Matrix scaling, entropy minimization, and conjugate duality. II. The dual problem. 91c:90086
- Seeger, Alberto An extremal problem involving matricial quadratic forms. 91k:90185
- Seoane, M. L. see Kérnvez, J.-P.; et al., 91j:90076
- Shanno, David F. see Lastig, Irvin J.; et al., 91m:90100
- Shetty, Bala Approximate solutions to large scale capacitated facility location problems. 91k:90089
- Shin, Wan S. (with Ravindran, A.) An interactive method for multiple-objective mathematical programming problems. 91m:90145
- Shmyrlov, V. I. A search for equilibrium in a linear exchange model with fixed budgets and additional constraints of financial type. (Russian) 91k:90036
- Shvarts, B. see Tichatschke, Rainer, 91a:90135
- Smith, Sharon L. (with Eskow, Elizabeth; Schnabel, Robert B.) Large adaptive, asynchronous stochastic global optimization algorithms for sequential and parallel computation. 91k:90184
- Sofer, Ariela see Nash, Stephen G., 91f:90121
- Solerné, Pablo see Bank, Bernd; et al., 91b:90136
- Sonnevend, György (with Stoer, Josef; Zhao, Gong Yun) On the complexity of following the central path of linear programs by linear extrapolation. 91i:90036
- Stewart, G. W. An iterative method for solving linear inequalities. (see 91k:65011)
- Stoer, Josef see Sonnevend, György; et al., 91k:90036
- Strodiot, J.-J. see Xia, Zan Quan; et al., 91c:90106
- Sun, Jie see Mehrotra, Sanjay, 91m:90130 and 91m:90131
- Sun, Min Iterative algorithms for solving undiscounted Bellman equations. 91b:90121
- Sun, Zai Dong A family of easily implementable Clarke gradient projection algorithms and its convergence. (Chinese. English summary) (Not in MR)
- Tang, Huan Wen (with Guo, Jian¹; Jiang, Ye) Generalized pseudoconvex functions and convergence of the fixed-point algorithm for nonsmooth optimization. (Chinese) 91i:90068
- Tapia, Richard see Dennis, J. E., Jr.; et al., 91b:90177
- Teo, Kok Lay see Jennings, L. S., 91g:90151
- Thai Q. Phong see Horst, Reiner; et al., 91k:90142
- Tichatschke, Rainer (with Shvarts, B.) Methods of feasible directions for extremal problems of semi-infinite type. I. (Russian) 91a:90135
- see also Kaplan, A. A., 91m:49030
- Todd, Michael J. On convergence properties of algorithms for unconstrained minimization. 91b:90193
- Toint, Philippe L. (with Tuytens, D.) On large scale nonlinear network optimization. 91b:90204
- see also Conn, Andrew R.; et al., 91k:90158
- Tokareva, O. N. The decomposition method for solving a block system of linear equalities and inequalities of large dimension by means of sequential quadratic programming. 91a:90129
- Tolla, Pierre Optimal termination criterion and optimal solution accuracy test in Karmarkar's algorithm. 91f:90081
- Torabi, M. Decomposed block Cholesky factorization in the Karmarkar algorithm. Solving a class of super large LP problems. 91f:90082
- Toraldo, Gerardo see Burke, James V.; et al., 91f:90114 and More, Jorge J., 91k:90137
- Tossings, P. Sur l'ordre de convergence de l'algorithme du point proximal perturbé. (English summary) [On the rate of convergence of the perturbed proximal point algorithm] 91d:90102
- Tseng, Paul Dual ascent methods for problems with strictly convex costs and linear constraints: a unified approach. 91k:90186

- Applications of a splitting algorithm to decomposition in convex programming and variational inequalities. **91m:90134**
- Tuytens, D. *see* Toint, Philippe L., **91b:90204**
- Ursu, B. P. *see* Godonoga, A. F., **91j:90061**
- Värbrand, Peter *see* Jonsson, Orjan; et al., **91m:90085**
- Vázquez Polo, G. *see* Aragón, J. L.; et al., **91j:52020**
- Vial, Jean-Philippe A unified approach to projective algorithms for linear programming. **91h:90125**
— *see also* Goffin, J.-L., **91d:90058**
- Vignes, Jean Optimal implementation of optimization methods and estimation of the accuracy of the results. **91d:90092**
- Voller, R. L. *see* Ratschek, H., **91c:90103**
- Wang, Jia Song (with Xiao, Jian Hua) A descent algorithm for L_1 norm solutions to systems of linear equations. (Chinese. English summary) **91a:65104**
- Wang, S. *see* Pham Dinh Tuan; et al., (Not in MR)
- Wang, Wei² *see* Gao, Zi You, **91b:90060**
- Ward, D. E. *see* Merkovsky, R. R., **91d:90101**
- Willsky, Alan S. *see* Prince, Jerry L., **91h:65215**
- Wright, Stephen Joseph Convergence of an inexact algorithm for composite nonsmooth optimization. **91k:90187**
- Wu, Fang *see* Du, Ding Zhu; et al., **91i:90059**
- Xia, Zuo Quan (with Strodio, J.-J.; Nguyen, V. Hien) The C_M -embedded problem and optimality conditions. **91c:90106**
- Xiao, Jian Hua *see* Wang, Jia Song, **91a:65104**
- Xie, Yuan Fu An investigation of variable metric methods that are optimal in the variational sense—derivation of a new variable metric formula. (Chinese) **91f:90127**
- Xie, Zheng Hui A mixed finite element method for a fourth-order obstacle problem. (Chinese. English summary) **91d:65179**
- Xie, Zhi Yun Nonlinear programming algorithms for the best interpolation knots of a spline. **91h:65028**
- Yang, Bing *see* Lundberg, Bruce N.; et al., **91j:90082**
- Yang, Hung Chang A partially simultaneous extension of Hildreth's iterative row-action method for quadratic programming. **91k:90138**
- Yassine, A. *see* Pham Dinh Tuan; et al., (Not in MR)
- Ye, Yinyu *see* Han, Chi-Guen; et al., **91b:90136**
- Yin, Gang George *see* Zhu, Yun Min, **91b:93188**
- Yoshise, Akiko *see* Kajima, Masakazu; et al., **91k:90206**
- Yudin, D. B. *Вычислительные методы теории принятия решений. (Russian) [Numerical methods in the theory of decision-making] **91g:90001**
- Zavriev, S. K. Convergence properties of the gradient method in the presence of noises of variable level. (Russian) **91k:90189**
- Zeng, Qing Guang (with He, Guo Ping; Gao, Zi You) A convergence theorem for Rosen gradient projection under linear constraints. (Chinese. English summary) **91k:90190**
- Zhang, Jian Zhong (with Zhu, De Tong) A trust region typed dogleg method for nonlinear optimization. **91h:90105**
- Zhang, Shi Sheng (with Huang, Nan Jing) Generalized strongly nonlinear quasi-complementarity problems in Hilbert spaces. **91g:90169**
- Zhang, Shu Jian *see* Li, Xin Ming; et al., **91k:90097**
- Zhang, Xiang Sun *see* Du, Ding Zhu, **91b:90179** and **91i:90059**
- Zhao, Gong Yun *see* Sonnevend, György; et al., **91i:90036**
- Zhu, De Tong Convergence of projected Hessian updating algorithms for minimizing nonsmooth composite functions. (Chinese. English summary) **91k:90194**
— *see also* Zhang, Jian Zhong, **91h:90105**
- Zhu, Mei Fang (with Deng, Nai Yang) On the symmetric rank- m correction of matrices. **91g:65099**
- Zhu, Yun Min (with Yin, Gang George) Corrigendum: "Optimal quasi-convex combinations for stochastic approximation algorithms with parallel observers" [Internat. J. Control **49** (1989), no. 6, 1947–1964; MR **90c:93116**]. **91b:93188**
- Žilinskas, Antanas (with Makauskas, Algirdas) The possibility of calculating derivatives in statistical models of multi-extremal functions. (Russian. English and Lithuanian summaries) **91k:90195**
- Zimmermann, U. Search directions for a class of projective methods. (German summary) **91m:90105**
- Zirilli, Francesco *see* Aluffi-Pentini, Filippo; et al., (Not in MR)
- Zowe, Jochem *see* Ben-Tal, Aharon; et al., **91i:90053**
- Zvyagina, R. A. Solution of a system of linear equations on the basis of an ordered consolidation of its multilayered block property. (Russian) (Not in MR)
- 65K10 Optimization and variational techniques [see also 49Mxx, 93B40]**
- Attea, M. (with Benbourhim, M. N.) Spline elastic manifolds. **91f:65127**
- Banks, S. P. (with Khathur, Saadi A.) Structure and control of piecewise-linear systems. **91c:65047**
- Bardi, Martino (with Falcone, M.) Discrete approximation of the minimal time function for systems with regular optimal trajectories. **91m:65177**
- Benbourhim, M. N. *see* Attea, M., **91f:65127**
- Blazhenova-Mikulich, L. Yu. On the averaging properties of the Ho algorithm. (Russian) (see **91k:90023**)
- Bretnema, N. A. (with Steinbuch, M.) A fast algorithm to compute the H_∞ -norm of a transfer function matrix. **91f:65128**
- Burev, D. D. Optimal stabilization of discrete nonlinear objects of higher order. **91a:65166**
- Byrd, Richard H. On the convergence of constrained optimization methods with accurate Hessian information on a subspace. **91k:65117**
- Carter, Richard G. On the global convergence of trust region algorithms using inexact gradient information. **91m:65178**
- Chiossi, Claudia (with Comodi, Maria Isabella) Numerical approximation of the stationary points of a nondifferentiable functional. (Italian. English summary) **91h:65114**
- Comodi, Maria Isabella *see* Chiossi, Claudia, **91h:65114**
- Dax, Achya On computational aspects of bounded linear least squares problems. **91m:65179**
- Diamond, Phil Least squares fitting of compact set-valued data. **91m:65180**
- Ding, Hua² (with Zheng, Zhe Min; Xu, Shou Ze) A new approach to inverse problems of wave equations. **91k:65118**
- Dinh Nho Hao Finite difference method for an optimal control problem of quantum processes. **91g:65157**
- Falcone, M. *see* Bardi, Martino, **91m:65177**
- Genkin, A. V. (with Muchnik, I. B.) An optimal algorithm for maximization of submodular functions. **91c:65117**
- Glowinski, Roland (with Kinton, W.; Wheeler, Mary F.) A mixed finite element formulation for the boundary controllability of the wave equation. **91c:65089**
- Gorinevskii, D. M. The Bubnov-Galerkin method in problems of the control of oscillatory mechanical systems with distributed parameters. **91k:65119**
- Gonzburger, Max D. (with Hou, L.; Svobodny, T. P.) Finite element approximations of an optimal control problem associated with the scalar Ginzburg-Landau equation. **91m:65181**
— (with Hou, L.; Svobodny, T. P.) Analysis and finite element approximation of optimal control problems for the stationary Navier-Stokes equations with distributed and Neumann controls. **91m:65182**
- Gusev, E. L. Construction of an optimal solution in systems that can be described by an interconnected aggregate of systems of differential equations. (Russian) (see **91k:00026**)
- Hou, L. *see* Gonzburger, Max D.; et al., **91m:65181** and **91m:65182**
- Ishmukhametov, A. Z. *see* Vasil'ev, F. P.; et al., (91k:00023)
- Isichenko, I. V. (with Perov, V. P.) Iterative methods for solving a class of problems of optimal control of systems with distributed parameters. **91g:65158**
- Jasinski, Heinrich Zu einigen Iterationsverfahren der optimalen Steuerung. (English summary) [On some iteration methods of optimal control] **91k:65118**
- Khathur, Saadi A. *see* Banks, S. P., **91c:65047**
- Khudak, Yu. I. On the best one-layer clearing covering for a frequency interval. **91a:65167**
- Kinton, W. *see* Glowinski, Roland; et al., **91c:65089**
- Lepp, Riho Discrete approximation of extremal problems with operator constraints of inequality type. (Russian) **91m:65183**
- Lescrolier, M. Convergence of trust region algorithms for optimization with bounds when strict complementarity does not hold. **91m:65184**
- Mäkinen, Raimo On numerical methods for state constrained optimal shape design problems. **91g:65159**
- Malyshev, V. A. Mean-square minimization on a wedge defined by a differential inequality. (Russian) (see **91k:65009**)
- Mratova, L. A. *see* Vasil'ev, F. P.; et al., (91k:00023)
- Muchnik, I. B. *see* Genkin, A. V., **91c:65117**
- Norikova, N. M. (with Solodova, S. V.) A numerical method for solving convex problems of optimal control of distributed systems. (Russian) **91h:65115**
- Perov, V. P. *see* Isichenko, I. V., **91g:65158**
- Potapov, M. M. *see* Vasil'ev, F. P.; et al., (91k:00023)
- Solodova, S. V. *see* Norikova, N. M., **91h:65115**
- Steinbuch, M. *see* Bretnema, N. A., **91f:65128**
- Svobodny, T. P. *see* Gonzburger, Max D.; et al., **91m:65181** and **91m:65182**
- Vaarmann, O. Solution of nonlinear least squares problems by Levenberg-Marquardt type methods. (Russian and Estonian summaries) **91c:65048**
- Vasil'ev, F. P. (with Ishmukhametov, A. Z.; Mratova, L. A.; Potapov, M. M.) A difference analogue of the generalized moment method in a linear optimal control problem with a quadratic functional. (Russian) (see **91k:00023**)
- Várov, A. Ya. A dynamic method for reconstruction of a derivative in L_2 of improved accuracy. (Russian) **91c:65090**
- Wheeler, Mary F. *see* Glowinski, Roland; et al., **91c:65089**
- Wright, Stephen Joseph Solution of discrete-time optimal control problems on parallel computers. (Not in MR)
- Xu, Cheng Xian An efficient linear search program. (Chinese. English summary) **91m:65185**
- Xu, Shou Ze *see* Ding, Hua²; et al., **91k:65118**
- Zheng, Zhe Min *see* Ding, Hua²; et al., **91k:65118**
- Items with secondary classifications in 65K10
- Abou-Kandil, H. An eigenvector solution for multilevel linear-quadratic Stackelberg games. **91f:90164**
- Aggarwal, Avnish (with Floudas, Christodoulos A.) A decomposition approach for global optimum search in QP, NLP and MINLP problems. **91m:90148**
- Antonyuk, A. A. *see* Mikhalevich, V. S.; et al., **91k:90175**
- Badea, Lori On the Schwarz alternating method with more than two subdomains for nonlinear monotone problems. **91m:65165**
- Banks, H. T. (with Lo, C. K.; Reich, Simeon; Rosen, I. G.) Numerical studies of identification in nonlinear distributed parameter systems. **91b:65067**
— (with Ito, Kazufumi) A numerical algorithm for optimal feedback gains in high-dimensional linear quadratic regulator problems. **91m:93055**
- Belbas, S. A. (with Mayergoyz, I. D.) Iterative schemes for certain time-dependent problems of stochastic optimal control. **91c:93082**
- Ben Saad, Sihem (with Jacobsen, Stephen E.) A level set algorithm for a class of reverse convex programs. **91j:90059**
- Bertocchi, Maria Parallel optimization. (Russian and Polish summaries) **91m:90150**
- Bertsekas, Dimitri P. *see* Dunn, J. C., **91a:49022**
- Boros, T. (with Rózsa, Pál; Mironovskii, L. A.; Mikhailov, N. V.) A uniform algorithm for the transformation of multivariable systems into canonical forms. **91k:93021**
- Bruch, J. C., Jr. *see* Sadigh-Esfandari, R.; et al., **91c:73090**
- Canudas de Wit, Carlos (with Carrillo, F. Javier) A modified EW-RLS algorithm for systems with bounded disturbances. (Not in MR)
- Carrillo, F. Javier *see* Canudas de Wit, Carlos, (Not in MR)
- Chen, Guang Ya Vector variational inequality and its application for multiobjective optimization. **91a:90155**
- Choi, Jae Rong *see* Kim, Byung-Duk; et al., **91m:62052**
- Chu, Lian Yuan *see* Wang, Cai Lan, **91m:90165**

- Coope, Ian D. A conjugate direction implementation of the BFGS algorithm with automatic scaling. **91b:90175**
- Dikumar, V. V. (with Milyutin, A. A.) ★ Качественные и численные методы в принципе максимума. (Russian) [Qualitative and numerical methods in the maximum principle] **91b:90001**
- Dunn, J. C. (with Bertsekas, Dimitri P.) Efficient dynamic programming implementations of Newton's method for unconstrained optimal control problems. **91a:49022**
- Eiermann, M. C. see Shen, Zu He; et al., **91b:65081**
- El-Alem, Mahmoud A global convergence theory for the Celis-Dennis-Tapia trust-region algorithm for constrained optimization. **91k:90161**
- Erincsek, N. M. see Zholudev, A. I.; et al., **91d:49034**
- Fazlyov, V. R. see Kulikov, A. N., **91k:90143**
- Floudas, Christodoulos A. see Aggarwal, Avnish, **91m:90148**
- Fontecilla, Rodrigo Inexact secant methods for nonlinear constrained optimization. **91c:65042**
- Fujii, Nobuo see Goto, Yoshito, **91k:49060**
- Fujii, Yasuo see Ichida, K., **91c:90092**
- Goh, C. J. see Teo, Kok Lay; et al., **91k:49049**
- Gorbunov, V. K. Regularization of extremal problems. (Russian) **91m:49033**
- Goto, Yoshito (with Fujii, Nobuo) Second-order numerical method for domain optimization problems. **91k:49060**
- Grachev, N. I. Realization of numerical optimal control algorithms. (Russian) (see **91k:90009**)
- Gregory, John¹ (with Lin, Cantian) Numerical transversality conditions in optimization problems. **91k:49046**
- (with Wang, Rong Sheng) Discrete variable methods for the m -dependent variable, nonlinear extremal problem in the calculus of variations. **91j:49047**
- Hansen, Per Christian The discrete Picard condition for discrete ill-posed problems. **91m:65119**
- Ichida, K. (with Fujii, Yasuo) Multicriterion optimization using interval analysis. (German summary) **91c:90092**
- Ito, Kazufumi see Banks, H. T., **91m:93055**
- Jacobsen, Stephen E. see Ben Saad, Sihem, **91j:90059**
- Kågström, Bo (with Westin, Lars) Generalized Schur methods with condition estimators for solving the generalized Sylvester equation. **91c:93018**
- Kalashnikov, V. V. (with Kalashnikova, N. I.) Optimal control of internal accuracy in a two-layer iterative process. (Russian) **91d:93043**
- Kalashnikova, N. I. see Kalashnikov, V. V., **91d:93043**
- Kalita, A. S. see Volosov, V. V.; et al., **91g:93013**
- Kemelov, D. U. Numerical solution of a control problem for a hyperbolic equation. (Russian) (see **91g:35004**)
- Khussainov, D. Ya. see Yun'kova, E. A., **91m:34052**
- Kim, Byong-Dok (with Choi, Jae Rong; Kudô, Akio) The algorithm of sweep-the-negatives and its applications to an extended restriction inference. **91m:62052**
- Kirsten, Harry Über die Effektivität von Optimierungsverfahren zur numerischen Lösung elliptischer Variationsungleichungen. [On the efficiency of optimization methods for the numerical solution of elliptic variational inequalities] **91f:65163**
- Krasovskii, A. A. A method of fast numerical integration for one class of dynamical systems. **91j:65137**
- Kudô, Akio see Kim, Byong-Dok; et al., **91m:62052**
- Kulikov, A. N. (with Fazlyov, V. R.) Convex optimization with prescribed accuracy. (Russian) **91k:90143**
- Kushner, Harold J. Numerical methods for stochastic control problems in continuous time. **91i:93130**
- Ladde, Gangaram S. (with Šitjak, Dragoslav D.) Convergence and stability of distributed stochastic iterative processes. **91d:93074**
- Lai, Shiva Narain see Nath, Balj; et al., **91b:90202**
- Lin, Cantian see Gregory, John¹, **91k:49046**
- Liu, Yi¹ see Teo, Kok Lay; et al., **91k:49049**
- Lo, C. K. see Banks, H. T.; et al., **91b:65067**
- Labyshiev, F. V. Accuracy of difference approximations and regularization of optimal control problems on solutions of an elliptic equation with controls in its coefficients and in its right-hand side. (Russian) (see **91f:65003**)
- Mayergoyz, I. D. see Belbas, S. A., **91c:93082**
- Menaldi, José-Luis Probabilistic view of estimates for finite difference methods. **91b:49043**
- Mikhailov, N. V. see Boros, T.; et al., **91k:93021**
- Mikhalevich, V. S. (with Redkovskii, N. N.; Antonyuk, A. A.; Perekatov, A. E.) Nonconvex approximations in unconditional minimization. **91k:90175**
- Milyutin, A. A. see Dikumar, V. V., **91b:90001**
- Mironovskii, L. A. see Boros, T.; et al., **91k:93021**
- Mohd, Ismail Bin An interval global optimization algorithm for a class of functions with several variables. **91m:65134**
- Monteiro Marques, Manuel D. P. Minimization of integral functionals depending on Lipschitz domains. **91d:49004**
- Moore, Ramon E. Global optimization to prescribed accuracy. **91m:90159**
- Mukherjee, Rathindra Nath¹ see Nath, Balj; et al., **91b:90202**
- Nath, Balj (with Lal, Shiva Narain; Mukherjee, Rathindra Nath¹) A generalized nonlinear complementarity problem in semi-inner product space. **91b:90202**
- Neumaier, Arnold see Shen, Zu He; et al., **91b:65081**
- Nguyễn Chân (with Tran Hoang Yen) Support algorithm for linear discrete minimax control problem. **91k:49011**
- Nizhichenko, E. A. see Volosov, V. V.; et al., **91g:93013**
- Oyanagi, Yoshio see Zhang, Shao Liang, **91m:65126**
- Perekatov, A. E. see Mikhalevich, V. S.; et al., **91k:90175**
- Perevoshchikov, A. G. Minimax methods for designing dynamical systems. (Russian. English summary) **91h:93033**
- Pieten, Ariadna (DP)-conjugate directions methode [method]. **91c:49051**
- Pottmann, Helmut Scattered data interpolation based upon generalized minimum norm networks. **91m:65023**
- Powell, M. J. D. (with Yuan, Ya Xiang) A trust region algorithm for equality constrained optimization. **91m:90162**
- Pustovoi, N. A. An algorithm matrix criterion for stability. (Russian) **91g:65096**
- Qin, Xin Chuan see Sai, Yun Kang; et al., (Not in MR)
- Redkovskii, N. N. A numerical method for solving systems of nonlinear equations. **91m:65148**
- see also Mikhalevich, V. S.; et al., **91k:90175**
- Reich, Simeon see Banks, H. T.; et al., **91b:65067**
- Repyakh, V. V. Error analysis of the method of approximate superelements. (Russian) **91m:65264**
- Rosen, I. G. see Banks, H. T.; et al., **91b:65067**
- Roshčec, Tomáš Constrained optimization: a general tolerance approach. (Russian and Czech summaries) **91b:49017**
- Róssa, Pál see Boros, T.; et al., **91k:93021**
- Rubinstein, Reuven Y. (with Shapiro, Alexander) Optimization of static simulation models by the score function method. **91k:65024**
- Sadigh-Esfandari, R. (with Sloss, J. M.; Bruch, J. C., Jr.) Passive optimal control of an antisymmetric angle-ply laminate. **91e:73090**
- Sarčenko, V. S. One method of numerical solution of problems with special optimal controls. (Not in MR)
- Schäffler, S. (with Warsitz, H.) A trajectory-following method for unconstrained optimization. **91m:90163**
- Schochetman, Irwin E. (with Smith, Robert L.) Convergence of selections with applications in optimization. **91m:49010**
- Shapiro, Alexander see Rubinstein, Reuven Y., **91k:65024**
- Shen, Zu He (with Neumaier, Arnold; Eiermann, M. C.) Solving minimax problems by interval methods. **91k:65081**
- Shraga, Y. (with Tewarson, R. P.) Parameter estimation in underdetermined problems. **91k:34022**
- Šitjak, Dragoslav D. see Ladde, Gangaram S., **91d:93074**
- Sloss, J. M. see Sadigh-Esfandari, R.; et al., **91e:73090**
- Smith, Robert L. see Schochetman, Irwin E., **91m:49010**
- Srochko, V. A. see Vasil'ev, O. V.; et al., **91f:90002**
- Sai, Yun Kang (with Qin, Xin Chuan; Wang, Xi Cheng) A method of optimizing curve direction based on objective streamlines. (Chinese. English summary) (Not in MR)
- Semin, V. I. A foundation for gradient methods for distributed optimal control problems. **91c:49012**
- Teo, Kok Lay (with Liu, Yi¹; Goh, C. J.) Nonlinearly constrained discrete-time optimal-control problems. **91k:49049**
- Tereshchenko, V. Ya. A variational-difference scheme for realization of a duality algorithm in problems of minimization of generalized Trefftz functionals. (Russian) **91m:49032**
- Terletskii, V. A. see Vasil'ev, O. V.; et al., **91f:90002**
- Tewarson, R. P. see Shraga, Y., **91k:34022**
- Tian, Zhi Yuan A quasi-Newton algorithm for solving a class of composite nonsmooth minimization problems. (Chinese. English summary) **91m:90164**
- Tran Hoang Yen see Nguyễn Chân, **91k:49011**
- Tyatyushkin, A. I. see Zholudev, A. I.; et al., **91d:49034**
- Ugowski, Henryk Remarks on the ascent algorithm for the linear minimax problem. **91j:90051**
- Vasil'ev, O. V. (with Srochko, V. A.; Terletskii, V. A.) ★ Методы оптимизации и их приложения. Часть 2. (Russian) [Optimization methods and their applications. Part 2] **91f:90002**
- Vel'or, V. M. Discrete approximations of integrals of multivalued mappings. **91b:65056**
- Volosov, V. V. (with Kalita, A. S.; Nizhichenko, E. A.) Investigation of one form of nonstochastic identification algorithms that uses the Lyapunov direct method. **91g:93013**
- Voronin, A. N. Approximate solution of multicriterial variational control problems. (Not in MR)
- Walk, H. Zur Konvergenzgeschwindigkeit eines rekursiven Penalisationsverfahrens der stochastischen Optimierung. [On the rate of convergence of a recursive penalization method of stochastic optimization] **91m:90135**
- Wang, Cai Lan (with Chu, Lian Yuan) A double complex algorithm and its application in research on the phenomenological nuclear force. (Chinese. English summary) **91m:90165**
- Wang, Rong Sheng see Gregory, John¹, **91k:49046**
- Wang, Xi Cheng see Sai, Yun Kang; et al., (Not in MR)
- Warsitz, H. see Schäffler, S., **91m:90163**
- Westin, Lars see Kågström, Bo, **91c:93018**
- Xing, An-Qing Applications of the penalty function method in constrained optimal control problems. **91c:49056**
- Xu, Yong Zhi An optimal control problem for the Helmholtz equation in a stratified shallow ocean. **91i:49024**
- Ye, Yinyu Interior-point algorithms for global optimization. **91k:90188**
- Yuan, Ya Xiang see Powell, M. J. D., **91m:90162**
- Yun'kova, E. A. (with Khussainov, D. Ya.) A numerical algorithm for constructing an optimal Lyapunov function. (Russian) **91m:34052**
- Zhang, Jian Zhong (with Zhu, De Tong) Projected quasi-Newton algorithm with trust region for constrained optimization. **91k:90191**
- Zhang, Shao Liang (with Oyanagi, Yoshio) A necessary and sufficient convergence condition of orthomin(k) methods for least squares problem with weight. **91m:65126**
- Zheng, Quan¹ Robust analysis and global minimization of a class of discontinuous functions. I. **91k:90192**
- Zholudev, A. I. (with Tyatyushkin, A. I.; Erincsek, N. M.) Numerical optimization methods for controlled processes. **91d:49034**
- Zhu, De Tong see Zhang, Jian Zhong, **91k:90191**
- Zowe, Jochem The BT-algorithm for minimizing a nonsmooth functional subject to linear constraints. **91m:90167**

65K99 None of the above, but in this section

- Abdullaeva, N. D. see Kabulov, A. V., **91c:65091**
- Cai, Yao Zhi see Li, Ming Zhi, (Not in MR)

- Dutt, Pravin *see* Ta'asan, Shlomo, 91g:65162
- Eberl, Walther, Jr. (with Hübner, Alfred; Packard, Norman H.; Lüscher, E.) Unique models for stochastic dynamics. (Not in MR)
- Encheva, Tatiana I. Computational comparisons for method of centers of gravity of vertices. (Not in MR)
- Gregory, John¹ (with Lin, Cantian) The numerical solution of variable endpoint problems in the calculus of variations. (see 91m:00031)
- Hübner, Alfred *see* Eberl, Walther, Jr.; et al., (Not in MR)
- Kabulov, A. V. (with Abdullaeva, N. D.) Reducing some extremal problems to a problem of determining and searching for a maximal upper zero. (Russian) 91e:65091
- Kirichenko, N. F. (with Kutsenko, A. A.; Lepkha, P. P.) Identification of invariant geometric characteristics for two-dimensional images by the method of self-correlating functions. (Russian) 91m:65186
- Kutsenko, A. A. *see* Kirichenko, N. F.; et al., 91m:65186
- Lakatos, László Maximization processes with discrete time that are controlled by a multidimensional random walk. (Russian) (see 91k:65006)
- Lepkha, P. P. *see* Kirichenko, N. F.; et al., 91m:65186
- Li, Ming Zhi (with Cai, Yao Zhi) An approximate algorithm for finding solutions for friction loss terms of frequency relations. (Chinese. English summary) (Not in MR)
- Lin, Cantian *see* Gregory, John¹, (91m:00031)
- Lüscher, E. *see* Eberl, Walther, Jr.; et al., (Not in MR)
- Malyshev, V. A. Differential inequalities and extremal problems. (Russian) (see 91k:65006)
- Nikol'skii, M. S. Approximation of a continuous multivalued mapping by constant multivalued mappings. (Russian) 91g:65160
- Packard, Norman H. *see* Eberl, Walther, Jr.; et al., (Not in MR)
- Svistunov, S. V. An iterative method for determining the elliptic hull of a system of vectors. (Russian. English summary) 91g:65161
- Ta'asan, Shlomo (with Dutt, Pravin) Parameter estimation problems for distributed systems using a multigrid method. 91g:65162

Items with secondary classifications in 65K99

- Athlé, G. *see* Benjelloun, S.; et al., (91b:00050)
- Bailey, R. A. Automorphism groups of block structures with and without treatments. 91g:05011
- Benjelloun, S. (with Spiteri, Pierre; Athlé, G.) Parallel algorithms for solving the obstacle problem. (see 91b:00050)
- Cesco, J. C. *see* Tarazaga, Pablo; et al., 91d:90019
- Chernykh, O. I. *see* Voruzheva, S. V.; et al., (91i:90004)
- Chernyshova, G. D. *see* Voruzheva, S. V.; et al., (91i:90004)
- Chow, Chee-Seng (with Tsitsiklis, John N.) The complexity of dynamic programming. 91c:90114
- Chuyan, O. R. (with Sukharev, A. G.) On adaptive and nonadaptive stochastic and deterministic algorithms. 91e:90070
- Deng, Qing Ping A noninternal approximation method for an obstacle problem. (Chinese. English summary) 91e:65146
- Dixon, L. C. W. (with Mohseninia, M.) Incomplete Cholesky decomposition in the truncated Newton method. (see 91e:90029)
- Fel, Jing Gao Local analytical methods for digital simulation of dynamical control system. 91i:93058
- Kuz'michev, A. S. Numerical models with several quality criteria. (Russian) (see 91i:90004)
- Lin, Gao Ning (with Lin, Yi Xun) A strong polynomial algorithm for the transshipment problem—a graphical method of primal-dual type. (Chinese. English summary) 91e:90064
- Lin, Yi Xun *see* Lin, Gao Ning, 91e:90064
- Lind, Bengt K. Properties of an algorithm for solving the inverse problem in radiation therapy. 91j:92008
- Marti, Kurt Optimal semistochastic approximation. 91d:90070
- Mohseninia, M. *see* Dixon, L. C. W., (91e:90029)
- Neme, Alejandro *see* Tarazaga, Pablo; et al., 91d:90019
- Pyyrö, Yu. P. Nonlinear reduction of a measurement. (Russian) 91a:90127
- Pytlak, Radosław Numerical experiment with new conjugate direction methods for nondifferentiable optimization. 91c:49052
- Sedukhin, S. G. (with Tishchenko, T. P.) ★ Проектирование высокопараллельных вычислительных структур для алгоритма Гаусса-Жордана в применении к задачам фильтрации. (Russian) [Design of highly parallel numerical structures for the Gauss-Jordan algorithm in an application to filtering problems] (Not in MR)
- Sharp, Keith P. Stochastic differential equations in finance. 91f:90024
- Spiteri, Pierre *see* Benjelloun, S.; et al., (91b:00050)
- Sukharev, A. G. *see* Chuyan, O. R., 91e:90070
- Sum, Min Numerical solutions of singular stochastic control problems in bounded intervals. 91j:93127
- Tang, Jin *see* Wang, Cheng Shu, 91m:65122
- Tarazaga, Pablo (with Neme, Alejandro; Cesco, J. C.) Some computational aspects related to an input-output model. (Portuguese summary) 91d:90019
- Thacker, W. C. Large least-squares problems and the need for automating the generation of adjoint codes. 91e:86001
- Tishchenko, T. P. *see* Sedukhin, S. G., (Not in MR)
- Tolwinski, Bolesław Numerical solutions to differential games based on approximations by Markov games. 91a:90206
- Tsitsiklis, John N. *see* Chow, Chee-Seng, 91c:90114
- Voruzheva, S. V. (with Chernykh, O. I.; Chernyshova, G. D.) Construction of probabilistic algorithms for optimization by means of a modified Lagrange function for computer-aided design systems problems. (Russian) (see 91i:90004)
- Wang, Cheng Shu (with Tang, Jin) The convergence of a MED iterative algorithm for the kurtosis norm. 91m:65122
- Wasilkowski, G. W. (with Woźniakowski, H.) Mixed settings for linear problems. 91k:65045
- Woźniakowski, H. *see* Wasilkowski, G. W., 91k:65045
- Zheng, Yun Yu A nonconforming finite element for obstacle problems. (Chinese. English summary) 91h:65133

65Lxx Ordinary differential equations

- Arushanyan, O. B. (with Zaitkin, S. F.) ★ Численное решение обыкновенных дифференциальных уравнений на Фортране. (Russian) [Numerical solution of ordinary differential equations in Fortran] 91m:65187
- Friedman, R. S. (with Jamieson, M. J.) A note on solving coupled second-order linear differential equations. 91k:65120
- Jamieson, M. J. *see* Friedman, R. S., 91k:65120
- Petzold, Linda R. Recent developments in the numerical solution of differential/algebraic systems. 91d:65094
- Zaitkin, S. F. *see* Arushanyan, O. B., 91m:65187
- Items with secondary classifications in 65Lxx
- (Bakhvalov, N. S.) *see* Hairer, Ernst; et al., 91e:65002
- (Filippov, S. S.) *see* Hairer, Ernst; et al., 91e:65002
- Hairer, Ernst (with Nørsett, Syvert P.; Wanner, Gerhard) ★ Решение обыкновенных дифференциальных уравнений. (Russian) [Solving ordinary differential equations] 91e:65002
- (Kufchitskaya, I. A.) *see* Hairer, Ernst; et al., 91e:65002
- Maess, Gerhard ★ Vorlesungen über numerische Mathematik. II. (German) [Lectures on numerical mathematics. II] 91a:65003
- Nørsett, Syvert P. *see* Hairer, Ernst; et al., 91e:65002
- Wanner, Gerhard *see* Hairer, Ernst; et al., 91e:65002

65L05 Initial value problems

- Abelman, S. (with Eyre, David J.) A numerical study of multistep methods based on continued fractions. 91g:65163
- Abramov, A. A. (with Balla, K.) ★ Об оценке погрешности переноса условия ограниченности. (Russian) [An error estimate for the transfer of the boundedness condition] 91b:65083
- Ahmed, Ibrahim R. Spline approximations for system of second order ordinary differential equations. 91j:65118
- Alexander, Roger K. (with Coyle, James J.) Runge-Kutta methods and differential-algebraic systems. 91d:65095
- Ameen, W. *see* Sallam, Samir Mohamed, 91d:65101
- Andreev, Andrei St. *see* Nikoltjeva-Hedberg, M., 91c:65051
- Andrus, J. F. Formulas for modular integration of systems of ODEs. 91m:65188
- Azinger, Wladimir On the error structure of the implicit Euler scheme applied to stiff systems of differential equations. (German summary) 91j:65119
- (with Frank, Reinhard M.; Kirlinger, G.) Asymptotic error expansions for stiff equations: applications. (German summary) 91a:65168
- (with Frank, Reinhard M.; Kirlinger, G.) A note on convergence concepts for stiff problems. (German summary) 91h:65116
- On error structures and extrapolation for stiff systems, with application in the method of lines. (German summary) 91h:65117
- Balla, K. *see* Abramov, A. A., 91b:65083
- Bauch, Hartmut (with Linke, Harald) Äußere und innere Schranken für Lösungsmengen von Anfangswertproblemen bei gewöhnlichen Differentialgleichungen 1. Ordnung. [Outer and inner bounds for solution sets of initial value problems for first-order ordinary differential equations] 91d:65096
- Bellen, A. Parallelism across the steps for difference and differential equations. 91c:65049
- (with Vermiglio, R.; Zennaro, Marino) Parallel ODE-solvers with stepsize control. 91i:65119
- Berezanskii, L. M. (with Ide's, L. V.) Chaplygin's method for the numerical solution of differential equations with retarded argument. (Russian) 91h:65118
- Bobkov, V. V. (with Mandrik, P. A.; Repnikov, V. I.) Difference schemes of higher orders of accuracy for systems of differential equations with exponential trajectory character. (Russian. English summary) 91a:65169
- Brankin, R. W. (with Gladwell, I.) Shape-preserving local interpolation for plotting solutions of ODEs. 91a:65170
- Brown, Peter N. (with Byrne, George D.; Hindmarsh, Alan C.) VODE: a variable-coefficient ODE solver. 91g:65164
- Buchacker, U. *see* Filippi, Siegfried, (Not in MR)
- Bui, T. D. *see* Legault, R., 91d:65098
- Burmeister, W. (with Grossmann, Christian; Scholz, Siegfried) Directional approximation of the Jacobians in ROW methods. 91m:65189
- Butcher, J. C. Order, stepsize and stiffness switching. (German summary) 91e:65092
- (with Cash, J. R.) Towards efficient Runge-Kutta methods for stiff systems. 91a:65171
- Byrne, George D. *see* Brown, Peter N.; et al., 91g:65164
- Calvo Pinilla, Manuel (with Montijano, J. I.; Rández, L.) A new embedded pair of Runge-Kutta formulas of orders 5 and 6. (Not in MR)
- (with Grande, T.; Grigoriu, Rolf Dieter) On the zero stability of the variable order variable stepsize BDF-formulas. 91e:65093
- Campbell, Stephen L. A computational method for general higher index nonlinear singular systems of differential equations. 91f:65129
- (with Clark, Kenneth D.) Convergence of BDF approximations for nonsolvable differential algebraic equations. 91h:65004
- Cash, J. R. (with Karp, Alan H.) A variable order Runge-Kutta method for initial value problems with rapidly varying right-hand sides. (Not in MR)
- *see also* Butcher, J. C., 91a:65171
- Chawla, M. M. (with Jain, Mahinder Kumar; Subramanian, R.) The application of explicit Nyström methods to singular second order differential equations. 91a:65172
- Chen, De Hui A class of one-step methods for solving stiff ordinary differential equations. (Chinese. English summary) 91m:65190
- Clark, Kenneth D. *see* Campbell, Stephen L., 91f:65129
- Claus, Hermann Singly-implicit Runge-Kutta methods for retarded and ordinary differential equations. (German summary) 91a:65173
- Coleman, John P. Errata for: "Numerical methods for $y'' = f(x, y)$ via rational approximations for the cosine" [IMA J. Numer. Anal. 9 (1989), no. 2, 145–165; MR 90i:65130].

- 91e:65094
 Coyle, James J. *see* Alexander, Roger K., 91e:65095
 Croft, A. *see* Quinney, D. A., (91f:65004)
 Dahlquist, G. (with Jeltsch, R.) Shifted Runge-Kutta methods and transplanted differential equations. 91g:65165
 Dong, Guo Xiong *see* Zhao, Shuang Suo, 91j:65124
 Dormand, J. R. (with El-Mikkawy, M. E. A.; Prince, P. J.) Corrigendum: "High-order embedded Runge-Kutta-Nystrom formulae" [IMA J. Numer. Anal. 7 (1987), no. 4, 423–430; MR 90d:65136]. (Not in MR)
 Dornblaser, Bright C. *see* Friesner, Richard A.; et al., 91f:65131
 Dubey, Sibesh Kumar A computational technique for solving differential equations via Chebyshev polynomials of the second kind. 91a:65174
 Eliseeva, Yu. V. An algorithm for solving the symplectic matrix Riccati equation. (Russian) 91i:65120
 El-Mikkawy, M. E. A. *see* Dormand, J. R.; et al., (Not in MR)
 Evans, David J. *see* Sanugi, B. B., (91e:00029)
 Eyre, David J. *see* Abelman, S., 91g:65163
 Fawzy, Tharwat (with Ramadan, Z.) Improved error of an arbitrary order for the approximate solution of system of ordinary differential equations with spline functions. 91g:65166
 — (with Soliman, Samia) A spline approximation method for the initial value problem $y^{(n)} = f(x, y, y')$. 91m:65191
 Filippi, Siegfried (with Buchacker, U.) Ein Hermite-Runge-Kutta-Verfahren der Ordnung 5(6) für retardierte Anfangswertprobleme. [A Hermite-Runge-Kutta method of order 5(6) for retarded initial value problems] (Not in MR)
 Franco, J. M. A direct-integration method for the numerical solution of second-order hyperbolic equations. (Spanish) (see 91j:00015)
 — (with Palacios, M.) High-order P-stable multistep methods. 91f:65130
 Frank, Reinhard M. *see* Auzinger, Winfried; et al., 91a:65168 and 91h:65116
 Friesner, Richard A. (with Tuckerman, Laurette S.; Dornblaser, Bright C.; Russo, Thomas V.) A method for exponential propagation of large systems of stiff nonlinear differential equations. 91f:65131
 Fritz, Torsten (with Scholz, Siegfried) Numerische Behandlung speziell strukturierter Differentialgleichungssysteme der Elektrotechnik. [Numerical treatment of specially structured systems of differential equations in electronics] (Not in MR)
 Fuchs, P. M. Ein negatives Resultat über algebraische Stabilität von verallgemeinerten IRK-Methoden. [A negative result on algebraic stability of generalized IRK methods] 91g:65167
 Fujii, Masatomo An extension of Milne's device for the Adams predictor-corrector methods. 91k:65121
 Galantai, A. Stability problems of discretization methods. (see 91b:00051)
 Galligani, Ilio Solving linear differential equations on a vector computer. (Italian. English summary) 91a:65175
 — Extrapolation methods for solving ordinary differential equations on a vector computer. (Italian. English summary) 91a:65176
 — (with Ruggiero, Valeria) The arithmetic mean method for solving large systems of linear ordinary differential equations on a vector computer. (see 91m:65006)
 Gear, C. W. Differential algebraic equations, indices, and integral algebraic equations. 91m:65192
 Gilbert, John (with Light, William A.) Envelope solutions for implicit ordinary differential equations. 91h:65085
 Gladwell, I. *see* Brankin, R. W., 91a:65170
 Goussis, D. A. *see* Lam, S. H., (91e:00029)
 Grande, T. *see* Calvo Pinilla, Manuel; et al., 91e:65093
 Grigor'ev, Rolf Dieter *see* Calvo Pinilla, Manuel; et al., 91e:65093
 Grossmann, Christian *see* Burmeister, W.; et al., 91m:65189
 Györi, István Sharp conditions for existence of nontrivial invariant cones of nonnegative initial values of difference equations. 91h:65086
 Györfi, János Die Lösung der Anfangswertprobleme der gewöhnlichen Differentialgleichungen mit Hilfe der modifizierten lakunären Spline-Funktionen. [The solution of the initial value problems of ordinary differential equations with the aid of modified lacunary spline functions] 91f:65132
 Hairer, Ernst (with Lubich, Christian) On extrapolation methods for stiff and differential algebraic equations. (see 91f:65004)
 — (with Lubich, Christian; Roche, Michel) ★ The numerical solution of differential-algebraic systems by Runge-Kutta methods. 91a:65178
 — (with Lubich, Christian) Convergence of one-step methods at stiff differential equations. 91a:65177
 — (with Ostermann, Alexander) Dense output for extrapolation methods. 91m:65193
 Hindmarsh, Alan C. *see* Brown, Peter N.; et al., 91g:65164
 van der Houwen, P. J. (with Sommeijer, B. P.) Improving the stability of predictor-corrector methods by residue smoothing. 91f:65121
 — (with Sommeijer, B. P.) Parallel iteration of high-order Runge-Kutta methods with stepsize control. 91a:65179
 Huang, Cheng Gui Complement definition methods. (Chinese summary) 91a:65180
 Hübner, Eckhard Zur iterativen Defektkorrektur bei Anfangswertproblemen gewöhnlicher Differentialgleichungen. [On the iterative defect correction in initial value problems for ordinary differential equations] 91d:65097
 Hundsdorfer, Willem H. (with Schneid, Josef) An algebraic characterization of B-convergent Runge-Kutta methods. 91c:65050
 — (with Steininger, B. I.) Convergence of linear multistep and one-leg methods for stiff nonlinear initial value problems. 91m:65194
 — *see also* Verwer, J. G.; et al., 91d:65102
 Ibragimov, V. R. Some properties of the Richardson extrapolation. (Russian) 91m:65195
 — A connection between order and degree for a stable formula with anticipation. (Russian) 91g:65168
 Ide's, L. V. *see* Berezanskii, L. M., 91f:65118
 Irvine, Douglas H. (with Savageau, Michael A.) Efficient solution of nonlinear ordinary differential equations expressed in S-system canonical form. 91a:65181
 Ivanitsa, V. V. *see* Martynuk, D. I., 91k:65120
 Jain, Mahinder Kumar *see* Chawla, M. M.; et al., 91a:65172 and Jain, Rajinder Kumar; et al., 91m:65196
 Jain, Rajinder Kumar (with Jain, Mahinder Kumar; Kumar, Rajive²) Six-point block explicit method for general second order initial value problems. 91m:65196
 Jeltsch, R. *see* Dahlquist, G., 91g:65165
 Jódar, Lucas (with Law, A. G.; Weston, J. H.) Approximate solutions of $X'' - BX = F(t)$, with B a constant matrix. 91j:65120
 Kacwicz, Bolesław Z. On sequential and parallel solution of initial value problems. 91j:65121
 Karp, Alan H. *see* Cash, J. R., (Not in MR)
 Kirillov, P. V. A numerical method for solving a stochastic Cauchy problem. (Russian) (see 91g:00038)
 Kirlinger, G. *see* Auzinger, Winfried; et al., 91a:65168 and 91h:65116
 Kumar, Rajive² *see* Jain, Rajinder Kumar; et al., 91m:65196
 Lam, S. H. (with Goussis, D. A.) Basic theory and demonstration of computational singular perturbation for stiff equations. (see 91e:00029)
 Law, A. G. *see* Jódar, Lucas; et al., 91j:65120
 Legault, R. (with Bui, T. D.) Comparing the contractivity properties of semi-implicit methods. 91d:65098
 Lentini, M. (with März, Roswitha) Conditioning and dichotomy in differential algebraic equations. 91m:65197
 Levykin, A. I. (with Novikov, E. A.) A one-step method of third-order accuracy for solving implicit systems of ordinary differential equations. (Russian) 91f:65133
 Li, Shou Fu Stability and B-convergence of general linear methods. 91e:65095
 Li, Wang Yao An adaptive algorithm for solving initial value problems for ordinary differential equations. (Not in MR)
 Light, William A. *see* Gilbert, John, 91h:65085
 Lubich, Harald *see* Bauch, Hartmut, 91d:65096
 Lubich, Christian (with Roche, Michel) Rosenbrock methods for differential-algebraic systems with solution-dependent singular matrix multiplying the derivative. (German summary) 91f:65134
 — *see also* Hairer, Ernst, 91a:65177; 91a:65178 and (91f:65004)
 Lundberg, Bruce N. (with Poore, Aubrey B.) Variable order Adams-Bashforth predictors with an error-stepsize control for continuation methods. 91m:65198
 Ma, Fu Ming Centre manifold and numerical solution of nonlinear differential equations. 91h:65119
 Mandrik, P. A. *see* Bobkov, V. V.; et al., 91a:65169
 van der Marel, Roeland P. Stability radius of polynomials occurring in the numerical solution of initial value problems. 91g:65169
 Martynuk, D. I. (with Ivanitsa, V. V.) An interval-analytic method for solving the Cauchy problem. (Russian) 91h:65120
 März, Roswitha *see* Lentini, M., 91m:65197
 Mederos, María V. (with Pérez Cabrera, María del Carmen) Stiff differential equations and their solution using a nonanalytic Jacobian matrix. (Spanish. English summary) 91f:65122
 Miao, Jian Ming Multiderivative hybrid one-step methods. (Chinese. English summary) 91a:65182
 Micula, G. Numerical solution of delay differential equations of higher order by spline functions. (see 91k:00030)
 — Über die numerische Lösung gewöhnlicher Differentialgleichungen zweiter Ordnung mit nachfolgendem Argument durch Spline-Funktionen. [On the numerical solution of second-order ordinary differential equations with retarded argument by spline functions] 91d:65099
 Mihálykó, Cs. Spline approximation for the solution of a special Cauchy problem. 91g:65170
 Mitsui, Taketomo *see* Qi, Tie Shan, 91j:65122
 Montijano, J. I. *see* Calvo Pinilla, Manuel; et al., (Not in MR)
 Namasivayam, S. (with Ortiz, E. L.) A hierarchy of truncation error estimates for the numerical solution of a system of ordinary differential equations with techniques based on the tau method. 91h:65121
 Nevanlinna, Olavi Remarks on Picard-Lindelöf iteration. I. 91h:65087
 — Remarks on Picard-Lindelöf iteration. II. 91h:65088
 — Power bounded prolongations and Picard-Lindelöf iteration. 91m:65199
 Nikoltjeva-Hedberg, M. (with Andreev, Andrei St.) Estimate of the error in Adams' method for solving second order ordinary differential equations. 91c:65051
 Novikov, E. A. *see* Levykin, A. I., 91f:65133
 Oso, Harumi Five- and six-stage Runge-Kutta type formulas of orders numerically five and six. 91a:65183
 — (with Toda, Hideo) Runge-Kutta type seventh-order limiting formula. 91a:65184
 Ortiz, E. L. *see* Namasivayam, S., 91h:65121
 Ostermann, Alexander Continuous extensions of Rosenbrock-type methods. (German summary) 91f:65123
 — A half-explicit extrapolation method for differential-algebraic systems of index 3. 91f:65124
 — *see also* Hairer, Ernst, 91m:65193
 Palacios, M. *see* Franco, J. M., 91f:65130
 Pence, Dennis D. Smooth spline solutions to initial value problems. (see 91j:41002)
 Pereira, Aldenice Brito Step-changing matrices for Adams-type cyclic methods. (Portuguese. English summary) (Not in MR)
 Pérez Cabrera, María del Carmen *see* Mederos, María V., 91f:65122
 Poore, Aubrey B. *see* Lundberg, Bruce N., 91m:65198
 Prince, P. J. *see* Dormand, J. R.; et al., (Not in MR)
 Qi, Tie Shan (with Mitsui, Taketomo) Attainable order of the P-stable family of certain two-step methods for periodic second order initial value problems. 91j:65122
 Quinney, D. A. (with Croft, A.) Extrapolation—new solutions from OLD. (see 91f:65004)
 Ramadan, Z. *see* Fawzy, Tharwat, 91g:65166
 Rándež, L. *see* Calvo Pinilla, Manuel; et al., (Not in MR)
 Reznikov, V. I. *see* Bobkov, V. V.; et al., 91a:65169
 Reverdy, Jacques Sur la B-stabilité pour une équation différentielle à retard. (English summary) [B-stability for a delay differential equation] 91d:65100

- Roche, Michel. Differential algebraic systems and very stiff equations. (see 91f:65004)
 — see also Hairer, Ernst; et al., 91a:65178 and Lubich, Christian, 91f:65134
 Ruggiero, Valeria. see Galligani, Ilio, 91m:65006
 Russo, Thomas V. see Friesner, Richard A.; et al., 91f:65131
 Sallam, Samir Mohamed (with Ameen, W.). Numerical solution of general n th-order differential equations via splines. 91d:65101
 Samugi, B. B. (with Evans, David J.). New predictor-corrector trapezoidal formulae for solving initial value problems. (see 91e:00029)
 Sarafyan, D. New algorithms for the continuous approximate solution of ordinary differential equations and the upgrading of the order of the processes. (Not in MR)
 Savageau, Michael A. see Irvine, Douglas H., 91a:65181
 Scheiber, Ernest (with Socca, Doina). Sur la convergence d'une méthode d'intégration du problème de Cauchy relatif à une équation différentielle à argument retardé. (Romanian summary) [Convergence of an integration method for the Cauchy problem associated with a delay differential equation] (Not in MR)
 Schneider, Josef. see Hundsdoerfer, Willem H., 91c:65050
 Schneider, Claus. Rosenbrock-type methods adapted to differential-algebraic systems. 91j:65123
 Scholz, Siegfried. Order barriers for SDIRK and ROW methods. (see 91f:65004)
 — On implicit Runge-Kutta methods with a global error estimation for stiff differential equations. (German and Russian summaries) 91a:65185
 — Corrigendum to: "Order barriers for the B -convergence of ROW methods" [Computing 41 (1989), no. 3, 219–235; MR 90b:65146]. 91g:65171
 — see also Burmeister, W.; et al., 91m:65189 and Fritz, Torsten, (Not in MR)
 Shampine, L. F. Singular ODEs arising from the Laplacian and spherical symmetry. (Not in MR)
 — Order selection in ODE codes based on implicit formulas. (Not in MR)
 Shvedenko, V. V. Parallel method of high-precision numerical integration for LSI integrated circuit analysis. 91f:65135
 Socca, Doina. see Scheiber, Ernest, (Not in MR)
 Sollman, Samia. see Fawzy, Tharwat, 91m:65191
 Sommeijer, B. P. see van der Houwen, P. J., 91a:65179; Verwer, J. G.; et al., 91d:65102 and van der Houwen, P. J., 91f:65121
 Steininger, B. I. see Hundsdoerfer, Willem H., 91m:65194
 Stengle, Gilbert. Numerical methods for systems with measurable coefficients. (Not in MR)
 Subrahmanyam, M. B. Numerical method for the solution of the singular Riccati matrix. 91c:65052
 Subramanian, R. see Chawla, M. M.; et al., 91a:65172
 Thompson, Skip. Stepsize control for delay differential equations using continuously imbedded Runge-Kutta methods of Sarafyan. (Not in MR)
 Toda, Hideo. see Ono, Harumi, 91a:65184
 Tuckerman, Laurette S. see Friesner, Richard A.; et al., 91f:65131
 Tudose, Constantia. On a nonlinear differential equation for the fast dynamic phenomena. (Not in MR)
 Vermiglio, R. see Bellen, A.; et al., 91f:65119
 Verwer, J. G. (with Hundsdoerfer, Willem H.; Sommeijer, B. P.). Convergence properties of the Runge-Kutta-Chebyshev method. 91d:65102
 Wazwaz, Abdul-Majid. A modified third order Runge-Kutta method. (Not in MR)
 Weston, J. H. see Jódar, Lucas; et al., 91j:65120
 Wu, Xia Yuan. Some results on the set of k -step order k implicit linear multistep formulas and nearly A -stable linear multistep methods. (Chinese. English summary) (Not in MR)
 Xu, Xu Hai. Extended Adams-Moulton methods. (Chinese summary) 91b:65089
 — Extended second derivative methods for solving stiff systems of ODEs. 91f:65125
 Yailoyan, A. M. Solution on a computer of a class of linear systems of differential equations by a numerical-analytic method. (Russian) (see 91k:00023)
 Zennaro, Marino. see Bellen, A.; et al., 91f:65119
 Zhao, Shuang Sun (with Dong, Guo Xiong). Contractivity of (k, l) -methods for solving initial value problems of stiff systems of ordinary differential equations. (Chinese. English summary) 91j:65124
 Zhu, Fang Sheng. B -convergence of the Crouzeix method. (Chinese. English summary) 91c:65053
 — A parallel algorithm for the Crouzeix method. (Chinese. English summary) (Not in MR)
 Zlatev, Zahari. Transition to variable stepsize formula methods for solving ordinary differential equations. 91a:65186
- Items with secondary classifications in 65L05
- Andersen, Per Ulrikjaer. see Skelboe, Stig, 91b:65102
 Ashyralyev, A. O. Difference schemes of a higher order of accuracy for second-order evolution equations. (Russian) (see 91c:34070)
 Bakaev, N. Yu. Estimates for the stability of a general discretization method. (Russian) 91c:65104
 Bao, Xue Song. see Xu, Hong Yi; et al., 91d:65069
 Barlund, Anders (with Kågström, Bo). Analytical and numerical solutions to higher index linear variable coefficient DAE systems. 91j:34003
 Bauch, Hartmut. Solving ordinary initial value problems by means of T -intervals. 91j:65082
 Boyarintsev, Yu. E. (with Danilov, V. A.; Loginov, A. A.; Chistyakov, V. F.) * Численные методы решения сингулярных систем. (Russian) [Numerical methods for solving singular systems] 91b:65104
 Bremer, I. (with Schneider, K. R.). A remark on solving large systems of equations in function spaces. (Czech summary) 91k:65100
 Bronstein, Manuel. Fast reduction of the Risch differential equation. 91a:34012
 (Bulato, M. V.) see Boyarintsev, Yu. E.; et al., 91b:65104
 Calvo Pinilla, Manuel (with Lizbona, F.; Montijano, J. I.). On the stability of interpolatory variable-stepsize Adams methods in Nordieck form. 91g:65189
 Charney, Benjamin. Recursive formulas for transforming ODEs to a polynomial form. 91m:34043
 Chistyakov, V. F. see Boyarintsev, Yu. E.; et al., 91b:65104
 Choi, Chin H. (with Laub, Alan J.). Efficient matrix-valued algorithms for solving stiff Riccati differential equations. 91f:93038
 Claus, Hermann. see Strehmel, Karl; et al., 91b:65103
 Cellatz, Lothar. Rational and algebraic approximation for initial- and boundary value problems. 91a:65191
 Côté, Georges (with Zahar, R. V. M.). Computation of the matrix exponential. 91b:65085
 Danilov, V. A. see Boyarintsev, Yu. E.; et al., 91b:65104
 Dong, Guo Xiong. see Zhao, Shuang Sun; et al., 91d:65118
 Dreisidler, Alexandra. Drei numerische Verfahren zur Lösung gewöhnlicher Differentialgleichungen erster Ordnung. [Three numerical procedures for the solution of ordinary differential equations of first order] 91a:65002
 Fawzy, Tharwat (with Ramadan, Z.). Spline approximations for a system of ordinary differential equations. II. 91c:34012
 Garey, L. E. (with Gladwin, C. J.). Unconditional stable methods for second order Fredholm integro-differential equations. 91j:65197
 Gladwin, C. J. see Garey, L. E., 91j:65197
 Goel, Rakesh. see Jain, Rajinder Kumar; et al., 91b:65101
 Higuera Sanz, Inmaculada. Asymptotic expansion of the global error of BDF formulas applied to systems of differential-algebraic equations. (Spanish) (see 91j:00015)
 Jain, Rajinder Kumar (with Kumar, Rajive²; Goel, Rakesh). Superstable implicit Runge-Kutta methods for second order initial value problems. 91b:65101
 Jaziclevich, A. (with Tewarson, R. P.). A stability criterion for explicit boundary value Runge-Kutta methods. 91a:65212
 Johnson, Claes (with Nie, Yi Yong; Thomée, Vidar). An a posteriori error estimate and adaptive timestep control for a backward Euler discretization of a parabolic problem. 91g:65199
 Kågström, Bo. see Barlund, Anders, 91j:34003
 Kovalev, V. A. The method of integral splines in problems in dynamics. (Russian) 91j:65017
 Kumar, Rajive². see Jain, Rajinder Kumar; et al., 91b:65101
 Kunkel, Peter (with Mehrmann, V.). Numerical solution of differential algebraic Riccati equations. 91b:65087
 Kwapiński, Marian. On the error evaluation of approximate solutions of discrete equations. 91c:65079
 Lakshmikantham, V. (with Sun, Yong). Applications of interval analysis to minimal and maximal solutions of differential equations. 91m:65132
 Laub, Alan J. see Choi, Chin H., 91f:93038
 Lizbona, F. see Calvo Pinilla, Manuel; et al., 91b:65189
 Loginov, A. A. see Boyarintsev, Yu. E.; et al., 91b:65104
 Lopez, Luciano. One-step collocation methods for differential-algebraic systems of index 1. 91c:65107
 Mehrmann, V. see Kunkel, Peter, 91b:65087
 Montijano, J. I. see Calvo Pinilla, Manuel; et al., 91b:65189
 Nanda, Tara R. An interactive method for the eigenvalue problem for matrices. 91a:65092
 Nevanlinna, Olli. Linear acceleration of Picard-Lindelöf iteration. 91d:65008
 Nie, Yi Yong. see Johnson, Claes; et al., 91g:65199
 Peskin, Charles S. see Sneyd, James, 91c:33006
 Petzold, Linda R. Recent developments in the numerical solution of differential/algebraic systems. 91a:65215
 Qiao, Ning. see Zhao, Shuang Sun; et al., 91d:65118
 Ramadan, Z. see Fawzy, Tharwat, 91c:34012
 Reddy, Satish C. (with Trefethen, Lloyd N.). Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues. 91j:65102
 Rogava, Dzh. L. Convergence of an averaged scheme of summary approximation for an abstract parabolic equation. (Russian. English and Georgian summaries) 91b:65103
 Schneider, K. R. see Bremer, I., 91k:65100
 Skelboe, Stig (with Andersen, Per Ulrikjaer). Stability properties of backward Euler multirate formulas. 91b:65102
 Sneyd, James (with Peskin, Charles S.). Computation of geodesic trajectories on tubular surfaces. 91c:33006
 Stewart, Kris. Avoiding stability-induced inefficiencies in BDF methods. (Not in MR)
 Strehmel, Karl (with Weiner, Rüdiger; Claus, Hermann). Stability analysis of linearly implicit one-step interpolation methods for stiff retarded differential equations. 91b:65103
 Sun, Yong. see Lakshmikantham, V., 91m:65132
 Tewarson, R. P. see Jaziclevich, A., 91a:65212
 Thomée, Vidar. see Johnson, Claes; et al., 91g:65199
 Trefethen, Lloyd N. see Reddy, Satish C., 91j:65102
 Tu, Jun Ru. see Xu, Hong Yi; et al., 91d:65069
 Weiner, Rüdiger. see Strehmel, Karl; et al., 91b:65103
 Xu, Hong Yi (with Bao, Xue Song; Tu, Jun Ru). An indirect application of Runge-Kutta method for solving $f(x) = 0$. (Chinese summary) 91d:65069
 Zahar, R. V. M. see Côté, Georges, 91d:65085
 Zhao, Shuang Sun (with Dong, Guo Xiong; Qiao, Ning). On S -stability. 91d:65118
- 65L06 Multistep, Runge-Kutta and extrapolation methods**
- Albrecht, Peter. The extension of the theory of A -methods to RK-methods. 91g:65172
 Arndt, Herbert (with Baker, Christopher T. H.). Runge-Kutta formulae applied to Volterra functional equations with a fixed delay. 91g:65173
 Artem'ev, S. S. (with Shkurko, I. O.). A variable step algorithm for numerical integration of stiff systems of ordinary differential equations with oscillating solutions. (Russian) 91b:65090
 Auszinger, Winfried (with Frank, Reinhard M.). Asymptotic error expansions for stiff equations: an analysis for the implicit midpoint and trapezoidal rules in the strongly stiff case. 91k:65122
 — (with Frank, Reinhard M.; Macsek, Franz). Asymptotic error expansions for stiff equations: the implicit Euler scheme. 91k:65123
 Baker, Christopher T. H. see Arndt, Herbert, 91g:65173
 Becker, Jochen. Checking quickly the order of a Runge-Kutta-Nyström method for $y'' = f(x, y)$. 91m:65200
 Bogacki, P. (with Shampine, L. F.). Interpolating high-order Runge-Kutta formulas. 91g:65174

- Bruder, Jürgen *see* Weiner, Rüdiger, (91i:65003)
- Burrage, Kevin *see* Sharp, P. W.; et al., 91k:65124
- Calvé, M. (with Vaillancourt, Rémi) Interpolants for Runge-Kutta pairs of order four and five. (German summary) 91m:65201
- Cooper, G. J. (with Vignesvaran, R.) A scheme for the implementation of implicit Runge-Kutta methods. (German summary) 91m:65202
- Dannehl, I. *see* Strehmel, Karl; et al., 91g:65178
- Dekker, K. (with Kraaijevanger, J. F. B. M.; Schneid, Josef) On the relation between algebraic stability and B -convergence for Runge-Kutta methods. 91j:65125a
- (with Kraaijevanger, J. F. B. M.; Schneid, Josef) Erratum: "On the relation between algebraic stability and B -convergence for Runge-Kutta methods". 91j:65125b
- Durakova, V. K. (with Novikov, Vyacheslav Aleksandrovich; Novikov, E. A.) Construction of explicit methods of the first order of accuracy with a given size of the stability interval. (Russian) (see 91j:00011)
- Fine, J. M. *see* Sharp, P. W.; et al., 91k:65124
- Frank, Reinhard M. *see* Auzinger, Winfried, 91k:65122 and 91k:65123
- Gladwell, I. (with Thomas, Ruth Margaret) Efficiency of methods for second-order problems. 91g:65175
- Golovan', N. S. (with Lyashchenko, N. Ya.) A two-sided Runge-Kutta method of the sixth order of accuracy for second-order ordinary differential equations. (Russian) 91b:65091
- Grande, T. (with Montijano, J. I.; Rández, L.) Continuous Runge-Kutta methods for integrating delay differential equations. (Spanish. English summary) (see 91j:00015)
- Hairer, Ernst (with Iserles, Arieh; Sanz-Serna, J. M.) Equilibria of Runge-Kutta methods. 91i:65126
- Higham, Desmond J. Robust defect control with Runge-Kutta schemes. 91e:65096
- Hundsdorfer, Willem H. Convergence of Runge-Kutta methods on classes of stiff initial value problems. 91b:65092
- Iserles, Arieh (with Nørsett, Syvert P.) On the theory of parallel Runge-Kutta methods. 91i:65127
- *see also* Hairer, Ernst; et al., 91i:65126
- Jiang, Chang Jin A multigrid method for solving initial value problems for ordinary differential equations. (Chinese. English summary) 91g:65176
- Jorge, J. C. (with Montijano, J. I.; Rández, L.) A pair 4(3) of additive Runge-Kutta methods for the integration of stiff differential equations. (Spanish. English summary) (see 91j:00015)
- Klaus, H. (with Strehmel, Karl) Stability of Runge-Kutta interpolation methods for differential equations with a retarded argument. (Russian) (see 91i:65003)
- Kloeden, Peter E. (with Lorenz, Jens) A note on multistep methods and attracting sets of dynamical systems. 91i:65128
- Kraaijevanger, J. F. B. M. *see* Dekker, K.; et al., 91j:65125a and 91j:65125b
- Kverna, Anne Runge-Kutta methods applied to fully implicit differential-algebraic equations of index 1. 91g:65177
- Lenferink, H. W. J. Contractivity-preserving implicit linear multistep methods. 91i:65129
- Li, Shou Fu B -convergence of linear multistep methods. (Chinese. English summary) 91b:65093
- Lorenz, Jens *see* Kloeden, Peter E., 91i:65128
- Lyashchenko, N. Ya. *see* Golovan', N. S., 91b:65091
- Macsek, Franz *see* Auzinger, Winfried; et al., 91k:65123
- Montijano, J. I. *see* Grande, T.; et al., (91j:00015) and Jorge, J. C.; et al., (91j:00015)
- Nipp, Kaspar *see* Stoffer, Daniel, 91m:65204
- Nørsett, Syvert P. *see* Iserles, Arieh, 91i:65127
- Novikov, E. A. *see* Durakova, V. K.; et al., (91j:00011)
- Novikov, Vyacheslav Aleksandrovich *see* Durakova, V. K.; et al., (91j:00011)
- Owren, Brynjulf (with Seip, Kristian) Some stability results for explicit Runge-Kutta methods. 91m:65203
- (with Zennaro, Marino) Order barriers for continuous explicit Runge-Kutta methods. 91i:65130
- Papageorgiou, George *see* Taitouras, Ch., 91d:65103
- Rández, L. A new Runge-Kutta method for solving structured nonstiff differential equations. (Spanish) (see 91j:00015)
- *see also* Grande, T.; et al., (91j:00015) and Jorge, J. C.; et al., (91j:00015)
- Sanz-Serna, J. M. *see* Hairer, Ernst; et al., 91i:65126
- Scherer, Rudolf (with Türke, Helmut) The construction of A -stable Runge-Kutta methods. 91i:65131
- Schneid, Josef *see* Dekker, K.; et al., 91j:65125a and 91j:65125b
- Seip, Kristian *see* Owren, Brynjulf, 91m:65203
- Shampine, L. F. (with Zhang, Wen) Rate of convergence of multistep codes started by variation of order and stepsize. 91i:65132
- *see also* Bogacki, P., 91g:65174
- Sharp, P. W. (with Fine, J. M.; Burrage, Kevin) Two-stage and three-stage diagonally implicit Runge-Kutta Nyström methods of orders three and four. 91k:65124
- Shkurko, I. O. *see* Artem'ev, S. S., 91b:65090
- Stoffer, Daniel (with Nipp, Kaspar) Invariant curves for variable step size integrators. 91m:65204
- Strehmel, Karl (with Weiner, Rüdiger) Order results for linearly implicit Runge-Kutta methods applied to semi-linear stiff systems. 91b:65122
- (with Weiner, Rüdiger) Linearly implicit Runge-Kutta methods for stiff differential equations (a survey). (Russian) (see 91i:65003)
- (with Weiner, Rüdiger; Dannehl, I.) On error behaviour of partitioned linearly implicit Runge-Kutta methods for stiff and differential algebraic systems. 91g:65178
- *see also* Klaus, H., (91i:65003)
- Suris, Yu. B. Preservation of integral invariants in the numerical solution of systems $\dot{x} = Kx + f(x)$. (Russian) 91m:65205
- Thomas, Ruth Margaret *see* Gladwell, I., 91k:65175
- Taitouras, Ch. (with Papageorgiou, George) Runge-Kutta interpolants based on values from two successive integration steps. 91d:65103
- Türke, Helmut *see* Scherer, Rudolf, 91i:65131
- Vaillancourt, Rémi *see* Calvé, M., 91m:65201
- Valková, Anna Remarks to the error estimations of the Runge-Kutta methods. (Not in MR)
- Verner, J. H. A contrast of some Runge-Kutta formula pairs. 91g:65179
- Vignesvaran, R. *see* Cooper, G. J., 91m:65202
- Warwas, Abdul-Majid Modified numerical methods based on arithmetic and geometric means. (Not in MR)
- Weiner, Rüdiger (with Bruder, Jürgen) Expanded adaptive Runge-Kutta methods for solving stiff and nonstiff differential equations. (Russian) (see 91i:65003)
- *see also* Strehmel, Karl; et al., 91g:65178; 91h:65122 and (91i:65003)
- Wu, Hong Wei *see* Wu, Xin Yuan, 91j:65126
- Wu, Xin Yuan (with Wu, Hong Wei) A set of k -step, order $k + 1$ linear multistep formulas for solving initial value problems for ordinary differential equations, and their stiff stability. (Chinese. English summary) 91j:65126
- *see also* Xu, Hong Yi, 91j:65127
- Xu, Hong Yi (with Wu, Xin Yuan) Second derivative multistep methods for solving stiff ordinary differential equations. (Chinese. English summary) 91j:65127
- Zennaro, Marino *see* Owren, Brynjulf, 91i:65130
- Zhang, Wen *see* Shampine, L. F., 91i:65132
- Zhao, Shuang Suo The embedding problem concerning semiratio implicit Runge-Kutta methods. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 65L06

- Fey, M. (with Jarausch, H.; Jeltsch, R.; Karmann, P.) On the interaction of Euler and ODE solvers when computing reactive gas flow. (see 91m:65002)
- Hundsdorfer, Willem H. (with Steininger, B. I.) Convergence of linear multistep and one-leg methods for stiff nonlinear initial value problems. 91m:65194
- Jarausch, H. *see* Fey, M.; et al., (91m:65002)
- Jeltsch, R. *see* Fey, M.; et al., (91m:65002)
- Karmann, P. *see* Fey, M.; et al., (91m:65002)
- Krannikh, K.-D. Uniform convergence of adaptive Runge-Kutta methods in the method of lines. (Russian) (see 91i:65003)
- Schneider, Claus Rosenbrock-type methods adapted to differential-algebraic systems. 91j:65123
- Steininger, B. I. *see* Hundsdorfer, Willem H., 91m:65194
- Trif, Damian On a predictor-corrector method to follow a continuum of $F^{-1}(0)$, for $F: \mathbb{R}^{n+1} \rightarrow \mathbb{R}^n$. (see 91k:00030)

65L07 Numerical investigation of stability of solutions

- Burrage, Kevin (with Petzold, Linda R.) On order reduction for Runge-Kutta methods applied to differential/algebraic systems and to stiff systems of ODEs. 91c:65054
- Kartyshev, S. V. (with Shyarmokas, A. V.) Numerical construction of stability boundaries for systems of second-order differential equations with delay. 91i:65133
- Kloeden, Peter E. (with Lorenz, Jens) Lyapunov stability and attractors under discretization. 91a:65187
- Lorenz, Jens *see* Kloeden, Peter E., 91a:65187
- Petzold, Linda R. *see* Burrage, Kevin, 91c:65054
- Ruan, Shi Gui Successive overrelaxation iteration for the stability of large scale systems. 91d:65104
- Shyarmokas, A. V. *see* Kartyshev, S. V., 91i:65133
- Items with secondary classifications in 65L07
- Alexander, Roger K. (with Coyle, James J.) Runge-Kutta methods and differential-algebraic systems. 91d:65095
- Coyle, James J. *see* Alexander, Roger K., 91d:65095
- Dellnitz, Michael (with Werner, Bodo) Computational methods for bifurcation problems with symmetries—with special attention to steady state and Hopf bifurcation points. 91a:58133
- Denk, Georg An improved numerical integration method in the circuit simulator SPICE2-S. (see 91m:00035)
- Kharitonov, V. L. *see* Melicheva, T. L., 91f:93083
- Melicheva, T. L. (with Kharitonov, V. L.) On the stability of systems with retarded argument. (Russian) 91f:93083
- Morozov, M. V. An algorithm for the analysis of the stability of linear periodic systems and its realization on a computer. 91c:34057
- Répaç, Antonino Nonlinear dynamical systems: on the accuracy of Adomian's decomposition method. 91m:34021
- Werner, Bodo *see* Dellnitz, Michael, 91a:58133

65L10 Boundary value problems

- Abramov, A. A. (with Alvarez, L. M.) A method for solving stiff boundary value problems that is based on the splitting of the operator. 91c:65097
- Achil'diev, A. I. The method of smoothing elements for determining eigenfunctions for a system of ordinary differential equations. (Russian. Tajiki summary) 91f:65136
- Allanazarov, Zh. P. *see* Prikschikov, V. G., 91a:65200
- Alvarez, L. M. *see* Abramov, A. A., 91c:65097
- Al-Zanadi, Mansour (with Grossmann, Christian) 1D-grid generation by monotone iteration discretization. (German summary) 91b:65094
- Ashirov, B. S. On the numerical solution of nonlocal boundary value problems for equations with singular coefficients. (Russian. English summary) (Not in MR)
- Ashyralyev, A. O. On uniform difference schemes of a higher order of approximation for elliptical equations with a small parameter. 91d:65105
- Auchmuty, Giles *see* Zhang, Suo Chun, 91a:65209
- Angustynowicz, A. (with Kwapisz, Marian) On a numerical-analytic method of solving of boundary value problem for functional-differential equation of neutral type. 91j:65128
- Bogner, V. M. (with Grigor'eva, E. A.) A quasilinear equation with a small parameter multiplying the highest derivative. (Russian) 91a:65188
- Bai, Yin (with Schild, K.-H.) A collocation method for boundary value problems of differential-algebraic equations. 91j:65129
- Bainov, D. D. (with Milusheva, S. D.) A projection-iterative method for solving the periodic problem for ordinary differential equations with impulse effect. 91b:65095
- Bakirov, Zh. Zh. *see* Sklyar, S. N., 91c:65099

- Bhildvala, R. B. *see* Chen, C.-J.; et al., 91a:65189
- Blinov, I. A. The projection method for singularly perturbed boundary value problems. (Russian) 91b:65123
- Bock, H. G. (with Eich, E.; Schlöder, J. P.) Numerical solution of constrained least squares boundary value problems in differential-algebraic equations. (see 91f:65004)
- Boutayeb, A. *see* Twizell, E. H., 91m:65209
- Bowers, Kenneth L. *see* Smith, Ralph C.; et al., 91d:65110
- Bykov, A. A. A stable method for solving stiff boundary value problems for second-order ordinary differential equations with a slowly varying matrix. 91g:65180
- Cash, J. R. (with Wright, Margaret H.) A deferred correction algorithm for nonlinear two-point boundary value problems. (see 91e:00029)
- (with Wright, Margaret H.) Implementation issues in solving nonlinear equations for two-point boundary value problems. (German summary) 91f:65134
- Chen, C.-J. (with Sheikholeslami, M. Z.; Bhildvala, R. B.) Finite analytic numerical method for two-point boundary value problems of ordinary differential equations. 91a:65189
- Chen, Ming Lun *see* Wang, Guo Ying, 91f:65140
- Chervin, I. M. (with Yakimov, I. V.) A numerical method for solving boundary value problems for integro-differential equations with deviating argument. 91a:65190
- Clavero Gracia, Carmelo (with Lisbona, Francisco J.) Uniformly convergent schemes for singular perturbation problems with turning points. (Spanish) (see 91j:00015)
- Collatz, Lothar Rational and algebraic approximation for initial- and boundary value problems. 91a:65191
- Crisci, M. R. (with Russo, E.; Vecchio, A.) Periodicity intervals of the tau method for the numerical integration of certain second order differential equations. 91d:65106
- Darmas, T. G. (with Diecklin, V. D.) Numerical solution of a two-point singularly perturbed problem. (Russian) (Not in MR)
- Dimova-Borshukova, Stefka *see* Ivanova, D. I.; et al., 91b:65096
- Diecklin, V. D. *see* Darmas, T. G., (Not in MR)
- Duvallet, Jeanne Computation of solutions of two-point boundary value problems by a simplicial homotopy algorithm. 91j:65130
- Eich, E. *see* Bock, H. G.; et al., (91f:65004)
- Farrell, Paul A. Flow conforming iterative methods for convection dominated flows. 91g:65181
- Ferretti, Roberto (with Larroustourou, Bernard) Estimations d'erreur pour des approximations tronquées de solutions d'onde simple d'un modèle de combustion. (English summary) [Error estimates for truncated domain approximations of travelling-front solutions of a combustion model] 91a:65192
- Franca, Leopoldo P. On the superconvergence of the satisfying-Babuska-Brezzi method. 91g:65182
- Funaro, Daniele (with Heinrichs, Wilhelm) Some results about the pseudospectral approximation of one-dimensional fourth-order problems. 91m:65206
- Gartland, Eugene C., Jr. Compact high-order finite differences for interface problems in one dimension. 91a:65193
- Gavriluk, I. P. (with Grekov, L. D.) Difference schemes for a fourth-order one-dimensional equation with a nonlinear boundary condition. (Russian) 91a:65194
- Göhlen, M. (with Plum, Michael; Schröder, Johann) A programmed algorithm for existence proofs for two-point boundary value problems. (German summary) 91g:65183
- Grabarski, Adam *see* Kolodziejczyk, Janusz A., 91b:65142
- Grekov, L. D. *see* Gavriluk, I. P., 91a:65194
- Grigor'eva, E. A. *see* Bagaev, V. M., 91a:65188
- Grossmann, Christian *see* Al-Zanadi, Mansour, 91b:65094
- Heinrichs, Wilhelm *see* Funaro, Daniele, 91m:65206
- Herceg, Dragoslav (with Petrović, Nenad) A difference scheme for a singular perturbation problem. (Slovenian summary) 91c:65055
- Uniform fourth order difference scheme for a singular perturbation problem. 91f:65137
- de Hoog, F. R. (with Matthij, R. M. M.) A note on polychotomy. (German summary) 91m:65207
- Howes, F. A. An asymptotic-numerical method for a model system with turning points. 91f:65138
- Hu, Xian Cheng (with Li, Jin) An adaptive finite element method for convection-diffusion equations in one dimension. (Chinese. English summary) 91g:65184
- Ignat'ev, V. N. *see* Zadorin, A. I., 91m:65211 and 91a:65212
- Ivanova, D. I. (with Dimova-Borshukova, Stefka; Kaschiev, M. S.) Численный анализ одномерных собственных функций горения нелинейной среды. (Russian) [Numerical analysis of one-dimensional eigenfunctions of the combustion of a nonlinear medium] 91b:65096
- Jacobs, S. J. A pseudospectral method for two-point boundary value problems. 91f:65139
- Jankowski, Tadeusz Convergence of difference methods for boundary value problems of ODEs with discontinuities. 91f:65140
- One-step methods for retarded differential equations with parameters. (German summary) 91a:65195
- Multistep methods for nonlinear boundary value problems with parameters. 91d:65107
- Jódar, Lucas Boundary value problems for systems of second-order differential equations: approximations, convergence and upper error bounds. 91f:65141
- Kaschiev, M. S. *see* Ivanova, D. I.; et al., 91b:65096
- Klunnik, A. A. (with Prikazhnikov, V. G.) The projection method for discretization of problems for a fourth-order ordinary differential equation. (Russian) 91b:65097
- Kolobov, B. P. (with Molodtsov, Yu. I.) The local collocation method and construction of an adaptive grid for boundary value problems with a boundary layer. (Russian) 91b:65124
- Kolodziejczyk, Janusz A. The effect of quadrature errors on the collocation-Galerkin solution of the two-point boundary value problem. 91c:65056
- (with Grabarski, Adam) Algorithms of selected methods for solving a boundary value problem for the equation $-u'' + g(x)u = f(x)$. (Polish. English summary) 91f:65142
- Kulpinski, M. *see* Stojanović, Mirjana, 91a:65206
- Kurbanbaev, O. O. *see* Samoilenko, A. M.; et al., 91a:65204
- Kwapisz, Marian *see* Augustynowicz, A., 91j:65128
- Larroustourou, Bernard *see* Ferretti, Roberto, 91a:65192
- Lentini, M. (with März, Roswitha) The conditioning of boundary value problems in transferable differential-algebraic equations. 91b:65125
- Li, Jin *see* Hu, Xian Cheng, 91g:65184
- Lia, Ping (with Su, Yu Cheng) Numerical solution of quasilinear singularly perturbed ordinary differential equation without turning points. 91e:65098
- Lisbona, Francisco J. *see* Clavero Gracia, Carmelo, (91j:00015)
- Liseitkin, V. D. (with Petrenko, V. E.) Numerical solution of singularly perturbed problems with internal layers. (Russian) 91c:65057
- Application of special transformations for numerical solution of problems with boundary layers. 91b:65098
- Luchka, A. Yu. Application of iterative processes to boundary value problems for differential equations with parameters. (Russian. English summary) 91a:65196
- Lund, J. R. *see* Smith, Ralph C.; et al., 91d:65110
- Luning, C. D. (with Perry, W. L.) Iterative solution of negative exponent Emden-Fowler problems. 91a:65197
- Makarov, Vladimir Leonidovich On a priori estimates of difference schemes giving an account of the boundary effect. 91a:65198
- Mama, E. Yu. Application of a projection-iterative method for searching for periodic solutions of systems with impulse action. (Russian) 91a:65199
- März, Roswitha *see* Lentini, M., 91b:65125
- Matthij, R. M. M. *see* de Hoog, F. R., 91m:65207
- Milushcheva, S. D. *see* Baimov, D. D., 91b:65095
- Molodtsov, Yu. I. *see* Kolobov, B. P., 91b:65124
- Petryra, V. *see* Wright, Stephen Joseph, 91a:65208
- Perry, W. L. *see* Luning, C. D., 91a:65197
- Petrachev, Dorina On some second-order nonlinear boundary value problems. (see 91k:00030)
- Petrenko, V. E. *see* Liseitkin, V. D., 91c:65057
- Petrović, Nenad *see* Herceg, Dragoslav, 91c:65055
- Plum, Michael *see* Göhlen, M.; et al., 91f:65183
- Prikazhnikov, V. G. (with Allanazarov, Zh. P.) Refinement of solutions in a discrete spectral problem. (Russian) 91a:65200
- *see also* Klunnik, A. A., 91b:65097
- Quartapelle, Luigi (with Rebay, S.) Numerical solution of two-point boundary value problems. 91a:65201
- Raptis, A. D. *see* Simos, T. E., 91j:65131
- Rebay, S. *see* Quartapelle, Luigi, 91a:65201
- Reddy, Y. N. Numerical techniques for a class of singular perturbation problems. 91a:65202
- A numerical integration method for solving singular perturbation problems. 91f:65143
- Rogina, Mladen Collocation by Tchebycheffian splines of order 3. (Slovenian summary) 91a:65203
- Ronto, N. I. *see* Samoilenko, A. M.; et al., 91a:65204 and 91m:65208
- Ross, H.-G. Global uniformly convergent schemes for a singularly perturbed boundary-value problem using patched base spline-functions. 91d:65108
- Russo, E. *see* Crisci, M. R.; et al., 91d:65106
- Sakai, Manabu (with Usmani, Riaz A.) An application of Chawla's identity to a different scheme for singular problems. 91g:65185
- Samoilenko, A. M. (with Ronto, N. I.; Kurbanbaev, O. O.) The collocation method for boundary value problems of ordinary differential equations with impulse action. (Russian) 91a:65204
- (with Ronto, N. I.) Modification of the numerical-analytic method of successive approximations for boundary value problems of ordinary differential equations. 91m:65208
- Schild, K.-H. *see* Bai, Yin, 91j:65129
- Schlöder, J. P. *see* Bock, H. G.; et al., (91f:65004)
- Schmitt, Bernhard A. An algebraic approximation for the matrix exponential in singularly perturbed boundary value problems. 91d:65109
- Schröder, Johann A method for producing verified results for two-point boundary value problems. (German summary) 91a:65205
- *see also* Göhlen, M.; et al., 91f:65183
- Shaw, R. E. A modified shooting method for second order boundary-value problems. 91f:65135
- Sheikholeslami, M. Z. *see* Chen, C.-J.; et al., 91a:65189
- Simos, T. E. (with Raptis, A. D.) Numerov-type methods with minimal phase-lag for the numerical integration of the one-dimensional Schrödinger equation. (German summary) 91j:65131
- A four-step method for the numerical solution of the Schrödinger equation. 91f:65136
- Sklyar, S. N. (with Bakirov, Zh. Zh.) Some problems in the approximation of singularly perturbed boundary value problems. (Russian) 91e:65099
- Discretization of problems with a boundary layer by means of a projection variant of the method of integral identities. II. A nonselfadjoint equation, the third boundary value problem. (Russian) 91k:65125
- Discretization of problems with a boundary layer by means of a projection variant of the method of integral identities. III. A selfadjoint equation. (Russian) 91k:65126
- Smith, Ralph C. (with Bowers, Kenneth L.; Lund, J. R.) Efficient numerical solution of fourth-order problems in the modeling of flexible structures. 91d:65110
- Stojanović, Mirjana Adaptive spline difference scheme for a nonselfadjoint problem with mixed boundary conditions. (Slovenian summary) 91b:65099
- (with Kulpinski, M.) A quadratic spline collocation method for singular two-point boundary value problems. (Serbo-Croatian summary) 91a:65206
- Numerical solution of a singularly perturbed problem via exponential splines. 91d:65111
- Su, Yu Cheng *see* Lia, Ping, 91e:65098
- Surla, Katarina (with Uzelac, Zorica) Some uniformly convergent spline difference schemes for singularly perturbed boundary value problems. 91b:65137
- *see also* Uzelac, Zorica, 91g:65186
- Szafraniec, Krystyna A difference method for a system of second order ordinary differential equations. 91e:65100
- Tirmizi, Ikram A. On numerical solution of third-order boundary-value problems. (Not in MR)
- Trofimchuk, E. P. An integral operator of a numerical-analytic method. (Russian)

- 91a:65207
- Twizell, E. H. (with Boutayeb, A.) Numerical methods for the solution of special and general sixth-order boundary value problems, with applications to Bénard layer eigenvalue problems. 91m:65209
- Usmani, Riaz A. see Sakai, Manabu, 91g:65185
- Uzelac, Zorica (with Surla, Katarina) Families of quadratic and cubic spline difference schemes. 91g:65186
- see also Surla, Katarina, 91h:65137
- Vecchio, A. see Crisci, M. R.; et al., 91d:65106
- Vulanović, Relja A second order uniform numerical method for a turning point problem. (Serbo-Croatian summary) 91e:65101
- A switching scheme for quasilinear problems without turning points. (Serbo-Croatian summary) (see 91m:60027)
- Some improvements of the nonequidistant Engquist-Osher scheme. 91h:65138
- Continuous and numerical analysis of a boundary shock problem. 91d:65112
- On numerical solution of a mildly nonlinear turning point problem. (French summary) 91m:65210
- Wang, Guo Ying (with Chen, Ming Lun) Second-order accurate difference method for the singularly perturbed problem of fourth-order ordinary differential equations. 91h:65140
- A second-order accurate difference method for a singularly perturbed problem with a turning point. 91h:65139
- Womble, David E. A front-tracking method for multiphase free boundary problems. 91h:65100
- Wright, Margaret H. see Cash, J. R., 91h:65134 and (91e:60029)
- Wright, Stephen Joseph (with Pereyra, V.) Adaptation of a two-point boundary value problem solver to a vector-multiprocessor environment. 91a:65208
- Yakimov, I. V. see Cherevko, I. M., 91a:65190
- Zadorin, A. I. (with Ignat'ev, V. N.) A difference scheme for a second-order nonlinear singularly perturbed equation. (Russian) 91m:65211
- (with Ignat'ev, V. N.) Numerical solution of a second-order quasilinear singularly perturbed equation. (Russian) 91m:65212
- Zhang, De Tong On the globally convergent shooting method for two-point boundary value problems. 91e:65102
- Zhang, Li Qing Asymptotic expansion and geometric properties of the spline collocation periodic solution of an ODE system. 91h:65127
- Zhang, Suo Chun (with Auchmuty, Giles) Variational principles and numerical methods for periodic solutions to autonomous ordinary differential equations. 91a:65209
- Zhanlar, T. A three-point spline scheme of increased accuracy. (Russian) 91m:65213
- Zhu, J. Z. (with Zienkiewicz, O. C.) Superconvergence recovery technique and a posteriori error estimators. 91h:65141
- Zienkiewicz, O. C. see Zhu, J. Z., 91h:65141
- Items with secondary classifications in 65L10
- Agarwal, Ravi Prakash (with Nanda, Tara R.) Two new algorithms for discrete boundary value problems. 91f:65213
- Bruschi, M. (with Campos, R. G.; Pace, E.) On a method for computing eigenvalues and eigenfunctions of linear differential operators. (Italian and Russian summaries) 91d:65113
- Cabada, Alberto (with Nieto, Juan J.) Extremal solutions of second order nonlinear periodic boundary value problems. 91j:34032
- Campos, R. G. see Bruschi, M.; et al., 91d:65113
- Chen, Y.-Y. see Wang, Ch'ing An; et al., 91c:76111
- Ch'en, Yü I see Wang, Ch'ing An, 91f:76021
- Cherenkova, A. A. see Esipov, V. M., 91f:34025
- Di Lena, Giovanni (with Trigiante, Donato) Stability and spectral properties of incomplete factorization. 91d:65049
- Esipov, V. M. (with Cherenkova, A. A.) A method for solving a nonlinear boundary value problem for ordinary differential equations. 91f:34025
- Funaro, Daniele Computational aspects of pseudospectral Laguerre approximations. 91m:65074
- Gasparo, M. G. (with Macconi, M.) Initial-value methods for second-order singularly perturbed boundary-value problems. (Not in MR)
- Guenther, Ronald B. (with Lee, John W.) Convergence of the Newton-Raphson method for boundary value problems of ordinary differential equations. 91j:34033
- Hermann, Martin Shooting algorithms for two-point BVPs. (see 91f:65004)
- Hwang, T.-W. see Wang, Ch'ing An; et al., 91c:76111
- Jankowski, Tadeusz One-step methods for ordinary differential equations with parameters. (Czech summary) 91e:65103
- Kloeden, Peter E. (with Lorenz, Jens) Lyapunov stability and attractors under discretization. 91a:65187
- Kozlov, Vladimir Arkad'evich (with Maz'ya, V. G.) Iterative procedures for solving ill-posed boundary value problems that preserve the differential equations. 91h:65110
- Lakshmikantham, V. (with Sun, Yong) Applications of interval analysis to minimal and maximal solutions of differential equations. 91m:65132
- Larsen, Edward W. (with Morel, Jim Emanuel) Corrigendum: "Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. II" [J. Comput. Phys. 83 (1989), no. 1, 212-236; MR 90h:82001]. 91j:82002
- Lee, John W. see Guenther, Ronald B., 91j:34033
- Leyk, Zbigniew The H^{-1} -collocation method with quadratures for solving boundary value problems for ordinary differential equations. (Polish. English summary) 91d:65119
- Lorenz, Jens see Kloeden, Peter E., 91a:65187
- Lak'yanova, R. G. The applied program package NEWST for solving nonlinear boundary value problems for systems of second-order ordinary differential equations with a parameter. (Russian) (Not in MR)
- Macconi, M. see Gasparo, M. G., (Not in MR)
- Maz'ya, V. G. see Kozlov, Vladimir Arkad'evich, 91h:65110
- Morel, Jim Emanuel see Larsen, Edward W., 91j:82002
- Moret, Igor (with Omari, Pierpaolo) A projective Newton method for semilinear operator equations in Banach spaces. 91h:65107
- Nanda, Tara R. see Agarwal, Ravi Prakash, 91f:65213

- Nieto, Juan J. see Cabada, Alberto, 91j:34032
- Omari, Pierpaolo see Moret, Igor, 91h:65107
- Pace, E. see Bruschi, M.; et al., 91d:65113
- Rodrigues, Maria João see da Silva, Manuel R., 91c:41044
- Ronto, N. I. (with Ronto, V. A.) A method for studying boundary value problems with parameters. (Russian) 91h:34032
- Ronto, V. A. see Ronto, N. I., 91h:34032
- Schild, K.-H. Gaussian collocation via defect correction. 91m:65224
- da Silva, Manuel R. (with Rodrigues, Maria João) A simple alternative principle for rational t -method approximation. 91c:41044
- Stajano, Mirjana A posteriori improvement of adaptive spline function approximation. 91f:41014
- Sun, Guang Fu Uniformly higher order accurate extrapolations to solutions of uniformly convergent discretization methods for singularly perturbed problems. 91j:34021
- Sun, Yong see Lakshmikantham, V., 91m:65132
- Surla, Katarina A collocation by spline in tension. 91h:65144
- Trigiante, Donato see Di Lena, Giovanni, 91d:65049
- Wang, Ch'ing An (with Ch'en, Yü I) Existence and classification of similarity solutions for floating disks and rectangular slots. 91f:76021
- (with Hwang, T.-W.; Chen, Y.-Y.) Existence of solutions for Berman's equation from laminar flows in a porous channel with suction. 91c:76111
- Windisch, Günther $\star M$ -matrices in numerical analysis. 91h:65042
- Zadorin, A. I. A difference scheme for a selfadjoint singularly perturbed third boundary value problem. (Russian) 91h:34022

65L12 Finite difference methods

- Maeda, Shigeru Application of numerical schemes admitting symmetries. 91m:65214
- San, Xiao Di An arbitrary order difference scheme for numerical solutions to singularly perturbed problems of ordinary differential equations. (Chinese. English summary) 91m:65215
- Items with secondary classifications in 65L12
- Mickens, Ronald E. Novel explicit finite-difference schemes for time-dependent Schrödinger equations. 91m:81009
- Vulanović, Relja On numerical solution of a mildly nonlinear turning point problem. (French summary) 91m:65210

65L15 Eigenvalue problems

- Brown, B. Malcolm (with Kirby, V. G.; Pryce, J. D.) Numerical determination of the Titchmarsh-Weyl m -coefficient and its applications to HELP inequalities. 91a:65210
- Bruschi, M. (with Campos, R. G.; Pace, E.) On a method for computing eigenvalues and eigenfunctions of linear differential operators. (Italian and Russian summaries) 91d:65113
- Campos, R. G. (with Muñoz B., R.) On certain numerical technique to solve Sturm-Liouville systems. I. (Spanish summary) 91d:65114
- see also Bruschi, M.; et al., 91d:65113
- Fearn, David R. Eigensolutions of boundary value problems using inverse iteration. (Not in MR)
- Gulin, A. V. (with Kregzhde, A. V.; Yakovleva, S. A.) Numerical solution of a quadratic eigenvalue problem. (Russian) 91g:65187
- Jankowski, Tadeusz One-step methods for ordinary differential equations with parameters. (Czech summary) 91e:65103
- Kirby, V. G. see Brown, B. Malcolm; et al., 91a:65210
- Kregzhde, A. V. see Gulin, A. V.; et al., 91g:65187
- Liem, Chin Bo see Shih, Tsi Min; et al., 91m:65216
- Lü, Tao see Shih, Tsi Min; et al., 91m:65216
- Marti, Jörg T. Small potential corrections for the discrete eigenvalues of the Sturm-Liouville problem. 91d:65115
- Muñoz B., R. see Campos, R. G., 91d:65114
- Pace, E. see Bruschi, M.; et al., 91d:65113
- Plum, Michael Eigenvalue inclusions for second-order ordinary differential operators by a numerical homotopy method. 91d:65116
- Pryce, J. D. see Brown, B. Malcolm; et al., 91a:65210
- Shih, Tsi Min (with Liem, Chin Bo; Lü, Tao) A fourth order method for the Sturm-Liouville eigenproblem. 91m:65216
- Yakovleva, S. A. see Gulin, A. V.; et al., 91g:65187
- Zhang, Suo Chun A numerical computation method for eigenvalues and eigenvectors of systems of nonlinear ordinary differential equations. 91a:65211
- Zimoch, R. Z. On the construction of physical systems from spectral data. 91f:65144

Items with secondary classifications in 65L15

- Ahués, Mario A note on finite element error bounds for multiple defective eigenvalues and maximal invariant subspaces. 91m:65220
- (Albrecht, J.) see Numerical treatment of eigenvalue problems, 91m:65005
- Barnes, David C. The inverse eigenvalue problem with finite data. 91h:34016
- (Collatz, Lother) see Numerical treatment of eigenvalue problems, 91m:65005
- Derville, M. O. see Francken, P.; et al., 91j:65096
- Fischer, Thomas Manfred A Galerkin approximation for linear eigenvalue problems in two- and three-dimensional boundary-layer flows. 91m:76083
- Francken, P. (with Derville, M. O.; Mund, E. H.) On the spectrum of the iteration operator associated to the finite element preconditioning of Chebyshev collocation calculations. 91j:65096
- (Hagedorn, P.) see Numerical treatment of eigenvalue problems, 91m:65005
- Jarratt, Mary Eigenvalue approximations on the entire real line. 91d:34026
- Litvinova, S. P. (with Rodionov, I. D.; Solomatina, E. B.) The parameter evolution method in spectral problems of mathematical physics. (Russian) 91h:65106
- Mund, E. H. see Francken, P.; et al., 91j:65096

- Nikiforovskii, S. V. (with Sorokin, S. B.) A method for obtaining two-sided approximations for eigenvalues. (Russian) (see 91k:65007)
 Rodionov, I. D. see Litvinseva, S. P.; et al., 91k:65106
 Solomatina, E. B. see Litvinseva, S. P.; et al., 91k:65106
 Sorokin, S. B. see Nikiforovskii, S. V. (91k:65007)
 (Vette, Waldemar) see Numerical treatment of eigenvalue problems, 91m:65005

Items listed otherwise than by author

Numerical treatment of eigenvalue problems ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005

Oberwolfach ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005

Workshop:

Eigenvalue Problems in the Natural and Engineering Sciences and their Numerical Treatment ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005

65L20 Stability of numerical methods

- Andersen, Per Ulfkjaer see Skelboe, Stig, 91b:65102
 Bakke, N. Yu. Stability of a class of difference schemes. (Russian) (see 91c:34070)
 — Estimates for the stability of a general discretization method. (Russian) 91c:65104
 — On the theory of coercive stability of two-layer difference schemes. (Russian) 91b:65188
 Burrage, Kevin A study of the stability of a general class of differential equation methods. 91c:65145
 Calvo Pinilla, Manuel (with Lizbona, F.; Montijano, J. I.) On the stability of interpolatory variable-stepsize Adams methods in Nordsieck form. 91g:65189
 Claus, Hermann see Strehmel, Karl; et al., 91b:65103
 Dong, Guo Xiong see Zhao, Shuang Suo; et al., 91d:65118
 Goel, Rakesh see Jain, Rajinder Kumar; et al., 91b:65101
 Isenles, Arieh Dynamical systems and nonlinear stability theory for numerical O.D.E.'s. (see 91f:65004)
 — Stability and dynamics of numerical methods for nonlinear ordinary differential equations. 91c:65105
 Jackiewicz, Zdzisław One-step methods for neutral delay-differential equations with state dependent delays. 91b:65142
 Jain, Rajinder Kumar (with Kumar, Rajive²; Goel, Rakesh) Superstable implicit Runge-Kutta methods for second order initial value problems. 91b:65101
 Jasielewicz, A. (with Tewarson, R. P.) A stability criterion for explicit boundary value Runge-Kutta methods. 91a:65212
 Kolbe, V. G. A method for increasing the stability of the numerical solution of differential equation systems. 91b:65146
 Kumar, Rajive² see Jain, Rajinder Kumar; et al., 91b:65101
 Lemerink, H. W. J. (with Spijker, M. N.) On the use of stability regions in the numerical analysis of initial value problems. 91m:65217
 Li, Shou Fu (with Ruan, Bao Geng) Nonlinear stability of multistep multidervative methods. 91d:65117
 Liu, Ming Zhu (with Spijker, M. N.) The stability of the θ -methods in the numerical solution of delay differential equations. 91c:65106
 Lizbona, F. see Calvo Pinilla, Manuel; et al., 91b:65189
 Montijano, J. I. see Calvo Pinilla, Manuel; et al., 91b:65189
 Müller, Michael Wolfgang (with Scherer, Rudolf) A note on the algebraic stability of Runge-Kutta methods. 91j:65132
 de Oliveira, Paula On a class of multistep methods with strong contractivity properties. 91g:65190
 Qiao, Ning see Zhao, Shuang Suo; et al., 91d:65118
 Ruan, Bao Geng see Li, Shou Fu, 91d:65117
 Scherer, Rudolf see Müller, Michael Wolfgang, 91j:65132
 Skelboe, Stig (with Andersen, Per Ulfkjaer) Stability properties of backward Euler multirate formulas. 91b:65102
 Spijker, M. N. see Liu, Ming Zhu, 91c:65106 and Lemerink, H. W. J., 91m:65217
 Strehmel, Karl (with Weiner, Rüdiger; Claus, Hermann) Stability analysis of linearly implicit one-step interpolation methods for stiff retarded differential equations. 91b:65103
 Tewarson, R. P. see Jasielewicz, A., 91a:65212
 Weiner, Rüdiger see Strehmel, Karl; et al., 91b:65103
 Zhao, Shuang Suo (with Dong, Guo Xiong; Qiao, Ning) On S-stability. 91d:65118

Items with secondary classifications in 65L20

- Alexander, Roger K. (with Coyle, James J.) Runge-Kutta methods and differential-algebraic systems. 91d:65095
 Baiocchi, Claudio Stability in linear abstract differential equations. 91a:34041
 Coyle, James J. see Alexander, Roger K., 91d:65095
 Dekker, K. (with Kraaijevanger, J. F. B. M.; Schneid, Josef) On the relation between algebraic stability and B -convergence for Runge-Kutta methods. 91j:65125a
 — (with Kraaijevanger, J. F. B. M.; Schneid, Josef) Erratum: "On the relation between algebraic stability and B -convergence for Runge-Kutta methods". 91j:65125b
 Durakova, V. K. (with Novikov, Vyacheslav Aleksandrovich; Novikov, E. A.) Construction of explicit methods of the first order of accuracy with a given size of the stability interval. (Russian) (see 91j:00011)
 Galdini, A. Stability problems of discretization methods. (see 91b:00051)
 Gladwell, I. (with Thomas, Ruth Margaret) Efficiency of methods for second-order problems. 91g:65175
 Hundsdoerfer, Willem H. see Verwer, J. G.; et al., 91d:65102
 Ignat'ev, V. N. see Zadorin, A. I., 91m:65211
 Klaus, H. (with Strehmel, Karl) Stability of Runge-Kutta interpolation methods for differential equations with a retarded argument. (Russian) (see 91f:65003)
 Kraaijevanger, J. F. B. M. see Dekker, K.; et al., 91j:65125a and 91j:65125b
 Lemerink, H. W. J. Contractivity-preserving implicit linear multistep methods. 91b:65129
 Novikov, E. A. see Durakova, V. K.; et al., (91j:00011)
 Novikov, Vyacheslav Aleksandrovich see Durakova, V. K.; et al., (91j:00011)

- Owren, Brynjulf (with Seip, Kristian) Some stability results for explicit Runge-Kutta methods. 91m:65203
 Schmitt, Bernhard A. An algebraic approximation for the matrix exponential in singularly perturbed boundary value problems. 91d:65109
 Schneid, Josef see Dekker, K.; et al., 91j:65125a and 91j:65125b
 Seip, Kristian see Owren, Brynjulf, 91m:65203
 Sommeijer, B. P. see Verwer, J. G.; et al., 91d:65102
 Strehmel, Karl see Klaus, H., (91f:65003)
 Thomas, Ruth Margaret see Gladwell, I., 91g:65175
 Verwer, J. G. (with Hundsdoerfer, Willem H.; Sommeijer, B. P.) Convergence properties of the Runge-Kutta-Chebyshev method. 91d:65102
 Wu, Hong Wei see Wu, Xin Yuan, 91j:65126
 Wu, Xin Yuan (with Wu, Hong Wei) A set of k -step, order $k+1$ linear multistep formulas for solving initial value problems for ordinary differential equations, and their stiff stability. (Chinese. English summary) 91j:65126
 Zadorin, A. I. (with Ignat'ev, V. N.) A difference scheme for a second-order nonlinear singularly perturbed equation. (Russian) 91m:65211

65L50 Mesh generation and refinement

- Ahmed, A. H.-A. see Wright, Ken; et al., 91m:65219
 Selesman, A. H. see Wright, Ken; et al., 91m:65219
 Scheprov, A. V. A method for the adaptation of grids. (Russian) 91j:65133
 Ushakova, O. V. An existence and uniqueness theorem for the solution of a boundary value problem for constructing one-dimensional optimal adaptive grids. (Russian) 91m:65218
 Wright, Ken (with Ahmed, A. H.-A.; Selesman, A. H.) Mesh selection in collocation for boundary value problems. 91m:65219

Items with secondary classifications in 65L50

- Al-Zanaidi, Mansour (with Grossmann, Christian) 1D-grid generation by monotone iteration discretization. (German summary) 91b:65094
 Grossmann, Christian see Al-Zanaidi, Mansour, 91b:65094

65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods

- Ahués, Mario A note on finite element error bounds for multiple defective eigenvalues and maximal invariant subspaces. 91m:65220
 Andersen, Carl M. see Geer, James F., 91g:65191
 Bistov, I. A. (with Strygin, V. V.) Convergence of the spline-collocation method for singularly perturbed boundary value problems on locally uniform grids. 91b:65126
 Bowers, Kenneth L. see Jarratt, Mary; et al., 91f:65147
 Caussignac, Philippe (with Zimmermann, Bruno; Ferro, Robert) Finite element approximation of electrostatic potential in one-dimensional multilayer structures with quantized electronic charge. (German summary) 91m:65221
 Choi, U Jin (with Kwak, Do Young) Almost sure convergence of a finite element approximations for the random Sturm-Liouville boundary value problem. 91c:65058
 Ferro, Robert see Caussignac, Philippe; et al., 91m:65221
 Fitzsimons, Conor J. A class of finite-element methods for singularly perturbed second-order differential equations. 91m:65222
 Gasyanova, S. G. The collocation method for a differential equation with a discontinuous coefficient. (Russian. English and Azerbaijani summaries) 91m:65223
 Geer, James F. (with Andersen, Carl M.) A hybrid perturbation-Galerkin technique that combines multiple expansions. 91g:65191
 Hayashi, Daigoro Solution of differential equation by means of finite element method. 91c:65213
 Hayek Calil, Nécere see Pérez-Acosta, Francisco, (91j:00015)
 Jarratt, Mary (with Lund, J. R.; Bowers, Kenneth L.) Galerkin schemes and the sinc-Galerkin method for singular Sturm-Liouville problems. 91f:65147
 Jerković, Vladimir see Saris, Katarina, (91m:00027)
 Kirichenko, V. F. see Zhelezovskaya, L. A.; et al., 91c:65108
 Krysko, V. A. see Zhelezovskaya, L. A.; et al., 91c:65108
 Kwak, Do Young see Choi, U Jin, 91c:65058
 Leyk, Zbigniew The H^{-1} -collocation method with quadratures for solving boundary value problems for ordinary differential equations. (Polish. English summary) 91d:65119
 Lie, Ivar Local error estimation for multistep collocation methods. 91d:65120
 — The stability function for multistep collocation methods. 91g:65192
 Lopez, Luciano One-step collocation methods for differential-algebraic systems of index 1. 91c:65107
 Lund, J. R. see Jarratt, Mary; et al., 91f:65147
 Narmuratov, Ch. B. (with Podgaev, A. G.) Convergence of the projection-difference Galerkin method. (Russian) 91g:65193
 O'Riordan, Eugene see Stynes, Martin, 91m:65225
 Pérez-Acosta, Francisco (with Hayek Calil, Nécere) Orthogonal rational collocation in linear boundary value problems. (Spanish. English summary) (see 91j:00015)
 Podgaev, A. G. see Narmuratov, Ch. B., 91g:65193
 Schild, K.-H. Gaussian collocation via defect correction. 91m:65224
 Shao, Jian Ping A symmetric domain decomposition method based on the symmetrization principle. (Chinese. English summary) 91f:65143
 Strygin, V. V. see Bistov, I. A., 91b:65126
 Stynes, Martin (with O'Riordan, Eugene) An analysis of a singularly perturbed two-point boundary value problem using only finite element techniques. 91m:65225
 Saris, Katarina (with Jerković, Vladimir) On collocations with cubic and quadratic splines. (Serbo-Croatian summary) (see 91m:00027)
 — A collocation by spline in tension. 91f:65144
 Tym, Witold Application de la méthode des éléments finis à un problème initial pour l'équation différentielle avec "mémoire". [Application of the finite-element method to an initial value problem for a differential equation with "memory"] 91d:65121
 Zhelezovskaya, L. A. (with Zhelezovskii, S. E.; Kirichenko, V. F.; Krysko, V. A.) The rate of convergence of the Bubnov-Galerkin method for hyperbolic equations. 91c:65108

Zhelezovskii, S. E. *see* Zhelezovskaya, L. A.; et al., 91e:65108
 Zimmermann, Bruno *see* Caussignac, Philippe; et al., 91m:65221

Items with secondary classifications in 65L60

- Ahmed, A. H.-A. *see* Wright, Ken; et al., 91m:65219
 Al-Zanaidi, Mansour (with Grossmann, Christian) 1D-grid generation by monotone iteration discretization. (German summary) 91b:65094
 Bai, Yin (with Schild, K.-H.) A collocation method for boundary value problems of differential-algebraic equations. 91j:65129
 Fischer, Thomas Manfred A Galerkin approximation for linear eigenvalue problems in two- and three-dimensional boundary-layer flows. 91m:76083
 Franca, Leopoldo P. On the superconvergence of the satisfying-Babuška-Brezzi method. 91g:65182
 Gottlieb, David (with Hirsh, Richard S.) Parallel pseudospectral domain decomposition techniques. 91f:65192
 Grossmann, Christian *see* Al-Zanaidi, Mansour, 91b:65094
 Hirsh, Richard S. *see* Gottlieb, David, 91f:65192
 Kolodziejczyk, Janusz A. The effect of quadrature errors on the collocation-Galerkin solution of the two-point boundary value problem. 91c:65056
 Lu, H.-L. *see* Steppeler, J.; et al., 91d:86004
 Mikhailin, S. G. Errors in the approximation of quadrature formulas connected with the finite element method. 91f:65053
 Navon, I. M. *see* Steppeler, J.; et al., 91d:86004
 Rogina, Mladen Collocation by Techebycheffian splines of order 3. (Slovenian summary) 91a:65203
 Ronto, N. I. *see* Samoilenko, A. M., 91m:65208
 Rosen, I. G. Convergence of Galerkin approximations for operator Riccati equations—a nonlinear evolution equation approach. 91m:65169
 Samoilenko, A. M. (with Ronto, N. I.) Modification of the numerical-analytic method of successive approximations for boundary value problems of ordinary differential equations. 91m:65208
 Schild, K.-H. *see* Bai, Yin, 91j:65129
 Seelman, A. H. *see* Wright, Ken; et al., 91m:65219
 Steppeler, J. (with Navon, I. M.; Lu, H.-L.) Finite-element schemes for extended integrations of atmospheric models. 91d:86004
 Wright, Ken (with Ahmed, A. H.-A.; Seelman, A. H.) Mesh selection in collocation for boundary value problems. 91m:65219
 Zarubin, A. G. On the rate of convergence of the Faedo-Galerkin method for quasilinear nonstationary operator equations. 91j:34100

65L70 Error bounds

- Auzinger, Winfried (with Frank, Reinhard M.; Macsek, Franz) On asymptotic expansions of the discretization error for stiff equations. (see 91f:65004)
 Frank, Reinhard M. *see* Auzinger, Winfried; et al., (91f:65004)
 Macsek, Franz *see* Auzinger, Winfried; et al., (91f:65004)
 Rama Rao, Kondapalli *see* Rios Neto, Atair, 91j:65145
 Rios Neto, Atair (with Rama Rao, Kondapalli) A stochastic approach to global error estimation in ODE multistep numerical integration. 91f:65145

Items with secondary classifications in 65L70

- Ahués, Mario A note on finite element error bounds for multiple defective eigenvalues and maximal invariant subspaces. 91m:65220
 Auzinger, Winfried (with Frank, Reinhard M.) Asymptotic error expansions for stiff equations: an analysis for the implicit midpoint and trapezoidal rules in the strongly stiff case. 91k:65122
 — (with Frank, Reinhard M.; Macsek, Franz) Asymptotic error expansions for stiff equations: the implicit Euler scheme. 91k:65123
 Frank, Reinhard M. *see* Auzinger, Winfried, 91k:65122 and 91k:65123
 Macsek, Franz *see* Auzinger, Winfried; et al., 91k:65123
 Valková, Anna Remarks to the error estimations of the Runge-Kutta methods. (Not in MR)

65L99 None of the above, but in this section

- Abramov, S. A. Problems in computer algebra that are connected with a search for polynomial solutions of linear differential and difference equations. 91e:65109
 Acacia, P. *see* Holubec, A.; et al., 91f:65149
 Adams, Bernhard W. (with Adams, Ernst Wilhelm; Spreuer, H.) Practical stability and stochastic point processes. 91j:65135
 Adams, Ernst Wilhelm Enclosure methods and scientific computation. 91j:65134
 — *see also* Adams, Bernhard W.; et al., 91j:65135
 Adeniyi, R. B. (with Onumanyi, P.) Error estimation in the numerical solution of ODE with the tau method. (Not in MR)
 Adomian, George A. *see* Rach, R. (Not in MR)
 Alvarez, L. M. (with Ditkin, V. V.) Numerical solution of the Orr-Sommerfeld equation. (Russian) 91h:65127
 Barkatou, M. A. Rational Newton algorithm for computing formal solutions of linear differential equations. 91a:65214
 Beyn, W.-J. The numerical computation of connecting orbits in dynamical systems. 91b:65146
 Boyarintsev, Yu. E. (with Danilov, V. A.; Loginov, A. A.; Chistyakov, V. F.) * Численные методы решения сингулярных систем. (Russian) [Numerical methods for solving singular systems] 91b:65104
 Bronstein, Manuel The transcendental Risch differential equation. 91d:65122
 Bulatov, M. V. *see* Boyarintsev, Yu. E.; et al., 91b:65104
 Büntig, E. *see* Philippow, E.; et al., (Not in MR)
 Campbell, Bonita J. *see* Holtz, Howard, 91d:65123
 Chistyakov, V. F. *see* Boyarintsev, Yu. E.; et al., 91b:65104
 Chu, Jing Yun (with Zhang, Wei Yi) The improved method of regional analysis in solving differential equations of nonlinear vibration. (Chinese. English summary) 91f:65147
 Class, Hermann SIRK-methods for stiff retarded differential equations. (see 91f:65004)
 Danilov, V. A. *see* Boyarintsev, Yu. E.; et al., 91b:65104
 Ditkin, V. V. *see* Alvarez, L. M., 91h:65127
 Dontchev, A. L. (with Farkhi, E. M.) An averaged modulus of continuity for multivalued maps and its applications to differential inclusions. 91g:65194
 Ershov, S. V. Numerical analysis of chaotic regimes. (Russian) (see 91a:00023)
 Farkhi, L. D. *see* Zadornov, O. A., (Not in MR)
 Farkhi, E. M. *see* Dontchev, A. L., 91g:65194
 Fox, Ronald F. Second-order algorithm for the numerical integration of colored-noise problems. 91m:65226
 Freire Macías, Emilio (with Gamero, Estanislao; Ponce, Enrique) Symbolic computation and bifurcation methods. 91f:65148
 — *see also* Rodríguez-Luis, Alejandro J.; et al., 91j:65139
 Gamero, Estanislao *see* Freire Macías, Emilio; et al., 91f:65148
 García-Archilla, Bosco Supraconvergence for the third derivative: some results on antisymmetric difference operators. (Spanish) (see 91j:00015)
 Geist, Karlheinz (with Parltz, Ulrich; Lauterborn, Werner) Comparison of different methods for computing Lyapunov exponents. 91j:65136
 Gritsa, T. M. *see* Pritula, N. N., (Not in MR)
 Holtz, Howard (with Campbell, Bonita J.) An approach to solving linear constant coefficient difference and differential equations. 91d:65123
 Holubec, A. (with Stauffer, A. D.; Acacia, P.; Stauffer, J. A.) Asymptotic shooting method for the solution of differential equations. 91f:65149
 Kalaba, Robert (with Teflaton, L.) Nonlocal automated sensitivity analysis. 91f:65148
 Kang, In Seok *see* Lee, Hyuk, 91f:65150
 Katayama, Noriaki (with Mizukami, Kouzou) On the numerical analysis of conservative dynamical systems. (Japanese. English summary) 91b:65105
 Kitajima, T. Numerical solution of coupled Riccati equation via block-pulse functions. (see 91c:00029)
 Kobayashi, Yasuhiro¹ *see* Ohkita, Masaaki, (91c:00029)
 Krasovskii, A. A. A method of fast numerical integration for one class of dynamical systems. 91f:65137
 Kuleshova, I. F. (with Monastyrnyi, P. I.) A variant of the differential orthogonal sweep method for problems with a boundary layer. (Russian) (Not in MR)
 Kuznetsov, S. V. (with Sakhanenko, A. I.) Reconstruction of the integral curve of a system of linear differential equations from the measurement results. (Russian) 91d:65124
 Kuznetsov, Yuri Aleksandrovich Computation of invariant manifold bifurcations. 91f:65138
 Lauterborn, Werner *see* Geist, Karlheinz; et al., 91j:65136
 Lee, Hyuk (with Kang, In Seok) Neural algorithm for solving differential equations. 91f:65150
 Loginov, A. A. *see* Boyarintsev, Yu. E.; et al., 91b:65104
 Makarov, Vladimir Leonidovich *see* Samarskii, A. A., 91b:65128
 März, Roswitha Recent results on higher-index differential-algebraic equations. (see 91f:65004)
 Men'shikov, G. G. Accuracy of an analogue calculation of a moving average by integration of a second-order linear equation. (Russian) (see 91k:00019)
 Mironov, S. V. A reduction method for detecting hidden periodicities. (Russian) (see 91k:00023)
 Mizukami, Kouzou *see* Katayama, Noriaki, 91b:65105
 Monastyrnyi, P. I. *see* Kuleshova, I. F., (Not in MR)
 Ohkita, Masaaki (with Kobayashi, Yasuhiro¹) Solution of time-varying linear delay systems by rationalized Haar functions. (see 91c:00029)
 Onumanyi, P. *see* Adeniyi, R. B., (Not in MR)
 Parltz, Ulrich *see* Geist, Karlheinz; et al., 91j:65136
 Petzold, Linda R. Recent developments in the numerical solution of differential/algebraic systems. 91a:65215
 Philippow, E. (with Büntig, E.; Vogt, Werner) Ein numerisches Transformationsverfahren für Relaxationsschwingungen. [A numerical transformation method for relaxation vibrations] (Not in MR)
 Ponce, Enrique *see* Freire Macías, Emilio; et al., 91f:65148 and Rodríguez-Luis, Alejandro J.; et al., 91j:65139
 Pritula, N. N. (with Gritsa, T. M.) Numerical solution of a stochastic differential equation with impulse action. (Ukrainian. Russian summary) (Not in MR)
 Rach, R. (with Adomian, George A.) Multiple decompositions for computational convenience. (Not in MR)
 Rentrop, Peter (with Steinebach, Gerd) The numerical solution of implicit ordinary differential equations arising in vehicle dynamic. (see 91f:65004)
 Rodríguez-Luis, Alejandro J. (with Freire Macías, Emilio; Ponce, Enrique) A method for homoclinic and heteroclinic continuation in two and three dimensions. 91j:65139
 Rouff, Marc (with Zhang, Wen Li) An application of REDUCE: the elimination process for bilinear or linear systems. (Not in MR)
 Sakhanenko, A. I. *see* Kuznetsov, S. V., 91d:65124
 Samarskii, A. A. (with Makarov, Vladimir Leonidovich) Realization of exact three-point difference schemes for second-order ordinary differential equations with piecewise-smooth coefficients. 91b:65128
 Spigler, Renato (with Vianello, Marco) Approximating zeros of solutions of second-order linear ODEs by "phase function" methods. 91g:65195
 — (with Vianello, Marco) A numerical method for evaluating zeros of solutions of second-order linear differential equations. 91d:65125
 Spreuer, H. *see* Adams, Bernhard W.; et al., 91j:65135
 Stauffer, A. D. *see* Holubec, A.; et al., 91f:65149
 Stauffer, J. A. *see* Holubec, A.; et al., 91f:65149
 Steinebach, Gerd *see* Rentrop, Peter, (91f:65004)
 Stewart, David E. High accuracy numerical methods for ordinary differential equations with discontinuous right-hand side. (Not in MR)
 Teflaton, L. *see* Kalaba, Robert, 91f:65148
 Thomann, Jean Resommation des series formelles. Solutions d'équations différentielles

- linéaires ordinaires du second ordre dans le champ complexe au voisinage de singularités irrégulières. (English summary) [Resummation of formal power series. Solutions of second-order linear complex ordinary differential equations near irregular singularities] 91m:65277
- Tudose, Constantia Determination of the higher-order accelerations by an integro-functional method. (see 91k:00030)
- Varah, James M. On the conditioning of parameter estimation problems. 91m:65228
- van Veldhuizen, M. On the approximation of an invariant curve. (see 91f:65004)
- Vianello, Marco see Spigler, Renato, 91d:65125 and 91g:65195
- Vogt, Werner see Philippow, E.; et al., (Not in MR)
- Williams, Jack Approximation and parameter estimation in ordinary differential equations. (see 91e:65003)
- Xie, Zhi Yun The Hamiltonian system and the spline function. 91d:65126
- Zadornov, O. A. (with Eskin, L. D.) On an inverse problem for the Hill equation. Numerical experiments. (Russian) (Not in MR)
- Zhang, Wei Yi see Chu, Jing Yun, 91f:65147
- Zhang, Wen Li see Rouff, Marc, (Not in MR)
- Zheng, Yu Fan A recursive algorithm for linearizing nonlinear systems. I. (Chinese. English summary) 91j:65140
- Zhukovskaya, T. V. (with Zhukovskii, E. S.) Numerical methods for solving functional-differential equations. (Russian) (see 91c:34069)
- Zhukovskii, E. S. see Zhukovskaya, T. V., (91c:34069)
- Items with secondary classifications in 65L99
- Adomian, George A. (with Rach, R.) Purely nonlinear differential equations. (Not in MR)
- Alekseev, D. A. Application and realization of the A-method on an example of Bessel functions. (Russian. English summary) 91d:65035
- Aston, P. J. Introduction to the numerical solution of symmetry-breaking bifurcation problems. 91g:58196
- Balachandran, Krishnan see Thandapani, E.; et al., 91a:34014
- Balasubramanian, G. see Thandapani, E.; et al., 91a:34014
- Bazley, Norman (with Jiménez, Raúl Francisco; Mennickent, Hubert; Miletta, Peter) Bifurcation of special periodic solutions to delay-differential equations. (German summary) 91d:34072
- Belmechi, S. see Rouvieux, A.; et al., 91c:33016
- Benzing, Harold E. Plane autonomous systems with rational vector fields. 91k:58111
- Berry, M. V. (with Howls, C. J.) Hyperasymptotics. 91f:34064
- Beyn, W.-J. Global bifurcations and their numerical computation. 91k:58092
- Boichuk, A. A. (with Zhuravlev, V. F.) The origin of solutions of linear boundary value problems for systems of differential equations with retarded argument. (Russian) (see 91g:00031)
- Bukis, Andris Conservative spline-approximation of differential equations with discontinuous coefficients. (Russian) (see 91c:65007)
- Castelo, A. (with De Freitas, S.; Tavares dos Santos, Geovan) PL approximation to manifolds and its application to applied ODEs. 91k:65082
- Channell, Paul J. (with Scovel, C.) Symplectic integration of Hamiltonian systems. 91g:58073
- Chua, Leon O. see Parker, Thomas S., 91b:58161
- Cliffe, K. A. see Spence, Alastair; et al., 91d:58190
- Coppola, Vincent T. (with Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L₄. 91a:70025
- D'Azevedo, E. F. (with Simpson, R. B.) On optimal interpolation triangle incidences. 91a:65019
- De Freitas, S. see Castelo, A.; et al., 91h:65082
- Dekhtyarenko, V. M. An iterative algorithm for constructing periodic solutions of the plane circular restricted three-body problem. (Russian) (see 91k:00023)
- Some computational algorithms for the approximate solution of the plane circular restricted three-body problem. (Russian) (see 91k:00023)
- Díaz Bejarano, José see García-Margallo, J., 91b:34050
- Dini, J. see Rouvieux, A.; et al., 91c:33016
- Drakhina, N. Sh. Convergence of an approximate method for solving a functional-differential equation. (Russian) 91c:34092
- Ellbeck, J. C. (with Scott, Alwyn C.) Theory and applications of the discrete self-trapping equation. (see 91j:58005)
- Feldstein, Alan (with Jackiewicz, Zdzisław) Unstable neutral functional-differential equations. 91k:34099
- Feng, Jian Feng Numerical solution of stochastic differential equations. 91h:65215
- Forest, Etienne (with Ruth, Ronald D.) Fourth-order symplectic integration. 91e:58054
- Förg-Roh, Wolfgang Some results on the Filipschitt transform. (see 91h:58002)
- García-Margallo, J. (with Díaz Bejarano, José) Generalized Fourier series and limit cycles of generalized van der Pol oscillators. 91b:34050
- Garratt, T. J. (with Moore, Gerald; Spence, Alastair) Two methods for the numerical detection of Hopf bifurcations. (see 91m:58001)
- Gear, C. W. Parallel methods for ordinary differential equations. 91g:65323
- Georgescu, Adelina see Oprea, Iuliana, 91f:65106
- Glowinski, Roland (with Lawton, Wayne M.; Ravachol, Michel; Tenenbaum, Eric) Wavelet solutions of linear and nonlinear elliptic, parabolic and hyperbolic problems in one space dimension. (see 91m:60026)
- Grasman, Johan Using the computer in the analysis of nonlinear systems with a strange attractor. 91h:58148
- Grig'ev, D. Yu. Complexity of quantifier elimination in the theory of ordinary differential equations. 91m:12009
- Grig'eva, E. V. (with Kashchenko, S. A.; Loiko, N. A.; Samson, A. M.) Application of asymptotic methods to the investigation of steady-state regimes of generation in lasers with a nonlinear delay element. (Russian. English summary) 91d:34073
- Hedström, G. W. (with Howes, F. A.) Domain decomposition for a boundary-value problem with a shock layer. (see 91e:65010)
- Herod, J. V. Differential equations with quadratic nonlinearities. 91h:34016
- Hewer, Gary see Kenney, Charles, 91a:49017
- Howes, F. A. see Hedström, G. W., (91e:65010)
- Howls, C. J. see Berry, M. V., 91f:34064
- Ivanov, Valentin Konstantinovich (with Mel'nikova, I. V.) Construction of quasivalues for weakly well-posed problems. 91a:65146
- Jackiewicz, Zdzisław see Feldstein, Alan, 91k:34099
- Jepson, A. D. see Spence, Alastair; et al., 91d:58190
- Ji, Zhen Yi (with Ye, Kai Yuan) Exact analytic method for solving variable coefficient differential equation. 91a:34002
- Jiménez, Raúl Francisco see Bazley, Norman; et al., 91d:34072
- Jódar, Lucas (with Navarro, E.) On the generalized Riccati matrix differential equation. Exact, approximate solutions and error estimate. 91f:34014
- Kabailskii, M. M. An inverse problem of the calculus of variations and its application for the integration of higher-order nonlinear ordinary differential equations. (Russian) 91k:34011
- Karageorghis, Andreas see Phillips, Timothy N., 91g:33016
- Kashchenko, S. A. see Grig'eva, E. V.; et al., 91d:34073
- Kenney, Charles (with Hewer, Gary) The sensitivity of the algebraic and differential Riccati equations. 91a:49017
- Khusainov, D. Ya. see Yun'kova, E. A., 91m:34052
- Kirichenko, A. M. see Lenyuk, M. P., 91f:65046
- Klecza, M. (with Klecza, W.; Kreuzer, E.) Bifurcation analysis: a combined numerical and analytical approach. 91h:34058
- Klecza, W. see Klecza, M.; et al., 91h:34058
- Kobayashi, Yasuhiro¹ see Ohkita, Masaaki, 91f:65035
- Kreuzer, E. see Klecza, M.; et al., 91h:34058
- Kuznetsov, Yuri Aleksandrovich Numerical analysis of the orientability of homoclinic trajectories. (see 91m:58001)
- Lawton, Wayne M. see Glowinski, Roland; et al., (91m:00026)
- Lenyuk, M. P. (with Kirichenko, A. M.) Calculation of some improper integrals from trigonometric functions on the axis. I. (Ukrainian. Russian summary) 91f:65046
- Lewis, F. L. Computational geometry for design in singular systems. (see 91c:00029)
- Loiko, N. A. see Grig'eva, E. V.; et al., 91d:34073
- López Marcos, J. C. A "box" method for a nonlinear integro-differential equation. (Spanish) (see 91j:00015)
- Lu, An (with Wachspress, Eugene L.) Solution of Lyapunov equations by alternating direction implicit iteration. (Not in MR)
- Maroni, P. see Rouvieux, A.; et al., 91c:33016
- Mel'nikova, I. V. see Ivanov, Valentin Konstantinovich, 91a:65146
- Mennickent, Hubert see Bazley, Norman; et al., 91d:34072
- Micula, G. Numerical solution of delay differential equations of higher order by spline functions. (see 91k:00030)
- Miletta, Peter see Bazley, Norman; et al., 91d:34072
- Moore, Gerald see Garratt, T. J.; et al., (91m:58001)
- Murphy, K. A. Estimation of time- and state-dependent delays and other parameters in functional-differential equations. 91c:34108
- Navarro, E. see Jódar, Lucas, 91f:34014
- Novaković, Zoran R. A Lyapunov-like methodology for solving systems of nonlinear equations. (see 91c:00029)
- Ohkita, Masaaki (with Kobayashi, Yasuhiro¹) Piecewise-linear approximation of solution of linear differential equations by Walsh functions. 91f:65035
- Oleinik, S. G. Algorithms for the numerical-analytical construction of multifrequency solutions of nonlinear differential systems. (Russian) 91h:34046
- Oprea, Iuliana (with Georgescu, Adelina) Numerical methods in bifurcation theory. III. Periodic solutions. (Romanian. English summary) 91j:65106
- Parker, Thomas S. (with Chua, Leon O.) ★ Practical numerical algorithms for chaotic systems. 91h:58161
- Pasquini, L. Polynomial solutions to second order linear homogeneous ordinary differential equations. Properties and approximation. 91m:34020
- Phillips, Timothy N. (with Karageorghis, Andreas) On the coefficients of integrated expansions of ultraspherical polynomials. 91g:33016
- Rach, R. see Adomian, George A., (Not in MR)
- Rand, Richard H. see Coppola, Vincent T., 91a:70025
- Ravachol, Michel see Glowinski, Roland; et al., (91m:00026)
- Riad, Rafat Block-pulse functions series solution of time-varying linear systems of higher order. 91m:34064
- Robin, A. C. Newton-Raphson behaving chaotically. 91d:58168
- Rouvieux, A. (with Belmechi, S.; Dini, J.; Maroni, P.) Fourth-order differential equation for the co-modified of semi-classical orthogonal polynomials. 91c:33016
- Ruth, Ronald D. see Forest, Etienne, 91e:58054
- Samson, A. M. see Grig'eva, E. V.; et al., 91d:34073
- Scargle, Jeffrey D. Studies in astronomical time series analysis. IV. Modeling chaotic and random processes with linear filters. 91h:85004
- Schwartz, L. W. see Tuck, E. O., 91f:76024
- Scott, Alwyn C. see Ellbeck, J. C., (91j:58005)
- Scovel, C. see Channell, Paul J., 91g:58073
- Sigal, Ron Algorithms for the Routh-Hurwitz stability test. 91m:92040
- Simpson, R. B. see D'Azevedo, E. F., 91a:65019
- Skrjabin, V. P. A degenerate parameter and convergence in L². (Russian) 91m:65094
- Spence, Alastair (with Cliffe, K. A.; Jepson, A. D.) A note on the calculation of paths of Hopf bifurcations. 91d:58190
- see also Garratt, T. J.; et al., (91m:58001)
- Tavares dos Santos, Geovan see Castelo, A.; et al., 91h:65082
- Tenenbaum, Eric see Glowinski, Roland; et al., (91m:00026)
- Thandapani, E. (with Balachandran, Krishnan; Balasubramanian, G.) Series solutions of a general nonlinear equation. 91a:34014
- Tuck, E. O. (with Schwartz, L. W.) A numerical and asymptotic study of some third-order ordinary differential equations relevant to draining and coating flows. 91f:76024
- Wachspress, Eugene L. see Lu, An, (Not in MR)
- Wiesmann, H. J. (with Wild, Paul) Mathematical and numerical aspects of the semiconductor equations: the 1D case revisited. (see 91c:00027)

- Wild, Paul *see* Wiesmann, H. J., (91e:00027)
 Ye, Kai Yuan *see* Ji, Zhen Yi, 91a:34002
 Yun'kova, E. A. (with Khusainov, D. Ya.) A numerical algorithm for constructing an optimal Lyapunov function. (Russian) 91m:34052
 Zhukova, G. S. Asymptotic integration of linear differential systems with a limit matrix having multiple spectrum and a small parameter multiplying the derivative. (Russian) 91j:34090
 Zhuraviev, V. F. *see* Boichuk, A. A., (91g:00031)

65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems

- Cockburn, Bernardo Quasimonotone schemes for scalar conservation laws. I. 91b:65106
 — Quasimonotone schemes for scalar conservation laws. II, III. 91b:65107
 Ding Di-hang On the backward parabolic equation: a critical survey of some current methods. (see 91k:65007)
 Ganzha, V. G. (with Meleshko, S. V.; Shapnev, P. P.) Intermediate computations in analytic investigations of differential equations on a computer. (Russian) 91j:65141
 LeVeque, Randall J. ★ Numerical methods for conservation laws. 91j:65142
 Meleshko, S. V. *see* Ganzha, V. G.; et al., 91j:65141
 Shapnev, P. P. *see* Ganzha, V. G.; et al., 91j:65141
 Thomée, Vidar Finite difference methods for linear parabolic equations. (see 91f:65001)

Items with secondary classifications in 65Mxx

- Chen, Gui Qiang Limit behavior of approximate solutions to conservation laws. 91m:35141
 (Flaherty, Joseph E.) *see* Adaptive methods for partial differential equations, 91m:65002
 Glimm, James Scientific computing: von Neumann's vision, today's realities, and the promise of the future. (see 91e:00024)
 (von Neumann, John) *see* Glimm, James, (91e:00024)
 Oden, J. Tinsley Progress in adaptive methods in computational fluid dynamics. (see 91m:65002)
 (Paslow, Pamela J.) *see* Adaptive methods for partial differential equations, 91m:65002
 (Shephard, Mark S.) *see* Adaptive methods for partial differential equations, 91m:65002
 (Vassiliadis, John D.) *see* Adaptive methods for partial differential equations, 91m:65002

Items listed otherwise than by author

- Adaptive methods for partial differential equations ★ Adaptive methods for partial differential equations. 91m:65002
 Troy, NY ★ Adaptive methods for partial differential equations. 91m:65002
 Workshop:
 Adaptive Computational Methods for Partial Differential Equations ★ Adaptive methods for partial differential equations. 91m:65002

65M05 Derivation of finite difference approximations (1985)

- Asmolik, V. A. Locally one-dimensional difference schemes with speed-up for multidimensional quasilinear parabolic and hyperbolic equations in complex domains. (Russian) (see 91b:73001)
 Evseev, E. G. (with Shoniya, V. V.) Difference schemes of flux vector splitting for shallow water equations. (Russian. English summary) (Not in MR)
 Okol'skii, A. V. A spectral-operator method for constructing optimal difference algorithms. (Russian) (see 91b:73001)
 Shoniya, V. V. *see* Evseev, E. G., (Not in MR)

65M06 Finite difference methods

- Akopyan, Yu. R. Variational-difference methods for solving parabolic equations. (Russian) (see 91k:65007)
 Arney, David C. *see* Robertson, J. S.; et al., 91k:65131
 Ashyralyev, A. O. Difference schemes of a higher order of accuracy for second-order evolution equations. (Russian) (see 91c:34070)
 Bakaev, N. Yu. Stability of weighted difference schemes. 91k:65128
 Birkhoff, Garrett (with Gartland, Eugene C., Jr.; Lynch, Robert E.) Difference methods for solving convection-diffusion equations. 91f:65149
 Brenier, Yann Une méthode particulière pour les équations non linéaires de diffusion convection en dimension un. (English summary) [A particle method for nonlinear convection diffusion equations in dimension one] 91k:65129
 Chang, Sin Chung A critical analysis of the modified equation technique of Warming and Hyett. 91d:65127
 Chen, De Hui Block methods for solving a diffusion-convection equation and their stability. (Chinese. English summary) 91f:65151
 Coquel, Frédéric (with Le Floch, Philippe) Convergence of finite difference schemes for conservation laws in several space dimensions: the corrected antidiffusive flux approach. 91m:65229
 Dai, Jia Zan (with Xu, Yun; Zhao, Ning) A method for constructing modified differential equations for three-level difference schemes. (Chinese. English summary) 91f:65152
 Dong, Hai Tao A class of second-order accurate nonoscillatory implicit difference schemes for the Euler system of equations. (Chinese. English summary) 91m:65230
 Fahlbri, M. Stability of the totally implicit finite difference scheme for the one-dimensional diffusion equation with a moving boundary. (German summary) 91m:65231
 Favorskii, A. P. *see* Vyaznikov, K. V.; et al., 91b:65131; 91b:65154 and 91j:65147
 Fornberg, Bengt High-order finite differences and the pseudospectral method on staggered grids. 91g:65196
 Garcia-Archilla, Bosco (with Sanz-Serna, J. M.) A finite difference formula for the discretization of d^3/dx^3 on nonuniform grids. 91j:65143
 Gartland, Eugene C., Jr. *see* Birkhoff, Garrett; et al., 91f:65149
 Harabetian, Edward A numerical method for viscous perturbations of hyperbolic conservation laws. 91h:65129
 Herdman, Terry L. (with Turi, Janos) Singular neutral equations. (see 91m:93004)

- Jacobson, M. J. *see* Robertson, J. S.; et al., 91k:65131
 Jurik, Marián Monotonicity properties of the difference scheme SHASTA FCT. (Czech. English and Russian summaries) (Not in MR)
 Kuang, Jiao Xun (with Lu, Lian Hua) Two classes of finite-difference methods for generalized sine-Gordon equations. 91m:65232
 Larroustou, Bernard Problème de Riemann et approximation numérique pour les équations d'Euler multi-espèces. (English summary) [Riemann problem and numerical approximation for the multicomponent Euler equations] 91h:65130
 Le Floch, Philippe *see* Coquel, Frédéric, 91m:65229
 Lerat, A. Difference schemes for nonlinear hyperbolic systems—a general framework. 91b:65108
 Li, Yi (with Wang, Li) Two unconditionally stable difference schemes. (Chinese. English summary) 91f:65150
 Lin, Peng Cheng Two-level semi-explicit schemes with absolute stability for solving the dispersive equation $U_t = au_{xxx}$. (Chinese. English summary) 91g:65197
 Lin, Ping *see* Su, Yu Cheng, 91b:65153 and 91m:65234
 Lu, Lian Hua *see* Kuang, Jiao Xun, 91m:65232
 Lynch, Robert E. *see* Birkhoff, Garrett; et al., 91f:65149
 Mao, De Kang A treatment of discontinuities in shock-capturing finite difference methods. 91k:65130
 Matus, P. P. A class of difference schemes on composite grids for non-steady-state problems in mathematical physics. 91j:65144
 Mickens, Ronald E. Exact solutions to a finite-difference model of a nonlinear reaction-advection equation: implications for numerical analysis. (Not in MR)
 — Analysis of a new finite-difference scheme for the linear advection-diffusion equation. (Not in MR)
 Moskal'kov, M. N. Dispersion of difference schemes for two-dimensional wave equations. (Russian) (see 91g:00031)
 Ostapenko, V. A. Approximation of conservation laws by means of difference schemes of a through calculation on discontinuous solutions. (Russian) 91m:65233
 — Equivalent definitions of the concept of conservativity for finite-difference schemes. 91c:65110
 — Approximation of conservation laws by difference schemes of double sweep calculation. 91j:65145
 Pester, Martina (with Windisch, Günther) Differenzenapproximation nichtlinearer parabolischer Probleme als M -Funktionen auf \mathbb{R}_+^2 . [Difference approximation of nonlinear parabolic problems as M -functions on \mathbb{R}_+^2] 91e:65111
 Renault, R. A. Two-step Runge-Kutta methods and hyperbolic partial differential equations. 91d:65128
 Robertson, J. S. (with Arney, David C.; Siegmund, W. L.; Jacobson, M. J.) Adaptive numerical enhancements to finite-difference algorithms for parabolic approximations. 91k:65131
 Sadykov, M. K. Difference schemes for solving a boundary value problem for a system of quasi-three-dimensional parabolic equations. (Russian) (Not in MR)
 Sanders, Richard (with Weiser, Alan) A high order staggered grid method for hyperbolic systems of conservation laws in one space dimension. 91e:65112
 Sanz-Serna, J. M. *see* Garcia-Archilla, Bosco, 91j:65143
 Sartanov, Zh. Multiperiodic solution of a system of difference equations and its application. (Russian. Kazakh summary) 91d:65129
 Siegmund, W. L. *see* Robertson, J. S.; et al., 91k:65131
 Su, Yu Cheng (with Lin, Ping) Uniform difference scheme for a singularly perturbed linear 2nd order hyperbolic problem with zeroth order reduced equation. 91f:65153
 — (with Lin, Ping) Numerical solution of the singularly perturbed problem for the hyperbolic equation with initial jump. 91m:65234
 Subba Rao, V. (with Zahran, Yousef H.) h -dependent stability of difference approximations for a nonlinear partial differential equation. 91j:65146
 Thuné, Michael A numerical algorithm for stability analysis of difference methods for hyperbolic systems. 91e:65113
 Tishkin, V. F. *see* Vyaznikov, K. V.; et al., 91b:65131; 91b:65154 and 91j:65147
 Turi, Janos *see* Herdman, Terry L., (91m:93004)
 Vyaznikov, K. V. (with Zhornitsky, N. S.; Tishkin, V. F.; Favorskii, A. P.) A method for constructing quasimonotone difference schemes of an increased order of approximation. (Russian) 91b:65131
 — (with Tishkin, V. F.; Favorskii, A. P.) Quasimonotone difference schemes of an increased order of approximation on nonuniform grids. (Russian) 91j:65147
 — (with Tishkin, V. F.; Favorskii, A. P.) Construction of monotone difference schemes of an increased order of approximation for systems of equations of hyperbolic type. (Russian) 91b:65154
 Wang, Jing Hua Large time step generalization of random choice finite difference scheme for hyperbolic conservation laws. 91a:65217
 Wang, Li *see* Li, Yi, 91f:65150
 Weiser, Alan *see* Sanders, Richard, 91e:65112
 Windisch, Günther *see* Pester, Martina, 91e:65111
 Wu, Wei Wen Highly accurate absolutely stable implicit difference schemes for solving the dispersion equation $u_t = au_{xxx}$. (Chinese. English summary) 91f:65155
 Xu, Yun *see* Dai, Jia Zan; et al., 91f:65152
 Zahran, Yousef H. *see* Subba Rao, V., 91j:65146
 Zhao, Ning *see* Dai, Jia Zan; et al., 91f:65152
 Zhornitsky, N. S. *see* Vyaznikov, K. V.; et al., 91b:65131

Items with secondary classifications in 65M06

- Abdella, K. *see* Tait, R. J.; et al., 91m:73029
 Benachour, Said (with LeRoux, Alain Yves; Le Roux, Marie-Noëlle) Approximation to nonlinear convection diffusion equations. 91d:35099
 Cannon, John R. (with Lin, Yanping; Wang, Shingmin) An implicit finite difference scheme for the diffusion equation subject to mass specification. 91b:80001
 Chang, Qian Shun Some discrete Sobolev's inequalities in three-dimensional spherical and cylindrical coordinates. 91g:65274
 Cockburn, Bernardo Quasimonotone schemes for scalar conservation laws. II, III. 91b:65107

- Duncan, Dugald B. *see* Tait, R. J.; et al., 91m:73029
- Eden, Alp (with Michaux, B.; Rakotoson, Jean-Michel) Semi-discretized nonlinear evolution equations as discrete dynamical systems and error analysis. 91h:35150
- Fedotova, Z. I. A study of the stability of difference schemes with noncommuting matrices. (Russian) (see 91j:00011)
- Godev, Kalin *see* Lazarov, Raicho D., 91f:65159
- Hou, Thomas Y. (with Lax, Peter D.) Dispersive approximations in fluid dynamics. 91m:76088
- Kompaniets, L. A. Formulation of additional boundary conditions for difference schemes that approximate transport equations. (Russian) (see 91j:00011)
- Kostova, T. V. Numerical solutions to equations modelling nonlinearly interacting age-dependent populations. 91e:92019
- Lax, Peter D. *see* Hou, Thomas Y., 91m:76088
- Lazarov, Raicho D. (with Godev, Kalin) Error estimates of finite difference schemes for parabolic equations with weak solutions. (Russian summary) 91f:65159
- LeRoux, Alain Yves *see* Benachour, Said; et al., 91d:35099
- Le Roux, Marie-Noëlle *see* Benachour, Said; et al., 91d:35099
- Lin, Yanping *see* Cannon, John R.; et al., 91b:80001
- Michaux, B. *see* Eden, Alp; et al., 91h:35150
- van Niekerk, A. *see* van Niekerk, F. D., 91e:65117
- van Niekerk, F. D. (with van Niekerk, A.) A Hermite rational approximation method for the Korteweg-de Vries equation. 91e:65117
- Ortega, Tomás Numerical investigation on the Beck's problem. (Spanish. English summary) (see 91j:00015)
- Rakotoson, Jean-Michel *see* Eden, Alp; et al., 91h:35150
- Stuart, Andrew Linear instability implies spurious periodic solutions. 91e:65119
- Tait, R. J. (with Abdella, K.; Duncan, Dugald B.) Approximate Riemann solvers and waves on a nonlinear elastic string. 91m:73029
- Temam, Roger Inertial manifolds and multigrid methods. 91e:65132
- Thomaidis, George (with Zygorakis, Kyriacos; Wheeler, Mary F.) An explicit finite difference scheme based on the modified method of characteristics for solving convection-diffusion problems in one space dimension. 91a:76069
- Thune, Michael A partitioning strategy for explicit difference methods. 91k:65172
- Wang, Shingmin *see* Cannon, John R.; et al., 91b:80001
- Wheeler, Mary F. *see* Thomaidis, George; et al., 91a:76069
- Zygorakis, Kyriacos *see* Thomaidis, George; et al., 91a:76069
- 65M10 Stability and convergence of difference methods (1985)**
- van der Houwen, P. J. Stabilization of explicit difference schemes by smoothing techniques. (see 91f:65004)
- 65M12 Stability and convergence of numerical methods**
- Abia, L. (with Sanz-Serna, J. M.) The spectral accuracy of a fully-discrete scheme for a nonlinear third order equation. (German summary) 91g:65198
- Akrivis, Georgios D. (with Douglas, Vassilios A.) Finite difference discretizations of some initial and boundary value problems with interface. 91h:65132
- Bertsch, M. (with Dal Passo, R.) A numerical treatment of a superdegenerate equation with applications to the porous media equation. 91d:65130
- Bulekbaev, A. B. (with Rysbaev, B. R.) Convergence and stability of a difference scheme for the Burgers model. (Russian. Kazakh summary) (Not in MR)
- Chalabi, Abdallah Analyse de schémas décentrés pour des lois de conservation bidimensionnelles non homogènes. (English summary) [An analysis of upwind schemes for inhomogeneous two-dimensional conservation laws] 91h:65133
- Chan, Chia Yung (with Wong, Benedict M.) Computational methods for time-periodic solutions of singular semilinear parabolic problems. 91m:65235
- Chen, Chuan Dan Stability and convergence of the multilevel difference approximation for hyperbolic systems with variable coefficients. (Chinese. English summary) 91h:65134
- Chen, De Hui (with Hu, Cheng Lie) On extrapolations of difference solutions for first-order hyperbolic equations and their stability. (Chinese. English summary) 91h:65109
- Chen, Li-Liang Large-time behavior of solutions of Lax-Friedrichs finite difference equations for hyperbolic systems of conservation laws. 91j:65148
- Cherruault, Y. (with Choubane, M.; Valletton, J. M.; Vincent, J. C.) Stability and asymptotic behavior of a numerical solution corresponding to a diffusion-reaction equation solved by a finite difference scheme (Crank-Nicolson). 91j:65149
- Choubane, M. *see* Cherruault, Y.; et al., 91j:65149
- Coquel, Frédéric (with Le Floch, Philippe) Convergence de schémas aux différences finies pour des lois de conservation à plusieurs dimensions d'espace. (English summary) [Convergence of finite difference schemes for conservation laws in several space dimensions] 91d:65131
- Dai, Jia Zan (with Ren, Hong Liang) Convergence of hybrid MUSCL-type schemes. (German summary) 91h:65135
- Dai, Wei Zhong Linearized difference schemes for a class of nonlinear parabolic equations. (Chinese. English summary) 91h:65136
- Convergence and stability of generalized difference schemes of DuFort-Fraenkel type with variable coefficients. (Chinese. English summary) 91h:65137
- Dal Passo, R. *see* Bertsch, M., 91d:65130
- Dhar, Ranajit (with Sinha, D. K.) A note on corrector-predictor scheme for higher dimension linear hyperbolic system of equations. 91h:65138
- Dougalis, Vassilios A. *see* Akrivis, Georgios D., 91h:65132
- Estep, Donald (with Loss, Michael; Rauch, Jeffrey) Boundedness of dispersive difference schemes. 91h:65139
- Faragó, István (with Galántai, A.) An A-stable three-level method for the Galerkin solution of quasilinear parabolic problems. 91h:65156
- Fedotova, Z. I. A study of the stability of difference schemes with noncommuting matrices. (Russian) (see 91j:00011)
- Galántai, A. *see* Faragó, István, 91h:65156
- Gladkii, A. V. Stability of difference schemes for wave equations. (Russian. English summary) 91c:65059
- *see also* Lyashko, I. I., 91a:65218
- Glasse, Robert T. (with Schaeffer, Jack W.) Convergence of a second-order scheme for semilinear hyperbolic equations in 2 + 1 dimensions. 91h:65140
- Hayakawa, Kantaro Convergence of finite difference scheme and analytic data. II. 91d:65132
- Local theory of convergence of the Lax-Wendroff scheme for first order system of partial differential equations in C^∞ and C^0 category. 91m:65236
- Ha, Cheng Lie *see* Chen, De Hui, 91h:65109
- Kazmerchuk, A. I. Convergence of approximate solutions of the Cauchy problem for first-order quasilinear equations. 91f:65151
- Kuzik, A. M. The rate of convergence of a locally one-dimensional difference scheme in the case of generalized solutions. (Ukrainian. Russian summary) (Not in MR)
- Le Floch, Philippe *see* Coquel, Frédéric, 91d:65131
- Loss, Michael *see* Estep, Donald; et al., 91h:65139
- Lyashko, I. I. (with Gladkii, A. V.) Investigation of the stability of difference schemes for wave equations of parabolic type. (Russian. English summary) 91a:65218
- Müller, Bernhard Linear stability condition for explicit Runge-Kutta methods to solve the compressible Navier-Stokes equations. 91d:65133
- Nessyahu, Haim (with Tadmor, Eitan) Nonoscillatory central differencing for hyperbolic conservation laws. 91h:65157
- Ortega, Tomás Numerical investigation on the Beck's problem. (Spanish. English summary) (see 91j:00015)
- Ramos, J. I. Hermitian operator methods for reaction-diffusion equations. (Not in MR)
- Rauch, Jeffrey *see* Estep, Donald; et al., 91h:65139
- Ren, Hong Liang *see* Dai, Jia Zan, 91h:65135
- Rysbaev, B. R. *see* Bulekbaev, A. B., (Not in MR)
- Sanz-Serna, J. M. *see* Abia, L., 91g:65198
- Schaeffer, Jack W. *see* Glasse, Robert T., 91h:65140
- Scroggs, Jeffrey S. An iterative method for systems of nonlinear hyperbolic equations. 91h:65132
- Shamardan, A. B. The numerical treatment of the nonlinear Schrödinger equation. 91d:65134
- Sinha, D. K. *see* Dhar, Ranajit, 91h:65138
- Stuart, Andrew Nonlinear instability in dissipative finite difference schemes. 91h:65110
- Tadmor, Eitan *see* Nessyahu, Haim, 91h:65157
- Tveit, Aslak Convergence and stability of the Lax-Friedrichs scheme for a nonlinear parabolic polymer flooding problem. 91f:65152
- (with Winther, Ragnar) Convergence of a nonconservative finite difference scheme for a system of hyperbolic conservation laws. 91j:65150
- Valletton, J. M. *see* Cherruault, Y.; et al., 91j:65149
- Vincent, J. C. *see* Cherruault, Y.; et al., 91j:65149
- Wang, Guo Ying A difference method for solving mixed problems for second-order hyperbolic equations with small parameters. 91h:65111
- Winther, Ragnar *see* Tveit, Aslak, 91f:65152
- Wong, Benedict M. *see* Chan, Chia Yung, 91m:65235
- Yong, Wen An (with Zhu, You Lan) Convergence of difference methods for nonlinear problems with moving boundaries. 91h:65158
- Zhu, You Lan *see* Yong, Wen An, 91h:65158
- Items with secondary classifications in 65M12**
- Affouf, Mahmoud (with Calisch, Russel E.) A numerical study of Riemann problem solutions and stability for a system of viscous conservation laws of mixed type. 91m:76039
- Antontsev, S. N. (with Kashevarov, A. A.; Semenko, T. I.) An iterative method for solving a stationary problem on saturated-unsaturated filtration in a hydraulic approximation. (Russian) 91k:76126
- Bakae, N. Yu. On the theory of coercive stability of two-layer difference schemes. (Russian) 91g:65188
- A study of the stability of some two-layer difference schemes. 91e:65081
- Baker, Garth A. (with Jurcicini, Wadi N.; Karakashian, Ohannes A.) Piecewise solenoidal vector fields and the Stokes problem. 91m:65246
- Benachour, Said (with LeRoux, Alain Yves; Le Roux, Marie-Noëlle) Approximation to nonlinear convection diffusion equations. 91d:35099
- Brenier, Yann Une méthode particulière pour les équations non linéaires de diffusion convection en dimension un. (English summary) [A particle method for nonlinear convection diffusion equations in dimension one] 91h:65129
- Calisch, Russel E. (with Lowengrub, John S.) Convergence of the vortex method for vortex sheets. 91g:76073
- *see also* Affouf, Mahmoud, 91m:76039
- Casulli, Vincenzo (with Cheng, Ralph T.) Stability analysis of Eulerian-Lagrangian methods for the one-dimensional shallow-water equations. 91d:76056
- Cauwet, J.-J. (with Colombeau, J.-F.; LeRoux, Alain Yves) Discontinuous generalized solutions of nonlinear nonconservative hyperbolic equations. 91c:35085
- Chang, Sin Chung On the validity of the modified equation approach to the stability analysis of finite-difference methods. 91e:65121
- Cheng, Ralph T. *see* Casulli, Vincenzo, 91d:76056
- Cockburn, Bernardo Quasimonotone schemes for scalar conservation laws. I. 91h:65106
- Quasimonotone schemes for scalar conservation laws. II, III. 91h:65107
- Colombeau, J.-F. (with LeRoux, Alain Yves; Nussair, A.; Perrot, B.) Microscopic profiles of shock waves and ambiguities in multiplications of distributions. 91c:35086
- *see also* Cauwet, J.-J.; et al., 91c:35085
- Craig, I. J. D. (with Sneyd, A. D.) An alternating direction implicit scheme for parabolic systems of partial differential equations. 91g:65224
- Dutt, Pravir Stability and convergence of spectral methods for hyperbolic initial-boundary value problems. 91c:65063
- von Finkenstien, Karl Graf Flinck Difference methods for quasilinear parabolic systems from plasma physics. (Not in MR)
- Fumaro, Daniele Convergence analysis for pseudospectral multidomain approximations of linear advection equations. 91d:65151
- Harabetian, Edward A numerical method for viscous perturbations of hyperbolic conservation laws. 91h:65129

Hou, Thomas Y. (with Lowengrub, John S.) Convergence of the point vortex method for the 3-D Euler equations. 91k:76026

Hundsdorfer, Willem H. see Verwer, J. G.; et al., 91d:65102

Jureidini, Wadi N. see Baker, Garth A.; et al., 91m:65246

Karakashian, Ohannes A. see Baker, Garth A.; et al., 91m:65246

Kashevarov, A. A. see Antontsev, S. N.; et al., 91k:76126

Keeling, Stephen L. Galerkin/Runge-Kutta discretizations for semilinear parabolic equations. 91d:65140

Knightly, George H. (with Saint Mary, Donald F.; Lee, Ding) Analysis of the accuracy of a computational method for the parabolic wave equation. 91h:65141

Kuang, Jiao Xun (with Lu, Lian Hua) Two classes of finite-difference methods for generalized sine-Gordon equations. 91m:65232

Lebowitz, Joel L. (with Orlandi, Enza; Presutti, Errico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001

Lee, Ding see Knightly, George H.; et al., 91h:65141

Lenferink, H. W. J. (with Spijker, M. N.) On the use of stability regions in the numerical analysis of initial value problems. 91m:65217

LeRoux, Alain Yves see Cauret, J.-J.; et al., 91c:35085; Colombeau, J.-F.; et al., 91c:35086 and Benachour, Saïd; et al., 91d:35099

Le Roux, Marie-Noëlle see Benachour, Saïd; et al., 91d:35099

Lin, Ping see Su, Yu Cheng, 91m:65234

Lowengrub, John S. see Caffisch, Russell E., 91g:76073 and Hou, Thomas Y., 91k:76026

Lu, Lian Hua see Kuang, Jiao Xun, 91m:65232

Noussair, A. see Colombeau, J.-F.; et al., 91c:35086

Orlandi, Enza see Lebowitz, Joel L.; et al., 91m:76001

Perrot, B. see Colombeau, J.-F.; et al., 91c:35086

Peterson, Todd E. A note on the convergence of the discontinuous Galerkin method for a scalar hyperbolic equation. 91m:65250

Presutti, Errico see Lebowitz, Joel L.; et al., 91m:76001

Remant, R. A. Two-step Runge-Kutta methods and hyperbolic partial differential equations. 91d:65128

Saint Mary, Donald F. see Knightly, George H.; et al., 91h:65141

Semenko, T. I. see Antontsev, S. N.; et al., 91k:76126

Sneyd, A. D. see Craig, I. D., 91g:65224

Sommeijer, B. P. see Verwer, J. G.; et al., 91d:65102

Spijker, M. N. see Lenferink, H. W. J., 91m:65217

Su, Yu Cheng (with Lin, Ping) Numerical solution of the singularly perturbed problem for the hyperbolic equation with initial jump. 91m:65234

Subba Rao, V. (with Zahran, Yousef H.) h -dependent stability of difference approximations for a nonlinear partial differential equation. 91h:65146

Verwer, J. G. (with Hundsdorfer, Willem H.; Sommeijer, B. P.) Convergence properties of the Runge-Kutta-Chebyshev method. 91d:65102

Zahran, Yousef H. see Subba Rao, V., 91j:65146

65M15 Error bounds

Ames, William F. Optimal numerical algorithms. 91m:65237

Dai, Wei Zhong Absolutely stable explicit and semi-explicit difference schemes for Schrödinger equations. (Chinese. English summary) 91c:65060

Dzhurav, I. N. An estimate for the accuracy of an efficient factorized difference scheme for hyperbolic equations with a small parameter multiplying the highest time derivative. (Russian. Tajiki summary) 91d:65135

Johnson, Claes (with Nie, Yi Yong; Thomée, Vidar) An a posteriori error estimate and adaptive timestep control for a backward Euler discretization of a parabolic problem. 91g:65199

Kačur, Jozef On L_∞ -convergence of Rothe's method. 91d:65136

Knightly, George H. (with Saint Mary, Donald F.; Lee, Ding) Analysis of the accuracy of a computational method for the parabolic wave equation. 91h:65141

Lee, Ding see Knightly, George H.; et al., 91h:65141

Mamatov, A. Z. Rounding errors for a heat equation. (Russian) (Not in MR)

Nie, Yi Yong see Johnson, Claes; et al., 91g:65199

Saint Mary, Donald F. see Knightly, George H.; et al., 91h:65141

Stankiewicz, Roman Runge-Kutta methods for parabolic equations with nonsmooth initial data. 91m:65238

Thomée, Vidar see Johnson, Claes; et al., 91g:65199

Yin, Guang Yan Highly-accurate difference schemes for solving hyperbolic problems. 91h:65159

Items with secondary classifications in 65M15

Akrivis, Georgios D. (with Dougalis, Vassilios A.) Finite difference discretizations of some initial and boundary value problems with interface. 91h:65132

Bardi, Martino (with Osher, Stanley) The nonconvex multidimensional Riemann problem for Hamilton-Jacobi equations. 91k:35056

Christie, I. see Fairweather, Graeme; et al., 91d:65138

Dougalis, Vassilios A. see Akrivis, Georgios D., 91h:65132

Fairweather, Graeme (with Sanz-Serna, J. M.; Christie, I.) A stabilized Galerkin method for a third-order evolutionary problem. (German and Russian summaries) 91c:73044

Ionescu, Ioan R. Error estimates of an Euler method for a quasistatic elastic-visco-plastic problem. (German and Russian summaries) 91c:73044

Karryev, A. A. (with Mamedov, Ya. D.) Application of exact difference schemes to the error estimation of the method of lines for a parabolic-hyperbolic system. (Russian. English summary) 91g:65201

Keeling, Stephen L. Galerkin/Runge-Kutta discretizations for semilinear parabolic equations. 91d:65140

Lippold, Günter Error estimates and step-size control for the approximate solution of a first order evolution equation. (French summary) 91m:65168

Mamedov, Ya. D. see Karryev, A. A., 91g:65201

Osher, Stanley see Bardi, Martino, 91k:35056

Sanz-Serna, J. M. see Fairweather, Graeme; et al., 91d:65138

65M20 Method of lines

Berzins, Martin see Skeel, Robert D., 91g:65202

Furzeland, R. M. (with Verwer, J. G.; Zegeling, P. A.) A numerical study of three moving-grid methods for one-dimensional partial differential equations which are based on the method of lines. 91g:65200

Guminskii, V. V. see Makarov, Vladimir Leonidovich, 91m:65239

Karryev, A. A. (with Mamedov, Ya. D.) Application of exact difference schemes to the error estimation of the method of lines for a parabolic-hyperbolic system. (Russian. English summary) 91g:65201

Krassikh, K.-D. Uniform convergence of adaptive Runge-Kutta methods in the method of lines. (Russian) (see 91i:65003)

Makarov, Vladimir Leonidovich (with Guminskii, V. V.) Solution of a singularly perturbed fourth-order nonstationary boundary value problem. (Russian) 91m:65239

Mamedov, Ya. D. see Karryev, A. A., 91g:65201

Skeel, Robert D. (with Berzins, Martin) A method for the spatial discretization of parabolic equations in one space variable. 91g:65202

Stys, Tadeusz An $O(h^4)$ approximation of the equation $u_t = G(t, x, u, u_{xx})$ by the method of lines. 91h:65112

Thompson, Russell C. (with Walter, Wolfgang L.) Convergence of the line method approximation for a parabolic free boundary problem. 91h:65142

Verwer, J. G. see Furzeland, R. M.; et al., 91g:65200

Walter, Wolfgang L. see Thompson, Russell C., 91h:65142

Zegeling, P. A. see Furzeland, R. M.; et al., 91g:65200

Items with secondary classifications in 65M20

Auzinger, Winfried On error structures and extrapolation for stiff systems, with application in the method of lines. (German summary) 91h:65117

65M25 Method of characteristics

Hou, Thomas Y. Convergence of a variable blob vortex method for the Euler and Navier-Stokes equations. 91m:65240

Lin, Long Wei (with Xie, Fei Peng) Characteristics method in a certain macroscopic sense for Glimm's scheme. 91i:65160

Xie, Fei Peng see Lin, Long Wei, 91i:65160

Zhu, Jiang Characteristic numerical methods for nonlinear RLW equations. (Chinese. English summary) 91g:65203

Items with secondary classifications in 65M25

Casulli, Vincenzo (with Cheng, Ralph T.) Stability analysis of Eulerian-Lagrangian methods for the one-dimensional shallow-water equations. 91d:76056

Cheng, Ralph T. see Casulli, Vincenzo, 91d:76056

Childs, P. N. (with Morton, K. W.) Characteristic Galerkin methods for scalar conservation laws in one dimension. 91c:65115

Morton, K. W. see Childs, P. N., 91c:65115

65M30 Improperly posed problems

Gilliam, D. S. (with Mair, B. A.; Martin, Clyde Franklin) Determination of initial states of parabolic systems from discrete data. 91h:65143

Gilquin, H. (with Serre, Denis) Well-posedness of the Riemann problem; consistency of the Godunov's scheme. 91h:65113

Mair, B. A. see Gilliam, D. S.; et al., 91h:65143

Martin, Clyde Franklin see Gilliam, D. S.; et al., 91h:65143

Serre, Denis see Gilquin, H., 91h:65113

Smiley, Michael W. Numerical determination of breathers and forced oscillations of nonlinear wave equations. 91f:65153

Tautenhahn, Ulrich A new regularisation method for parameter identification in elliptic problems. 91h:65161

65M50 Mesh generation and refinement

Arney, David C. (with Flaherty, Joseph E.) An adaptive mesh-moving and local refinement method for time-dependent partial differential equations. 91f:65154

Breitschuh, U. On developing optimal grids for parabolic differential equations. (see 91k:65012)

Drobyshevich, V. I. (with Laevskii, Yu. M.; Yausheva, L. V.) ★ Алгоритм решения параболических уравнений с различными временными шагами в подобластях. (Russian) [An algorithm for solving parabolic equations with various time steps in subdomains] (Not in MR)

Ewing, Richard E. see Lin, Tao; et al., 91m:65242

Flaherty, Joseph E. see Arney, David C., 91f:65154

George, John H. see Lin, Tao; et al., 91m:65242

Huberson, S. (with Jollès, A.) Correction of the projection error in particle/mesh methods. 91m:65241

Jollès, A. see Huberson, S., 91m:65241

Laevskii, Yu. M. see Drobyshevich, V. I.; et al., (Not in MR)

Lin, Tao (with Sochacki, James S.; Ewing, Richard E.; George, John H.) Some grid refinement schemes for hyperbolic equations with piecewise constant coefficients. 91m:65242

Sochacki, James S. see Lin, Tao; et al., 91m:65242

Yausheva, L. V. see Drobyshevich, V. I.; et al., (Not in MR)

Items with secondary classifications in 65M50

Arney, David C. see Robertson, J. S.; et al., 91k:65131

Castillo, José E. An adaptive direct variational grid generation method. (Not in MR)

Choi, U Jin see Kwak, Do Young; et al., 91m:65347

Jacobson, M. J. see Robertson, J. S.; et al., 91k:65131

Kwak, Do Young (with Choi, U Jin; Son, S.) Prime number grid scheme to approximate function spaces with their low-dimensional subspaces. 91m:65347

- Robertson, J. S. (with Arney, David C.; Siegmund, W. L.; Jacobson, M. J.) Adaptive numerical enhancements to finite-difference algorithms for parabolic approximations. 91h:65131
- Siegmund, W. L. see Robertson, J. S.; et al., 91h:65131
- Smyrlis, Giorgos Sokratis Existence and stability of stationary profiles of the LW scheme. 91d:65143
- Son, S. see Kwak, Do Young; et al., 91m:65347

65M55 Multigrid methods; domain decomposition

- Akian, Marianne Analyse de l'algorithme multigrille FMGH de résolution d'équations d'Hamilton-Jacobi-Bellman. (English summary) [Analysis of the multigrid algorithm FMGH for solving Hamilton-Jacobi-Bellman equations] 91h:65144
- Bensoussan, Alain (with Glowinski, Roland; Răşcanu, A.) Approximation of the Zakai equation by the splitting up method. 91m:65243
- Chen, Yung Ming (with Zhang, Feng Gang) Hierarchical multigrid strategy for efficiency improvement of the GPST inversion algorithm. 91m:65244
- Glowinski, Roland see Bensoussan, Alain; et al., 91m:65243
- Quarteroni, Alfio Iteration-by-subdomain algorithms for systems of hyperbolic equations. (see 91m:65066)
- Răşcanu, A. see Bensoussan, Alain; et al., 91m:65243
- Scroggs, Jeffrey S. Physically motivated domain decomposition for singularly perturbed equations. 91m:65245
- Zhang, Feng Gang see Chen, Yung Ming, 91m:65244
- Items with secondary classifications in 65M55
- Friedman, Morton B. see Luo, Jenn-Ching, 91m:65298
- Luo, Jenn-Ching (with Friedman, Morton B.) A study on decomposition methods. 91m:65298
- Matus, P. P. A class of difference schemes on composite grids for non-steady-state problems in mathematical physics. 91j:65144
- McCormick, Stephen F. ★ Multilevel adaptive methods for partial differential equations. 91h:65296
- Quarteroni, Alfio Domain decomposition methods for systems of conservation laws: spectral collocation approximations. 91h:65156

65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

- Akrivis, Georgios D. (with Dougalis, Vassilios A.) On a high-order accurate Galerkin-type full discretization of the Schrödinger equation. (see 91h:00032)
- Asadadeh, Mohammad Streamline diffusion methods for the Vlasov-Poisson equation. (French summary) 91d:65137
- Aziz, A. K. (with Liu, J.-L.) A Galerkin method for the forward-backward heat equation. 91j:65151
- Baker, Garth A. (with Jureidini, Wadi N.; Karakashian, Ohannes A.) Piecewise solenoidal vector fields and the Stokes problem. 91m:65246
- Benmansour, B. (with Ouazar, D.; Brebbia, C. A.) Solution of wave equation problems using BEM. (see 91h:00044)
- Berger, Harald A convergent finite element formulation for transonic flow. 91g:65204
- Bowers, Kenneth L. see McArthur, Kelly M.; et al., 91c:65061
- Brebbia, C. A. see Benmansour, B.; et al., (91h:00044)
- Cannon, John R. (with Yin, Hong Ming) Numerical solutions of some parabolic inverse problems. 91g:65205
- Chang, Song Kang Galerkin approximations for discrete-time quadratic controls of hyperbolic systems. 91m:65247
- Chavent, Guy (with Cockburn, Bernardo) The local projection P^0/P^1 -discontinuous-Galerkin finite element method for scalar conservation laws. (French summary) 91e:65114
- Chen, Ming Fei Error analysis of finite element methods for systems of one-dimensional first-order quasilinear hyperbolic equations. (Chinese. English summary) 91h:65133
- Childs, P. N. (with Morton, K. W.) Characteristic Galerkin methods for scalar conservation laws in one dimension. 91e:65115
- Choi, U Jin (with Kwak, Do Young) Almost sure convergence of Galerkin approximations for a heat equation with a random initial condition. 91e:65116
- Chou, So-Hsiang (with Li, Qian) The effect of numerical integration in finite element methods for nonlinear parabolic equations. 91h:65162
- Christie, I. see Fairweather, Graeme; et al., 91d:65138
- Cockburn, Bernardo see Chavent, Guy, 91e:65114
- Cowsar, Lawrence C. (with Dupont, Todd F.; Wheeler, Mary F.) A priori estimates for mixed finite element methods for the wave equation. 91h:65163
- Deineka, V. S. see Skopetskiĭ, V. V.; et al., 91h:65147
- Dougalis, Vassilios A. see Akrivis, Georgios D., (91h:00032)
- Dupont, Todd F. see Cowsar, Lawrence C.; et al., 91h:65163
- Evaevov, I. D. Nonconformal finite elements for a hyperbolic equation with a long memory. (Russian) 91h:65145
- Fairweather, Graeme (with Sanz-Serna, J. M.; Christie, I.) A stabilized Galerkin method for a third-order evolutionary problem. 91d:65138
- (with Saylor, Rick D.) The reformulation and numerical solution of certain nonclassical initial-boundary value problems. 91h:65164
- Flaherty, Joseph E. see Moore, Peter K., 91h:65146
- French, Donald A. (with Schaeffer, Jack W.) Continuous finite element methods which preserve energy properties for nonlinear problems. 91h:65165
- Gardner, G. A. see Gardner, L. R. T., 91m:65248
- Gardner, L. R. T. (with Gardner, G. A.) Solitary waves of the regularised long-wave equation. 91m:65248
- Huang, Ming You A Hamiltonian approximation to simulate solitary waves of the Korteweg-de Vries equation. 91m:65249
- Jackson, Dennis E. Error estimates for the semidiscrete finite-element approximation of a damped wave equation with a smoothing property. 91d:65139

- Johnson, Claes Adaptive finite element methods for diffusion and convection problems. 91h:65134
- Jureidini, Wadi N. see Baker, Garth A.; et al., 91m:65246
- Karakashian, Ohannes A. see Baker, Garth A.; et al., 91m:65246
- Keeling, Stephen L. Galerkin/Runge-Kutta discretizations for semilinear parabolic equations. 91d:65140
- Krol, M. S. On a Galerkin-averaging method for weakly nonlinear wave equations. 91a:65219
- Kwak, Do Young see Choi, U Jin, 91e:65116
- Li, Qian see Chou, So-Hsiang, 91h:65162
- Liu, J.-L. see Aziz, A. K., 91j:65151
- Lund, J. R. see McArthur, Kelly M.; et al., 91c:65061
- Makridakis, Ch. G. Cosine methods for a class of semilinear second-order wave equations. 91d:65141
- Marion, Martine (with Temam, Roger) Nonlinear Galerkin methods. 91a:65220
- McArthur, Kelly M. (with Bowers, Kenneth L.; Lund, J. R.) The sinc method in multiple space dimensions: model problems. 91c:65061
- Moore, Peter K. (with Flaherty, Joseph E.) A local refinement finite-element method for one-dimensional parabolic systems. 91h:65146
- Morris, J. L. see Tourigny, Yves; et al., 91m:65251
- Morton, K. W. see Childs, P. N., 91e:65115
- van Niekerk, A. see van Niekerk, F. D., 91e:65117
- van Niekerk, F. D. (with van Niekerk, A.) A Hermite rational approximation method for the Korteweg-de Vries equation. 91e:65117
- Ohnaka, Kohzaburo (with Oshimi, Hideki) Boundary element approach for identification of the external forces in the scalar wave equations. (Not in MR)
- Oshimi, Hideki see Ohnaka, Kohzaburo, (Not in MR)
- Ouazar, D. see Benmansour, B.; et al., (91h:00044)
- Ouyang, Hua Jiang A comparison of two computational criteria for the finite element algorithm for the heat conduction equation. (Chinese. English summary) (Not in MR)
- Peterson, Todd E. A note on the convergence of the discontinuous Galerkin method for a scalar hyperbolic equation. 91m:65250
- Sanz-Serna, J. M. see Fairweather, Graeme; et al., 91d:65138 and Tourigny, Yves; et al., 91m:65251
- Saylor, Rick D. see Fairweather, Graeme, 91h:65164
- Schaeffer, Jack W. see French, Donald A., 91h:65165
- Schroeder, William J. Geometric triangulations with application to automatic mesh generation. (see 91m:65002)
- Shayasyuk, S. G. see Skopetskiĭ, V. V.; et al., 91h:65147
- Skopetskiĭ, V. V. (with Deineka, V. S.; Shayasyuk, S. G.) Approximate discontinuous solutions of equations of parabolic type with lower derivatives. (Russian) 91h:65147
- Temam, Roger see Marion, Martine, 91a:65220
- Tourigny, Yves (with Sanz-Serna, J. M.; Morris, J. L.) Approximation of radial functions by piecewise polynomials on arbitrary grids. 91m:65251
- Wathen, A. J. On relaxation of Jacobi iteration for consistent and generalized mass matrices. (Not in MR)
- Wheeler, Mary F. see Cowsar, Lawrence C.; et al., 91h:65163
- Wood, W. L. ★ Practical time-stepping schemes. 91j:65152
- Xiang, Xin Min A finite element analysis for nonselfadjoint second-order semilinear hyperbolic equations with time independence. (Chinese. English summary) 91j:65153
- Yin, Hong Ming see Cannon, John R., 91g:65205
- Zhu, Jiang Finite element methods for nonlinear Sobolev equations. (Chinese. English summary) 91c:65062
- Items with secondary classifications in 65M60
- Akopyan, Yu. R. Variational-difference methods for solving parabolic equations. (Russian) (see 91h:65007)
- Angelini, J. J. (with Soize, C.) New approach to small transonic perturbations finite element numerical solving method. I. Numerical developments. 91c:76069a
- (with Soize, C.) New approach to small transonic perturbations finite element numerical solving method. II. Numerical applications. 91c:76069b
- Artemenko, A. L. see Skopetskiĭ, V. V.; et al., 91c:65073
- Bernardi, Christine (with Maday, Yvon; Sacchi Landriani, Giovanni) Nonconforming matching conditions for coupling spectral and finite element methods. 91d:65165
- Bleierman, Michael B. see Young, David P.; et al., 91h:76115
- Bussolletti, John E. see Young, David P.; et al., 91h:76115
- Caloz, Gabriel The model plasma problem: existence of a solution branch. 91g:35073
- Cockburn, Bernardo Quasimonotone schemes for scalar conservation laws. II, III. 91h:65107
- Dahle, Helge K. (with Espedal, Magne S.; Ewing, Richard E.; Severeid, Ove) Characteristic adaptive subdomain methods for reservoir flow problems. 91h:76127
- Deineka, V. S. see Skopetskiĭ, V. V.; et al., 91c:65073
- Demkowicz, L. see Oden, J. Tinsley; et al., 91m:76073
- DeVore, Ronald A. (with Lucier, Bradley J.) High order regularity for conservation laws. 91h:35155
- Espedal, Magne S. see Dahle, Helge K.; et al., 91h:76127
- Ewing, Richard E. see Dahle, Helge K.; et al., 91h:76127
- Fabiano, R. H. (with Ito, Kazufumi) Semigroup theory and numerical approximation for equations in linear viscoelasticity. 91h:45021
- Glowinski, Roland (with Kinton, W.; Wheeler, Mary F.) A mixed finite element formulation for the boundary controllability of the wave equation. 91h:65089
- Hughes, Thomas J. R. see Hulbert, Gregory M., 91h:73044
- Hulbert, Gregory M. (with Hughes, Thomas J. R.) Space-time finite element methods for second-order hyperbolic equations. 91h:73044
- Ingraham, R. L. A sequence of Galerkin approximations to the center manifold for a certain class of nonlinear partial differential equations. 91h:35045
- Ito, Kazufumi see Fabiano, R. H., 91h:45021
- Johnson, Claes Streamline diffusion finite element methods for incompressible and compressible fluid flow. 91h:76063
- Johnson, Forrester T. see Young, David P.; et al., 91h:76115

- Kevrekidis, Ioannis G. (with Nicolaenko, Basil; Scovel, James C.) Back in the saddle again: a computer assisted study of the Kuramoto-Sivashinsky equation. 91c:58095
- Kinton, W. see Glowinski, Roland; et al. 91c:65089
- Kirichenko, V. F. see Zhelezovskaya, L. A.; et al. 91c:65108
- Krysko, V. A. see Zhelezovskaya, L. A.; et al. 91c:65108
- Lacier, Bradley J. see DeVore, Ronald A. 91c:35155
- Maday, Yvon see Bernardi, Christine; et al. 91d:65165
- Melvin, Robin G. see Young, David P.; et al. 91c:76115
- Nicolaenko, Basil see Kevrekidis, Ioannis G.; et al. 91c:58095
- Oden, J. Tinsley (with Demkowicz, L.; Rachowicz, W.; Westermann, T. A.) A posteriori error analysis in finite elements: the element residual method for symmetrizable problems with applications to compressible Euler and Navier-Stokes equations. 91m:76073
- see also Strouboulli, T. 91a:76066
- Rachowicz, W. see Oden, J. Tinsley; et al. 91m:76073
- Sacchi Landriani, Giovanni see Bernardi, Christine; et al. 91d:65165
- Savareid, Ove see Dahle, Helge K.; et al. 91c:76127
- Salac, Jacques-Herve Finite element solutions of axisymmetric Euler equations for an incompressible and inviscid fluid. 91c:76075
- Samant, Satish S. see Young, David P.; et al. 91c:76115
- Scovel, James C. see Kevrekidis, Ioannis G.; et al. 91c:58095
- Skopetski, V. V. (with Deineka, V. S.; Artemenko, A. L.) Discretization by the finite element method of an equation of parabolic type with a discontinuous solution. (Russian) 91c:65073
- Soize, C. see Angelini, J. J. 91c:76069a and 91c:76069b
- Strouboulli, T. (with Oden, J. Tinsley) A posteriori error estimation of finite element approximations in fluid mechanics. 91a:76066
- Westermann, T. A. see Oden, J. Tinsley; et al. 91m:76073
- Wheeler, Mary F. see Glowinski, Roland; et al. 91c:65089
- Winnicki, I. Analysis of some selected numerical methods from the point of view of irregular initial conditions. (Russian and Polish summaries) 91c:76076
- Wu, Yuhua The discrete variational approach to the Euler-Lagrange equation. 91h:58027
- Young, David P. (with Melvin, Robin G.; Bietsman, Michael B.; Johnson, Forrester T.; Samant, Satish S.; Bussolotti, John E.) A locally refined rectangular grid finite element method: application to computational fluid dynamics and computational physics. 91c:76115
- Zhelezovskaya, L. A. (with Zhelezovskii, S. E.; Kirichenko, V. F.; Krysko, V. A.) The rate of convergence of the Bubnov-Galerkin method for hyperbolic equations. 91c:65108
- Zhelezovskii, S. E. see Zhelezovskaya, L. A.; et al. 91c:65108
- Zhu, Jiang Characteristic numerical methods for nonlinear RLW equations. (Chinese. English summary) 91g:65203

65M70 Spectral, collocation and related methods

- Dutt, Pravir Stability and convergence of spectral methods for hyperbolic initial-boundary value problems. 91c:65063
- Spectral methods for initial-boundary value problems—an alternative approach. 91c:65166
- de Frutos, J. (with Ortega, Tomás; Sanz-Serna, J. M.) A Hamiltonian explicit algorithm with spectral accuracy for the "good" Boussinesq system. 91c:65167
- Khanstein, Galina see Laik, Piret; et al. 91g:65206
- Laible, J. P. (with Pinder, George F.) Least squares collocation solution of differential equations on irregularly shaped domains using orthogonal meshes. (Not in MR)
- Laik, Piret (with Tamme, Enn; Khanstein, Galina) Solution of a parabolic equation by the spline-collocation method. (Russian. English summary) 91g:65206
- Ortega, Tomás see de Frutos, J.; et al. 91c:65167
- Pinder, George F. see Laible, J. P.; et al. (Not in MR)
- Sanz-Serna, J. M. see de Frutos, J.; et al. 91c:65167
- Schochet, Steven The rate of convergence of spectral-viscosity methods for periodic scalar conservation laws. 91g:65207
- Tamme, Enn see Laik, Piret; et al. 91g:65206

Items with secondary classifications in 65M70

- Akrivis, Georgios D. (with Dougalis, Vassilios A.) On a high-order accurate Galerkin-type full discretization of the Schrödinger equation. (see 91h:00032)
- Augenbaum, Jeffrey M. Multidomain adaptive pseudospectral methods for acoustic wave propagation in discontinuous media. (see 91h:76004)
- Chen, Kang Ping (with Joseph, Daniel D.) Application of the singular value decomposition to the numerical computation of the coefficients of amplitude equations and normal forms. 91m:65101
- Dougalis, Vassilios A. see Akrivis, Georgios D.; (91h:00032)
- Fornberg, Bengt High-order finite differences and the pseudospectral method on staggered grids. 91g:65196
- de Frutos, J. (with Sanz-Serna, J. M.) Split-step spectral schemes for nonlinear Dirac systems. 91f:81021
- Joseph, Daniel D. see Chen, Kang Ping. 91m:65101
- Paroni, D. Single and multidomain Chebyshev collocation methods for the Korteweg-de Vries equation. 91h:65184
- Quarteroni, Alfio Domain decomposition methods for systems of conservation laws: spectral collocation approximations. 91c:65156
- Sanz-Serna, J. M. see de Frutos, J.; 91f:81021
- Zhu, Jiang Characteristic numerical methods for nonlinear RLW equations. (Chinese. English summary) 91g:65203

65M99 None of the above, but in this section

- Antonov, Yu. S. A numerical algorithm for a model parabolic equation with variable direction with respect to time. (Russian) (see 91h:00026)
- Cooke, Charlie H. see McMoran, Andrew G. 91g:65212
- Cottet, Georges-Henri Large-time behavior of deterministic particle approximations to the Navier-Stokes equations. 91g:65208

- Daniilov, P. G. Numerical solution of a one-dimensional equation of parabolic type with nonstandard initial-boundary conditions. (Russian) 91d:65142
- Diaz, J. C. see Leaf, G. K.; et al. 91a:65221
- Fey, M. (with Jarausch, H.; Jeltsch, R.; Karmann, P.) On the interaction of Euler and ODE solvers when computing reactive gas flow. (see 91m:65002)
- Fitt, A. D. Mixed hyperbolic-elliptic systems in industrial problems. (see 91c:00031)
- Florchinger, Patrick (with Le Gland, François) Time-discretization of the Zakai equation for diffusion processes observed in correlated noise. 91j:65154
- Fomenko, A. V. Application of the d'Alembert method in numerical analysis. 91j:65155
- Friedrich, Volkmar (with Siedow, Norbert) Locally one-dimensional schemes for parabolic initial-boundary problems—a critical view. (see 91f:65004)
- Gréfe, A. Control of a three-dimensional grid in the numerical solution of parabolic differential equations. (Russian) (see 91f:65003)
- Hood, Kevin A numerical method for finding the ground states of one-dimensional systems. 91f:65155
- van der Houwen, P. J. (with Sommeijer, B. P.) Iterated θ -method for hyperbolic equations. 91g:65209
- Ikeda, Fumiaki see Yabe, Takashi; et al. 91f:65170
- Ishikawa, Takeo see Yabe, Takashi; et al. 91f:65170
- Jablonski, Z. (with Mazowiecki, G.) Erratum: "Solution of the first interior Fourier problem using spline functions" [Mat. Stos. 25 (1985), 111–127; MR 87a:65163]. (Polish) 91g:65210
- Jarausch, H. see Fey, M.; et al. (91m:65002)
- Jeltsch, R. see Fey, M.; et al. (91m:65002)
- Kadota, Yusaku see Yabe, Takashi; et al. 91f:65170
- Karmann, P. see Fey, M.; et al. (91m:65002)
- Kopriva, David A. Spectral multidomain methods for hyperbolic systems. (see 91c:00029)
- Korzeniowski, Andrzej A probabilistic approach to numerical solution of the nonlinear diffusion equation. 91m:65252
- Leaf, G. K. (with Minkoff, M.; Diaz, J. C.) Nested block factorization preconditioners for convective-diffusion problems in three dimensions. 91a:65221
- Le Gland, François see Florchinger, Patrick. 91j:65154
- Lin, Yanping see Wang, Shingmin. 91f:65157
- Lions, Pierre-Louis (with Souganidis, Panagiotis) Convergence of MUSCL type methods for scalar conservation laws. (French summary) 91f:65168
- Liu, Fa Wang Group explicit methods for parabolic equations of higher order. (Chinese. English summary) 91h:65148
- Mascagni, Michael The backward Euler method for numerical solution of the Hodgkin-Huxley equations of nerve conduction. 91g:65211
- Mazowiecki, G. see Jablonski, Z. 91g:65210
- McMoran, Andrew G. (with Cooke, Charlie H.) On higher-order asymptotic factorization of nonlinear operators. 91g:65212
- Minkoff, M. see Leaf, G. K.; et al. 91a:65221
- Miranker, Willard L. (with Winkler, Andrew) Path integral numerical methods for evolution equations. 91g:65213
- Perthame, Benoît Boltzmann type schemes for gas dynamics and the entropy property. (French summary) 91h:65135
- Pinchukov, V. I. Monotonization of a family of implicit schemes. (Russian) 91c:65118
- Price, W. G. see Twizell, E. H.; et al. 91f:65169
- Savijola, T. I. A numerical algorithm for solving the characteristic Cauchy problem for ultrahyperbolic equations. 91h:65114
- Schaefer, Mark J. A polynomial based iterative method for linear parabolic equations. 91h:65115
- Serdukova, S. I. Estimation of the "shadow" of additional boundary conditions for systems of difference equations with oblique characteristics of constant sign. 91h:65149
- Siedow, Norbert see Friedrich, Volkmar. (91f:65004)
- Siva Ram Murthy, C. Solving hyperbolic PDEs on hypercubes. (Not in MR)
- Smyrlis, Yiorgos Sokratis Existence and stability of stationary profiles of the LW scheme. 91d:65143
- Sommeijer, B. P. see van der Houwen, P. J. 91g:65209
- Souganidis, Panagiotis see Lions, Pierre-Louis. 91f:65168
- Stewart, Kris Avoiding stability-induced inefficiencies in BDF methods. (Not in MR)
- Sun, Yu Ping see Wu, Jiang Hang. 91j:65156
- Thompson, Kevin W. Time-dependent boundary conditions for hyperbolic systems. II. 91f:65156
- Twizell, E. H. (with Wang, Yigong; Price, W. G.) Chaos-free numerical solutions of reaction-diffusion equations. 91f:65169
- Vichnevetsky, Robert A quantum-like theory of wave propagation in periodic structures. 91d:65144
- Wang, Shingmin (with Lin, Yanping) A numerical method for the diffusion equation with nonlocal boundary specifications. 91f:65157
- Wang, Yigong see Twizell, E. H.; et al. 91f:65169
- Winkler, Andrew see Miranker, Willard L. 91g:65213
- Wong, Yau Shu see Xu, Shu Rong. 91f:65158
- Wu, Jiang Hang (with Sun, Yu Ping) An analytic method of fractional steps for the numerical solution to convection-dominated problems. 91j:65156
- Xu, Shu Rong (with Wong, Yau Shu) A class of second-order accurate schemes for hyperbolic conservation equations. (Chinese. English summary) 91f:65158
- Yabe, Takashi (with Ishikawa, Takeo; Kadota, Yusaku; Ikeda, Fumiaki) A multidimensional cubic-interpolated pseudoparticle (CIP) method without time splitting technique for hyperbolic equations. 91f:65170
- Yang, Huanan An artificial compression method for ENO schemes: the slope modification method. 91g:65214

Items with secondary classifications in 65M99

- Ablowitz, Mark J. (with Herbst, B. M.) On homoclinic structure and numerically induced chaos for the nonlinear Schrödinger equation. 91c:35022
- Belova, O. N. see Rusanov, V. V.; et al. 91h:76085
- Colella, Phillip Multidimensional upwind methods for hyperbolic conservation laws. 91c:76087

- Coron, F. (with Perthame, Benoît) Numerical passage from kinetic to fluid equations. (French summary) 91m:76097
- Degond, Pierre (with Mustieles, Francisco-José) A deterministic approximation of diffusion equations using particles. 91a:65010
- Ding, Hua² (with Zheng, Zhe Min; Xu, Shou Ze) A new approach to inverse problems of wave equations. 91h:65118
- Franco, J. M. A direct-integration method for the numerical solution of second-order hyperbolic equations. (Spanish) (see 91j:00015)
- Garbey, Marc (with Levine, David) Massively parallel computation of conservation laws. (Not in MR)
- Haws, LaDawn Symmetric Green's functions for certain hyperbolic problems. 91h:35148
- Heibig, Armand (with Serre, Denis) Une approche algébrique du problème de Riemann. (English summary) [An algebraic approach to the Riemann problem] 91h:35203
- Herbst, B. M. see Ahlowitz, Mark J., 91c:35022
- Higdon, Robert L. Radiation boundary conditions for elastic wave propagation. 91h:73017
- Jiang, Tao² A variable iteration method for a class of Cauchy problems for evolution equations. (Chinese. English summary) (Not in MR)
- Karlin, V. A. see Rusanov, V. V.; et al., 91b:76085
- Keeling, Stephen L. On Lipschitz continuity of nonlinear differential operators. 91b:65111
- Knauber, Peter (with Vessella, Sergio) Stability estimates for ill-posed Cauchy problems for parabolic equations. 91d:35222
- Laver, A. G. (with Sidenko, N. R.) On the calculation of the temperature field of a superconducting coil. (Russian) 91c:35114
- Lax, Melvin see Yudanin, B., 91m:76081
- Levine, David see Garbey, Marc, (Not in MR)
- Lian, Wen Yu Numerical computation of two-dimensional flow with shock waves—the PBLM method for two-dimensional flow. 91h:76123
- Lü, Tao (with Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting up method and its application to Navier-Stokes equations. (Not in MR)
- Majda, Andrew J. One perspective on open problems in multi-dimensional conservation laws. 91m:35142
- Ma, Ma Global classical solutions to initial-boundary value problems for the potential vorticity equation. 91b:36008
- Mustieles, Francisco-José see Degond, Pierre, 91a:65010
- Neittaanmäki, Pekka see Lü, Tao; et al., (Not in MR)
- Perthame, Benoît see Coron, F., 91m:76097
- Rasch, Philip J. (with Williamson, David L.) On shape-preserving interpolation and semi-Lagrangian transport. 91f:65020
- de Roos, André Marc Numerical methods for structured population models: the escalator boxcar train. 91h:92028a
- Errata: "Numerical methods for structured population models: the escalator boxcar train". 91h:92028b
- Rusanov, V. V. (with Belova, O. N.; Karlin, V. A.; Teryaev, S. E.) Some problems of the numerical solution of a problem on the supersonic flow of a viscous gas around blunt bodies. (Russian. English summary) 91h:76085
- Serre, Denis see Heibig, Armand, 91h:35203
- Sidenko, N. R. see Laver, A. G., 91c:35114
- Srumova, F. V. Calculation of the energy asymptotics for the solution of a system of stochastic evolution equations. 91g:65321
- Tadmor, Eltan Shock capturing by the spectral viscosity method. 91g:35174
- Tai, Xue Cheng see Lü, Tao; et al., (Not in MR)
- Temple, Blake Sup-norm estimates in Glimm's method. 91a:35109
- Teryaev, S. E. see Rusanov, V. V.; et al., 91b:76085
- Vessella, Sergio see Knauber, Peter, 91d:35222
- Wang, Jing Hua Remarks on bounds on the discrepancy of approximate solutions constructed by Godunov's scheme. 91c:76093
- Williamson, David L. see Rasch, Philip J., 91f:65020
- Womble, David E. A front-tracking method for multiphase free boundary problems. 91h:65100
- A time-stepping algorithm for parallel computers. 91g:65325
- Xu, Shou Ze see Ding, Hua²; et al., 91h:65118
- Yang, Yisong Convergence of the pseudospectral method for the Ginzburg-Landau equation. 91d:35181
- Yudanin, B. (with Lax, Melvin) Post adaptation for a numerical solution of the spherically-symmetric Riemann problem. 91m:76081
- Zhang, Tong (with Zheng, Yu Xi) Conjecture on the structure of solutions of the Riemann problem for two-dimensional gas dynamics systems. 91d:35134
- Zheng, Yu Xi see Zhang, Tong, 91d:35134
- Zheng, Zhe Min see Ding, Hua²; et al., 91h:65118

65Nxx Partial differential equations, boundary value problems

Items with secondary classifications in 65Nxx

- (Bézier, P.) see Farin, Gerald, 91b:65036
- (Boehm, Wolfgang) see Farin, Gerald, 91b:65036
- Caveller, C. (with Schulkes, R. M. S. M.) Some numerical methods for the computation of capillary free boundaries governed by the Navier-Stokes equations. 91m:76082
- Farin, Gerald ★ Curves and surfaces for computer aided geometric design. 91b:65036
- (Flaherty, Joseph E.) see Adaptive methods for partial differential equations, 91m:65002
- (Hayes, Linda J.) see Iterative methods for large linear systems, 91f:65071
- (Kinsaid, David R.) see Iterative methods for large linear systems, 91f:65071
- Oden, J. Tinsley Progress in adaptive methods in computational fluid dynamics. (see 91m:65002)
- (Paslow, Pamela J.) see Adaptive methods for partial differential equations, 91m:65002
- Schulkes, R. M. S. M. see Caveller, C., 91m:76082
- (Shephard, Mark S.) see Adaptive methods for partial differential equations, 91m:65002
- Thomé, Vidar Finite difference methods for linear parabolic equations. (see 91f:65001)

(Vasilakis, John D.) see Adaptive methods for partial differential equations, 91m:65002

Windisch, Günther ★ M-matrices in numerical analysis. 91h:65042

Items listed otherwise than by author

Adaptive methods for partial differential equations ★ Adaptive methods for partial differential equations. 91m:65002

Austin, TX ★ Iterative methods for large linear systems. 91f:65071

Conference:

Iterative Methods for Large Linear Systems ★ Iterative methods for large linear systems. 91f:65071

Iterative methods for large linear systems ★ Iterative methods for large linear systems. 91f:65071

Troy, NY ★ Adaptive methods for partial differential equations. 91m:65002

Workshop:

Adaptive Computational Methods for Partial Differential Equations ★ Adaptive methods for partial differential equations. 91m:65002

65N05 Derivation of finite difference approximations (1985)

- Bhattacharya, M. C. Finite-difference solutions of partial differential equations. (Not in MR)
- Karimberdieva, S. (with Rakhimova, F.) Numerical methods for solving a system of three-dimensional differential equations. (Russian) (Not in MR)
- Mazhukia, V. I. (with Takhoeva, L. Yu.) Principles for constructing grids that dynamically adapt to the solution in one-dimensional boundary value problems. (Russian. English summary) (Not in MR)
- Rakhimova, F. see Karimberdieva, S., (Not in MR)
- Takhoeva, L. Yu. see Mazhukia, V. I., (Not in MR)

65N06 Finite difference methods

- Abrashin, V. N. (with Yakubeny, A. N.) Efficient schemes with explicit identification of a front for multidimensional problems with free boundaries. I. 91h:65151
- (with Minchenkov, Yu. V.) Efficient difference schemes for solving multidimensional problems in mathematical physics in a domain of arbitrary geometry. I. (Russian. English summary) 91h:65150
- (with Minchenkov, Yu. V.) Efficient difference schemes for solving multidimensional problems in mathematical physics in a domain of arbitrary geometry. II. (Russian. English summary) 91m:65253
- Arnold, R. J. see Noye, John, 91g:65220
- Basik, V. A. On a modification of the complete reduction method for difference boundary value problems with variable coefficients. (Russian) 91g:65215
- Boglaev, I. P. Numerical solution of a quasilinear parabolic equation with a boundary layer. (Russian) 91j:65157
- Bykadorova, O. V. (with Kuznetsov, B. G.) Investigation of a difference problem for a model of a baroclinic ocean. (Russian) (Not in MR)
- Cao, Xiong A finite difference method for the third boundary problem for a system of Schrödinger equations. 91g:65216
- Carmignani, M. (with Tortorici Macaluso, A.) PDE: finite-difference schemes with two time levels. (Italian. English summary) 91h:65152
- Chen, Guang Nan A kind of difference scheme for one-dimensional parabolic system. 91g:65217
- Dawson, Clint N. (with Du, Qiang; Dupont, Todd F.) A finite difference domain decomposition algorithm for numerical solution of the heat equation. 91m:65254
- Drémov, O. A. (with Koldoba, A. V.; Poveshchenko, Yu. A.) A study of difference schemes for the method of support operators for the Poisson equation on nonregular grids. (Russian) 91j:65158
- Du, Qiang see Dawson, Clint N.; et al., 91m:65254
- Dupont, Todd F. see Dawson, Clint N.; et al., 91m:65254
- Ewing, Richard E. (with Lazarov, Raicho D.; Vassilevski, P. S.) Finite difference schemes on grids with local refinement in time and space for parabolic problems. I. Derivation, stability, and error analysis. (German summary) 91m:65255
- (with Lazarov, Raicho D.; Vassilevski, P. S.) Local refinement techniques for elliptic problems on cell-centered grids. I. Error analysis. 91m:65256
- Feodoritova, O. B. see Zhukov, V. T., 91a:65223
- Gavriluk, I. P. (with Makarov, L. V.) A difference method for solving a class of boundary value problems in a generalized formulation for a semiband. (Russian) 91a:65222
- Georg, Kurt (with Zachmann, David) Nonlinear convection diffusion equations and Newton-like methods. (see 91c:65005)
- Goder, Kalin see Lazarov, Raicho D., 91f:65159
- Guo, Lijia (with Murio, D. A.; Roth, C. C.) A mollified space marching finite differences algorithm for the inverse heat conduction problem with slab symmetry. 91g:65218
- Heinrich, Bernd ★ Finite difference methods on irregular networks. 91d:65145
- Nonclassical finite difference methods on irregular networks for elliptic problems. (see 91h:00032)
- Jovanović, Boško S. ★ Numeričke metode rešavanja parcijalnih diferencijalnih jednačina. (Serbo-Croatian) [Numerical methods for solving partial differential equations] 91h:65153
- Approximation of generalized solutions of boundary value problems by means of finite differences. (Russian) (see 91k:65007)
- Katauskis, Pranas A difference scheme for a problem of the type of magnetization of a medium composed of single-domain particles in a ring. (Russian. English and Lithuanian summaries) 91m:65257
- Kaweck, Roman The finite-difference method for a second-order nonlinear parabolic equation in two space variables. (Polish. English summary) 91g:65219
- Koldoba, A. V. (with Kuznetsov, O. A.; Poveshchenko, Yu. A.) A study of the convergence of difference schemes for the method of support operators for the Poisson equation on generalized solutions. (Russian) 91j:65159
- see also Drémov, O. A.; et al., 91j:65158

- Kompaniets, L. A. Formulation of additional boundary conditions for difference schemes that approximate transport equations. (Russian) (see 91j:00011)
- Kudryavtsev, A. N. (with Solov'ev, A. S.) An adaptive numerical method for solving problems with large gradients. (Russian) 91d:65146
- Kuznetsov, B. G. see Bykadorova, O. V., (Not in MR)
- Kuznetsov, O. A. see Koldoba, A. V.; et al., 91j:65159
- Lazarov, Raicho D. (with Godev, Kalin) Error estimates of finite difference schemes for parabolic equations with weak solutions. (Russian summary) 91f:65159
- see also Ewing, Richard E.; et al., 91m:65255 and 91m:65256
- Liang, Dong $W^{1,p}$ - and L_2 -error estimates for generalized difference methods for second order elliptic equations. 91m:65258
- Liu, Ping A uniformly convergent difference scheme for solving semilinear singularly perturbed elliptic equations in a domain with curved boundary. (Chinese. English summary) 91h:65154
- Liu, Ya Ping see Zhao, Guo Jun, 91g:65223
- Makarov, L. V. see Gavriluk, I. P., 91a:65222
- Mickens, Ronald E. Construction of stable explicit finite-difference schemes for Schrödinger type differential equations. (see 91h:76002)
- Minchenko, Yu. V. see Abrashin, V. N., 91h:65150 and 91m:65253
- Murio, D. A. see Guo, Lijia; et al., 91g:65218
- Noye, John (with Arnold, R. J.) Accurate finite difference approximations for the Neumann condition on a curved boundary. 91g:65220
- Oganesyan, L. A. (with Oganesyan, N. V.) The projection-difference method for solving the first boundary value problem for a semi-elliptic equation in a curvilinear domain. (Russian. Armenian summary) 91f:65171
- Oganesyan, N. V. see Oganesyan, L. A., 91f:65171
- Patricio, F. Implicit methods for diffusion-convection equations. 91d:65147
- Pfeifer, Eckehard On asymptotic expansions of global errors. (Polish. English summary) 91g:65221
- Pirozzi, M. A. On boundary conditions for the numerical solution of fluid dynamic problems. 91m:65259
- Poveshchenko, Yu. A. see Drémov, O. A.; et al., 91j:65158 and Koldoba, A. V.; et al., 91j:65159
- Radunović, Desanka The point source function of the mixed difference problem in the half-plane. (Serbo-Croatian summary) 91g:65222
- Rigal, Alain Numerical analysis of three-time-level finite difference schemes for unsteady diffusion-convection problems. 91h:65136
- Roth, C. C. see Guo, Lijia; et al., 91g:65218
- Ryaben'kiĭ, V. S. Conditions for complete absorption. (Russian) 91j:65160
- Sever, Michael Discretization of time-dependent continuity equations. 91j:65161
- Shishkin, G. I. A difference scheme for a singularly perturbed equation of parabolic type with discontinuous coefficients and concentrated factors. 91h:65155
- Approximation of solutions of boundary value problems with a parabolic boundary layer. (Russian) (see 91h:65007)
- Shokin, Yu. I. (with Urusov, A. I.) Differential representation of difference schemes with time-dependent coefficients. 91h:65156
- Solov'ev, A. S. see Kudryavtsev, A. N., 91d:65146
- Stuart, Andrew Linear instability implies spurious periodic solutions. 91e:65119
- Sultanov, R. K. A method for constructing difference schemes for an elliptic equation with a small parameter multiplying the highest derivative. (Russian) (see 91j:00012)
- Tortorelli Macaluso, A. see Carmignani, M., 91h:65152
- Urusov, A. I. see Shokin, Yu. I., 91h:65156
- Vassilevski, P. S. see Ewing, Richard E.; et al., 91m:65255 and 91m:65256
- Vyaznikov, K. V. Quasimonotone difference schemes of an increased order of approximation on nonuniform grids. (Russian. English summary) 91h:65157
- Yakubenko, A. N. see Abrashin, V. N., 91h:65151
- Zachmann, David see Georg, Kurt, (91e:65005)
- Zhao, Guo Jun (with Liu, Ya Ping) Application of finite differences with an irregular mesh to three-dimensional field calculations. (Chinese. English summary) 91g:65223
- Zhukov, V. T. (with Feodoritova, O. B.) Difference schemes for the heat equation based on local mean-square approximations. (Russian) 91a:65223
- Items with secondary classifications in 65N06
- Ashyralyev, A. O. On uniform difference schemes of a higher order of approximation for elliptical equations with a small parameter. 91d:65105
- Bagnov, B. M. Identification of singularities for problems with a boundary layer. (Russian) 91c:35009
- Bratts, Vincent F. see Shayya, Walid H.; et al., (Not in MR)
- Chen, Zhong Ying A generalized difference method for equations of heat conduction. (Chinese. English summary) 91c:80005
- Dražić, Milan Solving diffusion equation with nonsmooth data. (Slovenian summary) 91e:65122
- El-Namouy, A. R. M. On a mixed boundary value problem for elliptic equations. (Arabic summary) 91m:65262
- Gill, Doron (with Tadmor, Eitan) An $O(N^2)$ method for computing the eigensystem of $N \times N$ symmetric tridiagonal matrices by the divide and conquer approach. 91d:65058
- Ichinose, Kenichi see Tokunaga, Hiroshi; et al., (Not in MR)
- Kamont, Zdzisław (with Kwapisz, Marian) Difference methods for nonlinear parabolic differential-functional systems with initial boundary conditions of the Neumann type. 91g:65279
- Korshitsyn, V. A. Axisymmetric difference operators in an orthogonal coordinate system. 91e:76092
- Kwapisz, Marian see Kamont, Zdzisław, 91g:65279
- Liniger, Werner A quasi-direct fast Poisson solver for general regions. 91d:65159
- Matsokin, A. M. (with Nepomnyashchikh, S. V.) Equivalent norms in the space of traces of difference functions. (Russian) 91h:46067
- Moklin, Yu. I. An efficient method for calculating the emission current density in vacuum lines. (Russian) 91g:35222
- Nepomnyashchikh, S. V. see Matsokin, A. M., 91h:46067

- Popa, Constantin On smoothing properties of SOR relaxation for algebraic multigrid method. 91a:65085
- Popov, A. V. ★ Исследование конечно-разностного метода для системы уравнений одномерного движения вязкого теплопроводящего газа в переменных Эйлера. (Russian) [Investigation of the finite-difference method for the system of equations of one-dimensional motion of a viscous heat-conducting gas in Euler variables] 91e:76082
- Satofuka, Nobuyuki see Tokunaga, Hiroshi; et al., (Not in MR)
- Segerlind, Larry J. see Shayya, Walid H.; et al., (Not in MR)
- Shayya, Walid H. (with Segerlind, Larry J.; Bratts, Vincent F.) Optimization analysis of the four-level-time schemes. (Not in MR)
- Tadmor, Eitan see Gill, Doron, 91d:65058
- Temam, Roger Inertial manifolds and multigrid methods. 91e:65132
- Thuné, Michael A partitioning strategy for explicit difference methods. 91h:65172
- Tokunaga, Hiroshi (with Ichinose, Kenichi; Satofuka, Nobuyuki) Numerical simulation of instability on plane Poiseuille flow using eighth order accurate method of lines. (Not in MR)
- Wang, Shen Lin Variational principles and H^1 error estimates of generalized difference methods for a class of nonlinear parabolic equations. (Chinese. English summary) 91d:65178
- White, R. E. Multisplitting of a symmetric positive definite matrix. 91h:65064
- Zhang, Lin Bo A second-order upwinding finite difference scheme for the steady Navier-Stokes equations in primitive variables in a driven cavity with a multigrid solver. (French summary) 91d:76062
- Zhang, Mao Xiang A numerical method for solving time-dependent field problems. (Chinese) 91f:65212

65N10 Stability and convergence of difference methods (1985)

- Katauskis, Pranas Convergence of a difference scheme for a problem of the type of magnetization of a medium consisting of one-domain particles. (Russian. English and Lithuanian summaries) (Not in MR)
- Kiseleva, G. V. see Mal'tsev, A. P.; et al., (91h:34004)
- Mal'tsev, A. P. (with Kiseleva, G. V.; Yushina, T. I.) Convergence and stability of certain finite-difference methods for the heat equation with nonlinear boundary conditions. (Russian) (see 91h:34004)
- Yushina, T. I. see Mal'tsev, A. P.; et al., (91h:34004)

65N12 Stability and convergence of numerical methods

- Alaev, R. D. see Blokhin, A. M., 91h:65158
- Babuka, Ivo Adaptive mathematical modeling. (see 91m:65002)
- Bakhvalov, N. S. (with Kobel'kov, G. M.; Chizhonkov, E. V.) ★ Итерационный метод решения эллиптических задач со скоростью сходимости, не зависящей от разброса коэффициентов. (Russian) [An iterative method for solving elliptic problems with a rate of convergence that does not depend on the range of coefficients] 91f:65160
- Berikelashvili, G. K. On the convergence in W_2^2 of the difference solution of the Dirichlet problem. (Russian) 91e:65120
- Blokhin, A. M. (with Druzhinin, I. Yu.) The influence of supplementary boundary conditions on the stability of a difference scheme. (Russian) 91h:65116
- (with Alaev, R. D.) A study of the stability of an explicit difference scheme. 91h:65158
- Bratts, Vincent F. see Shayya, Walid H.; et al., (Not in MR)
- Bube, Kenneth P. see Strikwerda, John C.; et al., 91d:65155
- Chan, Tony F. see Kuo, C.-C. Jay, 91g:65225
- Chang, Sin Chung On the validity of the modified equation approach to the stability analysis of finite-difference methods. 91e:65121
- Chen, Chuan Dan Convergence rate of the G. K. S. stable difference approximation in hyperbolic double-boundary value problems. (Chinese. English summary) 91d:65148
- Chizhonkov, E. V. see Bakhvalov, N. S.; et al., 91f:65160
- Chow, S.-S. (with Lazarov, Raicho D.) Superconvergence analysis of flux computations for nonlinear problems. 91d:65149
- Craig, I. J. D. (with Sneyd, A. D.) An alternating direction implicit scheme for parabolic systems of partial differential equations. 91g:65224
- Denisov, A. A. (with Koldoba, A. V.; Poveshchenko, Yu. A.) Convergence of difference schemes of the method of support operators for the axisymmetric Poisson equation on generalized solutions. (Russian) 91m:65260
- Dražić, Milan Solving diffusion equation with nonsmooth data. (Slovenian summary) 91e:65122
- Druzhinin, I. Yu. see Blokhin, A. M., 91h:65116
- Fang, Bao Rong Solving convective diffusion equations by a finite analytic method in local coordinates. (Chinese. English summary) 91d:65150
- Fröhner, Michael Numerical methods for diffusion-convection equations. (see 91e:00021)
- Funaro, Daniele Convergence analysis for pseudospectral multidomain approximations of linear advection equations. 91d:65151
- Furletov, D. G. see Ionkin, N. I., 91j:65162
- Goodman, Jonathan (with Hou, Thomas Y.; Lowengrub, John S.) Convergence of the point vortex method for the 2-D Euler equations. 91d:65152
- Gottlieb, David (with Tadmor, Eitan) The CFL condition for spectral approximations to hyperbolic initial-boundary value problems. 91h:65137
- Hou, Thomas Y. see Goodman, Jonathan; et al., 91d:65152
- Huang, Hong Ci see Mu, Mo, 91d:65154
- Ifin, V. P. (with Popov, V. N.) Convergence of a difference solution for a one-dimensional problem of crystallization of metal in a mold. (Russian) (Not in MR)
- Ionkin, N. I. (with Furletov, D. G.) Uniform stability of difference schemes for a nonclassical boundary value problem with variable coefficients. 91j:65162
- Jensen, Søren S. (with Vogelius, Michael) Divergence stability in connection with the p -version of the finite element method. (French summary) 91m:65261
- Jovanović, Boško S. Sur la convergence des schémas aux différences finies pour des équations elliptiques du quatrième ordre avec des solutions irrégulières. [On the convergence of finite-difference schemes for fourth-order elliptic equations with irregular solutions] 91f:65161

- Kobel'kov, G. M. (with Orlova, N. B.) A fast method for solving the Stokes problem. 91f:65162
 — see also Bakhtinov, N. S.; et al., 91f:65160
- Koldoba, A. V. see Denisov, A. A.; et al., 91m:65260
- Kuo, C.-C. Jay (with Chan, Tony F.) Two-color Fourier analysis of iterative algorithms for elliptic problems with red/black ordering. 91g:65225
- Lardner, R. W. Stability of the numerical solution of a parabolic system with integral subsidiary conditions. 91d:65153
- Lazarov, Raicho D. see Chow, S.-S., 91d:65149
- Lin, Qun see Neittaanmäki, Pekka, 91f:65172
- Lions, Pierre-Louis On the Schwarz alternating method. III. A variant for nonoverlapping subdomains. 91g:65226
- Lowengrub, John S. see Goodman, Jonathan; et al., 91d:65152
- Lu, Bai Nian Finite difference schemes for a class of systems of generalized nonselfadjoint and nonlinear Schrödinger equations. (Chinese. English summary) 91c:65064
- Mao-Gallie, Sylvie Traitement de conditions aux limites dans les méthodes particulières. (English summary) [Treatment of boundary conditions in particle methods] 91h:65117
- Matus, P. P. Accuracy of difference schemes in the uniform metric. (Russian. English summary) 91c:65065
- Ma, Mo (with Huang, Hong Ci) A new measure of numerical stability for discretized systems of boundary value problems. 91d:65154
- Neittaanmäki, Pekka (with Lin, Qun) Acceleration of the convergence in finite difference method by predictor-corrector and splitting extrapolation methods. 91f:65172
- Novichenko, V. N. see Voitsekhovskii, S. A., 91a:65224
- Oganesyan, N. V. Solution of the first boundary value problem for a model semi-elliptic equation by the projection-difference method. (Russian. English and Armenian summaries) 91c:65066
- Orlova, N. B. see Kobel'kov, G. M., 91f:65162
- Pao, C. V. Convergence of coupled systems of nonlinear finite difference elliptic equations. 91f:65163
- Popov, V. N. see Ilin, V. P., (Not in MR)
- Povshchenko, Yu. A. see Denisov, A. A.; et al., 91m:65260
- Segerlind, Larry J. see Shayya, Walid H.; et al., (Not in MR)
- Shayya, Walid H. (with Segerlind, Larry J.; Bralts, Vincent F.) Optimization analysis of the four-level-time schemes. (Not in MR)
- Shinkarenko, G. A. see Zubov, V. M., (Not in MR)
- Sneyd, A. D. see Craig, I. J. D., 91g:65224
- Strikwerda, John C. (with Wade, Bruce A.; Bube, Kenneth P.) Regularity estimates up to the boundary for elliptic systems of difference equations. 91d:65155
- Tadmor, Eltan see Gottlieb, David, 91h:65137
- Vogelius, Michael see Jensen, Søren S., 91m:65261
- Voitsekhovskii, S. A. (with Novichenko, V. N.) Estimates for the rate of convergence of difference schemes of improved accuracy for elliptic equations with a mixed derivative. (Russian) 91a:65224
- Wade, Bruce A. see Strikwerda, John C.; et al., 91d:65155
- Wittum, Gabriel Multi-grid methods for Stokes and Navier-Stokes equations. Transforming smoothers: algorithms and numerical results. 91a:65225
- On the convergence of multi-grid methods with transforming smoothers. Theory with applications to the Navier-Stokes equations. 91d:65156
- Zubov, V. M. (with Shinkarenko, G. A.) Convergence of the regularization method for a boundary value problem for the Navier-Stokes equations. (Ukrainian. Russian summary) (Not in MR)
- Items with secondary classifications in 65N12
- Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Carmignani, M. (with Tortorici Macaluso, A.) PDE: finite-difference schemes with two time levels. (Italian. English summary) 91h:65152
- Gasilov, V. A. (with Maslyankin, V. I.; Simonovich, I. P.) Some properties of differential and difference equations of quasi-gas-dynamic type. (Russian) 91c:76089
- Gladkii, A. V. Stability of difference schemes for wave equations. (Russian. English summary) 91c:65059
- Hayakawa, Kantaro (with Iso, Yuusuke) High-order uniform convergence estimation of boundary solutions for Laplace's equation. 91m:65288
- Herter, Rainer Einführung in Mehrgitterverfahren. [Introduction to multigrid methods] 91c:65076
- Iso, Yuusuke see Hayakawa, Kantaro, 91m:65288
- Jerome, Joseph W. see Kerkhove, Thomas, 91g:65241
- Jovanović, Boško S. ★ Numeričke metode relavanja parcijalnih diferencijalnih jednačina. (Serbo-Croatian) [Numerical methods for solving partial differential equations] 91h:65153
- Kalinin, V. M. see Voitsekhovskii, S. A., 91c:73086
- Kaweck, Roman The finite-difference method for a second-order nonlinear parabolic equation in two space variables. (Polish. English summary) 91g:65219
- Kerkhove, Thomas (with Jerome, Joseph W.) L_∞ stability of finite element approximations to elliptic gradient equations. 91g:65241
- Korman, Philip On computation of solutions of elliptic systems. 91k:65139
- Křížek, Michal (with Neittaanmäki, Pekka) On $O(h^4)$ -superconvergence of piecewise bilinear FE-approximations. (Portuguese summary) 91g:65242
- MacCamy, Richard C. see Bielak, J., 91m:65270
- Makarov, Vladimir Leonidovich On a priori estimates of difference schemes giving an account of the boundary effect. 91a:65198
- Maslyankin, V. I. see Gasilov, V. A.; et al., 91c:76089
- Morozova, M. V. Numerical solution of a problem of sorption dynamics. (Russian) 91m:82133
- Neittaanmäki, Pekka see Křížek, Michal, 91g:65242
- van Niekerk, A. (with van Niekerk, F. D.) An explicit finite element method for convection-diffusion equations using rational basis functions. 91d:65174
- van Niekerk, F. D. see van Niekerk, A., 91d:65174
- Pirozzi, M. A. On boundary conditions for the numerical solution of fluid dynamic problems. 91m:65259
- Plyasunova, A. V. Convergence of the collocation-difference method for linear parabolic equations. I. Local approximation. (Russian) 91f:65188
- Ringhofer, Christian A spectral method for the numerical simulation of quantum tunneling phenomena. 91c:65074
- Sacchi Landriani, Giovanni (with Vandeven, Hervé) Error estimates for the spectral approximation of the nonstationary Stokes problem. 91m:65285
- Simonovich, I. P. see Gasilov, V. A.; et al., 91c:76089
- Stenberg, Rolf A technique for analysing finite element methods for viscous incompressible flow. 91k:76112
- Tortorici Macaluso, A. see Carmignani, M., 91h:65152
- Tourigny, Yves Product approximation for nonlinear Klein-Gordon equations. 91j:65167
- Vandeven, Hervé see Sacchi Landriani, Giovanni, 91m:65285
- Voitsekhovskii, S. A. (with Kalinin, V. M.) An estimate for the rate of convergence in W_2^1 -norm of the projection-difference scheme for the first boundary value problem in elasticity theory in the anisotropic case. (Russian) 91c:73086
- White, L. W. Estimation of elastic parameters in a nonlinear elliptic model of a plate. 91m:73049
- Zheng, Quan¹ A characteristic finite element method for solving Euler equations. (Chinese. English summary) 91f:65186
- 65N15 Error bounds
- Bachmann, Peggy L. see Shephard, Mark S.; et al., (91m:65002)
- Cannon, John R. (with Lin, Yanping) A priori L^2 error estimates for finite-element methods for nonlinear diffusion equations with memory. 91h:65118
- Collatz, Lothar Approximation von Eckensingularitäten bei Randwertaufgaben. (English summary) [Approximation of singularities at corners in boundary value problems] 91g:65227
- El-Namouny, A. R. M. On a mixed boundary value problem for elliptic equations. (Arabic summary) 91m:65262
- Ivanaukas, Feliksas The splitting method for solving a system of nonstationary nonlinear equations of Schrödinger type. 91d:65157
- Katsurada, Masashi Asymptotic error analysis of the charge simulation method in a Jordan region with an analytic boundary. 91m:65263
- Kellogg, R. Bruce see Vanaja, V., 91d:65158
- Lin, Yanping see Cannon, John R., 91h:65118
- Niu, Qingxiang see Shephard, Mark S.; et al., (91m:65002)
- Repyakh, V. V. Error analysis of the method of approximate superelements. (Russian) 91m:65264
- Shephard, Mark S. (with Niu, Qingxiang; Bachmann, Peggy L.) Some results using stress projectors for error indication and estimation. (see 91m:65002)
- Vanaja, V. (with Kellogg, R. Bruce) Iterative methods for a forward-backward heat equation. 91d:65158
- Items with secondary classifications in 65N15
- Almsworth, M. see Zienkiewicz, O. C.; et al., (91m:65002)
- Ames, William F. Optimal numerical algorithms. 91m:65237
- Axelsson, Owe (with Kolotilina, L. Yu.) Monotonicity and discretization error estimates. 91k:65072
- Baranger, Jacques (with El Amri, Hassan) Estimateurs a posteriori d'erreur pour le calcul adaptatif d'écoulements quasi-newtoniens. (English summary) [A posteriori error estimates for the adaptive computation of quasi-Newtonian flows] 91m:76070
- Bourlard, Maryse (with Dauge, Monique; Nicaise, Serge) Error estimates on the coefficients obtained by the singular function method. 91m:65271
- Bramble, James H. (with Xu, Jinchao) Some estimates for a weighted L^2 projection. 91k:65140
- Craig, A. W. see Zienkiewicz, O. C.; et al., (91m:65002)
- Dauge, Monique see Bourlard, Maryse; et al., 91m:65271
- Deng, Qing Ping Error estimates for a nonconforming plate element. (Chinese. English summary) 91k:73100
- E, Wei Nan (with Mu, Mo; Huang, Hong Ci) A posteriori error estimates in finite element methods. (Chinese. English summary) 91d:65171
- El Amri, Hassan see Baranger, Jacques, 91m:76070
- Eriksson, Kenneth (with Johnson, Claes) Adaptive finite element methods for parabolic problems. I. A linear model problem. 91m:65274
- Ewing, Richard E. (with Lazarov, Raicho D.; Vassilevski, P. S.) Finite difference schemes on grids with local refinement in time and space for parabolic problems. I. Derivation, stability, and error analysis. (German summary) 91m:65255
- (with Lazarov, Raicho D.; Vassilevski, P. S.) Local refinement techniques for elliptic problems on cell-centered grids. I. Error analysis. 91m:65256
- Huang, Hong Ci see E, Wei Nan; et al., 91d:65171
- Johnson, Claes see Eriksson, Kenneth, 91m:65274
- Kolotilina, L. Yu. see Axelsson, Owe, 91k:65072
- Lazarov, Raicho D. see Ewing, Richard E.; et al., 91m:65255 and 91m:65256
- Liang, Dong $W^{1,p}$ - and L_2 -error estimates for generalized difference methods for second order elliptic equations. 91m:65258
- Lohéac, Jean-Pierre An artificial boundary condition for an advection-diffusion equation. 91m:35104
- Mu, Mo see E, Wei Nan; et al., 91d:65171
- Nicaise, Serge see Bourlard, Maryse; et al., 91m:65271
- Nochetto, Ricardo H. (with Paolini, M.; Verdi, C.) Local mesh refinements for two-phase Stefan problems in two space variables. 91h:80019
- Paolini, M. see Nochetto, Ricardo H.; et al., 91h:80019
- Sever, Michael Discretization of time-dependent continuity equations. 91j:65161
- Vassilevski, P. S. see Ewing, Richard E.; et al., 91m:65255 and 91m:65256
- Verdi, C. see Nochetto, Ricardo H.; et al., 91h:80019
- Weisz, Juraj A posteriori error estimate of approximate solutions to a mildly nonlinear elliptic boundary value problem. 91g:35119

Xu, Jinchao *see* Bramble, James H., 91k:65140
 Zhu, J. Z. *see* Zienkiewicz, O. C.; et al., (91m:65002)
 Zienkiewicz, O. C. (with Zhu, J. Z.; Craig, A. W.; Ainsworth, M.) Simple and practical error estimation and adaptivity: h and h - p version procedures. (see 91m:65002)

65N20 Solution of difference equations [see also 65F10] (1985)

McKay, Steven M. (with Thomas, J. W.) Application of the fast adaptive composite grid method to nonlinear partial differential equations. (see 91e:65005)
 Thomas, J. W. *see* McKay, Steven M., (91e:65005)

65N22 Solution of discretized equations [see also 65Fxx, 65Hxx]

Birkhoff, Garrett (with Lynch, Robert E.) Some current questions on solving linear elliptic problems. 91g:65228
 Börgers, Christoph A triangulation algorithm for fast elliptic solvers based on domain imbedding. 91g:65229
 Bramble, James H. (with Pasciak, Joseph E.; Xu, Jinchao) The analysis of multigrid algorithms with nonnested spaces or noninherited quadratic forms. 91h:65159
 Chan, Tony F. Fourier analysis of relaxed incomplete factorization preconditioners. 91k:65138
 Faber, V. (with Manteuffel, Thomas A.; Parter, Seymour V.) On the theory of equivalent operators and application to the numerical solution of uniformly elliptic partial differential equations. 91f:65164
 Felgenhauer, Andreas On the isotonicity of iterative difference schemes for elliptic problems. 91c:65067
 Khor, K. E. A factorization-related method for elliptic partial differential equations with iterative improvement. 91i:65173
 Kirsten, Harry Über die Effektivität von Optimierungsverfahren zur numerischen Lösung elliptischer Variationsungleichungen. [On the efficiency of optimization methods for the numerical solution of elliptic variational inequalities] 91f:65163
 Konyakh, G. V. Two-sided approximations for the solution of the Dirichlet difference problem. (Russian) 91b:65119
 Korman, Philip On computation of solutions of elliptic systems. 91k:65139
 Lavery, John E. Solution of steady-state, two-dimensional conservation laws by mathematical programming. 91m:65265
 Liniger, Werner A quasi-direct fast Poisson solver for general regions. 91d:65159
 Lynch, Robert E. *see* Birkhoff, Garrett, 91g:65228
 Manteuffel, Thomas A. (with Parter, Seymour V.) Preconditioning and boundary conditions. 91d:65160
 — *see also* Faber, V.; et al., 91f:65164
 Marinou, Aristides Th. On a direct method for solving Helmholtz's type equations in 3-D rectangular regions. 91g:65230
 Matsokin, A. M. (with Nepomnyashchikh, S. V.) On using the bordering method for solving systems of mesh equations. 91d:65161
 Nepomnyashchikh, S. V. *see* Matsokin, A. M., 91d:65161
 Parter, Seymour V. *see* Manteuffel, Thomas A., 91d:65160 and Faber, V.; et al., 91f:65164
 Pasciak, Joseph E. *see* Bramble, James H.; et al., 91h:65159
 Sander, S. A. Chebyshev acceleration of the alternating Schwarz process. (Russian) 91k:65160
 Tagiev, F. A. Numerical solution of a boundary value problem for mixed equations. 91c:65226
 Trunov, G. A. An estimate for a spectral relation for incomplete factorization of the form S^*S of the difference approximation of the Laplace operator in the case of a quasiregular operator S . (Russian) 91h:65161
 Xie, Zheng Hui Approximation of the nonconforming finite element for a free boundary problem and the iterative solution of the discrete problem. 91k:65162
 Xu, Jinchao *see* Bramble, James H.; et al., 91h:65159

Items with secondary classifications in 65N22

Aarden, J. M. C. (with Karlsson, K. E.) Preconditioned CG-type methods for solving the coupled system of fundamental semiconductor equations. 91c:65032
 Abu-Shumays, I. K. Incomplete block cyclic reduction as a preconditioner for polynomial iterative methods. 91k:65065
 Al-Tawaaj, M. A two-term iterative solution scheme for linear sparse systems. 91a:65110
 Ardelyan, N. V. (with Nagaeva, E. I.) Convergence of iterative methods for solving systems of two linear operator equations. (Russian) 91d:65078
 Axelsson, Owe (with Vassilevski, P. S.) A survey of multilevel preconditioned iterative methods. 91k:65066
 — (with Vassilevski, P. S.) Algebraic multilevel preconditioning methods. I. 91c:65023
 Bank, Randolph E. (with Welfert, Bruno D.; Yserentant, Harry) A class of iterative methods for solving saddle point problems. 91b:65035
 Basdevant, Claude (with Holschneider, Matthias; Perrier, Valérie) Méthode des ondelettes mobiles. (English summary) [The travelling wavelets method] 91g:35064
 Boglaev, I. P. Numerical solution of a quasilinear parabolic equation with a boundary layer. (Russian) 91j:65157
 Boisvert, Ronald F. Algorithms for special tridiagonal systems. 91m:65077
 Brenner, Susanne C. A nonconforming multigrid method for the stationary Stokes equations. 91d:65167
 Chao, Dale Z. T. *see* Ching, Sui Shing; et al., 91i:39001
 Chen, Guan Rong *see* de Figueiredo, Rui J. P., 91e:65023
 Ching, Sui Shing (with Hsieh, Liang Yu; Chao, Dale Z. T.) Discrete Lyapunov inequality conditions for partial difference equations. 91i:39001
 Cottet, Georges-Henri (with Mas-Gallie, Sylvie) A particle method to solve the Navier-Stokes system. 91g:76074
 Dinh Quang Thai (with Monastyrnyi, P. I.; Nguyen Fyong Mai) Lowering the order of systems of difference equations in multiple difference shooting algorithms, and some of their properties. (Russian) 91d:65214
 Eisenstat, Stanley C. (with Ortega, James M.; Vaughan, C. T.) Efficient polynomial preconditioning for the conjugate gradient method. 91g:65064

Elman, Howard C. Relaxed and stabilized incomplete factorizations for nonselfadjoint linear systems. 91f:65079
 — (with Golub, Gene H.) Iterative methods for cyclically reduced nonselfadjoint linear systems. 91b:65036
 — (with Golub, Gene H.) Iterative methods for cyclically reduced nonselfadjoint linear systems. II. 91e:65051
 de Figueiredo, Rui J. P. (with Chen, Guan Rong) PDL₂ splines defined by partial differential operators with initial and boundary value conditions. 91e:65023
 French, Donald A. Computations on the Cahn-Hilliard model of solidification. 91g:80008
 Freund, Roland Wilhelm On conjugate gradient type methods and polynomial preconditioners for a class of complex non-Hermitian matrices. 91m:65091
 Golub, Gene H. *see* Elman, Howard C., 91b:65036 and 91e:65051
 Herter, Rainer Einführung in Mehrgitterverfahren. [Introduction to multigrid methods] 91c:65076
 Holschneider, Matthias *see* Basdevant, Claude; et al., 91g:35064
 Hsieh, Liang Yu *see* Ching, Sui Shing; et al., 91i:39001
 Karlsson, K. E. *see* Aarden, J. M. C., 91c:65032
 Kellogg, R. Bruce *see* Vanaja, V., 91d:65158
 Li, Bai Nian Finite difference schemes for a class of systems of generalized nonselfadjoint and nonlinear Schrödinger equations. (Chinese. English summary) 91c:65064
 Mas-Gallie, Sylvie *see* Cottet, Georges-Henri, 91g:76074
 Monastyrnyi, P. I. *see* Dinh Quang Thai; et al., 91d:65214
 Nagaeva, E. I. *see* Ardelyan, N. V., 91d:65078
 Nguyen Fyong Mai *see* Dinh Quang Thai; et al., 91d:65214
 Ortega, James M. *see* Eisenstat, Stanley C.; et al., 91g:65064
 Pao, C. V. Convergence of coupled systems of nonlinear finite difference elliptic equations. 91j:65163
 Perrier, Valérie *see* Basdevant, Claude; et al., 91g:35064
 Smelov, V. V. Formulation of the iterative process on subdomains for transport theory problems in odd P_{2N+1} -approximation. 91c:82083
 Vanaja, V. (with Kellogg, R. Bruce) Iterative methods for a forward-backward heat equation. 91d:65158
 Vassilevski, P. S. *see* Axelsson, Owe, 91c:65023 and 91k:65066
 Vaughan, C. T. *see* Eisenstat, Stanley C.; et al., 91g:65064
 Welfert, Bruno D. *see* Bank, Randolph E.; et al., 91b:65035
 Yserentant, Harry *see* Bank, Randolph E.; et al., 91b:65035

65N25 Eigenvalue problems

Allanazarov, Zh. P. *see* Prikazhnikov, V. G., 91m:65267
 Bourquin, Frédéric Synthèse modale d'opérateurs elliptiques du second ordre. (English summary) [Component mode synthesis of second-order elliptic operators] 91g:65231
 Elishakoff, Isaac Some questions in eigenvalue problems in engineering. (see 91m:65005)
 Ibrahim, S. F. M. *see* Zayed, Elsayed M. E., 91h:65167
 Korobchuk, I. V. (with Lysenko, O. V.) Geometric interpolation in some eigenvalue problems. (Russian) 91h:65163
 Kuroda, S. T. (with Suzuki, Toshio) A time-dependent method for computing eigenfunctions and eigenvalues of Schrödinger operators. 91h:65164
 Lysenko, O. V. *see* Korobchuk, I. V., 91h:65163
 Nikiforovskii, S. V. Convergence of the method of two-sided approximations for a continuation with respect to the lowest term. (Russian) 91b:65120
 — (with Sorokin, S. B.) A method for obtaining two-sided approximations for eigenvalues. (Russian) (see 91k:65007)
 Pomeranz, Shirley B. Computational methods for nonlinear elliptic eigenvalue problems. 91m:65266
 Poznyak, L. T. A rigorous proof and estimate for the rate of convergence of the method of partial domains in two-dimensional eigenvalue problems for the Laplace operator. (Russian) 91h:65165
 Prikazhnikov, V. G. (with Allanazarov, Zh. P.) A scheme of fourth-order accuracy in a spectral problem with variable coefficients. 91m:65267
 Puzynin, I. V. *see* Zhanlar, T., (Not in MR)
 Sorokin, S. B. *see* Nikiforovskii, S. V., (91b:65120)
 Suzuki, Toshio *see* Kuroda, S. T., 91h:65164
 Van Keer, R. *see* Vanmaele, M., (91m:65005)
 Vanmaele, M. (with Van Keer, R.) Convergence and error estimates for a finite element method with numerical quadrature for a second order elliptic eigenvalue problem. (see 91m:65005)
 Whiteman, J. R. Calculation of the forms of singularities in elliptic boundary value problems. (see 91m:65005)
 Yang, Yi Du The effect of numerical integration in extrapolation for finite element eigenvalues. (Chinese. English summary) (Not in MR)
 — A theorem on superconvergence of shifts of finite element approximations for eigenvalue problems. (Chinese. English summary) 91h:65166
 Zayed, Elsayed M. E. (with Ibrahim, S. F. M.) Regular eigenvalue problem with eigenparameter contained in the equation and the boundary conditions. 91h:65167
 Zhanlar, T. (with Puzynin, I. V.) Численное решение задачи на собственные значения, возникающей при исследовании нелинейного уравнения Шредингера с накачкой. (Russian) [Numerical solution of an eigenvalue problem that arises in studying a nonlinear Schrödinger equation with excitation] (Not in MR)

Items with secondary classifications in 65N25

(Albrecht, J.) *see* Numerical treatment of eigenvalue problems, 91m:65005
 Babuska, Ivo (with Guo, Ben Qi; Osborn, John E.) Regularity and numerical solution of eigenvalue problems with piecewise analytic data. 91g:35194
 Banerjee, Uday (with Osborn, John E.) Estimation of the effect of numerical integration in finite element eigenvalue approximation. 91d:65163
 (Collatz, Lothar) *see* Numerical treatment of eigenvalue problems, 91m:65005
 Dittmar, Bodo Über Stekloffsche Eigenwerte. [On Steklov eigenvalues] 91c:35160
 Durand, Loyal (with Gara, Alan) Matrix methods for the numerical solution of relativistic wave equations. 91g:81003

- Garc, Alan. *see* Durand, Loyal, 91g:81003
- Gao, Ben Qi. *see* Babuška, Ivo; et al., 91g:35194
- (Hagedorn, P.) *see* Numerical treatment of eigenvalue problems, 91m:65005
- Huang, Ai Xiang (with Zhang, Bo²) Convergence of nodal expansion methods for neutron diffusion eigenvalue problems. (Chinese. English summary) 91c:82082
- Klein, P. P. Eigenwerteinschließung bei nichtselbstadjungierten Eigenwertaufgaben. [On the inclusion of eigenvalues in nonselfadjoint eigenvalue problems] 91k:47040
- Knyazev, Andrei Vladimirovich A preconditioned conjugate gradient method for eigenvalue problems and its implementation in a subspace. (see 91m:65005)
- Nikiforovskii, S. V. Two-sided estimates for the eigenvalues of the Lamé operator in a difference variant. (Russian) 91e:73114
- Osborn, John E. *see* Banerjee, Uday, 91d:65163 and Babuška, Ivo; et al., 91g:35194
- Schmidt, Robert An empirical approach to improving the accuracy of Schwarz-Rayleigh's approximate eigenvalues. (Not in MR)
- Errata: "An empirical approach to improving the accuracy of Schwarz-Rayleigh's approximate eigenvalues" [Indust. Math. 39 (1989), no. 2, 135–141]. (Not in MR)
- Takahashi, Hiroyuki *see* Watanabe, Jiro, 91e:76052
- (Vette, Waldemar) *see* Numerical treatment of eigenvalue problems, 91m:65005
- Watanabe, Jiro (with Takahashi, Hiroyuki) On an approximation of the eigenvalue problem for axisymmetric disturbances. 91e:76052
- Zhang, Bo² *see* Huang, Ai Xiang, 91c:82082
- Items listed otherwise than by author
- Numerical treatment of eigenvalue problems ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005
- Oberwolfach ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005
- Workshop:
- Eigenvalue Problems in the Natural and Engineering Sciences and their Numerical Treatment ★ Numerical treatment of eigenvalue problems. Vol. 5. 91m:65005
- ### 65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
- Aganović, Ibrahim Introduction to the method of finite and boundary elements. I. (Serbo-Croatian) 91g:65232
- Ainsworth, M. *see* Zienkiewicz, O. C.; et al., (91m:65002)
- Anagnostou, George (with Maday, Yvon; Mavriplis, Catherine; Patera, Anthony T.) On the mortar element method: generalizations and implementation. (see 91e:65010)
- Apanovich, V. N. Convergence of exterior finite-element approximations of variational equations of boundary value problems in mechanics. (Russian) 91g:65233
- Arnold, Douglas N. (with Falk, Richard S.) A uniformly accurate finite element method for the Reissner-Mindlin plate. 91c:65068
- Mixed finite element methods for elliptic problems. 91b:65168
- Artemenko, A. L. *see* Skopetskiĭ, V. V.; et al., 91c:65073
- Axelsson, Owe Finite element methods for convection-diffusion problems. 91g:65234
- (with Carey, Graham F.; Lindsjö, G.) On a class of preconditioned iterative methods on parallel computers. 91d:65162
- Babuška, Ivo (with Guo, Ben Qi) The h - p version of the finite element method for problems with nonhomogeneous essential boundary condition. 91a:65227
- (with Guo, Ben Qi; Stephan, E. P.) On the exponential convergence of the h - p version for boundary element Galerkin methods on polygons. 91b:65174
- *see also* Guo, Ben Qi, 91g:65239
- Banerjee, Uday (with Osborn, John E.) Estimation of the effect of numerical integration in finite element eigenvalue approximation. 91d:65163
- Bank, Randolph E. (with Chan, Tony F.; Coughran, W. M., Jr.; Smith, R. Kent) The alternate-block-factorization procedure for systems of partial differential equations. 91b:65121
- (with Bürger, Josef F.; Fichtner, Wolfgang; Smith, R. Kent) Some upwinding techniques for finite element approximations of convection-diffusion equations. 91b:65175
- Baranger, Jacques (with Sandri, Dominique) Approximation par éléments finis d'écoulements de fluides viscoélastiques: existence de solutions approchées et majoration d'erreur. I. Contraintes discontinues. (English summary) [Finite-element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints] 91m:65268
- Barrett, John W. (with Elliott, Charles M.) Finite-element approximation of a plasma equilibrium problem. 91d:65164
- (with Elliott, Charles M.) Finite element approximation of a free boundary problem related to plasma physics. (see 91g:00044)
- (with Elliott, Charles M.) Finite element approximation of a free boundary problem arising in the theory of liquid drops and plasma physics. (French summary) 91m:65269
- *see also* Shanahan, Robert M., 91b:65181
- Behzadi, A. M. *see* Kaveh, A., 91e:65126
- Bernardi, Christine (with Maday, Yvon; Sacchi Landriani, Giovanni) Nonconforming matching conditions for coupling spectral and finite element methods. 91d:65165
- Optimal finite-element interpolation on curved domains. (French summary) 91a:65228
- Bespalov, A. N. An auxiliary finite element for the discretization of three-dimensional problems on locally modified grids. (Russian) (see 91m:65004)
- Bielak, J. (with MacCormy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Blum, Herbert Numerical treatment of corner and crack singularities. 91b:65122
- Börger, Christoph (with Widlund, Olof B.) On finite element domain imbedding methods. 91g:65235
- Bossavit, A. Mixed methods and the marriage between finite elements and boundary elements. 91g:65236
- Bourlard, Maryse (with Dauge, Monique; Nicaise, Serge) Error estimates on the coefficients obtained by the singular function method. 91m:65271
- (with Nicaise, Serge; Paquet, Luc) An adapted Galerkin method for the resolution of Dirichlet and Neumann problems in a polygonal domain. 91d:65166
- Braess, D. (with Verfürth, R.) Multigrid methods for nonconforming finite element methods. 91g:65164
- Bramble, James H. (with Xu, Jinchao) Some estimates for a weighted L^2 projection. 91b:65140
- Brebbia, C. A. (with Nowak, A. J.) A new approach for transforming domain integrals to the boundary. (see 91b:00050)
- *see also* DeFigueiredo, T. G. B., (91b:00041)
- Brenner, Susanne C. A nonconforming multigrid method for the stationary Stokes equations. 91d:65167
- Brezzi, Franco (with Falk, Richard S.) Stability of higher-order Hood-Taylor methods. 91m:65272
- *see also* Hughes, Thomas J. R.; et al., (91b:00050)
- Bui, T. D. *see* Li, Zi-Cai, 91e:65127
- Bürger, Josef F. *see* Bank, Randolph E.; et al., 91b:65175
- Caanon, John R. (with Lin, Yanping) A Galerkin procedure for diffusion equations with boundary integral conditions. 91g:65237
- Capuzzo-Dolcetta, Italo (with Finzi Vita, S.) Finite element approximation of some indefinite elliptic problems. 91g:65165a
- (with Finzi Vita, S.) Errata corrigé: "Finite element approximation of some indefinite elliptic problems". 91g:65165b
- Carey, Graham F. *see* Axelsson, Owe; et al., 91d:65162 and Seager, M. K., 91e:65131
- Čermák, L. Finite element solution of diffusion problems with a moving boundary in semiconductor device technology. (see 91g:00044)
- Chacón Rebollo, Tomás (with Hou, Thomas Y.) A Lagrangian finite element method for the 2-D Euler equations. 91b:65169
- Chan, Tony F. *see* Bank, Randolph E.; et al., 91b:65121
- Chang, Ching-Lung A mixed finite element method for the Stokes problem: an acceleration-pressure formulation. 91d:65168
- A least-squares finite element method for the Helmholtz equation. 91g:65166
- (with Gunzburger, Max D.) A subdomain-Galerkin/least squares method for first-order elliptic systems in the plane. 91b:65176
- Chen, Chuan Miao (with Larson, Stig; Zhang, Nai Ying) Error estimates of optimal order for finite element methods with interpolated coefficients for the nonlinear heat equation. 91b:65141
- (with Huang, Yun Qing) Extrapolation of triangular linear element in general domain. (Chinese summary) 91d:65169
- Chen, Shao Chun An analysis of a biparametric method for quasiconforming elements. (Chinese. English summary) (Not in MR)
- Cheng, Xiao Liang (with Jiang, Jin Sheng) The error bound for Wilson's nonconforming element. (Chinese. English summary) 91d:65170
- Choudury, G. Fully discrete Galerkin approximations of parabolic boundary-value problems with nonsmooth boundary data. 91g:65165
- Clarlet, Philippe G. A new class of variational problems arising in the modeling of elastic multi-structures. 91b:65166
- Comodi, Maria Isabella The Lagrange multipliers in the equilibrium finite element method: error estimates and postprocessing. 91b:65170
- Costa, J. A., Jr. An alternative procedure to solve Helmholtz problems by BEM. (see 91b:00044)
- Coughran, W. M., Jr. *see* Bank, Randolph E.; et al., 91b:65121
- Craig, A. W. *see* Zienkiewicz, O. C.; et al., (91m:65002)
- Cui, Xiang (with Xie, Xi) Equivalence of the variational method and the weighted residual method, and a direct way of obtaining finite element equations. (Chinese) (Not in MR)
- Dauge, Monique *see* Bourlard, Maryse; et al., 91b:65271
- Dawson, Clint N. (with Russell, T. F.; Wheeler, Mary F.) Some improved error estimates for the modified method of characteristics. 91a:65229
- DeFigueiredo, T. G. B. (with Brebbia, C. A.) A hybrid displacement variational formulation of BEM. (see 91b:00041)
- Deineka, V. S. *see* Skopetskiĭ, V. V.; et al., 91c:65073
- Demkowicz, L. (with Oden, J. Tinsley; Rachowicz, W.; Hardy, O.) Toward a universal h - p adaptive finite element strategy. I. Constrained approximation and data structure. 91b:65123a
- *see also* Oden, J. Tinsley; et al., 91b:65123b and Rachowicz, W.; et al., 91b:65123c
- Deng, Qing Ping A remark on an incomplete biquadratic nonconforming plate element. (Chinese. English summary) 91m:65273
- Deville, M. O. (with Mund, E. H.) Finite-element preconditioning for pseudospectral solutions of elliptic problems. 91a:65230
- Debronzis, B. S. Refinement of variational-difference solutions by higher-order finite elements. (Russian) (see 91g:00011)
- Dong, Yu Feng *see* Wang, Xiu Xi, (Not in MR)
- Dörfler, W. The conditioning of the stiffness matrix for certain elements approximating the incompressibility condition in fluid dynamics. 91b:65142
- Du, Qiang (with Gunzburger, Max D.) Finite-element approximations of a Ladyzhenskaya model for stationary incompressible viscous flow. 91e:65123
- Durán, Ricardo G. Finite elements in $H(\text{curl})$ with applications to elasticity. 91g:65238
- Dzhavadyan, A. D. Choice of grid in the variational-difference method for solving second-order elliptic equations with a quasidgenerate quadratic form. 91c:65069
- Dzhishkariani, A. V. On the convergence of the finite element method with one iteration. (Russian) 91b:65171
- E, Wei Nan (with Mu, Mo; Huang, Hong Ci) A posteriori error estimates in finite element methods. (Chinese. English summary) 91d:65171
- Eld, R. *see* Sezzin, Münver, 91b:65181
- Elliott, Charles M. *see* Barrett, John W., 91d:65164; 91m:65269 and (91g:00044)
- Eriksson, Kenneth (with Johnson, Claes) Adaptive finite element methods for parabolic problems. I. A linear model problem. 91m:65274
- Ezzerov, I. D. Approximation by parts in the finite element method. (Russian) 91b:65124
- Falk, Richard S. (with Morley, Mary E.) Equivalence of finite element methods for problems in elasticity. 91b:65177
- *see also* Arnold, Douglas N., 91c:65068 and Brezzi, Franco, 91m:65272
- Faragó, István Some results of Galerkin's method for the solution of nonlinear parabolic system. (see 91b:65004)
- Convergence of semidiscrete Galerkin approximations for generalized nonlinear parabolic problems. (see 91b:00051)

- Farhat, Charbel** A multigrid-like semi-iterative algorithm for the massively parallel solution of large scale finite element systems. (see 91e:65008)
- Felgenhauer, Andreas** Splines of finite element type for enclosing methods of second order differential equations. 91e:65124
- (with Weiss, Dietmar) Eine nichtkonforme FEM mit Standardnetzgenerierung für die Poissongleichung im Raum. [A nonconformal FEM with standard net generation for the Poisson equation in space] (Not in MR)
- Monotone Finite-Element-Einschließungen für die Poissongleichung. [Monotone finite element inclusions for the Poisson equation] (Not in MR)
- Fichtner, Wolfgang** see Bank, Randolph E.; et al., 91i:65175
- Fenzi Vita, S.** see Capuzzo-Dolcetta, Italo, 91j:65165a and 91j:65165b
- Foresti, S.** see Hassanzadeh, S.; et al., (91m:65002)
- French, Donald A.** On the convergence of finite-element approximations of a relaxed variational problem. 91f:65167
- Friedrich, Lutz** see Lube, Gert, 91h:65176
- Fuhrmann, Jürgen** An interpretation of the Scharfetter-Gummel scheme as a mixed finite element discretization. (see 91k:65012)
- Gastaldi, Lucia** (with Nochetto, Ricardo H.) Sharp maximum norm error estimates for general mixed finite element approximations to second order elliptic equations. (French summary) 91h:65125
- Girault, V.** Curl-conforming finite element methods for Navier-Stokes equations with nonstandard boundary conditions in R^3 . 91k:65143
- Gmeig Mayling, R. H. J.** Numerical solution of the biharmonic equation using different types of bivariate spline functions. (see 91e:65003)
- Goldstein, Charles I.** Preconditioned iterative methods for convection diffusion and related boundary value problems. 91h:65126
- Goodsell, G.** (with Whiteman, J. R.) A unified treatment of superconvergent recovered gradient functions for piecewise linear finite element approximations. 91k:65144
- see also Whiteman, J. R., 91a:65234
- Gorbachev, K. P.** (with Popov, A. N.; Voskovshchuk, N. I.; Ulozhenko, A. G.) Вариационно-разностная версия метода конечных элементов. (Russian) [A variational-difference version of the finite element method] 91e:65125
- Gonzburger, Max D.** see Du, Qiang, 91e:65123 and Chang, Ching-Lung, 91i:65176
- Guo, Ben Qi** (with Babuška, Ivo) Countable normed spaces and the h - p version of the finite element method. 91g:65239
- see also Babuška, Ivo, 91e:65227 and 91i:65174
- Hamada, Hozumi** see Tabata, Masahisa; et al., 91k:65145
- Han, Hsu De** A direct boundary element method for Signorini problems. 91c:65070
- Harari, Isaac** see Hughes, Thomas J. R.; et al., (91b:00050)
- Hardy, O.** see Demkowicz, L.; et al., 91b:65123a
- Hassanzadeh, S.** (with Foresti, S.; Sonnad, V.) A multilevel solution method for the incompressible Navier-Stokes equations. (see 91m:65002)
- He, Yin Nian** (with Li, Kai Tai) The coupling method of finite elements and boundary elements for radiation problem. 91m:65275
- Hlaváček, Ivan** Domain optimization in 3D-axisymmetric elliptic problems by dual finite element method. (Russian and Czech summaries) 91i:65178
- Hou, Thomas Y.** see Chacón Rebollo, Tomás, 91h:65169
- Hsiao, G. C.** The coupling of BEM and FEM—a brief review. 91c:65071
- Hu, Xian Cheng** (with Liu, Jin Ting) Algorithm design for adaptive multigrid finite elements. (Chinese. English summary) 91g:65240
- Huang, Hong Ci** see E, Wei Nan; et al., 91d:65171
- Huang, Yu Ren** (with Wang, Hong Jiang) Finite element methods for a generalized KdV equation. (Chinese. English summary) 91h:65127
- Huang, Yun Qing** see Chen, Chuan Miao, 91d:65169 and Křížek, Michal; et al., 91f:65170
- Huang, Zi Ping** A multi-grid algorithm for mixed problems with penalty. 91f:65179
- Hughes, Thomas J. R.** (with Brezzi, Franco; Masud, Arif; Harari, Isaac) Finite elements with drilling degrees of freedom: theory and numerical evaluations. (see 91b:00050)
- Jaquet, Ralph** Application of the finite element method to eigenvalue problems. I. One-dimensional calculations using optimized elements. 91f:65168
- Jerome, Joseph W.** see Kerkhove, Thomas, 91g:65241
- Ji, Zhen Yi** see Ye, Kai Yuan, 91m:65281
- Jiang, Jin Sheng** Hierarchical forms of Zienkiewicz's element. (Chinese. English summary) 91h:65172
- see also Cheng, Xiao Liang, 91d:65170
- Jiang, Quan** (with Zhou, E) General formulas for treating periodicity conditions in the finite element method. (Chinese. English summary) 91h:65180
- Jiang, Xun Lei** Perturbation analysis of the multigrid method and its application. (Chinese. English summary) 91h:65128
- Johnson, Claes** see Eriksson, Kenneth, 91m:65274
- Kakuda, K.** see Tosaka, N., (91b:00041)
- Katrakhova, A. A.** A variant of the finite element method for degenerate boundary value problems. (Russian) 91b:65129
- Kareh, A.** (with Behzadi, A. M.) An associate graph for finite element ordering. 91e:65126
- Kerkhove, Thomas** (with Jerome, Joseph W.) L_∞ stability of finite element approximations to elliptic gradient equations. 91g:65241
- Kikuchi, Fumio** On a discrete compactness property for the Nédélec finite elements. 91h:65173
- Klontzidis, J. B.** L_2 -error bounds for approximate solutions of elliptic partial differential equations with Dirichlet-boundary conditions. (German summary) 91f:65169
- Křížek, Michal** (with Lin, Qun; Huang, Yun Qing) A nodal superconvergence arising from combination of linear and bilinear elements. 91f:65170
- (with Neittaanmäki, Pekka) On $O(h^4)$ -superconvergence of piecewise bilinear FE-approximations. (Portuguese summary) 91g:65242
- (with Neittaanmäki, Pekka) ★ Finite element approximation of variational problems and applications. 91h:65174
- Lacvakli, Yu. M.** ★ Квадратичные элементы в методах расщепления. (Russian) [Quadratic elements in splitting methods] 91d:65172
- Laghim-Lahlon, M.** (with Sablonnière, Paul) C^r finite elements of HCT, PS and FVS types. (see 91b:00050)
- Larsson, Stig** see Chen, Chuan Miao; et al., 91k:65141
- Laurent-Gengoux, P.** (with Neveu, D.) Calcul des singularités par la méthode des éléments finis. (English summary) [A finite-element computation of singularities] 91d:65173
- Lehmann, Reinhard** Calculation of constants in certain estimates for the convergence of the finite element method. (Russian) (see 91b:65003)
- Le Tallec, Patrick** (with Ravachol, Michel) Finite element approximation of viscoelastic progressively incompressible flows. 91f:65171
- Li, Kai Tai** see He, Yin Nian, 91m:65275
- Li, Qian** Finite element methods for a class of nonlinear hyperbolic-parabolic coupled systems. (Chinese. English summary) 91a:65231
- Li, Zi-Cai** (with Bui, T. D.) The simplified hybrid-combined methods for Laplace's equation with singularities. 91e:65127
- Lin, Qun** see Křížek, Michal; et al., 91f:65170
- Lin, Yanping** Galerkin methods for nonlinear Sobolev equations. 91m:65276
- Galerkin methods for nonlinear parabolic integrodifferential equations with nonlinear boundary conditions. 91e:65128
- see also Cannon, John R., 91g:65237
- Lindskog, G.** see Axelsson, Owe; et al., 91d:65162
- Litvin, O. N.** The obtaining of efficient schemes of the finite element method by means of interliteration. (Russian. English summary) 91g:65243
- Liu, Chao Qun** The finite volume element (FVE) and fast adaptive composite grid methods (FAC) for the incompressible Navier-Stokes equations. (see 91e:65008)
- Liu, Han Li** The application of boundary fitted coordinate transformations in the finite element method. (Chinese. English summary) 91h:65175
- Liu, Jin Ting** see Hu, Xian Cheng, 91g:65240
- Lube, Gert** (with Friedrich, Lutz) Finite element methods of streamline diffusion type for singularly perturbed quasilinear elliptic boundary value problems. (German summary) 91h:65176
- see also Risch, Uwe, (91k:65007)
- Land, J. R.** (with Vogel, Curtis R.) A fully-Galerkin method for the numerical solution of an inverse problem in a parabolic partial differential equation. 91h:65130
- Lao, Zhen Dong** A second-order mixed finite element method with quadrilateral elements for the Navier-Stokes problem in two-dimensional space. (Chinese. English summary) (Not in MR)
- MacCany, Richard C.** see Bielak, J., 91m:65270
- Maday, Yvon** see Bernardi, Christine; et al., 91d:65165 and Anagnostou, George; et al., (91e:65010)
- Maitre, J.-F.** Solution of elliptic boundary value problems by adaptive finite element and hierarchical multigrid: a survey and an estimation of the work. (see 91b:00050)
- Mikinev, Ralno** Finite-element design sensitivity analysis for nonlinear potential problems. 91f:65172
- Mandel, Jan** Hierarchical preconditioning and partial orthogonalization for the p -version finite element method. 91g:65244
- Marini, Luisa Donatella** (with Pietra, Paola) An abstract theory for mixed approximations of second order elliptic problems. (Portuguese summary) 91h:65177
- Masud, Arif** see Hughes, Thomas J. R.; et al., (91b:00050)
- Mavriplis, Catherine** see Anagnostou, George; et al., (91e:65010)
- Miller, John J. H.** (with Wang, Song) A Petrov-Galerkin mixed finite element method with triangular elements for the semiconductor device equations. 91g:65245
- Monk, P. B.** Continuous finite elements in space and time for the heat equation. 91f:65173
- Morley, Mary E.** see Falk, Richard S., 91i:65177
- Mu, Mo** see E, Wei Nan; et al., 91d:65171
- Mund, E. H.** see Deville, M. O., 91a:65230
- Neittaanmäki, Pekka** see Křížek, Michal, 91g:65242 and 91h:65174
- Neves, D.** see Laurent-Gengoux, P., 91d:65173
- Nicaise, Serge** see Bourlard, Maryse; et al., 91d:65166 and 91m:65271
- van Niekerk, A.** (with van Niekerk, F. D.) An explicit finite element method for convection-diffusion equations using rational basis functions. 91d:65174
- (with van Niekerk, F. D.) A Galerkin method with rational basis functions for Burgers equation. 91f:65174
- van Niekerk, F. D.** see van Niekerk, A., 91d:65174 and 91f:65174
- Nijima, Koichi** Pointwise error estimates for a streamline diffusion finite element scheme. 91h:65178
- Nochetto, Ricardo H.** (with Paolini, M.; Verdi, C.) Self-adaptive mesh modification for parabolic FBP: theory and computation. (see 91m:35004)
- see also Gastaldi, Lucia, 91h:65125
- Nowak, A. J.** see Brebbia, C. A., (91k:00050)
- Oden, J. Tinsley** (with Demkowicz, L.; Rachowicz, W.; Westermann, T. A.) Toward a universal h - p adaptive finite element strategy. II. A posteriori error estimation. 91h:65123b
- see also Demkowicz, L.; et al., 91b:65123a and Rachowicz, W.; et al., 91b:65123c
- Osborn, John E.** see Banerjee, Uday, 91d:65163
- Oswald, Peter** On function spaces related to finite element approximation theory. (German and Russian summaries) 91g:65246
- Ottav, Noël** Méthode de décomposition fonctionnelle adaptée au cadre interactif de la CAO. (English summary) [A functional breakdown method adapted to interactive CAD environments] 91f:65175
- Ouyang, Hua Jiang** (with Xiao, Ding) Criteria of finite element algorithm for a class of parabolic equation. 91d:65175
- Ouyang, Shi Fen** see Zhou, Shu Zi, 91h:65134
- Ozeki, Yoshichi** see Tabata, Masahisa; et al., 91k:65145
- Paolini, M.** see Nochetto, Ricardo H.; et al., (91m:35004)
- Paquet, Luc** see Bourlard, Maryse; et al., 91d:65166
- Palera, Anthony T.** see Anagnostou, George; et al., (91e:65010)
- Pekhlivanov, A. I.** Lumping the mass in the FEM for degenerate parabolic problems. (Russian summary) 91e:65129
- Interior estimates of type superconvergence of the gradient in the finite element method. 91e:65130
- Pietra, Paola** see Marini, Luisa Donatella, 91h:65177
- Polizotto, C.** Errata: "An energy approach to the boundary element method. II. Elastic-plastic solids" [Comput. Methods Appl. Mech. Engrg. 69 (1988), no. 3, 263–276;

- 90b:65210]. 91g:65247
- Papov, A. N. *see* Gorbachev, K. P.; et al., 91e:65125
- Petra, Teodor Finite elements in the homogenization problem. 91b:65131
- Rachowicz, W. (with Oden, J. Tinsley; Demkowicz, L.) Toward a universal h - p adaptive finite element strategy. III. Design of h - p meshes. 91b:65123c
- *see also* Demkowicz, L.; et al., 91b:65123a and Oden, J. Tinsley; et al., 91b:65123b
- Ravachol, Michel *see* Le Tallec, Patrick, 91f:65171
- Rippa, Samuel (with Schiff, B.) Minimum energy triangulations for elliptic problems. 91m:65277
- Risch, Uwe (with Lube, Gert) Upwind FEM for convection dominated elliptic problems. (see 91k:65007)
- An upwind finite element method for singularly perturbed elliptic problems and local estimates in the L^∞ -norm. (French summary) 91b:65179
- Rose, Milton E. Compact finite volume methods for the diffusion equation. 91b:65180
- Roubíček, Tomáš A finite-element approximation of Stefan problems in heterogeneous media. (see 91m:35004)
- Rüde, Ulrich Local corrections for eliminating the pollution effect of reentrant corners. 91f:65176
- Russell, T. F. *see* Dawson, Clint N.; et al., 91a:65229
- Sablonsière, Paul *see* Laghchim-Lahlou, M., (91b:00050)
- Sacchi Landriani, Giovanni *see* Bernardi, Christine; et al., 91d:65165
- Sändig, Anna-Margarete Error estimates for finite-element solutions of elliptic boundary value problems in nonsmooth domains. (German and Russian summaries) 91g:65248
- Sandri, Dominique *see* Baranger, Jacques, 91m:65268
- Schäfer, Michael Parallel algorithms for the numerical solution of incompressible finite elasticity problems. 91m:65278
- Schieweck, Friedhelm (with Tobiska, L.) A nonconforming finite element method of upstream type applied to the stationary Navier-Stokes equation. (French summary) 91g:65249
- Schiff, B. *see* Rippa, Samuel, 91m:65277
- Senger, M. K. (with Carey, Graham F.) Adaptive domain extension and adaptive grids for unbounded spherical elliptic PDEs. 91e:65131
- Semerzhieva, Roslita The finite-element method for a class of degenerate hyperbolic equations. (Russian. English summary) 91c:65072
- Sergin, Mineev, (with Eid, R.) Finite element penalty solution of the Stokes equations. (Turkish summary) 91b:65181
- Shanahan, Robert M. (with Barrett, John W.) Total flux estimates for a finite element approximation of the Dirichlet problem using the boundary penalty method. 91f:65181
- Shi, Xi Qian² The error estimation of the cubic C^1 -interpolation finite element scheme in \mathbb{R}^n . (Chinese. English summary) 91g:65250
- Shi, Zhong Ci Error estimates for the Morley element. 91b:65182
- Shopov, Petr I. Lagrangian-Eulerian numerical method for Navier-Stokes equations with weak boundary conditions at infinity. 91a:65232
- Sklyar, S. N. Application of the p - h -version of the finite-element method to the solution of singularly perturbed boundary value problems. (Russian) 91f:65177
- Skopetski, V. V. (with Deineka, V. S.; Artemenko, A. L.) Discretization by the finite element method of an equation of parabolic type with a discontinuous solution. (Russian) 91c:65073
- Smith, R. Kent *see* Bank, Randolph E.; et al., 91b:65121 and 91b:65175
- Sonnad, V. *see* Hassanizadeh, S.; et al., (91m:65002)
- Stember, Rolf Some new families of finite elements for the Stokes equations. 91d:65176
- Stephan, E. P. *see* Babuška, Ivo; et al., 91b:65174
- Suri, Manil Two methods for the approximation of inhomogeneous essential boundary conditions by the p -version of the finite element method. 91f:65183
- The p -version of the finite element method for elliptic equations of order 2l. (French summary) 91f:65184
- Szabo, Barna A. On errors of idealization in finite element analyses of structural connections. (see 91m:65002)
- Tabata, Masahisa (with Ozeki, Yoshiichi; Hamada, Hozumi) Symmetric finite element computation of convection-diffusion equations on a URR machine. 91b:65145
- Tai, Xue Cheng Application of the finite element method to the parameter identification of one- and two-dimensional parabolic equations. (Chinese. English summary) 91f:65178
- Temam, Roger Inertial manifolds and multigrid methods. 91e:65132
- Tobiska, L. *see* Schieweck, Friedhelm, 91g:65249
- Tosaka, N. (with Kakuda, K.) The generalized boundary element method for nonlinear problems. (see 91b:65041)
- Tourigny, Yves Product approximation for nonlinear Klein-Gordon equations. 91j:65167
- Trounev, P. Sur la convergence des méthodes d'éléments finis nonconformes pour des problèmes linéaires de coques minces. (English summary) [On the convergence of nonconformal finite-element methods for linear thin-shell problems] 91g:65251
- Ulozhenko, A. G. *see* Gorbachev, K. P.; et al., 91e:65125
- Vallet, F. M. A conservative nine-point difference scheme for the numerical determination of a level surface. (Russian) 91e:65133
- Vasilienka, V. A. Quasi-polynomial finite elements in elliptic problems with a small parameter. (Russian) 91a:65233
- Vaskevich, V. L. On the approximate solution of the Dirichlet problem in composite three-dimensional domains. (Russian) 91d:65177
- Vassilevski, P. S. Algebraic multilevel preconditioners for elliptic problems with condensation of the finite element stiffness matrix. 91c:65279
- Verdi, C. *see* Nochetto, Ricardo H.; et al., (91m:35004)
- Verfürth, R. *see* Braess, D., 91j:65164
- Vogel, Curtis R. *see* Lund, J. R., 91b:65130
- Voskovichuk, N. I. *see* Gorbachev, K. P.; et al., 91e:65125
- Volk, C. An L^2 -error estimate for an approximation of the solution of a parabolic variational inequality. 91b:65182
- Wang, Hong Jiang *see* Huang, Yu Ren, 91b:65127
- Wang, Jun Ping Superconvergence and extrapolation for mixed finite element methods on rectangular domains. 91m:65280
- Wang, Ming¹ On the inequalities for the maximum norm of nonconforming finite element spaces. (Chinese. English summary) 91g:65252
- What are quasiconforming elements? (Chinese. English summary) 91b:65185
- Wang, Shen Lin Variational principles and H^1 error estimates of generalized difference methods for a class of nonlinear parabolic equations. (Chinese. English summary) 91d:65178
- Wang, Song *see* Miller, John J. H., 91g:65245
- Wang, Xia Xi (with Dong, Yu Feng) A discussion on shape functions of C^0 triangular finite elements. (Chinese. English summary) (Not in MR)
- Wei, Dongming Finite element approximations of solutions to p -harmonic equation with Dirichlet data. 91k:65146
- Weiss, Dietmar *see* Felgenhauer, Andreas, (Not in MR)
- Westermann, T. A. *see* Oden, J. Tinsley; et al., 91b:65123b
- Wheeler, Mary F. *see* Dawson, Clint N.; et al., 91a:65229
- Whiteman, J. R. (with Goodsell, G.) Some gradient superconvergence results in the finite element method. 91a:65234
- *see also* Goodsell, G., 91k:65144
- Widlund, Olof B. *see* Börgers, Christoph, 91g:65235
- Xiao, Ding *see* Ouyang, Hua Jiang, 91d:65175
- Xie, Xi *see* Cui, Xiang, (Not in MR)
- Xie, Zheng Hui The differential form and the convergence order of the finite element method for a fourth-order elliptic variational inequality. (Chinese. English summary) 91a:65235
- A mixed finite element method for a fourth-order obstacle problem. (Chinese. English summary) 91d:65179
- Xu, Jinchao *see* Bramble, James H., 91k:65140
- Ye, Kai Yuan (with Ji, Zhen Yi) Exact finite element method. 91m:65281
- Zhang, Nai Ying *see* Chen, Chuan Miao; et al., 91k:65141
- Zhao, Zhi Gang Six-nodal-point triangular plane finite elements formulated by the method of weighted residuals. (Chinese. English summary) 91b:65132
- Zheng, Qian¹ A characteristic finite element method for solving Euler equations. (Chinese. English summary) 91b:65186
- Zheng, Yun Yu A nonconforming finite element for obstacle problems. (Chinese. English summary) 91b:65133
- Zhou, E. *see* Jiang, Qian, 91b:65180
- Zhou, Shu Zi (with Ouyang, Shi Fen) A multigrid method for singular finite elements. (Chinese. English summary) 91b:65134
- Zhu, J. Z. *see* Zienkiewicz, O. C.; et al., (91m:65002)
- Zhu, Qi Ding A probabilistic finite element method. (Chinese. English summary) 91b:65134
- Zienkiewicz, O. C. (with Zhu, J. Z.; Craig, A. W.; Ainsworth, M.) Simple and practical error estimation and adaptivity: h and h - p version procedures. (see 91m:65002)

Items with secondary classifications in 65N30

- Axelsson, Owe (with Eijkhout, V.; Polman, B.; Vassilevski, P. S.) Incomplete block-matrix factorization iterative methods for convection-diffusion problems. 91d:65051
- (with Vassilevski, P. S.) A survey of multilevel preconditioned iterative methods. 91k:65066
- (with Vassilevski, P. S.) Algebraic multilevel preconditioning methods. I. 91c:65023
- Babuška, Ivo (with Griebel, M.; Pitkäranta, J.) The problem of selecting the shape functions for a p -type finite element. 91a:73067
- (with Guo, Ben Qi) Regularity of the solution of elliptic problems with piecewise analytic data. II. The trace spaces and application to the boundary value problems with nonhomogeneous boundary conditions. 91c:35042
- (with Suri, Manil) The p - and h - p versions of the finite element method, an overview. 91j:73064
- Bachmann, Peggy L. *see* Shephard, Mark S.; et al., (91m:65002)
- Bagnev, B. M. Identification of singularities for problems with a boundary layer. (Russian) 91c:35009
- Bank, Randolph E. (with Weifert, Bruno D.; Yserentant, Harry) A class of iterative methods for solving saddle point problems. 91b:65035
- Baranger, Jacques (with El Amri, Hassan) Estimateurs a posteriori d'erreur pour le calcul adaptatif d'écoulements quasi-newtoniens. (English summary) [A posteriori error estimates for the adaptive computation of quasi-Newtonian flows] 91m:76070
- Barragy, E. *see* Carey, Graham F., 91k:65067
- Baruzzi, G. *see* Habbashi, W. G.; et al., 91m:76072
- Bar-Yoseph, Pinchas (with Elata, David) An efficient L_2 Galerkin finite element method for multi-dimensional nonlinear hyperbolic systems. 91f:76039
- Beagles, A. E. *see* Whiteman, J. R.; et al., 91c:73084
- Becker, Ingo *see* Schnack, Eckart; et al., (91b:00032)
- Beltzer, Abraham I. \star Variational and finite element methods. 91c:65001
- Bercovier, Michel *see* Ross, Drora, 91k:73099
- Berger, Harald (with Warnecke, Gerald G.; Wendland, Wolfgang L.) Finite elements for transonic potential flows. 91h:76053
- Bowers, Kenneth L. *see* McArthur, Kelly M.; et al., 91c:65061
- Braits, Vincent F. *see* Shyya, Walid H.; et al., (Not in MR)
- Brebbia, C. A. *see* Hayami, K., (91b:00041)
- Bui, T. D. (with Hanh, V. N.) Automatic mesh generation for finite element analysis. (German summary) 91f:65187
- Caloz, Gabriel Approximation by finite element method of the model plasma problem. (French summary) 91m:76126
- Cannon, John R. (with Lin, Yanping) Nonclassical H^1 projection and Galerkin methods for nonlinear parabolic integro-differential equations. 91g:65298
- (with Lin, Yanping) A priori L^2 error estimates for finite-element methods for nonlinear diffusion equations with memory. 91b:65118
- Canuto, Claudio (with Pietra, Paola) Boundary and interface conditions within a finite element preconditioner for spectral methods. 91m:65282
- Caquet, E. *see* Souissi, K.; et al., 91c:78024
- Carey, Graham F. (with Barragy, E.) Basis function selection and preconditioning high degree finite element and spectral methods. 91k:65067
- Cesari, Francesco \star Il metodo degli elementi finiti applicato al moto dei fluidi. (Italian) [The finite element method applied to fluid flow] 91d:76052

- Chan, Stevens T. *see* Gresho, Philip M., 91m:76071b
- Chen, Hong Sen A superconvergence estimate for mixed finite element methods for plate bending problems. (Chinese. English summary) 91e:73075
- Chen, Zhang Xing On the existence, uniqueness and convergence of nonlinear mixed finite element methods. (Portuguese summary) 91g:65139
- Chui, Charles K. (with Lai, Ming Jun) Multivariate vertex splines and finite elements. 91e:65022
- Cohen, Harley (with Wang, Chao Chen) On a finite disk method for hyperelastic rods and shells. 91h:73053
- Dahlberg, Björn E. J. (with Verchota, Gregory) Galerkin methods for the boundary integral equations of elliptic equations in nonsmooth domains. 91k:35060
- Decheriski, Lyubomir T. (with Quak, Ewald) On the Bramble-Hilbert lemma. 91k:46027
- Demkowicz, L. (with Oden, J. Tinsley; Rachowicz, W.) A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h - p adaptivity. 91k:76107
- *see also* Oden, J. Tinsley; et al., 91m:76073
- Deng, Qing Ping A nonconforming plate element and its applications. 91k:73101
- Devoldre, P. *see* Souissi, K.; et al., 91c:78024
- Dryja, Maksymilian (with Widlund, Olof B.) On the optimality of an additive iterative refinement method. 91f:65064
- Duncan, Dugald B. A simple and effective self-adaptive moving mesh for enthalpy formulations of phase change problems. 91m:65292
- Dziuk, Gerhard An algorithm for evolutionary surfaces. 91k:65042
- Eljkhout, V. *see* Axelsson, Owe; et al., 91d:65051
- El Amri, Hassan *see* Baranger, Jacques, 91m:76070
- Elata, David *see* Bar-Yoseph, Pinchas, 91f:76039
- Ermiin, A. Yu. *see* Kolotilina, L. Yu., 91d:65054
- Ervin, V. J. (with Stephan, E. P.) A boundary element Galerkin method for a hypersingular integral equation on open surfaces. 91k:65157
- Fang, Zhong Sheng (with Parascioiu, I.) Solutions of the full potential equation using exact integral method. 91h:76086
- Fleck, R. (with Stummel, F.) Results of a rounding error analysis of the frontal-solution-method (FSM). 91j:65057
- French, Donald A. (with Schaeffer, Jack W.) Continuous finite element methods which preserve energy properties for nonlinear problems. 91f:65165
- Frischmuth, Kurt (with Strauss, Raimond) On the triangulation of certain plane domains. 91f:65205
- Gatica, Gabriel N. A Galerkin method with smoothing. 91j:65099
- Geymonat, Giuseppe (with Rosati, Mario Valerio; Valente, V.) Numerical analysis for eversion in elastic spherical caps equilibrium. 91c:73048
- Ghilani, M. (with Larrourou, Bernard) Upwind computation of steady planar flames with complex chemistry. (French summary) 91j:80006
- Glowinski, Roland Supercomputing and the finite element approximation of the Navier-Stokes equations for incompressible viscous fluids. 91c:76070
- (with Kinton, W.; Wheeler, Mary F.) Acceleration of domain decomposition algorithms for mixed finite elements by multi-level methods. (see 91c:65010)
- Goldstein, Charles I. Multigrid analysis of finite element methods with numerical integration. 91h:65190
- Goodsell, G. (with Whiteman, J. R.) Pointwise superconvergence of recovered gradients for piecewise linear finite element approximations to problems of planar linear elasticity. 91c:73081
- Grannell, J. J. BEM-FEM coupling for screen and infinite domain potential problems. 91k:65147
- Gresho, Philip M. The finite element method in viscous incompressible flows. 91k:76108
- On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. I. Theory. 91m:76071a
- (with Chan, Stevens T.) On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. II. Implementation. 91m:76071b
- Griebel, M. *see* Babuška, Ivo; et al., 91a:73067
- Gunzburger, Max D. ★ Finite element methods for viscous incompressible flows. 91d:76053
- (with Hou, L.; Svobodny, T. P.) Finite element approximations of an optimal control problem associated with the scalar Ginzburg-Landau equation. 91m:65181
- (with Hou, L.; Svobodny, T. P.) Analysis and finite element approximation of optimal control problems for the stationary Navier-Stokes equations with distributed and Neumann controls. 91m:65182
- (with Meir, Amnon J.; Peterson, Janet S.) On the existence, uniqueness, and finite element approximation of solutions of the equations of stationary, incompressible magnetohydrodynamics. 91m:76127
- Guo, Ben Qi *see* Babuška, Ivo, 91c:35042
- Gustafsson, Ivar A class of preconditioned conjugate gradient methods applied to finite element equations. (see 91k:65010)
- Habashi, W. G. (with Baruzzi, G.; Peeters, M. F.; Hafez, M. M.) Finite element method in the solution of the Euler and Navier-Stokes equations for internal flow. 91m:76072
- Hafez, M. M. *see* Habashi, W. G.; et al., 91m:76072
- Hanh, V. N. *see* Bui, T. D., 91f:65187
- Hara, Heihachiro (with Mizumoto, Hisao) Determination of the modulus of quadrilaterals by finite element methods. 91c:65022
- Hayami, K. (with Brebbia, C. A.) Quadrature methods for singular and nearly singular integrals in 3-D boundary element method. (see 91b:00041)
- Hayashi, Daigoro Solution of differential equation by means of finite element method. 91a:65213
- Hou, L. *see* Gunzburger, Max D.; et al., 91m:65181 and 91m:65182
- Hs, Xian Cheng (with Li, Jin) An adaptive finite element method for convection-diffusion equations in one dimension. (Chinese. English summary) 91g:65184
- Jaubert, F. (with Rosier, C.; Temam, Roger) The nonlinear Galerkin method in computational fluid dynamics. 91g:76078
- Jensen, Søren S. (with Vogelius, Michael) Divergence stability in connection with the p -version of the finite element method. (French summary) 91m:65261
- Johnson, Claes Adaptive finite element methods for diffusion and convection problems. 91k:65134
- Johnsson, S. Lennart (with Mathur, Kapil K.) Data structures and algorithms for the finite element method on a data parallel supercomputer. (Not in MR)
- Jung, Michael (with Langer, Ulrich; Semmler, Ulrich) Two-level hierarchically preconditioned conjugate gradient methods for solving linear elasticity finite element equations. 91f:65082
- Kaasschieter, E. F. A general finite element preconditioning for the conjugate gradient method. 91c:65024
- Karaosmanoglu, Namik *see* Schnack, Eckart; et al., (91h:00032)
- Kim, Jong Uhn A finite element approximation of three-dimensional motion of a Bingham fluid. (French summary) 91e:76012
- King, J. Thomas On the construction of preconditioners by subspace decomposition. 91d:65065
- Kinton, W. *see* Glowinski, Roland; et al., (91c:65010)
- Kolotilina, L. Yu. (with Ermiin, A. Yu.) Block SSOR preconditionings for high order 3D FE systems. 91d:65054
- Lai, Ming Jun *see* Chui, Charles K., 91c:65022
- Langer, Ulrich *see* Jung, Michael; et al., 91f:65082
- Larrourou, Bernard *see* Ghilani, M., 91j:80006
- Leyk, Zbigniew Galerkin method and optimal error algorithms in Hilbert spaces. 91d:65094
- Li, Guo Wei *see* Li, Kai Tai; et al., 91c:76046
- Li, Jin *see* Hu, Xian Cheng, 91g:65184
- Li, Kai Tai (with Liu, Zhi Xing; Li, Guo Wei) Finite element-arc length continuation simulations for spherical Couette-Taylor flow. 91c:76046
- Li, Long Yuan Theory of perturbation finite element analysis for solution of nonlinear buckling critical loads of structures. (Not in MR)
- Li, Mao Xiang A penalty finite element method for a class of nonlinear variational inequalities. (Chinese. English summary) 91h:65108
- Li, Zhi Ping The finite element incremental method for nonlinear elasticity. 91j:73066
- Liang, Guo Ping (with Liang, Ping) Nonconforming domain decomposition with the hybrid finite element method. 91d:65188
- Liang, Ping *see* Liang, Guo Ping, 91d:65188
- Liu, Qun (with Liu, Jia Quan) An introduction to finite element extrapolation techniques starting from calculations of ratios of circumferences. (Chinese) 91c:65044
- Liu, Yanping *see* Cannon, John R., 91b:65118 and 91g:65298
- Liu, Jia Quan *see* Liu, Qun, 91c:65044
- Liu, Ying Xi (with Shang, Xuan Yu) Analysis of the two-dimensional Navier-Stokes problem by a penalty quasiconforming element technique. (Chinese. English summary) (Not in MR)
- Liu, Zhi Xing *see* Li, Kai Tai; et al., 91c:76046
- Lund, J. R. *see* McArthur, Kelly M.; et al., 91c:65061
- Maday, Yvon Analysis of spectral projectors in one-dimensional domains. 91c:41095
- Mandel, Jan Two-level domain decomposition preconditioning for the p -version finite element method in three dimensions. 91d:65189
- Maslovskaya, L. V. Convergence of the semi-mixed finite element method for fundamental boundary value problems in the theory of shallow shells in weighted Sobolev spaces. (Russian) (see 91b:73001)
- Sharp estimates for the convergence of a semimixed finite element method for basic boundary value problems in the theory of shallow shells in polygonal domains. (Russian) 91c:73109
- Mathur, Kapil K. *see* Johnsson, S. Lennart, (Not in MR)
- McArthur, Kelly M. (with Bowers, Kenneth L.; Lund, J. R.) The sinc method in multiple space dimensions: model problems. 91c:65061
- le Méhaut, A. A finite element approach to surface reconstruction. 91g:65039
- Meir, Amnon J. *see* Gunzburger, Max D.; et al., 91m:76127
- Mizumoto, Hisao *see* Hara, Heihachiro, 91c:65022
- Nakao, Mitsuhito T. A computational verification method of existence of solutions for nonlinear elliptic equations. 91g:35114
- Negrón-Marrero, Pablo V. A numerical method for detecting singular minimizers of multidimensional problems in nonlinear elasticity. 91j:65116
- Nin, Qingxiang *see* Shephard, Mark S.; et al., (91m:65002)
- Noor, Muhammad Aslam (with Tirmizi, S. I. A.) Highly accurate methods for solving unilateral problems. 91f:65116
- Oden, J. Tinsley (with Demkowicz, L.; Rachowicz, W.; Westermann, T. A.) A posteriori error analysis in finite elements: the element residual method for symmetrizable problems with applications to compressible Euler and Navier-Stokes equations. 91m:76073
- *see also* Demkowicz, L.; et al., 91k:76107
- Oganesyan, L. A. (with Oganesyan, N. V.) The projection-difference method for solving the first boundary value problem for a semi-elliptic equation in a curvilinear domain. (Russian. Armenian summary) 91f:65171
- Oganesyan, N. V. *see* Oganesyan, L. A., 91f:65171
- Oskolkov, A. P. On an estimate, uniform on the semiaxis $t > 0$, for the rate of convergence of Galerkin approximations for equations of motion of Kelvin-Voigt fluids. (Russian. English summary) 91f:76002
- Palazotto, A. N. *see* Shih, K.-G., 91a:73047
- Parascioiu, I. *see* Fang, Zhong Sheng, 91h:76086
- Paraskevopoulos, A. *see* Souissi, K.; et al., 91c:78024
- Parreira, Pedro A numerical integration scheme for the Galerkin approach in boundary elements. (see 91b:00041)
- Peeters, M. F. *see* Habashi, W. G.; et al., 91m:76072
- Peterson, Janet S. *see* Gunzburger, Max D.; et al., 91m:76127
- Pietra, Paola *see* Canuto, Claudio, 91m:65282
- Pitkäranta, J. *see* Babuška, Ivo; et al., 91a:73067
- Polman, B. *see* Axelsson, Owe; et al., 91d:65051
- Qian, Ren Zhang A finite element method for nonlinear unsteady heat conduction. (Chinese. English summary) (Not in MR)
- Qin, Shi Lam The perturbation finite element method for solving nonlinear heat conduction

- problems. (Chinese. English summary) (Not in MR)
- Quak, Ewald *see* Dochovski, Lyubomir T., 91k:46027
- Quartapelle, Luigi *see* Ruas, Vitoriano, 91h:76059
- Rachowicz, W. *see* Demkowicz, L.; et al., 91k:76107 and Oden, J. Tinsley; et al., 91m:76073
- Radonović, Desanka The point source function of the mixed difference problem in the half-plane. (Serbo-Croatian summary) 91g:65222
- Ramaswamy, B. Finite element analysis of density flow. 91c:76074
- Rosati, Mario Valerio *see* Geymonat, Giuseppe; et al., 91c:73048
- Rosier, C. *see* Jambert, F.; et al., 91g:76078
- Rosa, Dvora (with Bercovier, Michel) Traveling waves in a cylinder rolling on a flat surface. (French summary) 91k:73099
- Roux, François-Xavier Acceleration of the outer conjugate gradient by reorthogonalization for a domain decomposition method with Lagrange multiplier. (see 91e:65010)
- Ruas, Vitoriano (with Quartapelle, Luigi) Uncoupled finite element solution of biharmonic problems for vector potentials. 91h:76059
- Approximation of the vector potential for viscous incompressible flow via the constant stress finite element. 91e:76044
- Schaeffer, Jack W. *see* French, Donald A., 91i:65165
- Schnack, Eckart (with Karasmanoglu, Namik; Becker, Ingo) Modelling of finite element functions using generalized BEM. (see 91h:00032)
- Segerlind, Larry J. *see* Shayya, Walid H.; et al., (Not in MR)
- Semmler, Ulrich *see* Jung, Michael; et al., 91f:65082
- Sha, De Song (with Sun, Huan Chun; Zhang, Zhong Ding; Yin, Fu Xin) A variational inequality principle in solid mechanics and application in physically nonlinear problems. 91c:73042
- Shalunov, V. V. ★ Многоаспектные методы конечных элементов. (Russian) [Multigrid finite element methods] 91h:65193
- Shang, Xian Yu *see* Liu, Ying Xi, (Not in MR)
- Shayya, Walid H. (with Segerlind, Larry J.; Bralts, Vincent F.) Optimization analysis of the four-level-time schemes. (Not in MR)
- Shepherd, Mark S. (with Niu, Qingxiang; Bachmann, Peggy L.) Some results using stress projectors for error indication and estimation. (see 91m:65002)
- Shi, Zhong Ci On the accuracy of the quasi-conforming and generalized conforming finite elements. 91d:73061
- Shih, K.-G. (with Palazzotto, A. N.) Formulation of boundary integral equations for linear elastic shells. 91a:73047
- Soulis, K. (with Paraskevopoulos, A.; Devoldère, P.; Caquot, E.) Mathematical and numerical analysis of the spreading resistance of semiconductor buried ridge stripe lasers. 91c:78024
- Stenberg, Rolf A technique for analysing finite element methods for viscous incompressible flow. 91k:76112
- Stephan, E. P. *see* Wendland, Wolfgang L., 91k:35063 and Ervin, V. J., 91k:65157
- Stranas, Raimond *see* Frischmuth, Kurt, 91f:65295
- Strelkov, N. A. Optimal coordinate functions in projection-difference methods, widths and lattice packings. (Russian) 91i:65113
- Stummel, F. *see* Fleck, R., 91j:65057
- Sun, Huan Chun *see* Sha, De Song; et al., 91c:73042
- Suri, Manil *see* Baboška, Ivo, 91j:73064
- Svoboda, T. P. *see* Gunzburger, Max D.; et al., 91m:65181 and 91m:65182
- Tao, Da Hong ★ Die Technik der reduzierten Basis bei nichtlinearen finiten Element-Berechnungen. (German) [The reduced basis technique in nonlinear finite element calculations] 91c:73111
- Temam, Roger *see* Jambert, F.; et al., 91g:76078
- Tirmizi, S. I. A. *see* Noor, Muhammad Aslam, 91i:65116
- Tsuchiya, Takuya A note on discrete solutions of the Plateau problem. 91c:49063
- Valente, V. *see* Geymonat, Giuseppe; et al., 91c:73048
- Van Keer, R. *see* Vanmaele, M., (91m:65005)
- Vanmaele, M. (with Van Keer, R.) Convergence and error estimates for a finite element method with numerical quadrature for a second order elliptic eigenvalue problem. (see 91m:65005)
- Vassilevski, P. S. *see* Axelsson, Owe, 91c:65023; 91d:65051 and 91k:65066
- Verchota, Gregory *see* Dahlberg, Björn E. J., 91i:35060
- Vogelius, Michael *see* Jensen, Søren S., 91m:65261
- Wang, Chao Chen *see* Cohen, Harley, 91h:73053
- Wang, Ming¹ On the trace embedding and compact properties of finite element spaces. 91m:46052
- Warby, M. K. *see* Whiteman, J. R.; et al., 91c:73084
- Warnecke, Gerald G. *see* Berger, Harald; et al., 91h:76053
- Welfert, Bruno D. *see* Bank, Randolph E.; et al., 91h:65035
- Wendland, Wolfgang L. (with Stephan, E. P.) A hypersingular boundary integral method for two-dimensional screen and crack problems. 91k:35063
- *see also* Berger, Harald; et al., 91h:76053
- Westermann, T. A. *see* Oden, J. Tinsley; et al., 91m:76073
- Wheler, Mary F. *see* Glowinski, Roland; et al., (91c:65010)
- Whiteman, J. R. (with Beagles, A. E.; Warby, M. K.) Theoretical and practical aspects of finite elements in the context of some problems of solid mechanics. 91c:73084
- Calculation of the forms of singularities in elliptic boundary value problems. (see 91m:65005)
- *see also* Goodsell, G., 91c:73081
- Widlund, Olof B. *see* Dryja, Maksymilian, 91f:65064
- Wu, Chang Hui A multicolour SOR method for the finite-element method. (Not in MR)
- Xie, Zheng Hui Approximation of the nonconforming finite element for a free boundary problem and the iterative solution of the discrete problem. 91h:65162
- Yang, Dao Qi Mixed methods with dynamic finite-element spaces for miscible displacement in porous media. 91k:76114
- Yang, Yi Du The effect of numerical integration in extrapolation for finite element eigenvalues. (Chinese. English summary) (Not in MR)
- A theorem on superconvergence of shifts of finite element approximations for eigenvalue problems. (Chinese. English summary) 91h:65166
- Yin, Fu Xin *see* Sha, De Song; et al., 91c:73042
- Yserentant, Harry Two preconditioners based on the multi-level splitting of finite element spaces. 91j:65076
- *see also* Bank, Randolph E.; et al., 91h:65035
- Zhang, Shangyou Optimal-order nonnested multigrid methods for solving finite element equations. I. On quasi-uniform meshes. 91g:65268
- Optimal-order nonnested multigrid methods for solving finite element equations. II. On nonquasiuniform meshes. 91g:65269
- Zhang, Zhong Ding *see* Sha, De Song; et al., 91c:73042
- Zhu, Jiang Finite element methods for nonlinear Sobolev equations. (Chinese. English summary) 91c:65062

65N35 Spectral, collocation and related methods

- Bai, Hong *see* Sun, Yu Shan, 91m:65286
- Bernardi, Christine (with Maday, Yvon) Approximation results for spectral methods with domain decomposition. 91c:65135
- (with Canuto, Claudio; Maday, Yvon; Métivet, Brigitte) Single-grid spectral collocation for the Navier-Stokes equations. 91g:65253
- Canuto, Claudio Parallelism in spectral methods. (Italian summary) 91h:65183
- (with Pietra, Paola) Boundary and interface conditions within a finite element preconditioner for spectral methods. 91m:65282
- *see also* Bernardi, Christine; et al., 91g:65253
- Celia, Michael A. (with Pinder, George F.) Generalized alternating-direction collocation methods for parabolic equations. I. Spatially varying coefficients. 91g:65254
- (with Pinder, George F.) Generalized alternating-direction collocation methods for parabolic equations. II. Transport equations with application to seawater intrusion problems. 91g:65255
- (with Pinder, George F.) Generalized alternating-direction collocation methods for parabolic equations. III. Nonrectangular domains. 91g:65256
- Doha, E. H. An accurate double Chebyshev spectral approximation for Poisson's equation. 91m:65283
- Funaro, Daniele A variational formulation for the Chebyshev pseudospectral approximation of Neumann problems. 91c:65136
- Gastaldi, Fabio (with Quarteroni, Alfio; Sacchi Landriani, Giovanni) On the coupling of two-dimensional hyperbolic and elliptic equations: analytical and numerical approach. 91m:65284
- (with Quarteroni, Alfio; Sacchi Landriani, Giovanni) Coupling of two-dimensional hyperbolic and elliptic equations. 91i:65187
- Kirsch, Andreas (with Monk, P. B.) Convergence analysis of a coupled finite element and spectral method in acoustic scattering. 91i:65187
- Korneev, V. A. (with Mikheev, A. G.; Rabotnova, E. Yu.; Shamaev, A. S.) A comparison of two numerical methods for solving the problem of the diffraction of an E-polarized plane wave by an ideally conducting periodic surface. (Russian) 91f:65179
- Maday, Yvon *see* Bernardi, Christine, 91c:65135 and 91g:65253
- Métivet, Brigitte *see* Bernardi, Christine; et al., 91g:65253
- Mikheev, A. G. *see* Korneev, V. A.; et al., 91f:65179
- Monk, P. B. *see* Kirsch, Andreas, 91i:65187
- Pavoni, D. Single and multidomain Chebyshev collocation methods for the Korteweg-de Vries equation. 91h:65184
- Pietra, Paola *see* Canuto, Claudio, 91m:65282
- Pinder, George F. *see* Celia, Michael A., 91g:65254; 91g:65255 and 91g:65256
- Plyasunova, A. V. Convergence of the collocation-difference method for linear parabolic equations. I. Local approximation. (Russian) 91i:65188
- Quarteroni, Alfio *see* Gastaldi, Fabio; et al., 91g:65257 and 91m:65284
- Rabotnova, E. Yu. *see* Korneev, V. A.; et al., 91f:65179
- Ringhofer, Christian A spectral method for the numerical simulation of quantum tunneling phenomena. 91c:65074
- Ruotsalainen, K. (with Saranen, Jukka) On the collocation method for a nonlinear boundary integral equation. 91d:65180
- Sacchi Landriani, Giovanni (with Vandeven, Hervé) A multidomain spectral collocation method for the Stokes problem. 91j:65168
- (with Vandeven, Hervé) Error estimates for the spectral approximation of the nonstationary Stokes problem. 91m:65285
- *see also* Gastaldi, Fabio; et al., 91g:65257 and 91m:65284
- Saranen, Jukka *see* Ruotsalainen, K., 91d:65180
- Shamaev, A. S. *see* Korneev, V. A.; et al., 91f:65179
- Sloan, Ian H. (with Wendland, Wolfgang L.) A quadrature-based approach to improving the collocation method for splines of even degree. (German and Russian summaries) 91a:65236
- Sun, Yu Shan (with Bai, Hong) Pseudospectral methods for parabolic problems periodic in t . (Chinese. English summary) 91m:65286
- Vandeven, Hervé Compatibilité des espaces discrets pour l'approximation spectrale du problème de Stokes périodique/non périodique. (English summary) [Compatibility of discrete spaces in the spectral approximation of the periodic/nonperiodic Stokes problem] 91h:65185
- *see also* Sacchi Landriani, Giovanni, 91j:65168 and 91m:65285
- Wendland, Wolfgang L. *see* Sloan, Ian H., 91a:65236
- Zampieri, E. Iterative methods for domain decomposition using spectral tau and collocation approximation. 91f:65180
- Items with secondary classifications in 65N35
- Bernardi, Christine (with Maday, Yvon) Properties of some weighted Sobolev spaces and application to spectral approximations. (French summary) 91c:46046
- (with Maday, Yvon) Relèvement polynomial de traces et applications. (English summary) [Polynomial lifting of traces, and applications] 91k:65040
- Cloot, A. *see* Weideman, J. A. C., 91j:65189
- Desideri, J. A. *see* Guillard, H., 91j:65179
- Deville, M. O. Chebyshev collocation solutions of flow problems. 91g:76063
- Dutt, Pravir Spectral methods for initial-boundary value problems—an alternative approach. 91i:65166

- Freeden, Willi (with Reuter, Richard) A constructive method for solving the displacement boundary-value problem of elastostatics by use of global basis systems. 91a:73013
- Funaro, Daniele (with Heinrichs, Wilhelm) Some results about the pseudospectral approximation of one-dimensional fourth-order problems. 91m:65206
- Gottlieb, David (with Tadmor, Eitan) The CFL condition for spectral approximations to hyperbolic initial-boundary value problems. 91k:65137
- Gaillard, H. (with Desideri, J. A.) Iterative methods with spectral preconditioning for elliptic equations. 91j:65179
- Heinrichs, Wilhelm Algebraic spectral multigrid methods. 91j:65180
- see also Funaro, Daniele, 91m:65206
- Karageorghis, Andreas (with Phillips, Timothy N.) Conforming Chebyshev spectral collocation methods for the solution of laminar flow in a constricted channel. 91k:76131
- Kolobov, B. P. (with Korobitsyna, Zh. L.; Plyasunova, A. V.; Sleptsov, A. G.) The collocation-difference method on moving grids of numerical modeling of boundary layers. (Russian) 91k:76031
- Korobitsyna, Zh. L. see Kolobov, B. P.; et al., 91k:76031
- Maday, Yvon see Bernardi, Christine, 91c:46046 and 91k:65040
- Maier, B. A. On the recovery of surface temperature and heat flux via convolutions. 91k:35326
- Muñoz, Rafael Theoretical analysis of some spectral multigrid methods. 91j:65185
- Phillips, Timothy N. see Karageorghis, Andreas, 91k:76131
- Plyasunova, A. V. see Kolobov, B. P.; et al., 91k:76031
- Quarteroni, Alfio Domain decomposition methods for systems of conservation laws: spectral collocation approximations. 91k:65156
- Reichel, Lothar Solving a model interface problem for the Laplace operator by boundary collocation and applications. 91h:65188
- Reuter, Richard see Freeden, Willi, 91a:73013
- Rjasanow, Sergej The properties of the matrix arising from collocation method for boundary integral equations. 91a:65252
- Sinaitik, E. S. The approximation method in a boundary value problem with partial derivatives. 91k:35007
- Sleptsov, A. G. see Kolobov, B. P.; et al., 91k:76031
- Tadmor, Eitan see Gottlieb, David, 91k:65137
- Vandeven, Hervé On the eigenvalues of second-order spectral differentiation operators. 91j:65188
- Weideman, J. A. C. (with Clout, A.) Spectral methods and mappings for evolution equations on the infinite line. 91j:65189

65N38 Boundary element methods

- Alarcón, E. On the p -adaptive version of the boundary element method. (Spanish) 91g:65258

- Askar, Atilla see Peirce, Anthony P.; et al., 91d:65183
- Atkinson, Kendall E. A survey of boundary integral equation methods for the numerical solution of Laplace's equation in three dimensions. 91j:65169
- (with Chandler, Graeme) Boundary integral equation methods for solving Laplace's equation with nonlinear boundary conditions: the smooth boundary case. 91d:65181
- Azevedo, J. P. S. (with Brebbia, C. A.) An efficient technique for reducing domain integrals to the boundary. 91f:65181
- Babuska, Ivo (with Guo, Ben Qi; Stephan, E. P.) The h - p version of the boundary element method with geometric mesh on polygonal domains. 91h:65186
- Becker, Ingo see Schnack, Eckart; et al., (91h:00032)
- Bourlard, Maryse (with Nicaise, Serge; Paquet, Luc) An adapted boundary element method for the Dirichlet problem in polygonal domains. 91m:65287
- Brebbia, C. A. On two different methods for transforming domain integrals to the boundary. (see 91f:00014)
- see also Azevedo, J. P. S., 91f:65181
- Brilla, Josef Mathematical and computational aspects of Laplace transform-BEM for time dependent problems. 91c:65137
- Bunch, K. J. (with Grow, R. W.) Numerical aspects of the boundary residual method. (Not in MR)
- Cal, Zhi Qiang (with McCormick, Stephen F.) On the accuracy of the finite volume element method for diffusion equations on composite grids. 91d:65182
- Chandler, Graeme see Atkinson, Kendall E., 91d:65181
- Ding, Fang Ming see Yan, Geng, 91h:65135
- Flood, C. F. (with Hall, W. S.) The boundary representation angle in 2D BEM potential problems. 91h:65187
- Grannell, J. J. BEM-FEM coupling for screen and infinite domain potential problems. 91k:65147
- Greguš, Michal (with Khoromskii, B. N.; Mazurkevich, G. E.; Zhidkov, E. P.) On approximation of nonlinear boundary integral equations for the combined method. (see 91f:00015)
- Grow, R. W. see Bunch, K. J., (Not in MR)
- Guo, Ben Qi (with von Petersdorff, T.; Stephan, E. P.) An h - p version of BEM for plane mixed boundary value problems. (see 91f:00014)
- see also Babuska, Ivo; et al., 91h:65186
- Hall, W. S. Integration methods for singular boundary element integrands. 91f:65182
- see also Flood, C. F., 91h:65187
- Hayakawa, Kantaro (with Iso, Yuusuke) High-order uniform convergence estimation of boundary solutions for Laplace's equation. 91m:65288
- Ingber, Marc S. (with Rudolph, Thomas J.) Solution of potential problems using combinations of the regular and derivative boundary integral equations. (Not in MR)
- Iso, Yuusuke see Hayakawa, Kantaro, 91m:65288
- Jin, Chao Song see Zhu, Jia Lin, 91f:65186
- Karaozomanoglu, Namik see Schnack, Eckart; et al., (91h:00032)
- Khoromskii, B. N. see Greguš, Michal; et al., (91f:00015)
- Li, Zi-Cai (with Mathon, Rudolf) Boundary approximation methods for solving elliptic problems on unbounded domains. 91f:65183
- Liu, Yong Hui (with Lu, Xin Sen) A field point reflection approach to utilizing symmetric conditions in boundary element methods. (Chinese. English summary) 91m:65289

- Loeffler, C. F. (with Mansur, W. J.) Dual reciprocity boundary element formulation for potential problems in infinite domains. 91f:65184
- Lu, Xin Sen see Liu, Yong Hui, 91m:65289
- Mansur, W. J. see Loeffler, C. F., 91f:65184
- Mathon, Rudolf see Li, Zi-Cai, 91f:65183
- Mazurkevich, G. E. see Greguš, Michal; et al., (91f:00015)
- McCormick, Stephen F. see Cal, Zhi Qiang, 91d:65182
- Nicaise, Serge see Bourlard, Maryse; et al., 91m:65287
- Paquet, Luc see Bourlard, Maryse; et al., 91m:65287
- Parreira, Pedro Further developments on error indicators and estimators for adaptive hierarchical boundary elements. (see 91f:00014)
- Peirce, Anthony P. (with Askar, Atilla; Rabitz, Herschel) Convergence properties of a class of boundary element approximations to linear diffusion problems with localized nonlinear reactions. 91d:65183
- von Petersdorff, T. see Guo, Ben Qi; et al., (91f:00014)
- Pina, H. L. The evaluation of domain integrals in the boundary element method. 91e:65138
- Postell, F. V. (with Stephan, E. P.) On the h -, p - and h - p versions of the boundary element method—numerical results. (Not in MR)
- Rabitz, Herschel see Peirce, Anthony P.; et al., 91d:65183
- Reichel, Lothar Solving a model interface problem for the Laplace operator by boundary collocation and applications. 91h:65188
- Rudolph, Thomas J. see Ingber, Marc S., (Not in MR)
- Schnack, Eckart (with Karaozomanoglu, Namik; Becker, Ingo) Modelling of finite element functions using generalized BEM. (see 91h:00032)
- Stephan, E. P. The h - p version of the Galerkin boundary element method for integral equations on polygons and open arcs. 91f:65185
- see also Babuska, Ivo; et al., 91h:65186; Postell, F. V., (Not in MR) and Guo, Ben Qi; et al., (91f:00014)
- Wang, Hong¹ A boundary element method for the Laplace equation in the plane. (Chinese) (Not in MR)
- Wu, Zi Qian¹ see Xuan, Qi Wo, 91g:65259
- Xuan, Qi Wo (with Wu, Zi Qian¹) A new boundary integral equation for the Poisson equation. (Chinese. English summary) 91g:65259
- Yan, Geng (with Ding, Fang Ming) The composite boundary element method. (Chinese. English summary) 91h:65135
- Zhidkov, E. P. see Greguš, Michal; et al., (91f:00015)
- Zhu, Jia Lin (with Jin, Chao Song) Boundary element approximation of Stokes equation with slip boundary condition. 91f:65186

Items with secondary classifications in 65N38

- Abou El-Seoud, M. Samir see Ervin, V. J.; et al., 91j:65196
- Aganović, Ibrahim Introduction to the method of finite and boundary elements. I. (Serbo-Croatian) 91g:65232
- (Akhundzhanov, E. R.) see Hromadka, Theodore V., II, 91f:73039
- Alujević, Andro see Skerget, Polje, 91c:76037
- Amial, S. (with Chen, Ke) Iterative techniques for boundary element methods—application to the exterior acoustic problem. 91c:76077
- Babuska, Ivo (with Guo, Ben Qi; Stephan, E. P.) On the exponential convergence of the h - p version for boundary element Galerkin methods on polygons. 91f:65174
- Bieterman, Michael B. see Bussioletti, John E.; et al., 91f:65199
- Bossavit, A. Mixed methods and the marriage between finite elements and boundary elements. 91g:65236
- (Brebbia, C. A.) see Advances in boundary elements, 91f:00014; 91f:00015 and 91f:00016
- Burkhart, Richard H. see Bussioletti, John E.; et al., 91f:65199
- Bussioletti, John E. (with Johnson, Forrester T.; Young, David P.; Melvin, Robin G.; Burkhart, Richard H.; Bieterman, Michael B.; Samant, Satish S.; SenGupta, Gautam) TRANAIR technology: solutions for large PDE problems. 91f:65199
- Chen, Ke see Amial, S., 91c:76077
- Clements, D. L. The boundary element method for linear elliptic equations with variable coefficients. 91g:35083
- (Connor, J. J.) see Advances in boundary elements, 91f:00014; 91f:00015 and 91f:00016
- Detsournay, C. A boundary element technique for conformal mapping. 91c:30012
- Dewynne, J. N. (with Howison, S. D.; Ockendon, J. R.) The numerical solution of a continuous casting problem. (see 91m:35004)
- Engermond, P. P. B. (with Saranen, Jukka) L^p estimates of boundary integral equations for some nonlinear boundary value problems. 91m:65325
- Ervin, V. J. (with Stephan, E. P.; Abou El-Seoud, M. Samir) An improved boundary element method for the charge density of a thin electrified plate in \mathbb{R}^3 . 91j:65196
- (with Stephan, E. P.) A boundary element Galerkin method for a hypersingular integral equation on open surfaces. 91k:65157
- Gründemann, Heinz Boundary element homogenization of composite materials. 91k:73103
- Guo, Ben Qi see Babuska, Ivo; et al., 91h:65186
- Howison, S. D. see Dewynne, J. N.; et al., (91m:35004)
- Hromadka, Theodore V., II (with Lai, Chintu) ★ Комплексный метод граничных элементов в инженерных задачах. (Russian) [The complex boundary element method in engineering problems] 91f:73039
- Hsiao, G. C. The coupling of BEM and FEM—a brief review. 91c:65071
- Jiang, Yansheng ★ Slope analysis using boundary elements. 91f:73091
- Johnson, Forrester T. see Bussioletti, John E.; et al., 91f:65199
- Korneev, V. A. (with Mikheev, A. G.; Rabotnova, E. Yu.; Shamaev, A. S.) A comparison of two numerical methods for solving the problem of the diffraction of an E -polarized plane wave by an ideally conducting periodic surface. (Russian) 91f:65179
- (Krivchuk, A. S.) see Hromadka, Theodore V., II, 91f:73039
- Lai, Chintu see Hromadka, Theodore V., II, 91f:73039
- Melvin, Robin G. see Bussioletti, John E.; et al., 91f:65199
- Mikheev, A. G. see Korneev, V. A.; et al., 91f:65179
- Ockendon, J. R. see Dewynne, J. N.; et al., (91m:35004)
- Onuki, Takashi (with Wakao, Shinji) Hybrid boundary element and finite element analysis of three-dimensional electromagnetic problems. (Japanese) 91j:78002

- von Petersdorff, T. (with Stephan, E. P.) Regularity of mixed boundary value problems in R^3 and boundary element methods on graded meshes. 91k:35049
- Rabotova, E. Ya. see Korneev, V. A.; et al., 91f:65179
- Samant, Satish S. see Bussioletti, John E.; et al., 91f:65199
- Sarason, D. see Eggermont, P. P. B., 91m:65325
- Schmidt, Gunther (with Strese, H.) A direct BEM for magnetic fields. (German and Russian summaries) 91i:78008
- SenGupta, Ganjam see Bussioletti, John E.; et al., 91f:65199
- Shamaev, A. S. see Korneev, V. A.; et al., 91f:65179
- Skerget, Polje (with Alujević, Andro) Time dependent thermo-hydraulics by boundary elements. (Slovenian summary) 91e:76037
- Stephan, E. P. see Babutka, Ivo; et al., 91f:65174; Ervin, V. J.; et al., 91j:65196; von Petersdorff, T., 91k:35049 and Ervin, V. J., 91k:65157
- Strese, H. see Schmidt, Gunther, 91i:78008
- Titskii, V. P. On a new method for solving some problems of mathematical physics. (Russian. English summary) 91m:65314
- Wakao, Shiroji see Onuki, Takashi, 91j:78002
- Young, David P. see Bussioletti, John E.; et al., 91f:65199

Items listed otherwise than by author

- Advances in boundary elements** ★ Advances in boundary elements. Vol. 1. 91f:00014
- ★ Advances in boundary elements. Vol. 2. 91f:00015
- ★ Advances in boundary elements. Vol. 3. 91f:00016
- Cambridge, MA ★ Advances in boundary elements. Vol. 1. 91f:00014
- ★ Advances in boundary elements. Vol. 2. 91f:00015
- ★ Advances in boundary elements. Vol. 3. 91f:00016
- Conference:**
- Boundary Element Methods** ★ Advances in boundary elements. Vol. 1. 91f:00014
- ★ Advances in boundary elements. Vol. 2. 91f:00015
- ★ Advances in boundary elements. Vol. 3. 91f:00016

65N40 Method of lines

- Blom, J. G. see Verwer, J. G.; et al., (91m:65002)
- Furzeland, R. M. see Verwer, J. G.; et al., (91m:65002)
- Meyer, Gunter H. Numerical solution of diffusion problems with nonlocal free boundary conditions. (see 91m:35004)
- Schwab, Christoph see Xanthis, Leonidas S., 91m:65290
- Verwer, J. G. (with Blom, J. G.; Furzeland, R. M.; Zegeling, P. A.) A moving grid method for one-dimensional PDEs based on the method of lines. (see 91m:65002)
- Xanthis, Leonidas S. (with Schwab, Christoph) The method of arbitrary lines. (French summary) 91m:65290
- Zegeling, P. A. see Verwer, J. G.; et al., (91m:65002)

Items with secondary classifications in 65N40

- Ashyralyev, A. O. On uniform difference schemes of a higher order of approximation for elliptical equations with a small parameter. 91d:65105
- Ichinose, Kenichi see Tokunaga, Hiroshi; et al., (Not in MR)
- Satofuka, Nobuyuki see Tokunaga, Hiroshi; et al., (Not in MR)
- Tokunaga, Hiroshi (with Ichinose, Kenichi; Satofuka, Nobuyuki) Numerical simulation of instability on plane Poiseuille flow using eighth order accurate method of lines. (Not in MR)

65N45 Method of contraction of the boundary

- Huang, He Ning (with Wang, Fa Jun) High-order boundary conditions for the problems of Laplace equation in infinite region and their application. 91k:65148
- Wang, Fa Jun see Huang, He Ning, 91k:65148

65N50 Mesh generation and refinement

- Altas, Irfan (with Stephenson, John W.) A two-dimensional adaptive mesh generation method. 91m:65291
- Berger, Marsha J. Some applications of adaptive mesh refinement. (see 91m:65002)
- Bui, T. D. (with Hanh, V. N.) Automatic mesh generation for finite element analysis. (German summary) 91f:65187
- Carey, Graham F. see Pardhanani, Anand, 91a:65237
- Castillo, José E. An adaptive direct variational grid generation method. (Not in MR)
- Dansenhoffer, John F., III Adaptive grid embedding for complex two-dimensional transonic flows. (see 91m:65002)
- Duncan, Dugald B. A simple and effective self-adaptive moving mesh for enthalpy formulations of phase change problems. 91m:65292
- Ewing, Richard E. Adaptive grid refinements for transient flow problems. (see 91m:65002)
- Flaherty, Joseph E. (with Moore, Peter K.; Ozturan, Can) Adaptive overlapping grid methods for parabolic systems. (see 91m:65002)
- Glowinski, Roland (with Kinton, W.; Wheeler, Mary F.) Acceleration of domain decomposition algorithms for mixed finite elements by multi-level methods. (see 91a:65010)
- Gropp, William D. see Keyes, David E., (Not in MR)
- Hanh, V. N. see Bui, T. D., 91f:65187
- Joe, Barry Three-dimensional triangulations from local transformations. 91c:65075
- Kamenetskii, D. S. (with Tsyknov, S. V.) Numerical generation of conformal grids in the exterior of a bounded simply connected domain based on the method of difference potentials. (Russian. English summary) 91j:65170
- Keyes, David E. (with Gropp, William D.) Domain decomposition techniques for the parallel solution of nonsymmetric systems of elliptic boundary value problems. (Not in MR)
- see also Smooke, M. D.; et al., (91m:65002)
- Kinton, W. see Glowinski, Roland; et al., (91a:65010)
- Kuznetsov, A. Yu. (with Nikulina, I. K.) ★ Методы тестирования трехмерных сеток. (Russian) [Methods for testing three-dimensional grids] (Not in MR)

- Levanov, A. G. (with Solov'ev, A. V.; Shashkov, M. Yu.) A method for reinterpolation of gas dynamic parameters in a quadrangular grid for a grid of Dirichlet cells. (Russian) 91k:65150
- McCormick, Stephen F. Multilevel adaptive schemes and domain decomposition methods. (see 91b:00050)
- Mitchell, R. E. see Smooke, M. D.; et al., (91m:65002)
- Moore, Peter K. see Flaherty, Joseph E.; et al., (91m:65002)
- Nikulina, I. K. see Kuznetsov, A. Yu., (Not in MR)
- Ozturan, Can see Flaherty, Joseph E.; et al., (91m:65002)
- Pardhanani, Anand (with Carey, Graham F.) Optimization of computational grids. 91a:65237
- Petrov, Linda R. An adaptive moving grid method for one-dimensional systems of PDEs and its numerical solution. (see 91m:65002)
- Shashkov, M. Yu. see Solov'ev, A. V., 91k:65149 and Levanov, A. G.; et al., 91k:65150
- Smooke, M. D. (with Mitchell, R. E.; Keyes, David E.) Numerical solution of confined axisymmetric laminar diffusion flames. (see 91m:65002)
- Solov'ev, A. V. (with Shashkov, M. Yu.) A generalization of the concept of the Dirichlet cell for a nonconvex domain. (Russian) 91k:65149
- see also Levanov, A. G.; et al., 91k:65150
- Stephenson, John W. see Altas, Irfan, 91m:65291
- Thompson, J. F. see Warsi, Z. U. A., 91d:65184
- Tsyknov, S. V. see Kamenetskii, D. S., 91j:65170
- Warsi, Z. U. A. (with Thompson, J. F.) Application of variational methods in the fixed and adaptive grid generation. 91d:65184
- Wheeler, Mary F. see Glowinski, Roland; et al., (91a:65010)

Items with secondary classifications in 65N50

- Bourlard, Maryse (with Nicaise, Serge; Paquet, Luc) An adapted boundary element method for the Dirichlet problem in polygonal domains. 91m:65287
- Cheshire, G. (with Hanshaw, W. D.) Composite overlapping meshes for the solution of partial differential equations. 91f:66043
- Dahle, Helge K. see Savareid, Ove; et al., (91e:65010)
- Espedal, Magne S. see Savareid, Ove; et al., (91e:65010)
- Ewing, Richard E. (with Lazarov, Raicho D.; Russell, T. F.; Vassilevski, P. S.) Local refinement via domain decomposition techniques for mixed finite element methods with rectangular Raviart-Thomas elements. 91f:65191
- (with Lazarov, Raicho D.; Vassilevski, P. S.) Finite difference schemes on grids with local refinement in time and space for parabolic problems. I. Derivation, stability, and error analysis. (German summary) 91m:65255
- (with Lazarov, Raicho D.; Vassilevski, P. S.) Local refinement techniques for elliptic problems on cell-centered grids. I. Error analysis. 91m:65256
- Goodsell, G. (with Whiteman, J. R.) A unified treatment of superconvergent recovered gradient functions for piecewise linear finite element approximations. 91k:65144
- Hanshaw, W. D. see Cheshire, G., 91f:66043
- Krupp, Patrick M. The direct variational grid generation method extended to curves. (Not in MR)
- Lazarov, Raicho D. see Ewing, Richard E.; et al., 91f:65191; 91m:65255 and 91m:65256
- Maitre, J.-F. Solution of elliptic boundary value problems by adaptive finite element and hierarchical multigrid: a survey and an estimation of the work. (see 91b:00050)
- Nicaise, Serge see Bourlard, Maryse; et al., 91m:65287
- Nochetto, Ricardo H. (with Paolini, M.; Verdi, C.) Self-adaptive mesh modification for parabolic FBP: theory and computation. (see 91m:35004)
- Paolini, M. see Nochetto, Ricardo H.; et al., (91m:35004)
- Paquet, Luc see Bourlard, Maryse; et al., 91m:65287
- von Petersdorff, T. (with Stephan, E. P.) Regularity of mixed boundary value problems in R^3 and boundary element methods on graded meshes. 91k:35049
- Russell, T. F. see Ewing, Richard E.; et al., 91f:65191
- Savareid, Ove (with Dahle, Helge K.; Espedal, Magne S.) Domain decomposition for reservoir flow problems. (see 91e:65010)
- Schroeder, William J. Geometric triangulations with application to automatic mesh generation. (see 91m:65002)
- Stephan, E. P. see von Petersdorff, T., 91k:35049
- Vassilevski, P. S. Algebraic multilevel preconditioners for elliptic problems with condensation of the finite element stiffness matrix. 91m:65279
- see also Ewing, Richard E.; et al., 91f:65191; 91m:65255 and 91m:65256
- Verdi, C. see Nochetto, Ricardo H.; et al., (91m:35004)
- Whiteman, J. R. see Goodsell, G., 91k:65144

65N55 Multigrid methods; domain decomposition

- Agoshkov, V. I. (with Buleev, S. N.) Numerical realization of the method of decomposition of domains. (Russian) 91k:65151
- Bank, Randolph E. (with Bürgler, Josef F.; Coughran, W. M., Jr.; Fichtner, Wolfgang; Smith, R. Kent) Recent progress in algorithms for semiconductor device simulation. (see 91i:00035)
- Barros, Saulo R. M. Multigrid methods for two- and three-dimensional Poisson-type equations on the sphere. 91k:65152
- Brakhagen, Franz ★ Das achsensymmetrische, stationäre Wassergegelpproblem bei der Erdölförderung. (German) [The axisymmetric, stationary water cone problem in oil production] 91g:65260
- Bramble, James H. (with Pasciak, Joseph E.) A domain decomposition technique for Stokes problems. 91f:65188
- Brenner, Susanne C. Multigrid methods for nonconforming finite elements. 91h:65189
- Buleev, S. N. A modification of the method of domain decomposition. (Russian) 91d:65185
- ★ Программная реализация алгоритмов разделения областей. (Russian) [Program realization of domain decomposition algorithms] 91m:65293
- see also Agoshkov, V. I., 91k:65151
- Bürgler, Josef F. see Bank, Randolph E.; et al., (91i:00035)

- Carey, Graham F. (with Pardhanani, Anand) Multigrid solution and grid redistribution for convection-diffusion. 91d:65186
- Chan, Tony F. Domain decomposition algorithms and computational fluid dynamics. (see 91k:65014)
- (with Goovaerts, Danny) A note on the efficiency of domain decomposed incomplete factorizations. 91f:65189
- Coughran, W. M., Jr. see Bank, Randolph E.; et al., (91m:00035)
- Despres, Bruno Décomposition de domaine et problème de Helmholtz. (English summary) [Domain decomposition method for the Helmholtz problem] 91k:65153
- Dostál, Zdeněk Projector preconditioning and domain decomposition methods. (Not in MR)
- Douglas, Craig C. (with Mandel, Jan) The domain reduction method: high way reduction in three dimensions and convergence with inexact solvers. 91f:65190
- (with Smith, Barry F.) Using symmetries and antisymmetries to analyze a parallel multigrid algorithm: the elliptic boundary value problem case. 91d:65187
- A variation of the Schwarz alternating method: the domain decomposition reduction method. 91g:65261
- Dryja, Maksymilian (with Widlund, Olof B.) Towards a unified theory of domain decomposition algorithms for elliptic problems. 91m:65294
- Eder, Ali see Keyes, David E.; et al., (91g:65262)
- Ewing, Richard E. (with Lazarov, Raicho D.; Russell, T. F.; Vassilevski, P. S.) Local refinement via domain decomposition techniques for mixed finite element methods with rectangular Raviart-Thomas elements. 91f:65191
- Fichtner, Wolfgang see Bank, Randolph E.; et al., (91m:00035)
- Finogenov, S. A. see Osorgin, G. K., (91m:65004)
- Friedman, Morton B. see Luo, Jenn-Ching, 91m:65298
- Globisch, Gerhard (with Jung, Michael) Mehrgitterverfahren für Interfaceprobleme. [Multigrid methods for interface problems] (see 91k:65013)
- Goldstein, Charles I. Multigrid analysis of finite element methods with numerical integration. 91h:65190
- Goovaerts, Danny see Chan, Tony F., 91f:65189
- Gottlieb, David (with Hirsh, Richard S.) Parallel pseudospectral domain decomposition techniques. 91f:65192
- Goyal, Anu see Iyengar, Sattelluri R. K., 91m:65296
- Greenbaum, Anne (with Reiter, Edna; Rodrigue, Garry) A parallel iterative method for solving 3-D elliptic partial differential equations. (see 91f:65006)
- Gropp, William D. see Keyes, David E.; et al., 91g:65262
- Hackbusch, Wolfgang The frequency decomposition multi-grid method as new approach to robust solvers. (see 91h:00032)
- Heinrichs, Wilhelm A 3D spectral multigrid method. (Not in MR)
- Hemker, P. W. On the order of prolongations and restrictions in multigrid procedures. 91m:65295
- Herter, Rainer Einführung in Mehrgitterverfahren. [Introduction to multigrid methods] 91c:65076
- Hirsh, Richard S. see Gottlieb, David, 91f:65192
- Holter, William H. (with VandenBerghe, George) A comparison of vectorized methods for solving the two-dimensional diffusion equation: multigrid versus polynomial preconditioned conjugate gradient. 91f:65189
- Iyengar, Sattelluri R. K. (with Goyal, Anu) A note on multigrid for the three-dimensional Poisson equation in cylindrical coordinates. 91m:65296
- Jung, Michael see Globisch, Gerhard, (91k:65013)
- Keyes, David E. (with Gropp, William D.; Eder, Ali) Domain decomposition techniques for large sparse nonsymmetric systems arising from elliptic problems with first-order terms. 91g:65262
- Kon'shin, I. N. Optimization of multigrid domain decomposition methods. (Russian) (see 91m:65004)
- Kucherenko, V. V. A study of the convergence of the multigrid method for stiff problems. 91h:65191
- Kuznetsov, Yuri Alekseevich Multilevel methods for domain decomposition. (Russian) 91h:65192
- ★ Алгебраические многоуровневые методы декомпозиции области. (Russian) [Algebraic multigrid methods for the decomposition of a domain] 91f:65190
- Multigrid domain decomposition methods for elliptic problems. 91k:65154
- Domain decomposition methods for unsteady convection-diffusion problems. (see 91m:00026)
- Multigrid domain decomposition methods. 91g:65263
- Multi-level domain decomposition methods. 91g:65264
- Lapin, A. V. ★ Метод декомпозиции области для сеточной аппроксимации двухфазной задачи Стефана. (Russian) [The domain decomposition method for difference approximation of the two-phase Stefan problem] 91m:65297
- Lazarov, Raicho D. see Ewing, Richard E.; et al., 91f:65191
- Liang, Gao Ping (with Liang, Ping) Nonconforming domain decomposition with the hybrid finite element method. 91d:65188
- Liang, Ping see Liang, Gao Ping, 91d:65188
- Liebau, Frank see Wittum, Gabriel, 91d:65192
- Liem, Chin Bo see Li, Tao; et al., 91g:65265
- Li, Tao (with Shih, Tsi Min; Liem, Chin Bo) A synchronous domain decomposition method with an estimate of convergence rate. 91g:65265
- Luo, Jenn-Ching (with Friedman, Morton B.) A study on decomposition methods. 91m:65298
- Mandel, Jan (with Parter, Seymour V.) On the multigrid F -cycle. 91g:65266
- Two-level domain decomposition preconditioning for the p -version finite element method in three dimensions. 91d:65189
- see also Douglas, Craig C., 91f:65190
- Mates, P. F. On the construction of difference schemes on adaptive meshes. (Russian. English summary) 91f:65191
- Meurant, Gérard A. Domain decomposition preconditioners for the conjugate gradient method. 91f:65193
- Domain decomposition methods for partial differential equations on parallel computers. (see 91k:65014)
- Meyer, Arnd A parallel preconditioned conjugate gradient method using domain decomposition and inexact solvers on each subdomain. (German summary) 91f:65192
- Niestegge, A. (with Witsch, Kristian) Analysis of a multigrid Stokes solver. 91h:65136
- Osorgin, G. K. (with Finogenov, S. A.) The multigrid method of fictitious components for solving a system of Lamé equations. (Russian) (see 91m:65004)
- Pardhanani, Anand see Carey, Graham F., 91d:65186
- Parter, Seymour V. see Mandel, Jan, 91g:65266
- Pasciak, Joseph E. see Bramble, James H., 91f:65188
- Quarteroni, Alfio A domain decomposition method for the numerical solution of partial differential equations. (Russian) 91f:65139
- (with Valli, Alberto) Domain decomposition for a generalized Stokes problem. 91k:65155
- Domain decomposition methods for systems of conservation laws: spectral collocation approximations. 91k:65156
- Rao, Chuan Xia Solving a class of interface problems by symmetric domain decomposition methods. (Chinese. English summary) 91d:65190
- Reiter, Edna see Greenbaum, Anne; et al., (91f:65006)
- Rodrigue, Garry see Greenbaum, Anne; et al., (91f:65006)
- Russell, T. F. see Ewing, Richard E.; et al., (91f:65191)
- Shaidurov, V. V. ★ Многосеточные методы конечных элементов. (Russian) [Multigrid finite element methods] 91h:65193
- Shih, Tsi Min see Li, Tao; et al., 91g:65265
- Smith, Barry F. see Douglas, Craig C., 91d:65187
- Smith, R. Kent see Bank, Randolph E.; et al., (91m:00035)
- Spataleri, R. M. A multigrid method for grid generation with line-spacing control. 91f:65171
- Saillard, H. Konstruktion von Prolongation/Restriktion nach lokalen Minimierungskriterien für eine Aufgabe mit nichtkonstanten Koeffizienten. [Construction of prolongation/restriction according to local minimization criteria for a problem with nonconstant coefficients] (see 91k:65013)
- Ta'asan, Shlomo Multigrid methods for distributed parameter systems. 91g:65267
- Multigrid methods for locating singularities in bifurcation problems. 91d:65191
- Vabishchevich, P. N. Iterative methods of domain decomposition with overlap for elliptic boundary value problems. 91h:65194
- Valli, Alberto see Quarteroni, Alfio, 91f:65155
- VandenBerghe, George see Holter, William H., 91f:65189
- Vassilevski, P. S. see Ewing, Richard E.; et al., 91f:65191
- Widlund, Olof B. see Dryja, Maksymilian, 91m:65294
- Witsch, Kristian see Niestegge, A., 91h:65136
- Wittum, Gabriel (with Liebau, Frank) On truncated incomplete decompositions. 91d:65192
- Xu, Jinchao Convergence estimates for some multigrid algorithms. 91f:65194
- Zanolli, P. Domain decomposition algorithms for spectral methods. 91d:65193
- Zhang, Shangyou Optimal-order nonnested multigrid methods for solving finite element equations. I. On quasi-uniform meshes. 91g:65268
- Optimal-order nonnested multigrid methods for solving finite element equations. II. On nonquasiuniform meshes. 91g:65269

Items with secondary classifications in 65N55

- Bernardi, Christine (with Maday, Yvon) Approximation results for spectral methods with domain decomposition. 91f:65135
- Blömer, C. see Braess, D., 91e:73108
- Braess, D. (with Blömer, C.) A multigrid method for a parameter dependent problem in solid mechanics. 91e:73108
- Bramble, James H. (with Pasciak, Joseph E.; Xu, Jinchao) The analysis of multigrid algorithms with nonnested spaces or noninherited quadratic forms. 91h:65159
- (with Xu, Jinchao) Some estimates for a weighted L^2 projection. 91k:65140
- (with Pasciak, Joseph E.; Wang, Jun Ping; Xu, Jinchao) Convergence estimates for multigrid algorithms without regularity assumptions. 91m:65158
- Briggs, William L. (with Henson, Van Emden) The FFT as a multigrid algorithm. 91f:65224
- Cai, Zhi Qiang (with McCormick, Stephen F.) On the accuracy of the finite volume element method for diffusion equations on composite grids. 91d:65182
- Chan, Tony F. see Kuo, C.-C. Jay; et al., 91g:65087
- Cottet, Georges-Henri A particle-grid superposition method for the Navier-Stokes equations. 91e:76082
- Dawson, Clint N. (with Du, Qiang; Dupont, Todd F.) A finite difference domain decomposition algorithm for numerical solution of the heat equation. 91m:65254
- Decker, Naomi H. A note on the parallel efficiency of the Frederickson-McBryan multigrid algorithm. 91j:65206
- Du, Qiang see Dawson, Clint N.; et al., 91m:65254
- Dupont, Todd F. see Dawson, Clint N.; et al., 91m:65254
- Ewing, Richard E. Preconditioned conjugate gradient methods for large-scale fluid flow applications. 91d:65052
- Foresti, S. see Hassanzadeh, S.; et al., (91m:65002)
- Globisch, Gerhard (with Langer, Ulrich) On the use of multigrid preconditioners in a multigrid software package. (see 91k:65012)
- Gustafsson, Bertil (with Lötstedt, Per) Analysis of the multigrid method applied to first order systems. 91g:65278
- Hassanzadeh, S. (with Foresti, S.; Sonnad, V.) A multilevel solution method for the incompressible Navier-Stokes equations. (see 91m:65002)
- Hemker, P. W. (with Koren, Barry) Defect correction and nonlinear multigrid for the steady Euler equations. 91d:76058
- (Hengst, Sabine) see Seminar: Multigrid, 91k:65013
- Henson, Van Emden see Briggs, William L., 91f:65224
- Hu, Xian Cheng (with Liu, Jin Ting) Algorithm design for adaptive multigrid finite elements. (Chinese. English summary) 91g:65240
- Hughes, Thomas J. R. see Shakib, Farzin; et al., 91f:65070
- James, Douglas (with Plemmons, Robert J.) An iterative substructuring algorithm for equilibrium equations. 91f:65066

- Jiang, Xun Lei Perturbation analysis of the multigrid method and its application. (Chinese. English summary) 91h:65128
- Johan, Zdeněk see Shakib, Farzid; et al., 91f:65070
- Koren, Barry (with Spekreijse, Stefan) Multigrid and defect correction for the efficient solution of the steady Euler equations. (see 91k:76003)
- see also Hemker, P. W., 91d:76058
- Kuo, C.-C. Jay (with Chan, Tony F.; Tong, Charles) Multilevel filtering elliptic preconditioners. 91g:65087
- Lang, Wilgard Some algebraic aspects of multigrid methods. (see 91k:65007)
- Langer, Ulrich¹ Applications of multigrid preconditioners to mixed and nonlinear variational problems. (see 91h:00032)
- see also Globisch, Gerhard, (91k:65012)
- Liem, Chin Bo see Li, Tao; et al., 91f:65124
- Liu, Jin Ting see Hu, Xian Cheng, 91g:65240
- Lötstedt, Per see Gustafsson, Bertil, 91g:65278
- Li, Tao (with Liem, Chin Bo; Shih, Tsi Min) Parallel algorithms for variational inequalities based on domain decomposition. 91f:65124
- Maday, Yvon see Bernardi, Christine, 91e:65135
- Mansfield, Lois On the conjugate gradient solution of the Schur complement system obtained from domain decomposition. 91h:65083
- McCormick, Stephen F. ★ Multilevel adaptive methods for partial differential equations. 91h:65206
- see also Cai, Zhi Qiang, 91d:65182
- Mu, Mo Data structure for multigrid techniques. (Chinese. English summary) (Not in MR)
- Pan, Victor (with Reif, John Henry) On the bit-complexity of discrete solutions of PDEs: compact multigrid. (see 91e:68004)
- Pasciak, Joseph E. see Bramble, James H.; et al., 91h:65159 and 91m:65158
- Peisker, P. (with Rust, W.; Stein, Erwin) Iterative solution methods for plate bending problems: multigrid and preconditioned cg algorithm. 91h:73055
- Perkins, A. Louise (with Rodrigue, Garry) A domain decomposition method for solving a two-dimensional viscous Burgers' equation. 91h:65209
- Plemmons, Robert J. see James, Douglas, 91f:65066
- Popa, Constantin On smoothing properties of SOR relaxation for algebraic multigrid method. 91a:65085
- Práger, Milan An iterative method of alternating type for systems with special block matrices. (Czech summary) 91k:65068
- Reif, John Henry see Pan, Victor, (91e:68004)
- Rodrigue, Garry see Perkins, A. Louise, 91h:65209
- Rust, W. see Peisker, P.; et al., 91h:73055
- Scroggs, Jeffrey S. Physically motivated domain decomposition for singularly perturbed equations. 91m:65245
- Shaidurov, V. V. Multigrid iterative algorithms for solving the stationary Navier-Stokes difference problem. (Russian) (see 91j:00011)
- Shakib, Farzid (with Hughes, Thomas J. R.; Johan, Zdeněk) Element-by-element algorithms for nonsymmetric matrix problems arising in fluids. 91f:65070
- Shao, Jian Ping A symmetric domain decomposition method based on the symmetrization principle. (Chinese. English summary) 91h:65143
- Shih, Tsi Min see Li, Tao; et al., 91f:65124
- Smith, Barry F. (with Widlund, Olof B.) A domain decomposition algorithm using a hierarchical basis. 91m:65125
- Sonnad, V. see Hassanzadeh, S.; et al., (91m:65002)
- Spekreijse, Stefan see Koren, Barry, (91k:76003)
- Stein, Erwin see Peisker, P.; et al., 91h:73055
- Tong, Charles see Kuo, C.-C. Jay; et al., 91g:65087
- Van Damme, Rudi Multi-grid and bi(x)-splines. (see 91k:65005)
- Wang, Jun Ping see Bramble, James H.; et al., 91m:65158
- Widlund, Olof B. Domain decomposition algorithms and the bicentennial of the French Revolution. (see 91e:65010)
- see also Smith, Barry F., 91m:65125
- Wittem, Gabriel Multi-grid methods for Stokes and Navier-Stokes equations. Transforming smoothers: algorithms and numerical results. 91a:65225
- Xu, Jinchao see Bramble, James H.; et al., 91h:65159; 91k:65140 and 91m:65158
- Items listed otherwise than by author
- Eberswäld ★ Fifth Multigrid Seminar. 91k:65013
- Seminar:
- Multigrid ★ Fifth Multigrid Seminar. 91k:65013
- ### 65N99 None of the above, but in this section
- Akimova, E. N. ★ Об эффективности крупноблочного распараллеливания метода разделения переменных. (Russian) [Efficiency of large-block parallelization of the method of separation of variables] 91f:65195
- Alarcón, E. see Sanz-Serna, J. M.; et al., 91c:65077
- Andri, Heiko see Streit, Uwe, (Not in MR)
- Anisimov, A. V. see Zhukova, T. B.; et al., (Not in MR)
- Authié, G. see Benjelloun, S.; et al., (91h:00050)
- Bakhtvalov, N. S. ★ Решение первой краевой задачи для системы уравнений теории упругости методом фиктивных областей. (Russian) [Solution of the first boundary value problem for a system of equations in elasticity theory by the method of fictitious domains] 91d:65194
- Bazdyryva, M. B. Numerical solution of an inverse problem for the heat equation. (Russian) (see 91h:73001)
- Benjelloun, S. (with Spiteri, Pierre; Authié, G.) Parallel algorithms for solving the obstacle problem. (see 91h:00050)
- Bernardi, Christine Coupling spectral methods with finite element approximations for partial differential equations. (see 91e:00029)
- Bespalov, A. N. (with Lipnikov, K. N.) Application of the method of fictitious components to solving a particular spectral problem with the Laplace operator. (Russian) (see 91h:00047)
- Bramble, James H. (with Pasciak, Joseph E.; Xu, Jinchao) Parallel multilevel preconditioners. (see 91e:65010)
- Buikis, Andris (with Meigalvis, Aldis) The numerical solution of a mixed problem for the Laplace equation with a discontinuous coefficient by its reduction to a nonclassical problem. I. (Russian) 91h:65195
- (with Meigalvis, Aldis) The numerical solution of a mixed problem for the Laplace equation with a discontinuous coefficient by its reduction to a nonclassical problem. II. (Russian) 91h:65196
- Carl, Siegfried An enclosing theorem and a monotone iterative scheme for elliptic systems having nonmonotone nonlinearities. (German and Russian summaries) 91h:65193
- Chan, Tony F. (with Goovaerts, Danny) Schur complement domain decomposition algorithms for spectral methods. 91h:65137
- Chen, Yung Ming (with Wang, L.; Goldstein, Charles I.) An efficient grid numerical method for solving inverse scattering problems for the Helmholtz equation. (see 91g:00046)
- Demaret, P. (with Deville, M. O.; Schneidesch, C.) Navier-Stokes solutions by spectral multi-domain decomposition and finite element preconditioning: application to thermal convection. (see 91e:00029)
- Déville, M. O. see Demaret, P.; et al., (91e:00029)
- Doblaré, M. see Sanz-Serna, J. M.; et al., 91c:65077
- Fang, Jing Long see Wang, Neng Chao, 91h:65139
- Frank, A. M. see Pauter, V. N., (91j:00011)
- Gekeler, Eckart W. On the numerical solution of double-periodic elliptic eigenvalue problems. (German summary) 91e:65140
- Głowinski, Roland (with Le Tallec, Patrick) Augmented Lagrangian interpretation of the nonoverlapping Schwarz alternating method. (see 91e:65010)
- (with Li, Chin Hsien) On the numerical implementation of the Hilbert uniqueness method for the exact boundary controllability of the wave equation. (French summary) 91g:65270
- Guedina, A. E. ★ Метод сгущения равномерных сеток для приближенного решения задачи Дирихле в области с конической точкой. (Russian) [The method of concentrating uniform networks for an approximate solution of the Dirichlet problem in a domain with a conic point] 91a:65238
- Goldstein, Charles I. (with Wang, L.) The numerical solution of exterior Helmholtz problems. (see 91g:00046)
- see also Chen, Yung Ming; et al., (91g:00046)
- Goovaerts, Danny see Chan, Tony F., 91h:65137
- Gropp, William D. (with Keyes, David E.) A domain decomposition method with locally uniform mesh refinement. (see 91e:65010)
- Hagstrom, Thomas Asymptotic boundary conditions for dissipative waves: general theory. 91m:65299
- Hedstrom, G. W. (with Howes, F. A.) Domain decomposition for a boundary-value problem with a shock layer. (see 91e:65010)
- Howes, F. A. see Hedstrom, G. W., (91e:65010)
- Hung, Hung Chi (with Li, Yu Feng) A new boundary element method for resonance of an acoustic enclosure. (Chinese summary) (Not in MR)
- Irina, S. M. Numerical solution of a nonlinear boundary value problem. (Russian) (see 91h:00029)
- Jiang, Hong (with Wong, Yau Shu) Absorbing boundary conditions for second-order hyperbolic equations. 91h:65197
- Kafarov, V. V. see Zhukova, T. B.; et al., (Not in MR)
- Kamenetskii, D. S. (with Ryaben'kii, V. S.) Solution of boundary value problems for the Laplace equation in a domain with a cut by the method of difference potentials. (Russian) 91j:65172
- Keyes, David E. see Gropp, William D., (91e:65010)
- Khapov, M. M., Jr. Numerical solution of a nonlinear Poisson equation for an electric potential in semiconductors. (Russian) 91h:65198
- Kobozova, A. A. (with Maslovskaya, L. V.) Program realization of a generalized Cholesky algorithm for some mixed discrete analogues of elliptic boundary value problems. (Russian) 91h:65199
- Kolesov, Yu. S. The limits of applicability of the method of quasilinear forms. (Russian. English and Lithuanian summaries) 91f:65196
- Kröner, Dietmar Absorbing boundary conditions for the linearized Euler equations in 2-D. 91m:65300
- Kuznetsov, S. B. (with Polishchuk, A. D.) On the solution of three-dimensional boundary value problems for the Laplace equation by the method of integral equations. (Russian) 91a:65239
- Le Tallec, Patrick see Głowinski, Roland, (91e:65010)
- Levin, M. P. ★ К постановке граничных условий для вихря при численном решении уравнений Навье-Стокса. (Russian) [On the formulation of boundary conditions for vorticity in the numerical solution of the Navier-Stokes equations] 91e:65141
- Li, Chin Hsien see Głowinski, Roland, 91g:65270
- Li, Yu Feng see Hung, Hung Chi, (Not in MR)
- Lipnikov, K. N. see Bespalov, A. N., (91h:00047)
- Marchenko, N. A. (with Pavlov, V. I.) Numerical solution of elliptic problems of order 2m by the method of least squares using spline approximation on rectangular grids. (Russian. English summary) 91h:65200
- Maslovskaya, L. V. see Kobozova, A. A., 91h:65199
- Meigalvis, Aldis see Buikis, Andris, 91h:65195 and 91h:65196
- Merkaulov, E. V. ★ Метод возмущения области для решения эллиптических задач. (Russian) [The domain perturbation method for solving elliptic problems] 91m:65301
- Mieloszyk, E. Finding numerical solution of linear partial differential equations of first order with real coefficients. 91g:65271
- Mikhailov, M. D. Generalized variational principles. (Not in MR)
- Mitchell, William F. A comparison of adaptive refinement techniques for elliptic problems. (Not in MR)
- Mittelmann, Hans D. Continuation methods for parameter-dependent boundary value problems. 91d:65195
- Nonlinear parametrized equations: new results for variational problems and inequalities. 91f:65197
- Nataf, Frédéric Résolution de l'équation de convection-diffusion stationnaire par une

- factorisation parabolique. (English summary) [Parabolized algorithm for the steady advection-diffusion equation] **91g:65272**
- Nochetto, Ricardo H. Linearization of parabolic free boundary problems. **91a:65240**
- Orlova, N. B. A method for solving the Stokes problem in a domain of arbitrary form. (Russian) **91m:65302**
- Paquet, Luc Solutions du problème de Dirichlet sous forme d'un potentiel de simple couche. (English summary) [Solutions of the Dirichlet problem by means of a single-layer potential] **91m:65303**
- Pasciak, Joseph E. *see* Bramble, James H.; et al., (91e:65010)
- Pautov, V. N. (with Frank, A. M.) An algorithm for constructing Dirichlet cells for problems with free boundaries. (Russian) (see 91j:00011)
- Parlov, V. I. *see* Marchenko, N. A., 91h:65200
- Pogosyan, G. R. The variational-difference method for solving the Dirichlet problem for pseudodifferential elliptic equations of arbitrary order. (Russian. English and Armenian summaries) **91m:65304**
- Polishchuk, A. D. *see* Kuznetsov, S. B., 91a:65239
- Poznyak, L. T. Connections of the method of partial domains with the Weinstein method. (Russian) (see 91i:65003)
- Prudnikov, A. P. (with Volkov, D. B.; Vlasov, V. I.; Yakovleva, E. A.; Vladimirova, N. Yu.) A system of algorithms and programs for solving a class of boundary value problems. (Russian) (see 91e:00006)
- Rivkind, V. Ya. Numerical methods for the Navier-Stokes equations with an unknown boundary between two viscous incompressible fluids. (see 91f:35003)
- Ross, H.-G. A uniformly enclosing discretization method for linear parabolic boundary value problems. (see 91f:65004)
- Ryaben'kii, V. S. *see* Kamenetskii, D. S., 91j:65172
- Sander, S. A. Smoothing a solution constructed by an alternating method. (Russian) **91e:65142**
- Sanz-Serna, J. M. (with Doblaré, M.; Alarcón, E.) Remarks on methods for the computation of boundary-element integrals by co-ordinate transformation. **91c:65077**
- Schneidesch, C. *see* Demaret, P.; et al., (91e:00029)
- Sheihak, Tadeusz Application of iterative methods for solving a class of elliptic equations with discontinuous coefficients. (Russian) (see 91d:65007)
- Shishkin, G. I. Grid approximation of singularly perturbed boundary value problems with a regular boundary layer. **91h:65138**
- Sivakumar, T. R. *see* Venkatarangan, S. N., 91g:65273
- Spiteri, Pierre *see* Benjelloun, S.; et al., (91h:00050)
- Streit, Uwe (with André, Heiko) Numerical results for a Stefan problem with mushy region. (Not in MR)
- Trefethen, Lloyd N. Lax-stability vs. eigenvalue stability of spectral methods. **91a:65241**
- Venkatarangan, S. N. (with Sivakumar, T. R.) A modification of Adomian's decomposition method for boundary value problems with homogeneous boundary conditions. **91g:65273**
- Vladimirova, N. Yu. *see* Prudnikov, A. P.; et al., (91e:00006)
- Vlasov, V. I. *see* Prudnikov, A. P.; et al., (91e:00006)
- Volkov, D. B. *see* Prudnikov, A. P.; et al., (91e:00006)
- Wang, L. *see* Goldstein, Charles L., (91g:00046) and Chen, Yang Ming; et al., (91g:00046)
- Wang, Neng Chao (with Fang, Jing Long) Error estimators of asynchronous parallel algorithms—model problems. (Chinese. English summary) **91h:65139**
- Wong, Yau Shu *see* Jiang, Hong, 91h:65197
- Xu, Jinchao *see* Bramble, James H.; et al., (91e:65010)
- Yakovleva, E. A. *see* Prudnikov, A. P.; et al., (91e:00006)
- Ying, Long An Viscosity splitting method in bounded domains. **91h:65201**
- Zhukova, T. B. (with Kafarov, V. V.; Anisimov, A. V.) Solution of a nonlinear stationary boundary value problem by the Newton method. (Russian) (Not in MR)
- Items with secondary classifications in 65N99
- Amini, S. *see* Ke, Chen, 91j:35079
- Bamberger, Alain Définition d'une méthodologie de démonstration numérique d'existence de solutions d'équations elliptiques semi-linéaires. [Definition of a methodology for proving numerically the existence of solutions of semilinear elliptic equations] **91c:35056**
- (with Joly, Patrick; Roberts, Jean E.) Second-order absorbing boundary conditions for the wave equation: a solution for the corner problem. **91b:35066**
- Beauwens, Robert Approximate factorizations with S/P consistently ordered M -factors. **91e:65046**
- Bochkarev, V. V. (with Kirichenko, V. F.; Krysko, V. A.) Some iterative algorithms for solving equations of von Kármán type. (Russian) **91a:73035**
- Brenier, Yann A combinatorial algorithm for the Euler equations of incompressible flows. **91a:76068**
- Bugrov, A. N. (with Sultanov, R. S.) The method of fictitious domains for regular problems with an oblique derivative. (Russian) (see 91a:00020)
- Buttke, Thomas F. A fast adaptive vortex method for patches of constant vorticity in two dimensions. **91g:76072**
- Cehan-Racoviță, M. Die allgemeine Form der Methode freibeweglicher Ränder. [The general form of the method of freely movable boundaries] **91m:35244**
- Chakravarthy, Sukumar R. High resolution upwind formulations for the Navier-Stokes equations. **91h:76061**
- Das, P. C. (with Pani, A. K.) Finite element approximation of a single phase quasilinear Stefan problem. (see 91g:00044)
- Dashen, Roger (with Orris, Gregory J.) Rough surfaces and the renormalization group. **91k:78011**
- Dauge, Monique (with Nicaise, Serge) Oblique derivative and interface problems on polygonal domains and networks. **91a:35046**
- Higher order oblique derivatives problems on polyhedral domains. **91a:35047**
- Dekema, Sandra Kay (with Schultz, David H.) High-order methods for differential equations with large first-derivative terms. **91d:76065**
- DeLaurentis, J. M. (with Romero, Louis A.) A Monte Carlo method for Poisson's equation. **91i:65005**
- Didenko, V. D. The interpolation method for solving the Hilbert boundary value problem. (Russian) **91a:47013**
- van Duin, C. J. (with Zhang, Hong Fei) Properties of weak solutions of a class of doubly degenerate diffusion equations. **91j:35148**
- Erëmin, Yu. A. (with Sveshnikov, A. G.) An iterative method for the quasisolution of integral equations of the first kind in diffraction theory. (Russian. English summary) **91g:65302**
- Finoenov, S. A. *see* Kuznetsov, Yuri Alekseevich, (91m:65004)
- Gilbert, Robert P. *see* Thejll, P., (Not in MR)
- Glowinski, Roland (with Li, Chin Hsien; Lions, Jacques-Louis) A numerical approach to the exact boundary controllability of the wave equation. I. Dirichlet controls: description of the numerical methods. **91g:35043a**
- (with Li, Chin Hsien; Lions, Jacques-Louis) Errata: "A numerical approach to the exact boundary controllability of the wave equation. I. Dirichlet controls: description of the numerical methods". **91g:35043b**
- Grigorič, Rolf Dieter On the behaviour of stability constants in discretisations of nonlinear problems. **91j:65141**
- Ivanov, Valentin Konstantinovich (with Melnikova, I. V.) Construction of quasivalues for weakly well-posed problems. **91a:65146**
- Joly, Patrick *see* Bamberger, Alain; et al., 91b:35066
- Ke, Chen (with Amini, S.) Analytical behaviour of solutions of boundary integral equations for a nonsmooth region. **91j:35079**
- Kirichenko, V. F. *see* Bochkarev, V. V.; et al., 91a:73035
- Knight, B. W. *see* Sirovich, Lawrence; et al., 91j:58147
- Kobelt, G. M. A priori estimates for elliptic equations, and iterative methods. **91h:35063**
- Kreitak, P. A. On an oblique derivative problem for a plane with cuts along a straight line, and related problems. (Russian. English summary) **91g:65058**
- Krysko, V. A. *see* Bochkarev, V. V.; et al., 91a:73035
- Kuznetsov, Yuri Alekseevich (with Finoenov, S. A.) A program package for solving elliptic problems with separable variables. (Russian) (see 91m:65004)
- Li, Chin Hsien *see* Glowinski, Roland; et al., 91g:35043a and 91g:35043b
- Li, Ming Zhong Hausdorff solvability of the nonlinear boundary value problem D for a class of second-order elliptic systems. (Chinese. English summary) **91d:35082**
- Lions, Jacques-Louis *see* Glowinski, Roland; et al., 91g:35043a and 91g:35043b
- Liu, Fa Wang Group explicit methods for parabolic equations of higher order. (Chinese. English summary) **91h:65148**
- Louis, Alfred K. The eikonal approximation in ultrasound computer tomography. **91i:35206**
- Melnikova, I. V. *see* Ivanov, Valentin Konstantinovich, 91a:65146
- Mokin, Yu. I. Integral equations for a mixed boundary value problem. (Russian) **91c:35045**
- Moret, Igor (with Omari, Pierpaolo) A projective Newton method for semilinear operator equations in Banach spaces. **91k:65187**
- Ma, Ma Global classical solutions to initial-boundary value problems for the potential vorticity equation. **91b:86008**
- Nakao, Mitsuhiro T. A numerical approach to the proof of existence of solutions for elliptic problems. II. **91i:35062**
- Nicaise, Serge *see* Dauge, Monique, 91a:35046
- Nochetto, Ricardo H. Numerical methods for free boundary problems (rapporteur's report). (see 91g:00044)
- Omari, Pierpaolo *see* Moret, Igor, 91k:65187
- Orris, Gregory J. *see* Dashen, Roger, 91k:78011
- Pani, A. K. *see* Das, P. C., (91g:00044)
- Piessens, Robert *see* Vandewalle, Stefan, (91e:65008)
- Quarteroni, Alfio (with Sacchi Landriani, Giovanni) Iteration by subdomains in numerical fluid dynamics. **91k:76111**
- Roberts, Jean E. *see* Bamberger, Alain; et al., 91b:35066
- Rodríguez, J. D. (with Sirovich, Lawrence) Low-dimensional dynamics for the complex Ginzburg-Landau equation. **91j:58146**
- *see also* Sirovich, Lawrence; et al., 91j:58147
- Romero, Louis A. *see* DeLaurentis, J. M., 91i:65005
- Sacchi Landriani, Giovanni *see* Quarteroni, Alfio, 91k:76111
- Santosa, Fadil (with Vogelius, Michael) A backprojection algorithm for electrical impedance imaging. **91c:35159**
- Sartori, C. (with Spigler, Renato) The Huber polygonal method for the one-phase Stefan problem with the specification of energy. (German and Russian summaries) **91b:35116**
- Schaefer, Mark J. A polynomial based iterative method for linear parabolic equations. **91h:65115**
- Schultz, David H. *see* Dekema, Sandra Kay, 91d:76065
- Shestopalov, V. P. *see* Tuchkin, Yu. A., (Not in MR)
- Sirovich, Lawrence (with Rodríguez, J. D.; Knight, B. W.) Two boundary value problems for the Ginzburg-Landau equation. **91j:58147**
- *see also* Rodríguez, J. D., 91j:58146
- Skorokhodov, S. L. Analytic solution of the Dirichlet problem for T-shaped and cross-shaped domains. (Russian) **91i:35040**
- Spigler, Renato Numerical simulation for degenerate diffusions. **91g:65288**
- *see also* Sartori, C., 91b:35116
- Sultanov, R. S. *see* Bugrov, A. N., (91a:00020)
- Sveshnikov, A. G. *see* Erëmin, Yu. A., 91g:65302
- Thejll, P. (with Gilbert, Robert P.) The use of MACSYMA for solving elliptic boundary value problems. (German and Russian summaries) (Not in MR)
- Thompson, Russell C. (with Walter, Wolfgang L.) Convergence of the line method approximation for a parabolic free boundary problem. **91h:65142**
- Tolstykh, A. I. Compact approximations of the third order in algorithms for an incompressible fluid. **91e:76040**
- Tuchkin, Yu. A. (with Shestopalov, V. P.) Regularization of a boundary value problem of diffraction by a wavy surface with the Dirichlet condition. (Not in MR)
- Vandewalle, Stefan (with Piessens, Robert) A comparison of the Crank-Nicolson and waveform relaxation multigrid methods on the Intel hypercube. (see 91e:65008)
- Vogelius, Michael *see* Santosa, Fadil, 91c:35159
- Walter, Wolfgang L. *see* Thompson, Russell C., 91h:65142
- Wanell, Kazimierz On the iterative solutions of some nonlinear eigenvalue problems. **91i:35119**

- Yang, Zuo Sheng Boundary integral formulation for compressible nonlinear potential and Navier-Stokes equations. (see 91b:00050)
- Ying, Long An Viscous splitting for the unbounded problem of the Navier-Stokes equations. 91d:35170
- Zhang, Hong Fei see van Duin, C. J., 91j:35148

65P05 Partial differential equations, miscellaneous problems

- Adamczewski, M. (with Colombeau, J.-F.; LeRoux, Alain Yves) Convergence of numerical schemes involving powers of the Dirac delta function. 91d:65196
- Aithaev, A. A. A study of a difference scheme for diffusion approximation of the Saint Venant equations: stability and convergence. (Russian) (see 91a:00023)
- Aluffi-Pentini, Filippo (with Caglioti, Emanuele; Misici, Luciano; Zirilli, Francesco) A parallel algorithm for a three-dimensional inverse acoustic scattering problem. (see 91m:65006)
- Ames, William F. Applications of group theory in computation—a survey. 91j:65173
- Anishchik, S. V. (with Liseikin, V. D.) Numerical solution of a singularly perturbed problem that models diffusion-drift motion. (Russian) 91c:65078
- Appert, K. see Llobet, X.; et al., 91f:65209
- Armfield, S. W. (with Fletcher, C. A. J.) Symbolic analysis of reduced forms of the Navier-Stokes equations. 91d:65197
- Arnold, P. D. see Wood, W. L., (Not in MR)
- Avilova, E. S. (with Solov'ev, A. S.) A spectral-element numerical method for solving initial-boundary value problems. (Russian) (Not in MR)
- Bagdasarian, A. see Rack, R., (Not in MR)
- Beer, T. Optimizing performance of finite-difference schemes. 91h:65202
- Bekyarov, K. L. see Christov, Christo Ivanov, 91g:65275
- Ben-Artzi, Matania Numerical calculations of reacting flows. 91e:65143
- Benes, Michal Numerical solution of the two-dimensional Stefan problem by the finite-difference method. (Czech. German and Russian summaries) (Not in MR)
- Bickford, William B. An improved perturbation technique for eigenvalues of continuous systems. (Not in MR)
- Biernias, Michael B. see Bussioletti, John E.; et al., 91f:65199
- Blom, J. G. (with Sanz-Serna, J. M.; Verwer, J. G.) A Lagrangian moving grid scheme for one-dimensional evolutionary partial differential equations. (see 91g:00046)
- Boglaev, I. P. (with Sirotkin, V. V.) Numerical methods for semiconductor equations using curvilinear orthogonal grids. (see 91e:00027)
- Boikov, I. V. (with Shchukina, V. E.) Approximate solution of an inverse problem of gravimetry by the Newton-Kantorovich method. (Russian) 91e:65144
- Bolt, G. see Hogarth, W. L.; et al., 91f:65198
- Bondeson, A. see Llobet, X.; et al., 91f:65209
- Bossavit, A. Mixed methods for a vectorial Stefan problem. 91e:65194
- Boyadzhiev, T. L. (with Zhanlav, T.; Puzynin, I. V.) * Численное исследование одной задачи на собственные значения, возникающей в теории устойчивости солитонов. (Russian) [A numerical investigation of an eigenvalue problem that arises in the theory of soliton stability] 91b:65140
- Brenier, Yann (with Cottet, Georges-Henri) Convergence des méthodes de vortex vers des solutions faibles des équations d'Euler. (English summary) [Convergent vortex approximation to weak solutions of Euler equations] 91h:65195
- Brezzi, Franco (with Marini, Luisa Donatella; Pietra, Paola) Mixed exponential fitting schemes for current continuity equations. (see 91e:00027)
- Brews, C. S. Capacity of the regular polyhedra. 91f:65198
- Burkhart, Richard H. see Bussioletti, John E.; et al., 91f:65199
- Bussioletti, John E. (with Johnson, Forrester T.; Young, David P.; Melvin, Robin G.; Burkhart, Richard H.; Biernias, Michael B.; Samant, Satish S.; SenGupta, Gautam) TRANAIR technology: solutions for large PDE problems. 91f:65199
- Caglioti, Emanuele see Aluffi-Pentini, Filippo; et al., (91m:65006)
- Canadas, Guy (with Chapel, François; Cuet, Michel; Zolésio, Jean-Paul) Shape interfaces in an inverse problem related to the wave equation. 91m:65305
- Cao, Da Zhu (with Jiang, Min; Hu, Ping) A time-sharing iterative hybrid method for the solution of nonlinear parabolic differential equations. (see 91e:00029)
- Carinhas, P. A. (with Fulling, Stephen A.) Computational asymptotics of fourth-order operators. 91j:65174
- Castro, Fernando see de Vicente, Santiago; et al., (91j:00015)
- Chan, Tony F. (with Tuminaro, Ray S.) Analysis of a parallel multigrid algorithm. (see 91e:65008)
- (with Keyes, David E.) Interface preconditionings for domain-decomposed convection-diffusion operators. (see 91e:65010)
- Chang, Qian Shun Some discrete Sobolev's inequalities in three-dimensional spherical and cylindrical coordinates. 91g:65274
- (with Wang, Guo Bin) Multigrid and adaptive algorithm for solving the nonlinear Schrödinger equation. 91e:65145
- Chapel, François see Canadas, Guy; et al., 91m:65305
- Chernyshenko, Yu. A. see Lando, S. K., 91b:65143
- Christiansen, Søren A stability analysis of a Eulerian solution method for moving boundary problems in electrochemical machining. (Not in MR)
- Christov, Christo Ivanov (with Bekyarov, K. L.) A Fourier-series method for solving soliton problems. 91g:65275
- Clarke, William F. see Kinnmark, Ingemar P. E.; et al., (91e:00029)
- Cloot, A. see Weideman, J. A. C., 91b:65189
- Collatz, Lothar Guaranteed inclusions of solutions of some types of boundary value problems. (see 91k:65003)
- Colombeau, J.-F. see Adamczewski, M.; et al., 91d:65196
- Colton, David (with Monk, P. B.) The inverse scattering problem for acoustic waves in an inhomogeneous medium. 91f:65200
- Comde, Carlos see de Vicente, Santiago; et al., (91j:00015)
- Cottet, Georges-Henri see Brenier, Yann, 91f:65195
- Coulomb, Françoise Domain decomposition and associate block-Jacobi method for the diffusion equation. 91f:65201
- Cuet, Michel see Canadas, Guy; et al., 91m:65305
- Danilov, P. G. see Kilbanov, M. V., 91e:65147
- Das, P. C. (with Pani, A. K.) Finite element approximation of a single phase quasilinear Stefan problem. (see 91g:00044)
- Datta, Barun Kumar A technique for approximate solutions to Schrödinger-like equations. 91g:65276
- Deineka, V. S. see Lyashko, I. I.; et al., 91g:65280
- Dellagi, F. Numerical stability study of finite difference schemes for the resolution of three-dimensional time-dependent Navier-Stokes equations. 91b:65141
- Deng, Qing Ping A noninternal approximation method for an obstacle problem. (Chinese. English summary) 91e:65146
- Desideri, J. A. see Guillard, H., 91j:65179
- Dnestrovskaya, E. Yu. (with Kalitkin, N. N.) Rosenbrock schemes with complex coefficients for the transport equation. (Russian. English summary) 91m:65306
- Dudka, V. G. (with Tuchkin, Yu. A.; Shestopalov, V. P.) An iterative method for solving a problem of diffraction by a spherical segment. (Russian) 91h:65203
- Egorov, I. V. (with Zaitsev, O. L.) An approach to the numerical solution of two-dimensional Navier-Stokes equations by the through calculation method. (Russian) 91m:65307
- Eliebeck, J. C. (with Flesch, Randy) Calculation of families of solitary waves on discrete lattices. 91j:65175
- El-Deen Mohamedein, M. Sh. see Elzohery, H.; et al., (Not in MR)
- Elliott, Charles M. (with Mikelić, Andro) Some numerical experiments with the Cahn-Hilliard phase separation model with a nondifferentiable energy. (see 91g:00044)
- Elzohery, H. (with Iskandar, I.; El-Deen Mohamedein, M. Sh.) Iterative implicit schemes for the two- and three-dimensional sine-Gordon equation. (Not in MR)
- Erlin, Yu. A. (with Sveshnikov, A. G.) An iterative method for solving diffraction problems on the basis of dissipative operators. 91j:65176
- Ewing, Richard E. Computational methods for nonlinear systems of partial differential equations arising in contaminant transport in porous media. (see 91e:65005)
- Falk, Richard S. Approximation of inverse problems. 91f:65202
- Fang, Duo see Peng, Kai; et al., 91g:65285
- Fazio, Riccardo A nonlinear hyperbolic free boundary value problem. 91f:65203
- Numerical evaluations for shock and discontinuity velocity related to similarity solutions of quasilinear hyperbolic systems. 91f:65196
- Fishman, Louis Symbol analysis and the one-way Helmholtz equation. (see 91g:00046)
- Fitt, A. D. The numerical and analytical solution of ill-posed systems of conservation laws. 91d:65198
- Fitzsimons, Conor J. (with Liu, Fa Wang; Miller, John J. H.) Second order L -stable schemes for the time dependent semiconductor device equations. 91f:65204
- Flesch, Randy see Eliebeck, J. C., 91j:65175
- Fletcher, C. A. J. see Armfield, S. W., 91d:65197
- Frischmuth, Kurt (with Strauss, Raimond) On the triangulation of certain plane domains. 91f:65205
- Fulling, Stephen A. see Carinhas, P. A., 91j:65174
- Fusaoka, Hideo Numerical solutions of Klein-Gordon equations with quadratic and cubic nonlinearity. 91d:65199
- García-Mollner, F. (with Pérez-Álvarez, R.; Rodríguez-Coppola, H.; Velasco, V. R.) A general theory of matching for layered systems. 91g:65277
- Gastaldi, Fabio (with Quarteroni, Alfio) On the coupling of hyperbolic and parabolic systems: analytical and numerical approach. 91d:65200
- Glowinski, Roland (with Lawton, Wayne M.; Ravachol, Michel; Tenenbaum, Eric) Wavelet solutions of linear and nonlinear elliptic, parabolic and hyperbolic problems in one space dimension. (see 91m:00026)
- Gol'dman, N. L. A method for determining the gradient in the optimization of a two-phase Stefan problem. (Russian) (see 91k:65009)
- (with Savinich, V. S.; Shelyastina, N. A.) A numerical algorithm for the optimization of thermal regimes for the Stefan problem. (Russian) (see 91k:65009)
- On the determination of unknown coefficients in a quasilinear Stefan problem. (Russian) (see 91k:65006)
- On the determination of the gradient in the optimization of a two-phase Stefan problem with a control in the boundary conditions. (Russian) (see 91k:65008)
- Numerical determination of the right-hand side of an equation for a multifront Stefan problem. (Russian) (see 91k:65008)
- Goodrich, John W. (with Gustafson, Karl; Halasi, Kadosa) Hopf bifurcation in the driven cavity. 91j:65177
- Greengard, Leslie (with Strain, John) A fast algorithm for the evaluation of heat potentials. 91j:65178
- Gryn', V. I. (with Marchenko, A. I.; Urban, V. V.) A numerical method for solving an equation of radiative transfer in plane and spherical geometry. (Russian) 91h:65197
- Guillard, H. (with Desideri, J. A.) Iterative methods with spectral preconditioning for elliptic equations. 91j:65179
- Guo, Ben Yu (with Yan, Xiao Pu) Numerical study of an initial-boundary value problem of the sine-Gordon equation. 91d:65201
- Guo, Lijia see Murio, D. A., 91e:65151
- Guseinov, A. M. see Tagiev, F. A., 91h:65211
- Gustafson, Karl see Goodrich, John W.; et al., 91j:65177
- Gustafson, Bertil (with Lötstedt, Per) Analysis of the multigrid method applied to first order systems. 91g:65278
- Halasi, Kadosa see Goodrich, John W.; et al., 91j:65177
- Hänel, D. (with Meinke, M.; Schröder, Wolfgang²) Application of the multigrid method in solutions of the compressible Navier-Stokes equations. (see 91e:65008)
- He, Guang Yu (with Wang, Bu) Solution of partial differential equations by the spline 4 method. (Chinese. English summary) (Not in MR)
- Hebeker, F.-K. On Lagrangian methods and Volterra integral equations of the first kind for incompressible Navier-Stokes problems. (see 91f:35003)
- Heinrichs, Wilhelm Algebraic spectral multigrid methods. 91j:65180
- Hoffmann, Karl-Heinz¹ Numerische Verfahren zur Identifizierung von Prozessparametern in

- naturwissenschaftlichen Experimenten. (English summary) [Numerical methods for the identification of process parameters in scientific experiments] **91f:65206**
- Hogarth, W. L. (with Noye, John; Stagnitti, J.; Parlange, J.-Y.; Bolt, G.) A comparative study of finite difference methods for solving the one-dimensional transport equation with an initial-boundary value discontinuity. **91f:65198**
- Holodniok, M. see Kubicek, M., (91f:65004)
- Hong, Yue Shan see Xie, Gan Quan; et al., (Not in MR)
- Hu, Ping see Cao, Da Zhu; et al., (91e:00029)
- Huang, Lan Jie The ULWC finite difference scheme for the numerical solution of incompressible Navier-Stokes equations. **91f:65199**
- Hunter, John K. Numerical solutions of some nonlinear dispersive wave equations. (see 91e:65005)
- Inddin, Dragan see Ramović, Rifst, (91m:00027)
- Iskandar, L. see Elzohery, H.; et al., (Not in MR)
- Jerome, Joseph W. An operator Newton method for the Stefan problem based on smoothing: a local perspective. **91f:65200**
- Jiang, Min see Cao, Da Zhu; et al., (91e:00029)
- Jiménez, Salvador (with Vázquez, Luis) Analysis of four numerical schemes for a nonlinear Klein-Gordon equation. **91d:65202**
- Jin, Cheng Ri A three-level explicit scheme with absolute stability for solving $\partial u / \partial t = i \sum_{j=1}^n \partial^2 u / \partial x_j^2$. (Chinese. English summary) **91f:65181**
- Johnson, Forrester T. see Bussioletti, John E.; et al., 91f:65199
- Johnsson, S. Lennart see Olsson, Pelle, (Not in MR)
- Kalachëv, L. V. (with Kryuchkov, S. V.; Obukhov, I. A.) Asymptotic analysis of a solution of the Poisson equation in semiconductors. (Russian) **91b:65142**
- Kalitkin, N. N. see Dnestrovskaya, E. Yu., 91m:65306
- Kamont, Zdzisław (with Kwapisz, Marian) Difference methods for nonlinear parabolic differential-functional systems with initial boundary conditions of the Neumann type. **91g:65279**
- Kemelov, D. U. Numerical solution of a control problem for a hyperbolic equation. (Russian) (see 91g:35004)
- Kenenbaeva, G. M. see Pankov, P. S., (91j:00012)
- Kerkhove, Thomas Efficiency and acceleration of steady-state decoupling algorithms. **91c:65079**
- Keyes, David E. see Chan, Tony F., (91e:65010)
- Kinnmark, Ingemar P. E. (with Kirkner, David J.; Ravi, Varadhan; Clarke, William P.) Explicit timemarching schemes with maximum stability for mixed hyperbolic/parabolic problems. (see 91e:00029)
- Kirkner, David J. see Kinnmark, Ingemar P. E.; et al., (91e:00029)
- Kilbasov, M. V. (with Danilav, P. G.) Solution of coefficient inverse problems by the method of quasi-reversibility. **91f:65147**
- Knightly, George H. (with Saint Mary, Donald F.; Lee, Ding) Derivation and discretization of parabolic equations containing arbitrary density functions. **91b:65204**
- Knizhnerman, L. A. Applications of the method of optimal coefficients to the numerical solution of some problems in mathematical physics. (Russian) (see 91a:11004)
- Korobitsyn, V. A. The method of basis operators for constructing operator difference schemes. (Russian. English summary) **91b:65205**
- The method of basis operators for constructing difference schemes in a curvilinear orthogonal coordinate system. (Russian. English summary) **91f:65182**
- Kress, Rainer Numerical methods in inverse acoustic obstacle scattering. **91f:65207**
- Kryuchkov, S. V. see Kalachëv, L. V.; et al., 91b:65142
- Kubicek, M. (with Holodniok, M.) Periodic phenomena in reaction diffusion systems—numerical analysis. (see 91f:65004)
- Kulkarni, Rekha P. (with Limaye, Balmohan V.) Solution of a Schrödinger equation by iterative refinement. **91f:65208**
- Kuo, M. K. (with Yang, H. Y.) Time domain parabolic-like equation with application to moving source in an inhomogeneous medium. (see 91g:00046)
- Kwapisz, Marian see Kamont, Zdzisław, 91g:65279
- Lando, S. K. (with Chernyshenko, Yu. A.) An algorithm for separating the branches of a multivalued function. (Russian) **91b:65143**
- Latto, Andrew (with Tenenbaum, Eric) Compactly supported wavelets and the numerical solution of Burgers' equation. (French summary) **91m:65308**
- Lawton, Wayne M. see Glowinski, Roland; et al., (91m:00026)
- Layton, William On the principal axes of diffusion in difference schemes for 2D transport problems. **91b:65201**
- Lee, Ding see Knightly, George H.; et al., 91b:65204
- LeRoux, Alain Yves see Adamczewski, M.; et al., 91d:65196
- Li, Jian² (with Sun, Jia Chang) Applications of generalized mean difference schemes to convection-diffusion equations. **91d:65203**
- Li, Ping Qian see Wen, Guo Chun, (Not in MR)
- Limaye, Balmohan V. see Kulkarni, Rekha P., 91f:65208
- Liseikin, V. D. see Anisichik, S. V., 91c:65078
- Liu, Fa Wang see Fitzsimons, Comer J.; et al., 91f:65204
- Liu, Ru Xun see Wang, Ru Yun, (Not in MR)
- Llobet, X. (with Appert, K.; Bondeson, A.; Vaelavik, J.) On spectral pollution. **91f:65209**
- Lötstedt, Per see Gustafsson, Bertil, 91g:65278
- Lyashko, I. I. (with Deineka, V. S.; Stasyuk, V. R.) Numerical determination of discontinuous solutions of a system of nonlinear parabolic equations. (Russian. English summary) **91g:65280**
- Maday, Yvon (with Renquist, Einar M.) Optimal error analysis of spectral methods with emphasis on nonconstant coefficients and deformed geometries. **91f:65281**
- Magenes, Enrico Linear schemes for the approximation of parabolic problems of Stefan type. (Russian) (see 91b:00047)
- Makhmudov, E. N. Some extremal problems for discrete and differential inclusions with distributed parameters of elliptic type, and duality. **91f:65183**
- Marchenko, A. I. see Gryns, V. I.; et al., 91f:65197
- Marchuk, V. A. (with Nesterenko, B. B.) On the problem of the development of locally asynchronous iterative methods for studying physical processes in the presence of phase transitions. (Russian) **91e:65148**
- Marozzi, G. see Palleschi, V.; et al., 91b:65208
- Marini, Luisa Donatella see Brezzi, Franco; et al., (91e:00027)
- Matysina, E. A. see Matysina, N. V., 91g:65282
- Matysina, N. V. (with Matysina, E. A.) On a constructive solution of a nonlinear boundary value problem. (Russian. English summary) **91g:65282**
- McCormick, Stephen F. ★ Multilevel adaptive methods for partial differential equations. **91h:65206**
- (with McKay, Steven M.; Thomas, J. W.) Computational complexity of the fast adaptive composite grid (FAC) method. (Not in MR)
- McKay, Steven M. (with Thomas, J. W.) Application of the self adaptive time dependent fast adaptive composite grid method. (see 91e:65008)
- see also McCormick, Stephen F.; et al., (Not in MR)
- Meinke, M. see Hänel, D.; et al., (91e:65008)
- Melvin, Robin G. see Bussioletti, John E.; et al., 91f:65199
- Meyer, Gunter H. On computing free boundaries which are not level sets. **91h:65207**
- Michaux, B. (with Rakotoson, Jean-Michel; Shen, Jie) On the approximation of a quasilinear mixed problem. (French summary) **91f:65184**
- Mikelic, Andre see Elliott, Charles M., (91g:00044)
- Mikheev, A. G. Reconstruction of the form of a periodic surface from inverse scattering data. (Russian) **91g:65283**
- Miller, John J. H. see Fitzsimons, Comer J.; et al., 91f:65204
- Mishneva, A. P. Search for an effective coefficient of convective dispersion from experimental data by means of the apparatus of conjugate equations and perturbation theory. (Russian) **91e:65149**
- Prediction of an effective coefficient of convective dispersion with changes in the experiment's parameters. (Russian) **91e:65150**
- Misci, Luciano see Aluffi-Pentini, Filippo; et al., (91m:65006)
- Monk, P. B. see Colton, David, 91f:65280
- Mottet, S. (with Viallet, J. E.) Solutions to some transient problems. (see 91e:00027)
- Mukhadinov, N. Numerical modeling of a coefficient-inverse problem of gas filtration. (Russian) (Not in MR)
- Mulligan, Sean P. A comparison of preconditioned conjugate gradient methods for the solution of a linearised two-dimensional Poisson equation. (see 91b:65014)
- Muñoz, Rafael Theoretical analysis of some spectral multigrid methods. **91f:65185**
- Murio, D. A. (with Guo, Lijia) A stable space marching finite differences algorithm for the inverse heat conduction problem with no initial filtering procedure. **91e:65151**
- Nesterenko, B. B. see Marchuk, V. A., 91e:65148
- Niezgodka, Marek (with Sprekels, Jürgen) Convergent numerical approximations of the thermomechanical phase transitions in shape memory alloys. **91m:65309**
- Nochetto, Ricardo H. Numerical methods for free boundary problems (rapporteur's report). (see 91g:00044)
- Noda, Tatsuo The Aitken-Steffensen formula for systems of nonlinear equations. IV. **91f:65186**
- Noye, John A new third-order finite-difference method for transient one-dimensional advection-diffusion. (Not in MR)
- see also Hogarth, W. L.; et al., 91f:65198
- Obukhov, I. A. see Kalachëv, L. V.; et al., 91b:65142
- Olsson, Pelle (with Johnsson, S. Lennart) A dataparallel implementation of an explicit method for the three-dimensional compressible Navier-Stokes equations. (Not in MR)
- Ostapenko, V. V. Local satisfaction of conservation laws on the front of a "smoothed" shock wave. (Russian. English summary) (Not in MR)
- Palleschi, V. (with Sarri, F.; Marozzi, G.; Torquati, M. R.) Numerical solution of the Fokker-Planck equation: a fast and accurate algorithm. **91h:65208**
- Pan, Victor (with Reif, John Henry) The bit-complexity of discrete solutions of partial differential equations: compact multigrid. **91f:65210**
- Panasenko, G. P. A numerical-asymptotic method for multicomponent averaging for equations with contrasting coefficients. **91d:65204**
- Pani, A. K. see Das, P. C., (91g:00044)
- Pankov, P. S. (with Kenenbaeva, G. M.) Application of demonstrative calculations to a search for stationary points of a system of differential equations that describe an antiviral immune reaction. (Russian) (see 91j:00012)
- Papakushvili, N. R. Solution of an inverse problem for the heat equation. (Russian. English and German summaries) **91g:65284**
- Parekh, N. (with Puri, Sanjay) A new numerical scheme for the Fisher equation. **91m:65310**
- Parlange, J.-Y. see Hogarth, W. L.; et al., 91f:65198
- Peng, Kai (with Fang, Duo; Wen, Xian Yun) Analysis of two-dimensional orthogonal numerical grid generation—a numerical potential flow theory method. (Chinese. English summary) **91g:65285**
- Pérez-Álvarez, R. see García-Moliner, F.; et al., 91g:65277
- Perkins, A. Louise (with Rodrigue, Garry) A domain decomposition method for solving a two-dimensional viscous Burgers' equation. **91h:65209**
- Petrov, I. B. (with Tormasov, A. G.) Numerical realization of three-dimensional shock problems. (Russian. English summary) **91g:65286**
- Pietra, Paola see Brezzi, Franco; et al., (91e:00027)
- Pilant, Michael S. (with Rundell, William) Iteration schemes for unknown coefficient problems arising in parabolic equations. (Not in MR)
- (with Rundell, William) Recovery of an unknown specific heat by means of overposed data. **91d:65205**
- Poga, M. (with Souza de Cursi, J. E.) A note on the numerical solution of partial differential equations of mixed type. (Not in MR)
- Popov, S. P. see Zhuk, V. I., (Not in MR)
- Pulato, P. A. see Vabishchevich, P. N., 91g:65289
- Puri, Sanjay see Parekh, N., 91m:65310
- Puzynin, I. V. see Boyadzhiev, T. L.; et al., 91b:65140
- Quarteroni, Alfio see Gastaldi, Fabio, 91d:65200
- Rach, R. (with Baghdasarian, A.) On approximate solution of a nonlinear differential equation. (Not in MR)
- Rudzhakov, M. D. see Vabishchevich, P. N., (Not in MR)
- Rakotoson, Jean-Michel see Michaux, B.; et al., 91f:65184
- Ramm, Alexander G. Stability of the numerical method for solving the 3D inverse scattering

- problem with fixed-energy data. 91b:65144
— see also Zou, Qisu, (Not in MR)
- Ramović, Rifat (with Ildin, Dragan) Three-dimensional mathematical modelling of semiconductor structures. (Serbo-Croatian summary) (see 91m:00027)
- Rannacher, Rolf On the numerical analysis of the nonstationary Navier-Stokes equations (the role of regularity and stability theory). (see 91f:35003)
- Ravachol, Michel see Glowinski, Roland; et al., (91m:00026)
- Ravi, Varadhan see Kinnmark, Ingemar P. E.; et al., (91e:00029)
- Reif, John Henry see Pan, Victor, 91f:65210
- Rodrigue, Garry see Perkins, A. Louise, 91b:65209
- Rodríguez-Coppola, H. see García-Moliner, F.; et al., 91g:65277
- Ronquist, Einar M. see Maday, Yvon, 91g:65281
- Rosinger, Elmer E. \mathcal{L} -convergence paradox in numerical methods for PDEs. 91m:65311
- Roubíček, Tomáš Numerical solution of the nonlinear heat equation in heterogeneous media. 91m:65312
- Russell, William see Filant, Michael S., 91d:65205 and (Not in MR)
- Russo, Giovanni A particle method for collisional kinetic equations. I. Basic theory and one-dimensional results. 91g:65287
- Saint Mary, Donald F. see Knightly, George H.; et al., 91b:65204
- Samant, Satish S. see Bussioletti, John E.; et al., 91f:65199
- Sanz-Serna, J. M. see Blom, J. G.; et al., (91g:00046)
- Sarrí, F. see Palleschi, V.; et al., 91b:65208
- Sartoretto, F. (with Spigler, Renato) Numerical solution for the one-phase Stefan problem by piecewise constant approximation of the interface. (German summary) 91j:65187
- Savinich, V. S. see Gofman, N. L.; et al., (91k:65009)
- Schröder, Wolfgang² see Hänel, D.; et al., (91e:65008)
- Screpps, Jeffrey S. A parallel algorithm for nonlinear convection-diffusion equations. (see 91e:65010)
- Seldman, Thomas I. Some "complexity" issues for ill-posed problems. 91m:65313
- SenGupta, Gautam see Bussioletti, John E.; et al., 91f:65199
- Setian, J. A. Numerical algorithms for propagating interfaces: Hamilton-Jacobi equations and conservation laws. 91d:65206
- Shchukina, V. E. see Boikov, I. V., 91e:65144
- Sheintuch, Moshe Numerical approaches for computation of fronts. 91d:65207
- Shelyastina, N. A. see Gofman, N. L.; et al., (91k:65009)
- Shen, Jie see Michaux, B.; et al., 91j:65184
- Shereshevskii, I. A. see Vdovicheva, N. K., 91a:65242
- Shestopalov, V. P. see Dudka, V. G.; et al., 91b:65203
- Shih, Wei Structure of an adaptive grid computational method from the viewpoint of dynamic chaos. (Not in MR)
- Shkurko, I. O. Numerical treatment of SDEs with oscillatory solutions. (see 91m:65003)
- Sirotkin, V. V. see Boglaev, I. P., (91e:00027)
- Sod, G. A. A random choice method for the Stefan problem. 91d:65208
- Solov'ev, A. S. see Arlova, E. S., (Not in MR)
- Souza de Cursi, J. E. see Poga, M., (Not in MR)
- Spigler, Renato Numerical simulation for degenerate diffusions. 91g:65288
— see also Sartoretto, F., 91j:65187
- Spivack, Mark Operator splitting for the random wave moment equations. 91b:65210
- Sprekels, Jürgen see Niezgodka, Marek, 91m:65309
- Stagnitti, J. see Hogarth, W. L.; et al., 91f:65198
- Starynk, V. R. see Lyashko, I. I.; et al., 91g:65280
- Stenger, Frank Some open research problems in sonic and electromagnetic inversion. (see 91e:00012)
- Strain, John see Greengard, Leslie, 91j:65178
- Strauss, Raymond see Frischmuth, Kurt, 91f:65205
- Strojwas, Andrzej J. see Tian, Xiaowei, (91e:00027)
- Stuart, Andrew A note on high/low-wave-number interactions in spatially discrete parabolic equations. 91c:65000
- Suárez, Rodolfo Difference equations and a principle of double induction. 91d:65209
- Sun, Jia Chang see Li, Jian², 91d:65203
- Sveshnikov, A. G. see Ermišina, Yu. A., 91j:65176
- Sviridov, Yu. B. Solution of initial-boundary value problems of heat-mass transport by the method of power moments (an infinite interval). (Russian) 91d:65210
- Samolyan, P. Initial transients of solutions of the semiconductor device equations. 91e:65152
- Tagiev, F. A. (with Guseinov, A. M.) On the numerical solution of a Tricomi-type problem for equations with two lines of degeneracy with continuous coefficients. (Russian) 91k:65211
- Taha, Thibaut R. Numerical simulation of the nonlinear Schrödinger equation. (Not in MR)
- Tang, Long Ji see Xie, Gan Quan; et al., (Not in MR)
- Tenenbaum, Eric see Latta, Andrew, 91m:65308 and Glowinski, Roland; et al., (91m:00026)
- Thomas, J. W. see McCormick, Stephen F.; et al., (Not in MR) and McKay, Steven M., (91e:65008)
- Tian, Xiaowei (with Strojwas, Andrzej J.) A numerical integral method for diffusion modeling. (see 91e:00027)
- Titkii, V. P. A method for calculating fields of different physical properties by means of the methods of R -functions and of singular solutions. (Russian. English summary) 91c:65081
— On a new method for solving some problems of mathematical physics. (Russian. English summary) 91m:65314
- Tormasov, A. G. see Petrov, I. B., 91g:65286
- Torquati, M. R. see Palleschi, V.; et al., 91b:65208
- Tsai, Wu Yuan Application of the trajectory image method to solve convection-diffusion equations. (Not in MR)
- Tsao, N. K. The accuracy of a parallel LU decomposition algorithm. 91b:65202
- Tuchkin, Yu. A. see Dudka, V. G.; et al., 91b:65203
- Tuikina, S. R. Solution of some inverse problems in the dynamics of sorption by the gradient method. (Russian) 91m:65315
- Tuminaro, Ray S. see Chan, Tony F., (91e:65008)
- Urban, V. V. see Gryz, V. I.; et al., 91b:65197
- Vabishchevich, P. N. (with Pulatov, P. A.) A numerical algorithm for transforming potential fields with arbitrary relief. (Russian. Tajiki summary) 91g:65289
— Domain splitting for solving nonstationary PDE problems. 91c:65082
— (with Radzhabov, M. D.) A numerical-analytic method for solving problems of mathematical physics in stratified media. (Russian. Tajiki summary) (Not in MR)
- Vaclavik, J. see Llobet, X.; et al., 91f:65209
- Vandeven, Hervé On the eigenvalues of second-order spectral differentiation operators. 91j:65188
- Vasil'eva, A. B. On the stability of solutions of contrast structure type. (Russian. English summary) (Not in MR)
- Vázquez, Luis see Jiménez, Salvador, 91d:65202
- Vdovicheva, N. K. (with Shereshevskii, I. A.) Application of the principle of limit amplitude for calculating fields in a layered medium. 91a:65242
- Velasco, V. R. see García-Moliner, F.; et al., 91g:65277
- Veldman, Arthur E. P. "Missing" boundary conditions? Discretize first, substitute next, and combine later. 91d:65211
- Verdi, C. Linear algorithms for solving Stefan-like problems. (see 91g:00044)
- Verwer, J. G. Some stability results for the hopscotch difference method when applied to convection-diffusion equations. (see 91f:65004)
- see also Blom, J. G.; et al., (91g:00046)
- Viallet, J. E. see Mottet, S., (91e:00027)
- de Vicente, Santiago (with Conde, Carlos; Castro, Fernando) Fixed-point methods for approximating a problem in semiconductor physics. (Spanish) (see 91j:00015)
- Wang, Alan P. Invariant imbedding and nonpredictive operators. 91f:65211
- Wang, Bu see He, Guang Yu, (Not in MR)
- Wang, Guo Bin see Chang, Qian Shan, 91e:65145
- Wang, Ru Yun (with Liu, Ru Xun) Numerical simulation for an unsteady shock wave sweeping over multiple rectangular obstacles. (Chinese. English summary) (Not in MR)
- Weideman, J. A. C. (with Cloot, A.) Spectral methods and mappings for evolution equations on the infinite line. 91f:65189
- Wen, Guo Chun (with Li, Ping Qian) Numerical analysis of nonlinear quasiconformal mappings. (Chinese) (Not in MR)
- Wen, Xian Yun see Peng, Kai; et al., 91g:65285
- Westbrook, D. R. The thermistor: a problem in heat and current flow. (Not in MR)
- Whitaker, Nathaniel Numerical solution of the Hele-Shaw equations. (Not in MR)
- Wick, Joachim A point method for a semi-conductor equation. 91j:65190
- Wiesmann, H. J. (with Wild, Paul) Mathematical and numerical aspects of the semiconductor equations: the 1D case revisited. (see 91e:00027)
- Wild, Paul see Wiesmann, H. J., (91e:00027)
- Wood, W. L. (with Arnold, P. D.) On the box scheme for overland flow calculations. (Not in MR)
- Xie, Gan Quan (with Tang, Long Ji; Hong, Yue Shan) A numerical implementation of the time convolution regular (TCR) iterative method for the solution of inverse problems for wave equations. (Chinese) (Not in MR)
- Yagle, Andrew E. Generalized split Levinson, Schur, and lattice algorithms for estimation and inverse scattering. 91d:65212
- Yan, Xiao Pu see Guo, Ben Yu, 91d:65201
- Yang, H. Y. see Kuo, M. K., (91e:00046)
- Yang, Huey Ju A wide-angle range refraction parabolic wave equation. 91b:65212
- Young, David P. see Bussioletti, John E.; et al., 91f:65199
- Yuan, Guo Wu A class of explicit three-level schemes for equations of Schrödinger type. (Chinese. English summary) (Not in MR)
- Zaitsev, O. L. see Egorov, I. V., 91m:65307
- Zhang, Mao Xiang A numerical method for solving time-dependent field problems. (Chinese) 91f:65212
- Zhanlar, T. see Boyadzhiev, T. L.; et al., 91b:65140
- Zhu, Ben Ren Discretized inverse scattering problems and Gelfand-Levitan equations. 91d:65213
- Zhuk, V. I. (with Popov, S. P.) Modeling of nonlinear waves in boundary layers on the basis of the Burgers, Benjamin-Ono and Korteweg-de Vries equations. (Russian. English summary) (Not in MR)
- Zidarov, D. P. Computable object functions and models used in inverse potential field problems. 91m:65316
- Zirilli, Francesco see Aluffi-Pentini, Filippo; et al., (91m:65006)
- Zolésio, Jean-Paul see Canadas, Guy; et al., 91m:65305
- Zou, Qisu (with Ramm, Alexander G.) Numerical solution of some inverse scattering problems of geophysics. (Not in MR)

Items with secondary classifications in 65P05

- Ablowitz, Mark J. see Herbst, B. M.; et al., 91m:35209
- Abrashin, V. N. A variant of the method of variable directions for the solution of multidimensional problems in mathematical physics. I. 91c:35003
- Adomian, George A. Comments on a "counterexample" to decomposition in: "Adomian's method of decomposition: critical review and examples of failure" [J. Comput. Appl. Math. 23 (1988), no. 3, 389–393; MR 89k:35012] by P. Nelson, Jr. 91a:35005b
— (with Rach, R.) Equality of partial solutions in the decomposition method for linear or nonlinear partial differential equations. 91c:35004
- Airyas, É. A. (with Zhidkov, E. P.; Fedorov, A. V.; Khoromskii, B. N.; Shelaev, I. A.; Yudin, I. P.; Yuldashev, O. I.) Numerical algorithms for the calculation of magnet systems for charged-particle accelerators. 91h:78001
- Akramov, T. A. Qualitative and numerical analysis of a reactor model with a countercurrent component flow. (Russian) 91d:80013
- Amini, S. see Ke, Chen, 91j:35079
- Amiraliyev, G. M. Numerical solution of a Boussinesq system with boundary layers. (Russian) 91c:35179
- Amirkhanov, I. V. (with Puzyrnikova, T. P.) ★ Численное решение прямой и обратной задач квантовой механики в рамках R -матричного подхода и Бергмановского формализма. (Russian) [Numerical solution of direct and inverse problems in quantum mechanics in the framework of the R -matrix approach and Bargmann formalism] 91e:81116
- Andrá, Heiko see Streit, Uwe, (Not in MR)

- Arbogast, Todd On the simulation of incompressible, miscible displacement in a naturally fractured petroleum reservoir. (French summary) **91d:76073**
- Arumugam, G. (with Pironneau, Olivier) The problem of "riblets". (Russian) **91g:76028**
- Ashbaugh, Mark S. (with Benguria, Rafael D.) Some eigenvalue inequalities for a class of Jacobi matrices. **91m:55097a**
- (with Benguria, Rafael D.) Addendum: "Some eigenvalue inequalities for a class of Jacobi matrices". **91m:55097b**
- Aston, P. J. Introduction to the numerical solution of symmetry-breaking bifurcation problems. **91g:58196**
- Awrejcewicz, J. Determination of periodic oscillations in nonlinear autonomous discrete-continuous systems with delay. **91j:35025**
- Baev, A. V. On the solution of an inverse problem for the wave equation from information given at a point. **91e:35199**
- Baldes, Alfred (with Wohlbach, Ortwin) Computer graphics of solutions of the generalized Monge-Ampère equation. **91k:65170**
- Bamberger, Alain (with Cockburn, Bernardo; Goldman, Y.; Kern, Michel; Joly, Patrick) Numerical solution of Maxwell's equations in a conductive and polarizable medium. **91d:86013**
- Bank, Randolph E. (with Welfert, Bruno D.) A posteriori error estimates for the Stokes equations: a comparison. **91g:76061**
- Banks, H. T. (with Kunisch, Karl) ★ Estimation techniques for distributed parameter systems. **91h:93085**
- (with Kojima, Fumio; Winfree, W. P.) Boundary estimation problems arising in thermal tomography. **91k:00003**
- Barkley, Dwight (with Kness, Mark; Tuckerman, Laurette S.) Spiral-wave dynamics in a simple model of excitable media: the transition from simple to compound rotation. **91e:35133**
- Barrett, John W. (with Elliott, Charles M.) Finite element approximation of a free boundary problem related to plasma physics. (see **91g:00044**)
- Bazdyreva, M. B. Numerical solution of an inverse problem for the heat equation. (Russian) (see **91h:35001**)
- Benguria, Rafael D. see Ashbaugh, Mark S., **91m:55097a** and **91m:55097b**
- Bensabat, J. (with Zeitoun, D. G.) A least-squares procedure for the solution of transport problems. **91a:76075**
- Bermúdez de Castro, Alfredo (with Durany, J.) Solving some free boundary problems by a method of characteristics. (see **91g:00044**)
- Bilić, Nataša The optimal control problem governed by Stokes equations with control variable in boundary conditions. (Serbo-Croatian summary) (see **91m:00027**)
- Boghosian, Bruce M. Lattice gases. (see **91m:00034**)
- Börger, Christoph Generalized Delaunay triangulations of nonconvex domains. **91i:65225**
- Borovikov, I. P. (with Gaponenko, Yu. L.) An inverse problem for the wave equation with an unknown source of perturbations. **91i:35200**
- Bourquin, Frédéric Approximation bidimensionnelle du spectre de l'opérateur de Poincaré-Steklov associé aux plaques minces. (English summary) [Two-dimensional approximation of the spectrum of the Poincaré-Steklov operator associated with thin plates] **91j:73039**
- Boyd, John Philip Exact and approximate nonlinear waves generated by the periodic superposition of solitons. **91a:35143**
- A numerical calculation of a weakly nonlocal solitary wave: the ϕ^4 breather. **91a:81027**
- Brezzi, Franco Singular perturbation analysis of (strongly) reverse biased semiconductor devices. **91k:34061**
- Budd, Chris J. (with Friedman, Avner; McLeod, Bryce; Wheeler, Adam A.) The space charge problem. **91b:78004**
- Buonincontri, Steve (with Hagstrom, Thomas) Multidimensional travelling wave solutions to reaction-diffusion equations. **91e:35112**
- Bykov, A. A. (with Sveshnikov, A. G.; Trubetskov, M. K.) Application of the incomplete Galerkin method for solving problems of the diffraction of electromagnetic waves by a nonhomogeneous cylinder. (Russian) **91g:78002**
- Cacuci, D. G. (with Karakashian, Ohannes A.) Benchmarking the propagator method for nonlinear systems: a Burgers-Korteweg-de Vries equation. **91d:35186**
- Cannon, John R. (with Yin, Hong Ming) Numerical solutions of some parabolic inverse problems. **91g:65205**
- Chen, Zhang Xing On the existence, uniqueness and convergence of nonlinear mixed finite element methods. (Portuguese summary) **91g:65139**
- Chernikov, A. A. see Saul'ev, V. K., (Not in MR)
- Chichinadze, R. K. (with Gegelia, T. G.) Solution in quadratures of the basic problems of thermoelasticity for a sphere and a spherical cavity. (German and Russian summaries) **91c:73009**
- Chiu, Chichia A numerical method for nonlinear age dependent population models. **91h:92023**
- Chynoweth, S. (with Sewell, M. J.) Mesh duality and Legendre duality. **91e:58023**
- Ciegiński, Raimondas Numerical modeling of the interaction of focused countertravelling laser beams. (Russian, English and Lithuanian summaries) **91m:65019**
- Cockburn, Bernardo see Bamberger, Alain; et al., **91d:86013**
- Conca, Carlos (with Sepulveda, Mauricio) Numerical results in the Stokes sieve problem. (Spanish, English summary) **91c:76032**
- Corduneanu, Adrian Linear equations with differences in two variables. **91a:39001**
- Coughran, W. M., Jr. (with Jerome, Joseph W.) Modular algorithms for transient semiconductor device simulation. I. Analysis of the outer iteration. **91d:65017**
- Coulomb, Françoise Domain decomposition and mixed finite elements for the neutron diffusion equation. **91d:82048**
- Dai, Wei Zhong Absolutely stable explicit and semi-explicit difference schemes for Schrödinger equations. (Chinese, English summary) **91c:65060**
- Dal Passo, R. A numerical study of interface problem for the porous media equation via superdegenerate equation. (see **91g:00044**)
- Déborde, O. see Wielgosz, C., **91h:73056**
- Demengel, Françoise (with Ghidaglia, Jean-Michel) Time-discretization and inertial manifolds. **91e:58170**
- De Raedt, H. see Huyghebaert, J., **91m:81008**
- Dikarev, V. A. Applicability of the Ritz method to a class of functionals in the theory of generalized natural oscillations. (Russian) **91m:35008**
- Dimova-Borshukova, Stefka (with Kaschiev, M. S.; Kurdyumov, S. P.) Numerical analysis of the eigenfunctions of the burning of a nonlinear medium in the radially symmetric case. **91b:80006**
- Djomehri, M. J. see Straughan, Brian; et al., **91c:76059**
- Dodd, Nicholas Reflective properties of parabolic approximations in shallow water wave propagation. **91m:76012**
- Durany, J. see Bermúdez de Castro, Alfredo, **(91g:00044)**
- Dutt, Pravir see Ta'asan, Shlomo, **91g:65162**
- Dzhalkbaev, A. M. (with Smagulov, Sh. S.) ϵ -approximation of a model for an inhomogeneous fluid. (Russian) **91e:76086**
- E, Wei Nan (with Hou, Thomas Y.) Homogenization and convergence of the vortex method for 2-D Euler equations with oscillatory vorticity fields. **91h:35263**
- Eckhaus, W. (with Garbey, Marc) Asymptotic analysis on large timescales for singular perturbations of hyperbolic type. **91f:35067**
- Eden, Alp (with Michaux, B.; Rakotoson, Jean-Michel) Error analysis of nonlinear evolution equations and associated dynamical systems. **91h:35169**
- Eldén, Lars see Seidman, Thomas L., **91h:35327**
- Elgin, John see Swinton, Jonathan, **91c:81190**
- Elliott, Charles M. see Barrett, John W., **(91g:00044)**
- Erfmín, Yu. A. (with Sveshnikov, A. G.) The iterative quasisolution method in problems of diffraction by dielectric bodies. **91d:35054**
- Ewing, Richard E. (with Lazarov, Raicho D.; Russell, T. F.; Vassilevski, P. S.) Local refinement via domain decomposition techniques for mixed finite element methods with rectangular Raviart-Thomas elements. **91f:65191**
- see also Straughan, Brian; et al., **91c:76059**
- Fedorov, A. V. see Afiyev, E. A.; et al., **91c:78001**
- Fedorov, S. I. ★ О численных алгоритмах для одной модели двумерной геометрически нелинейной упругости. (Russian) [Numerical algorithms for a model of two-dimensional geometrically nonlinear elasticity] **91g:73016**
- Felstauer, Miloslav (with Kalis, Harijs; Rokyta, Mirko) Mathematical modelling of an electrolysis process. **91d:35081**
- Fishelov, Dalia Vortex methods for slightly viscous three-dimensional flow. **91c:76088**
- Fitt, A. D. Mixed hyperbolic-elliptic systems in industrial problems. (see **91e:00031**)
- Fleisch, Randy (with Forest, M. Gregory; Sinha, Amarendra) Numerical inverse spectral transform for the periodic sine-Gordon equation: theta function solutions and their linearized stability. **91m:35208**
- Fontenelle, Márcia T. (with Gallas, Jason A. C.) Constants of motion for the KdV and mKdV equations. **91g:58110**
- Forest, M. Gregory see Fleisch, Randy; et al., **91m:35208**
- Frederickson, Paul O. (with McBryan, Oliver A.) Normalized convergence rates for the PSMG method. **91j:65207**
- Freedon, Willi (with Gervens, Theo; Mason, John C.) A minimum norm interpolation method for determining the displacement field of a homogeneous isotropic elastic body from discrete data. **91d:73065**
- Friedman, Avner see Budd, Chris J.; et al., **91b:78004**
- Fusaoka, Hideo Higher-order numerical solutions of a 2 + 1d nonlinear Klein-Gordon equation. **91a:35153**
- Gagneux, Gérard (with Lefevre, A.-M.; Madaune-Tort, Monique) An implicit time-stepping scheme for polyphasic flows in porous media including coupled quasi-linear inequalities. **91c:76112**
- Galanin, M. P. Construction and investigation of a difference scheme for a one-dimensional dynamic coupled problem of thermoelasticity. (Russian) **91k:73105**
- Galazysk, V. A. (with Khapko, R. S.) Methods of Chebyshev-Laguerre integral transformation and integral equations in initial-boundary value problems for the telegraph equation. (Russian, English summary) **91j:35008**
- Gallas, Jason A. C. see Fontenelle, Márcia T., **91g:58110**
- Gaponenko, Yu. L. ★ Некорректные задачи на слабых компактах. (Russian) [Ill-posed problems on weakly compact sets] **91f:65113**
- see also Borovikov, I. P., **91i:35200**
- Garbey, Marc see Eckhaus, W., **91f:35067**
- Gastaldi, Fabio (with Quarteroni, Alfio) On the coupling of hyperbolic and parabolic systems: analytical and numerical approach. **91h:35037**
- Gegelia, T. G. see Chichinadze, R. K., **91c:73009**
- Gerd, V. P. (with Shabat, A. B.; Svinolupov, S. I.; Zharkov, A. Yu.) Computer algebra application for investigating integrability of nonlinear evolution systems. **91a:58002**
- Gervens, Theo see Freedon, Willi; et al., **91d:73065**
- Ghidaglia, Jean-Michel see Demengel, Françoise, **91e:58170**
- Gisser, D. G. (with Isaacson, David; Newell, J. C.) Electric current computed tomography and eigenvalues. **91j:35280**
- Glowinski, Roland (with Périaux, Jacques; Terrasson, G.) On the coupling of viscous and inviscid models for compressible fluid flows via domain decomposition. (see **91i:65010**)
- Goldman, Y. see Bamberger, Alain; et al., **91d:86013**
- Görlebeck, Klaus (with Sprössig, Wolfgang) ★ Quaternionic analysis and elliptic boundary value problems. **91k:35002a**
- (with Sprössig, Wolfgang) ★ Quaternionic analysis and elliptic boundary value problems. **91k:35002b**
- (with Sprössig, Wolfgang) A quaternionic treatment of Navier-Stokes equations. **91h:35251**
- Gutman, Semion Alternating directions method for impedance computed tomography. **91a:35165**
- Identification of discontinuous parameters in flow equations. **91e:35269**
- Hagstrom, Thomas Asymptotic boundary conditions for dissipative waves: general theory. **91m:65299**
- see also Buonincontri, Steve, **91d:35112**
- Herbst, B. M. (with Ablowitz, Mark J.; Ryan, Eugene P.) Numerical homoclinic instabilities and the complex modified Korteweg-de Vries equation. **91m:35209**
- Holmes, Mark H. Nonlinear ionic diffusion through charged polymeric gels. **91h:35151**
- Honerkamp, J. (with Weese, J.) Tikhonov's regularization method for ill-posed problems. A comparison of different methods for the determination of the regularization parameter. **91a:65011**

- Horsung, Ulrich. Numerical aspects of capillary surfaces. 91c:76023
- Hou, Thomas Y. *see* E, Wei Nan, 91h:35263
- Huang, Ai Xiang (with Zhang, Bo). Convergence of nodal expansion methods for neutron diffusion eigenvalue problems. (Chinese. English summary) 91c:82082
- Huyghebaert, J. (with De Raedt, H.). Product formula methods for time-dependent Schrödinger problems. 91m:81008
- Ingraham, R. L. A sequence of Galerkin approximations to the center manifold for a certain class of nonlinear partial differential equation dynamical systems. 91h:35045
- Isaacson, David *see* Glaser, D. G.; et al., 91j:35280
- Ito, Kazufumi (with Kunisch, Karl). The augmented Lagrangian method for parameter estimation in elliptic systems. 91d:35228
- Jacobs, P. G. *see* Stranghan, Brian; et al., 91c:76059
- Jerome, Joseph W. *see* Coughran, W. M., Jr., 91d:65017
- Jódar, Lucas. A separation of the variables method for solving coupled systems of second-order partial differential equations: exact, approximate solutions and error bounds. 91f:35013
- Johansen, Thorodd (with Tveito, Aslak; Winther, Ragnar). A Riemann solver for a two-phase multicomponent process. 91b:76082
- Jolly, Michael S. (with Kevrekidis, Ioannis G.; Titi, Edriss S.). Approximate inertial manifolds for the Kuramoto-Sivashinsky equation: analysis and computations. 91f:35217
- Joly, Patrick *see* Bamberger, Alain; et al., 91d:86013
- Kabala, Z. J. (with Milly, P. C. D.). Sensitivity analysis of partial differential equations: a case for functional sensitivity. (Not in MR)
- Kalis, Harijs *see* Feistauer, Miloslav; et al., 91d:35081
- Kansa, E. J. Multiquadrics—a scattered data approximation scheme with applications to computational fluid-dynamics. I. Surface approximations and partial derivative estimates. 91f:65022
- Multiquadrics—a scattered data approximation scheme with applications to computational fluid-dynamics. II. Solutions to parabolic, hyperbolic and elliptic partial differential equations. 91b:65023
- Karakashian, Ohannes A. *see* Cacuci, D. G., 91d:35186
- Kaschke, M. S. *see* Dimova-Borshukova, Stefka; et al., 91h:80006
- Ke, Chen (with Amini, S.). Analytical behaviour of solutions of boundary integral equations for a nonsmooth region. 91j:35079
- Kern, Michel *see* Bamberger, Alain; et al., 91d:86013
- Kevrekidis, Ioannis G. *see* Jolly, Michael S.; et al., 91f:35217
- Khabibullin, I. T. (with Shagalov, A. G.). Numerical realization of the method of the inverse scattering problem. 91h:35301
- Khailallin, M. Kh. Application of the regularization method to determining the parameters of stratified layers. 91f:86001
- Khankishiev, Z. F. Application of the grid method to the solution of a heat conduction problem for a rod on the ends of which two masses are fixed. (Russian) 91m:80006
- Khapko, R. S. *see* Galazynsk, V. A., 91j:35008
- Khoromskii, B. N. *see* Aklyan, E. A.; et al., 91c:78001
- Klingenberg, Christian (with Plohr, Bradley J.). An introduction to front tracking. 91k:76132
- Kness, Mark *see* Barkley, Dwight; et al., 91f:35133
- Kohn, Robert V. (with McKenney, Alan). Numerical implementation of a variational method for electrical impedance tomography. 91g:78006
- Kojima, Fumio *see* Banks, H. T.; et al., 91k:80003
- Kondratiev, S. A. Solution of a conditionally well-posed problem in electrical prospecting. (Russian) (see 91f:65003)
- Korotkiĭ, V. V. (with Lyubimov, D. A.). A modified approximate factorization method for computing potential three-dimensional flows in channels. (Russian) 91m:76077
- Korman, Philip (with Leung, Anthony W.; Stojanovic, Srdjan). Monotone iterations for nonlinear obstacle problem. 91c:35108
- Kozlov, Vladimir Arkad'evich (with Maz'ya, V. G.). Iterative procedures for solving ill-posed boundary value problems that preserve the differential equations. 91f:65110
- Krasucki, F. (with Planchard, Jacques). Homogénéisation d'un problème de diffusion d'un matériau finement perforé dans un cas de périodicité non standard. (English summary) [Homogenization of a diffusion problem for a finely perforated material in a case of nonstandard periodicity] 91b:49048
- Krueger, R. J. (with Ochs, R. L., Jr.). A Green's function approach to the determination of internal fields. 91b:78016
- Kryuchkov, S. V. *see* Volkov, V. T.; et al., 91c:82086
- Kunisch, Karl *see* Ito, Kazufumi and Ito, Kazufumi, 91d:35228
- Kurdyumov, S. P. *see* Dimova-Borshukova, Stefka; et al., 91h:80006
- Kuznetsov, A. E. (with Strelets, M. Kh.; Shur, M. L.). Calculation of steady-state three-dimensional flows of viscous gases and chemically reacting gas mixtures. (Russian) 91m:76078
- Landman, Michael J. (with Papanicolaou, George; Sulem, C.; Sulem, P.-L.; Wang, X. P.). Stability of isotropic singularities for the nonlinear Schrödinger equation. 91m:35216
- Larsen, Edward W. (with Morel, Jim Emanuel). Corrigendum: "Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. II" [J. Comput. Phys. 83 (1989), no. 1, 212-236; MR 90b:82001]. 91j:82002
- Laurence, Peter (with Stredulinsky, Edward). Convergence of a sequence of free boundary problems associated with the Grad variational problem in plasma physics. 91c:35164
- Lazarus, Raïcho D. *see* Ewing, Richard E.; et al., 91f:65191
- Lefevre, A.-M. *see* Gagneux, Gérard; et al., 91c:76112
- Le Tallec, Patrick. Numerical analysis of viscoelastic problems. 91h:73029
- Leung, Anthony W. *see* Korman, Philip; et al., 91c:35108
- Levenshain, V. B. Higher approximations of the averaging method for the Navier-Stokes system. II. The case when the amplitudes of external mass forces are of order $\omega \gg 1$. (Russian) 91j:35222
- LeVeque, Randall J. Numerical methods for conservation laws. 91j:65142
- Li, Da Qian. A class of nonlocal boundary value problems for partial differential equations and its applications in numerical analysis. 91d:35007
- Li, Lige (with Lloyd, M. R.). A numerical behavior of positive solutions to elliptic predator-prey systems over large regions. 91a:92008
- Liu, Chao Qun (with McCormick, Stephen F.). Multigrid, the rotated hybrid scheme and the fast adaptive composite grid method for planar cavity flow. (see 91g:00046)
- Lloyd, M. R. *see* Li, Lige, 91a:92008
- Loktionov, B. A. (with Pleshkevich, A. L.). The difference method for solving the eikonal equation. (Russian) 91c:73045
- Lyubimov, D. A. *see* Korotkiĭ, V. V., 91m:76077
- Madaune-Tort, Monique *see* Gagneux, Gérard; et al., 91c:76112
- Makarenko, A. S. Some approximations of problems in mathematical physics. (Russian) 91h:65104
- Makhmudov, A. A. (with Popov, S. P.). A numerical scheme for solving equations of a boundary layer with self-induced pressure. (Russian) 91m:76079
- Mäkinen, Raine. On computer aided optimal shape design. 91k:65112
- Maltsev, V. A. The direct inversion method for matrices of special form and its application to solving partial differential equations. (Russian) 91h:65058
- Marinov, C. A. (with Neittaanmäki, Pekka). Asymptotical convergence evaluation for a parabolic problem arising in circuit theory. (Not in MR)
- Martin, Clyde Franklin (with Xie, Shishen). Observability of the electropotential on a nested cylindrical domain. II. Numerical solution. 91h:92015
- Mason, John C. *see* Freedden, Willi; et al., 91d:73065
- Mazhukin, V. I. *see* Vasilevskii, V. F., 91k:76124
- Maz'ya, V. G. *see* Kozlov, Vladimir Arkad'evich, 91f:65110
- McBryan, Oliver A. *see* Frederickson, Paul O., 91j:65287
- McCormick, Stephen F. *see* Liu, Chao Qun, (91g:00046)
- McKenney, Alan *see* Kohn, Robert V., 91g:78006
- McLeod, Bryce *see* Budd, Chris J.; et al., 91b:78004
- Michaux, B. *see* Eden, Alp; et al., 91h:35169
- Miersemann, Erich (with Mittelmann, Hans D.). A free boundary problem and stability for the rectangular plate. 91d:35245
- Mikelic, Andro (with Prnić, Žarko). Numerical solution of the Buckley-Leverett equation by using TVD-schemes. (Serbo-Croatian summary) (see 91m:00027)
- Mikhailov, V. V. Arrangement of the temperature measurement points and conditionality of inverse thermal conductivity problems. 91k:80005
- Milly, P. C. D. *see* Kabala, Z. J., (Not in MR)
- Mittelmann, Hans D. Continuation methods for parameter-dependent boundary value problems. 91d:65195
- *see also* Miersemann, Erich, 91d:35245
- Moore, D. R. (with Weiss, N. O.; Wilkins, J. M.). Symmetry-breaking in thermosolutal convection. 91g:76037
- More, Jorge J. A collection of nonlinear model problems. 91f:00010
- Morel, Jim Emanuel *see* Larsen, Edward W., 91d:82002
- Morris, J. L. *see* Pathria, D., 91d:35204
- Mulder, Wim A. Multigrid for the one-dimensional inviscid Burgers equation. 91c:76081
- Necas, Jindřich (with Roubíček, Tomáš). Approximation of a nonlinear thermoelastic problem with a moving boundary via a fixed-domain method. (Russian and Czech summaries) 91j:35290
- Neittaanmäki, Pekka *see* Marinov, C. A., (Not in MR)
- Nelson, Paul, Jr. *see* Adomian, George A., 91a:35005b
- Nesterenko, G. V. Construction of exact solutions of differential equations by means of tangent vector fields. (Russian) 91c:35005
- Newell, J. C. *see* Glaser, D. G.; et al., 91j:35280
- Nochetto, Ricardo H. (with Paolini, M.; Verdi, C.). Local mesh refinements for two-phase Stefan problems in two space variables. 91b:80019
- Obukhov, I. A. *see* Volkov, V. T.; et al., 91c:82086
- Ochs, R. L. *see* Krueger, R. J., 91b:78016
- Okamoto, Hisashi. Applications of degenerate bifurcation equations to the Taylor problem and the water wave problem. 91h:35025
- Osborne, A. R. (with Segre, E.). Numerical solutions of the Korteweg-de Vries equation using the periodic scattering transform μ -representation. 91h:35288
- Paolini, M. *see* Nochetto, Ricardo H.; et al., 91b:80019
- Papanicolaou, George *see* Landman, Michael J.; et al., 91m:35216
- Pathria, D. (with Morris, J. L.). Pseudo-spectral solution of nonlinear Schrödinger equations. 91d:35204
- Périaux, Jacques *see* Glowinski, Roland; et al., (91e:65010)
- Pironneau, Olivier *see* Arumugam, G., 91g:76028
- Planchard, Jacques *see* Krasucki, F., 91b:49048
- Pleshkevich, A. L. *see* Loktionov, B. A., 91c:73045
- Plohr, Bradley J. *see* Klingenberg, Christian, 91k:76132
- Poltavskii, L. N. Convergence of the discrete vortex method in stationary problems in aerodynamics. 91c:76092
- Popov, S. P. *see* Makhmudov, A. A., 91m:76079
- Prasad, Phoolan (with Ravindran, Renuka). A new theory of shock dynamics. II. Numerical solution. 91h:35126
- *see also* Ravindran, Renuka, 91a:35110
- Prnić, Žarko *see* Mikelic, Andro, (91m:00027)
- Pazymina, T. P. *see* Amirhanov, I. V., 91e:81116
- Quarteroni, Alfio *see* Gastaldi, Fabio, 91h:35037
- Rach, R. Decomposition solution of a proposed counterexample. 91a:35005a
- *see also* Adomian, George A., 91c:35004
- Rakotonoson, Jean-Michel *see* Eden, Alp; et al., 91h:35169
- Rannacher, Rolf. Numerical analysis of nonstationary fluid flow. 91h:76057
- Ravindran, Renuka (with Prasad, Phoolan). A new theory of shock dynamics. I. Analytic considerations. 91a:35110
- *see also* Prasad, Phoolan, 91h:35126
- Reddy, Satish C. (with Trefethen, Lloyd N.). Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues. 91j:65102
- Rodríguez, María J. (with Vázquez, Luis). Stability of solitary waves under stochastic perturbations. A numerical and perturbative approach. 91f:35281
- Rodríguez Plaza, M. J. (with Stubbe, Joachim; Vázquez, Luis). Existence and stability of travelling waves in $(1+1)$ dimensions. 91d:35142
- Rogarskii, S. V. On a solution of boundary value problems for the Boltzmann equation by the Monte Carlo method. (Russian) (see 91g:65009)

- Rokytka, Mirko *see* Feistauer, Miloslav; et al., 91d:35081
- Rosow, Cord-Christian ★ Berechnung von Strömungsfeldern durch Lösung der Euler-Gleichungen mit einer erweiterten Finite-Volumen Diskretisierungsmethode. (German) [Computation of flow fields by the solution of Euler equations using an extended finite volume discretization scheme] 91b:76081
- Roubíček, Tomáš *see* Nečas, Jindřich, 91j:35290
- Rumyantsev, S. V. *see* Volkov, V. T.; et al., 91c:82086
- Russell, T. F. *see* Ewing, Richard E.; et al., 91f:65191
- Ryan, Eugene P. *see* Herbst, B. M.; et al., 91m:35209
- Sato, Takashi Numerical computation of large partial differential equations on memory hierarchy. 91d:65003
- Sau'ev, V. K. (with Chernikov, A. A.) Solution of the Fokker-Planck-Kolmogorov equation by the finite difference method. (Not in MR)
- Schnaf, Renate (with Schmitt, Klaus) On the number of solutions of semilinear elliptic problems at resonance: some numerical experiments. 91f:35040
- Schmalz, Björn Endlichdimensionale Approximation der Lösung der stochastischen Navier-Stokes-Gleichung. (English summary) [Finite-dimensional approximation of the solution of the stochastic Navier-Stokes equation] 91m:60114
- Langzeitverhalten einer parabolischen Evolutionsgleichung mit zufälligen Einflüssen. (English and Russian summaries) [Long-time behavior of a parabolic evolution equation with random influences] 91m:60115
- Schmitt, Klaus *see* Schnaf, Renate, 91f:35040
- Schryer, N. L. Designing software for one-dimensional partial differential equations. (Not in MR)
- Schwendeman, Donald W. Nonlinear diffusion of impurities in semiconductors. 91m:82156
- Segre, E. *see* Osborne, A. R., 91h:35288
- Seldman, Thomas I. (with Elden, Lars) An "optimal filtering" method for the sideways heat equation. 91h:35327
- Sepulveda, Mauricio *see* Conca, Carlos, 91c:76032
- Sewell, M. J. *see* Chynoweth, S., 91c:58023
- Shabat, A. B. *see* Gerdt, V. P.; et al., 91a:58002
- Shagalov, A. G. *see* Khabibullina, I. T., 91h:35301
- Shelaev, I. A. *see* Airyan, E. A.; et al., 91c:78001
- Shen, Jie (with Temam, Roger) A new fractional scheme for the approximation of incompressible flows. (Portuguese summary) 91g:76080
- Shur, M. L. *see* Kuznetsov, A. E.; et al., 91m:76078
- Silbermann, Bernd Approximation of solutions of periodic pseudodifferential equations and optimal error estimates. 91c:65163
- Sinha, Amarendra *see* Flesch, Randy; et al., 91m:35208
- Slodička, Marián Smoothing effect and regularity for evolution integrodifferential systems. 91c:45014
- Smagolov, Sh. S. *see* Dzhaikbaev, A. M., 91c:76086
- Sneider, Roel The role of the Born approximation in nonlinear inversion. 91c:35160
- Soler, Juan Vortex filament method. 91c:76028
- Sowa, Johan Stability of a Runge-Kutta method for the Navier-Stokes equation. 91h:76065
- Sprössig, Wolfgang *see* Gürlbeck, Klaus, 91h:35251; 91h:35002a and 91h:35002b
- Stojanovic, Srdjan *see* Korman, Philip; et al., 91c:35108
- Stranghan, Brian (with Ewing, Richard E.; Jacobs, P. G.; Djomehri, M. J.) Nonlinear instability for a modified form of Burgers' equation. 91c:76059
- Stredulinsky, Edward *see* Laurence, Peter, 91c:35164
- Streit, Uwe (with Andrä, Heiko) Numerical results for a Stefan problem with mushy region. (Not in MR)
- Strelets, M. Kh. *see* Kuznetsov, A. E.; et al., 91m:76078
- Stuart, Andrew The global attractor under discretisation. 91g:58172
- Stubbe, Joachim *see* Rodríguez Plaza, M. J.; et al., 91d:35142
- Sulem, C. *see* Landman, Michael J.; et al., 91m:35216
- Sulem, P.-L. *see* Landman, Michael J.; et al., 91m:35216
- Sveshnikov, A. G. *see* Ermiin, Yu. A., 91d:35054 and Bykov, A. A.; et al., 91g:78002
- Svinolupov, S. I. *see* Gerdt, V. P.; et al., 91a:58002
- Swinton, Jonathan (with Elgin, John) Stability of travelling pulse solutions to a laser equation. 91c:81190
- Sylvester, John (with Uhlmann, Gunther) The Dirichlet to Neumann map and applications. 91d:35063
- Ta'asan, Shlomo Multigrid methods for distributed parameter systems. 91g:65267
- (with Dutt, Pravir) Parameter estimation problems for distributed systems using a multigrid method. 91g:65162
- Multigrid methods for locating singularities in bifurcation problems. 91d:65191
- Temam, Roger *see* Shen, Jie, 91g:76080
- Terrasson, G. *see* Glowinski, Roland; et al., (91c:65010)
- Tichy, Robert F. Random points in the cube and on the sphere with applications to numerical analysis. 91j:65009
- Tit, Edriss S. *see* Jolly, Michael S.; et al., 91f:35217
- Trefethen, Lloyd N. *see* Roddy, Satish C., 91j:65102
- Trubetskov, M. K. *see* Bykov, A. A.; et al., 91g:78002
- Trullinger, S. E. Collective-coordinate methods for soliton dynamics. (see 91j:58005)
- Tuckerman, Laurette S. *see* Barkley, Dwight; et al., 91f:35133
- Tveito, Aslak *see* Johansen, Thorodd; et al., 91b:76082
- Uhlmann, Gunther *see* Sylvester, John, 91d:35063
- Vasilievskii, V. F. (with Mazhukin, V. I.) Calculation of shock waves on grids with dynamic adaptation. (Russian) 91k:76124
- Vassilevski, P. S. *see* Ewing, Richard E.; et al., 91f:65191
- Vázquez, Luis *see* Rodríguez Plaza, M. J.; et al., 91d:35142 and Rodríguez, María J., 91f:35281
- Verdi, C. *see* Nochetto, Ricardo H.; et al., 91b:80019
- Vigak, V. M. (with Zhernovoi, Yu. V.) On the solution of a one-dimensional inverse Stefan problem. 91d:35249
- Volkov, V. T. (with Kryuchkov, S. V.; Obukhov, I. A.; Rumyantsev, S. V.) Numerical-asymptotic analysis of transient processes in semiconductors. 91c:82086
- Vollbrecht, Petra Anwendung der Jackknife-Methode bei der Parameterschätzung in der Wärmeleitungsgleichung. (English and Russian summaries) [Application of the jackknife

- procedure for parameter estimates in the heat equation] 91c:80012
- Wang, X. P. *see* Landman, Michael J.; et al., 91m:35216
- Weese, J. *see* Honerkamp, J., 91a:65011
- Weiss, N. O. *see* Moore, D. R.; et al., 91g:76037
- Welfert, Bruno D. *see* Bank, Randolph E., 91g:76061
- Wendroff, Burton The stability of McCormack's method for the scalar advection equation. (Not in MR)
- Wheeler, Adam A. *see* Budd, Chris J.; et al., 91b:78004
- Wielgosz, C. (with Débordes, O.) Exact or quasi-exact numerical results for two-dimensional harmonic problems. 91h:73056
- Wilkins, J. M. *see* Moore, D. R.; et al., 91g:76037
- Williams, Margaret A. (with Wilson, D. G.) Iterative solution of a nonlinear system arising in phase-change problems. 91i:65100
- Wilson, D. G. *see* Williams, Margaret A., 91i:65100
- Winfree, W. P. *see* Banks, H. T.; et al., 91k:80003
- Winther, Ragnar *see* Johansen, Thorodd; et al., 91b:76082
- Wohlrab, Ortwin *see* Baldes, Alfred, 91k:65170
- Xiao, Yi A projection matrix method for finding solutions to soliton equations. (Chinese. English summary) 91j:35234
- Xie, Shishen *see* Martin, Clyde Franklin, 91h:92015
- Yan, Chun Tao High accurate scheme for Boussinesq equation. 91d:76061
- Yang, Yisong Computation, dimensionality, and zero-dissipation limit of the Ginzburg-Landau wave equation. 91h:35305
- Yin, Hong Ming *see* Cannon, John R., 91g:65205
- Ying, Long An On the viscosity splitting method for initial-boundary value problems of the Navier-Stokes equations. 91c:35123
- Yudin, I. P. *see* Airyan, E. A.; et al., 91c:78001
- Yuldashev, O. I. *see* Airyan, E. A.; et al., 91c:78001
- Zeitoun, D. G. *see* Bensabat, J., 91a:76075
- Zhang, Bo³ *see* Huang, Ai Xiang, 91c:82082
- Zharkov, A. Yu. *see* Gerdt, V. P.; et al., 91a:58002
- Zhernovoi, Yu. V. *see* Vigak, V. M., 91d:35249
- Zhidkov, E. P. *see* Airyan, E. A.; et al., 91c:78001
- Zhu, Qi Ding A probabilistic finite element method. (Chinese. English summary) 91c:65134

65Q05 Difference and functional equations, recurrence relations

- Agarwal, Ravi Prakash (with Nanda, Tara R.) Two new algorithms for discrete boundary value problems. 91f:65213
- Bezuska, Stanley (with Kokoska, Stephen) A polynomial formula for Fibonacci numbers. 91b:65145
- Bultheel, Adhemar *see* Levrie, Paul, 91a:65244
- Dekhtyarenko, V. M. (with Mironov, S. V.) Algorithms for algebraic operations over rational functions of a special type. (Russian) (see 91k:00023)
- Dinh Quang Thai (with Monastyrnyi, P. I.; Nguen Fyong Mai) Lowering the order of systems of difference equations in multiple difference shooting algorithms, and some of their properties. (Russian) 91d:65214
- Fedorov, S. I. *see* Lyashenko, N. N., 91m:65317
- Förg-Roh, Wolfgang Some results on the Pilgerschritt transform. (see 91h:58002)
- Galligani, Illo Solution of difference equations by a vector computer. (Italian. English summary) 91a:65243
- Ilin, V. P. (with Kuznetsov, I. B.; Pinkina, N. A.) ★ Исследование устойчивости параллельных алгоритмов решения рекурсивных задач на примере метода прогонки. (Russian) [Investigation of the stability of parallel algorithms for the solution of recurrence problems on the example of the double sweep method] 91c:65153
- Kokoska, Stephen *see* Bezuska, Stanley, 91b:65145
- Kuznetsov, I. B. *see* Ilin, V. P.; et al., 91c:65153
- Levrie, Paul (with Bultheel, Adhemar) Convergence acceleration for the numerical solution of second-order linear recurrence relations. 91a:65244
- Lyashenko, N. N. (with Fedorov, S. I.) An algorithm for analyzing the structure of group signal sources. (Russian) 91m:65317
- Mironov, S. V. *see* Dekhtyarenko, V. M., (91k:00023)
- Monastyrnyi, P. I. *see* Dinh Quang Thai; et al., 91d:65214
- Morháč, Miroslav Fast error-free algorithm for the determination of kernels of the periodic Volterra representation. 91g:65290
- Nanda, Tara R. *see* Agarwal, Ravi Prakash, 91f:65213
- Nguen Fyong Mai *see* Dinh Quang Thai; et al., 91d:65214
- Pinkina, N. A. *see* Ilin, V. P.; et al., 91c:65153
- Wu, Qi Guang An asymptotic method for singular perturbation problems of difference equations. (Chinese. English summary) 91b:65203
- Wu, Zi Qian¹ (with Xuan, Qi Wo) The collocation solution of a class of functional equations with difference terms. (Chinese. English summary) 91b:65204
- Xuan, Qi Wo *see* Wu, Zi Qian¹, 91b:65204
- Items with secondary classifications in 65Q05
- Abarbanel, Henry D. I. *see* Bryant, Paul H.; et al., 91i:65214
- Akimova, E. N. ★ Об устойчивости распараллеливания немонотонной прогонки. (Russian) [On the stability of parallelization of nonmonotone double sweep] 91c:65050
- Asayama, Yasuhide *see* Ikebe, Yasuhiko; et al., 91f:65057
- Berlinet, Alain (with Van Cutsem, Bernard) Sequence transformations: a common domain to numerical analysis and statistics. (French summary) 91g:65016
- Bilham, Ofer (with Wenzel, Wolfgang) Unstable periodic orbits and the symbolic dynamics of the complex Hénon map. 91j:58101
- Blinder, P. M. Machine iteration of a linear function: local behaviour. 91m:58084
- Briggs, Keith A precise calculation of the Feigenbaum constants. 91j:11117
- Brown, Reggie *see* Bryant, Paul H.; et al., 91i:65214

- Bryant, Paul H. (with Brown, Reggie; Abarbanel, Henry D. I.) Lyapunov exponents from observed time series. **91h:65214**
- Buschman, R. G. Simple contiguous function relations for functions defined by Mellin-Barnes integrals. **91d:33022**
- Chen, Qi Keith (with Ott, Edward) Cross-sections of chaotic attractors. **91j:58104**
- Christiansen, Freddy (with Isola, Stefano; Paladin, G.; Rugb, Hans Henrik) Mixing rates and exterior forms in chaotic systems. **91j:58105**
- Davis, Peter C. see Uezu, Tatsuya, **91g:58194**
- Dobrovol'skaya, L. G. see Dobrovol'skii, I. G.; et al., (91k:65008)
- Dobrovol'skii, I. G. (with Dobrovol'skaya, L. G.; Medvedev, V. A.) Statistical estimation of the parameters of linear difference equations. (Russian) (see **91k:65008**)
- Dontchev, A. L. (with Farkhi, E. M.) An averaged modulus of continuity for multivalued maps and its applications to differential inclusions. **91g:65194**
- Farkhi, E. M. see Dontchev, A. L., **91g:65194**
- Fujishiro, Issei see Ikebe, Yasuhiko; et al., **91f:65057**
- Grebogi, Celso (with Hammel, Stephen M.; Yorke, James A.; Sauer, Tim) Shadowing of physical trajectories in chaotic dynamics: containment and refinement. **91e:58111**
- Hallis, Marc Fractions continues matricielles. (English summary) [Matrix continued fractions] **91h:65066**
- Hammel, Stephen M. see Grebogi, Celso; et al., **91e:58111**
- Hu, Gang see Zhan, Ping Bo, **91a:58129**
- Ikebe, Yasuhiko (with Fujishiro, Issei; Asayama, Yasuake) The divided difference table from a matrix viewpoint. **91f:65057**
- Isola, Stefano see Christiansen, Freddy; et al., **91j:58105**
- Jódar, Lucas (with Morera, J. L.) Singular perturbations for systems of difference equations. **91a:39002**
- Leonali, Mauro Parallel models of computation: an introductory survey. **91k:68043**
- Martínez Hernández, Miguel A. see Mederos, Otilio B., **91a:39007**
- Mederos, Otilio B. (with Martínez Hernández, Miguel A.) Approximate solution of the functional equation $A(x)\Phi(x) + B(x)\Phi(x + \delta) = G(x)$ in the space $L_2(\mathbb{R})$. (Spanish. English summary) **91a:39007**
- Medvedev, V. A. see Dobrovol'skii, I. G.; et al., (91k:65008)
- Morera, J. L. see Jódar, Lucas, **91a:39002**
- Murphy, K. A. Estimation of time- and state-dependent delays and other parameters in functional-differential equations. **91c:34108**
- Nakao, Mitsuhiro T. Numerical verification of the existence of functional equations. (Japanese) (Not in MR)
- Ott, Edward see Chen, Qi Keith, **91j:58104**
- Paladin, G. see Christiansen, Freddy; et al., **91j:58105**
- Rugb, Hans Henrik see Christiansen, Freddy; et al., **91j:58105**
- Sander, S. A. Algorithms for solving difference problems in rectangular domains. (Russian) **91e:65049**
- Sauer, Tim see Grebogi, Celso; et al., **91e:58111**
- Serdukova, S. I. Estimation of the "shadow" of additional boundary conditions for systems of difference equations with oblique characteristics of constant sign. **91h:65149**
- Shu, Huang Stability of nonlinear comparison equations for discrete large-scale systems. **91m:93067**
- Stuart, Andrew The global attractor under discretisation. **91g:58172**
- Suñez, Rodolfo Difference equations and a principle of double induction. **91d:65209**
- Suetin, P. K. Solution of discrete convolution equations in connection with some problems in radio engineering. **91d:39003**
- Uezu, Tatsuya (with Davis, Peter C.) Novel scaling in sine circle map. **91g:58194**
- Van Cutsem, Bernard see Berliet, Alain, **91g:65016**
- Wenzel, Wolfgang see Biham, Ofer, **91j:58101**
- Yorke, James A. see Grebogi, Celso; et al., **91e:58111**
- Zhan, Ping Bo (with Hu, Gang) The renormalization method for calculating the Feigenbaum function. (Chinese. English summary) **91a:58129**
- Prince, Jerry L. (with Willsky, Alan S.) A geometric projection-space reconstruction algorithm. **91h:65215**
- Rizzardi, M. see Giunta, G.; et al., (91e:00029)
- Ryabov, V. M. Accuracy of calculating the values and jumps of an original by the Widder method. **91g:65293**
- A formula for the inversion of the Laplace transform based on the Widder theorem. **91g:65294**
- Numerical inversion of the two-dimensional Laplace transform. **91m:65320**
- Salakhov, M. Kh. (with Shcherbakova, N. K.) A regularized algorithm for local emission reconstruction in spectroscopic tomography. **91g:65295**
- Shcherbakova, N. K. see Salakhov, M. Kh., **91g:65295**
- Shinkarik, N. I. Hybrid Legendre-Fourier integral transforms on a polar axis. (Russian) **91h:65147**
- Smith, Peter Jeffrey A new technique for calculating Fourier integrals based on the Poisson summation formula. **91a:65245**
- Strain, John see Greengard, Leslie, **91i:65205**
- Timonov, A. A. (with Pestryakov, A. V.) On a structure of parallel tomographic computer systems. **91a:65246**
- Willsky, Alan S. see Prince, Jerry L., **91h:65215**
- Yakubovich, S. B. A constructive method for constructing integral convolutions. (Russian. English summary) **91i:65206**
- Zhou, Chong Jing see Dong, Li Yu, **91h:65146**

Items with secondary classifications in 65R10

- Alekseenko, V. I. (with Zhidlev, E. B.) ★ О6 артефактах при алгебраическом подходе в томографии. (Russian) [Artifacts in an algebraic approach in tomography] (Not in MR)
- Bakushinskii, A. B. (with Goncharkii, A. V.; Levitan, S. Yu.) Application of regularization algorithms in x-ray computer tomography. **91c:92034**
- Bazarkhanov, D. B. Optimal reconstruction of an integral with a weight that has a singularity on some classes of functions with a nonsymmetric norm. (Russian) (Not in MR)
- Bracewell, R. N. Numerical transforms. **91g:65318**
- De Piero, Alvaro R. (with Iusem, Alfredo N.) On the asymptotic behavior of some alternate smoothing series expansion iterative methods. **91g:65079**
- Foster, Leslie V. The probability of large diagonal elements in the QR factorization. **91c:65060**
- Frontini, Marco (with Rodriguez, G.; Seatzu, S.) An algorithm for computing minimum norm solutions of finite moment problem. **91i:65031**
- Goncharkii, A. V. see Bakushinskii, A. B.; et al., **91c:92034**
- Iusem, Alfredo N. see De Piero, Alvaro R., **91g:65079**
- Khalifa, L. A. On an alternative to traditional computer tomography. (Russian) (Not in MR)
- Koltracht, Israel (with Lancaster, Peter; Smith, Digby) The structure of some matrices arising in tomography. **91j:65068**
- Kosarev, E. L. Shannon's superresolution limit for signal recovery. **91e:65087a**
- Corrigenda: "Shannon's superresolution limit for signal recovery". **91e:65087b**
- Krot, A. M. Numerical complexity of generalized K_N -convolutions and of an algorithm for the fast Vandermonde transform. (Russian) **91m:65348**
- Kumazawa, Itsuo (with Ogawa, Hidemitsu; Tajima, Hiroshi) Image reconstruction from erroneous projections—Radon transform as an analog coding. (Not in MR)
- Lancaster, Peter see Koltracht, Israel; et al., **91j:65068**
- Lenyuk, M. P. A class of hybrid integral transforms (Legendre-Bessel-Fourier). (Russian. English summary) **91m:44002**
- Levitan, S. Yu. see Bakushinskii, A. B.; et al., **91c:92034**
- Louis, Alfred K. (with Rieder, Andreas) Incomplete data problems in x-ray computerized tomography. II. Truncated projections and region-of-interest tomography. **91a:92004**
- Natterer, Frank ★ Математические аспекты компьютерной томографии. (Russian) [The mathematics of computerized tomography] **91j:44002**
- Ogawa, Hidemitsu see Kumazawa, Itsuo; et al., (Not in MR)
- Palamodov, I. V. see Natterer, Frank, **91j:44002**
- (Palamodov, V. P.) see Natterer, Frank, **91j:44002**
- Quinto, Eric Todd Limited data tomography in nondestructive evaluation. **91k:44005**
- Rieder, Andreas see Louis, Alfred K., **91a:92004**
- Rodrigues, A. J. On I_{MN} and Dirac kernel approximants. **91a:65056**
- Rodriguez, G. see Frontini, Marco; et al., **91i:65031**
- (Sabatier, Pierre C.) see Basic methods of tomography and inverse problems, **91e:00003**
- Seatzu, S. see Frontini, Marco; et al., **91i:65031**
- Smith, Digby see Koltracht, Israel; et al., **91j:65068**
- Tajima, Hiroshi see Kumazawa, Itsuo; et al., (Not in MR)
- Tarasov, R. P. Calculation of functions in the algebra of triangular Toeplitz matrices, and the numerical inversion of the Laplace transform. (Russian) **91m:65096**
- Valls, Michael The weighted redundancy transform. **91a:94007**
- Wang, Zhong De Fast W transform—algorithms and programs. **91f:65226**
- Yagle, Andrew E. Generalized split Levinson, Schur, and lattice algorithms for estimation and inverse scattering. **91d:65212**
- Zhidlev, E. B. see Alekseenko, V. I., (Not in MR)

Items listed otherwise than by author

- Basic methods of tomography and inverse problems ★ Basic methods of tomography and inverse problems. **91e:00003**
- Bréas-sans-Nappe ★ Basic methods of tomography and inverse problems. **91e:00003**
- School:
- Numerical Analysis ★ Basic methods of tomography and inverse problems. **91e:00003**

65R20 Integral equations

- Abdalkhani, J. A numerical approach to the solution of Abel integral equations of the second kind with nonsmooth solution. **91h:65216**
- A note on examples of Volterra integral equation with exact solution. (Not in MR)
- Abou El-Seoud, M. Samir see Ervin, V. J.; et al., **91j:65196**

65Rxx Integral equations, integral transforms [see also 45Lxx]

65R10 Integral transforms

- Allimey, Stefano Modified projection operators for CT-reconstruction from uncertain data. **91g:65291**
- Anikonov, D. S. (with Irkegulov, I. Sh.) A method for determining the integral characteristics of the attenuation coefficient of a transport equation. (Russian) **91h:65213**
- Cope, Davis K. Convergence of Piessens' method for numerical inversion of the Laplace transform on the real line. **91m:65318**
- Crisuolo, Giuliana (with Mastroianni, Giuseppe) Mean convergence of a product rule to evaluate the finite Hilbert transform. **91h:65214**
- Dong, Li Yu (with Zhou, Chong Jing) An advanced fast algorithm for discrete cosine transforms. (Chinese. English summary) **91h:65146**
- Feuillet, F. Numerical calculation of singular integrals related to Hankel transform. **91m:65319**
- Giunta, G. (with Laccetti, G.; Rizzardi, M.) On computing the abscissa of convergence of a Laplace transform function. (see **91e:00029**)
- Greengard, Leslie (with Strain, John) The fast Gauss transform. **91i:65205**
- Inglese, G. Approximate solutions for a finite moment problem. **91g:65292**
- Iri, Masao see Moriguti, Sigeti; et al., **91j:65191**
- Irkegulov, I. Sh. see Anikonov, D. S., **91h:65213**
- Kabaya-Imai, Keiko see Moriguti, Sigeti; et al., **91j:65191**
- Laccetti, G. see Giunta, G.; et al., (91e:00029)
- Mastroianni, Giuseppe see Crisuolo, Giuliana, **91h:65214**
- Moriguti, Sigeti (with Iri, Masao; Kabaya-Imai, Keiko) On asymptotic properties of the eigenfunctions of a linear operator. **91j:65191**
- Ohl, Wilson C. Error analysis of a Laplace transform inversion procedure. **91d:65215**
- Pestryakov, A. V. see Timonov, A. A., **91a:65246**

- Agekyan, G. V. An efficient algorithm for the solution of an integral equation with an almost difference kernel. (Russian. Armenian summary) (Not in MR) **Arabshahi, Abdollah** see Razzaghi, Mohsen; et al., 91m:65334
- Atkinson, Kendall E. (with Sloan, Ian H.) The numerical solution of first-kind logarithmic-kernel integral equations on smooth open arcs. **91j:65192**
- Baidakov, E. N. (with Kuvyrkin, G. N.) A variant of a numerical solution of an integro-differential heat equation. **91d:65216**
- Baker, Christopher T. H. (with Derakhshan, Mir S.) R-K formulae applied to Volterra equations with delay. **91b:65207**
- Bellen, A. (with Jackiewicz, Zdzisław; Vermiglio, R.; Zennaro, Marino) Stability analysis of Runge-Kutta methods for Volterra integral equations of the second kind. **91e:65154**
- (with Jackiewicz, Zdzisław; Vermiglio, R.; Zennaro, Marino) A stability analysis of the trapezoidal method for Volterra integral equations with completely positive kernels. **91j:65193**
- Belov, Yu. A. (with Murzin, V. S.) A problem of interpolating the Uryson operator on the basis of random input and output data. (Russian. English summary) **91m:65321**
- van den Berg, P. M. (with Kleinman, R. E.) Iterative solution of integral equations in scattering problems. (See 91k:73002)
- see also Kleinman, R. E.; et al., 91a:65250
- Bowman, Harold see Golberg, Michael A., 91j:65198
- Brandt, Achi (with Lubrecht, A. A.) Multilevel matrix multiplication and fast solution of integral equations. **91j:65194**
- Brunner, Hermann The numerical treatment of Volterra integro-differential equations with unbounded delay. **91g:65296**
- On the numerical solution of nonlinear Volterra-Fredholm integral equations by collocation methods. **91g:65297**
- Cannon, John R. (with Lin, Yanping) Nonclassical H^1 projection and Galerkin methods for nonlinear parabolic integro-differential equations. **91g:65298**
- Capobianco, Maria Rosaria A new proof for the convergence of the trigonometric method for the Abel integral equations of the first kind. **91b:65217**
- Chaikovskii, M. V. (with Yanovich, L. A.) Numerical determination of the covariance of the solution of randomly perturbed equations in aero-elasticity. (Russian. English summary) **91m:65322**
- Chandler, Graeme (with Sloan, Ian H.) Spline quolocation methods for boundary integral equations. **91m:65323**
- Chandler-Wilde, S. N. (with Gover, M. J. C.) On the application of a generalization of Toeplitz matrices to the numerical solution of integral equations with weakly singular convolution kernels. **91c:65083**
- Cheng, I. A. An algorithm for the numerical solution of an integral equation for the density of a simple layer potential. **91g:65299**
- Choi, U Jin (with MacCamy, Richard C.) Fractional order Volterra equations. **91g:65300**
- Crisak, M. R. (with Russo, E.; Vecchio, A.) Stability analysis of the de Hoog and Weiss implicit Runge-Kutta methods for the Volterra integral and integrodifferential equations. **91m:65324**
- Davies, A. R. (with Hassan, M. F.) Optimality in the regularization of ill-posed inverse problems. **91b:65218**
- De Piero, Alvaro R. On some nonlinear iterative relaxation methods in remote sensing. (Portuguese summary) **91e:65155**
- Derakhshan, Mir S. see Baker, Christopher T. H., 91j:65207
- Eggermont, P. P. B. (with Saranen, Jukka) L^p estimates of boundary integral equations for some nonlinear boundary value problems. **91m:65325**
- (with Lubich, Christian) Uniform error estimates of operational quadrature methods for nonlinear convolution equations on the half-line. **91j:65195**
- Eissa, E. P. The approximation of the n -dimensional singular integral. **91i:65208**
- El-Namory, A. R. M. Numerical solution of a general Cauchy problem. **91f:65214**
- Elschner, Johannes On spline approximation for convolution equations. **91b:65148**
- On spline collocation for convolution equations. **91b:65149**
- On spline approximation for a class of integral equations. II. Galerkin's method with smooth splines. **91g:65301**
- On spline approximation for a class of noncompact integral equations. **91m:65326**
- Ermiin, Yu. A. (with Sveshnikov, A. G.) An iterative method for the quasisolution of integral equations of the first kind in diffraction theory. (Russian. English summary) **91g:65302**
- Ervin, V. J. (with Stephan, E. P.; Abou El-Seoud, M. Samir) An improved boundary element method for the charge density of a thin electrified plate in R^3 . **91j:65196**
- (with Stephan, E. P.) A boundary element Galerkin method for a hypersingular integral equation on open surfaces. **91k:65157**
- Ertushenko, A. A. see Grilts'kii, D. V.; et al., 91g:65304
- Farzan, Ruzdín H. Numerical solution of a three-dimensional integral equation. (See 91k:65007)
- Fedotov, A. I. On the convergence of the quadrature-difference method for a class of singular integro-differential equations. **91e:65156**
- Convergence of quadrature-difference methods for linear singular integro-differential equations. **91g:65303**
- Fellenberg, Benno (with vom Scheidt, Jürgen) Numerische Lösung zufälliger Fredholm-scher Integralgleichungen. [Numerical solution of random Fredholm integral equations] **91a:65247**
- Fodchuk, O. V. A variational-gradient method for solving boundary value problems for integro-differential equations. (Russian. English summary) **91f:65215**
- Galiyayev, A. F. A modification of the method of mechanical quadratures for singular integral equations. (Russian) **91b:65219**
- Ganesh, M. (with Joshi, Mohan C.) Discrete numerical solvability of Hammerstein integral equations of mixed type. **91e:65157**
- (with Joshi, Mohan C.) Numerical solutions of nonlinear integral equations on the half line. **91j:65209**
- Garey, L. E. (with Gladwin, C. J.) Unconditional stable methods for second order Fredholm integro-differential equations. **91j:65197**
- Modified two-step methods for second order Fredholm integro-differential equations. **91k:65158**
- Gladwin, C. J. see Garey, L. E., 91j:65197
- Golberg, Michael A. Discrete projection methods for Cauchy singular integral equations with constant coefficients. **91a:65248**
- (with Bowman, Harold) The conditioning of some projection methods for Fredholm and singular integral equations. **91j:65198**
- Gover, M. J. C. see Chandler-Wilde, S. N., 91c:65083
- Graham, Ivan G. (with Mendes, Wendy R.) Nyström-product integration for Wiener-Hopf equations with applications to radiative transfer. **91c:65084**
- Graves-Morris, P. R. Solution of integral equations using generalised inverse, function-valued Padé approximants. I. **91m:65327**
- Grilts'kii, D. V. (with Evtushenko, A. A.; Prikarpat'skii, A. K.) On the convergence rate of the method of orthogonal polynomials for the solution of singular integral equations. (Russian. English summary) **91g:65304**
- Hassan, M. F. see Davies, A. R., 91b:65218
- Haunding, R. see Hofmann, Bernd; et al., 91b:65150
- Hofmann, Bernd On some classes of ill-posed integral equations. **91m:65328**
- (with Haunding, R.; Wolke, R.) Regularization of a Volterra integral equation by linear inequalities. (German summary) **91b:65150**
- Iqbal, Mohammad¹ Turchin-Klein regularization method using B-splines for ill-posed problems. **91g:65305**
- Isernhagen, Volker see Schott, Dieter, (Not in MR)
- Jackiewicz, Zdzisław see Bellen, A.; et al., 91e:65154 and 91j:65193
- Joshi, Mohan C. see Ganesh, M., 91e:65157 and 91b:65209
- Kaneko, Hideaki A projection method for solving Fredholm integral equations of the second kind. **91a:65249**
- (with Noren, Richard) An application of approximation theory to the numerical solution of a Fredholm equation with a mild singularity. **91g:65306**
- (with Xu, Yueheng) Degenerate kernel method for Hammerstein equations. **91f:65216**
- Karadzhan, S. G. An efficient algorithm for the inversion of an integral operator with a sum-difference harmonic kernel. **91b:65151**
- Katti, C. P. see Nelson, Paul, Jr.; et al., 91b:65154
- Kelley, C. T. Errata: "A fast two-grid method for matrix H -equations" [Transport Theory Statist. Phys. 18 (1989), no. 2, 185–203; MR 90h:65218]. **91b:65152**
- Khromova, G. V. Error estimates for approximate solutions of integral equations of the first kind. (Russian) **91g:65307**
- Kirsanova, N. N. On regularization by the method of conjugate gradients. (Russian) (See 91k:65009)
- Kleinman, R. E. (with Roach, G. F.; Schuetz, L. S.; Shirron, J.; van den Berg, P. M.) An over-relaxation method for the iterative solution of integral equations in scattering problems. **91a:65250**
- see also van den Berg, P. M., (91k:73002)
- Kostova, T. V. (with Marcheva, M.) Numerical solutions to the Gurtin-MacCamy equation. **91e:65158**
- Kress, Rainer A Nyström method for boundary integral equations in domains with corners. **91m:65329**
- Krotova, E. N. (with Yatsenko, Yu. P.) A projection-iteration method for solving systems of nonlinear Volterra integral equations of the second kind. **91m:65330**
- Krupnik, I. N. see Zolotarevskii, V. A., 91b:65223
- Kumar, Sunil The numerical solution of Hammerstein equations by a method based on polynomial collocation. **91e:65159**
- Kurbanbayev, O. O. The collocation method for an integro-differential equation of Volterra type. (Ukrainian. Russian summary) **91g:65308**
- Kuvyrkin, G. N. see Baidakov, E. N., 91d:65216
- Lepora, P. see Monegato, Giovanni, 91e:65162
- Lepp, Riho Discrete approximation of integral equations in the space of essentially bounded functions. (Russian and Estonian summaries) **91m:65331**
- Lifanor, I. K. (with Tyrtshnikov, E. E.) Toeplitz matrices and singular integral equations. (Russian. English summary) **91m:65332**
- Lin, Qun (with Sloan, Ian H.; Xie, Rui Feng) Extrapolation of the iterated-collocation method for integral equations of the second kind. **91j:65199**
- Lin, Yanping see Cannon, John R., 91g:65298
- Linz, Peter Accurate error bounds for integral equations. **91b:65220**
- Bounds and estimates for condition numbers of integral equations. **91k:65159**
- López Marcos, J. C. A "box" method for a nonlinear integro-differential equation. (Spanish) (See 91j:00015)
- A difference scheme for a nonlinear partial integrodifferential equation. **91e:65160**
- Lubich, Christian see Eggermont, P. P. B., 91j:65195
- Lubrecht, A. A. see Brandt, Achi, 91j:65194
- Luchka, A. Yu. The spline-iterative method for linear Volterra integral equations of the second kind. (Russian) **91b:65153**
- Lyashenko, T. V. An explicit method for solving integral equations with a switching operation. (Russian) **91m:65333**
- MacCamy, Richard C. see Choi, U Jin, 91g:65300
- Mahmoud, Fatma A. M. General product integration method for solving Radon integral equation. (Arabic summary) **91g:65309**
- Maleknejad, K. Numerical experimentation with time-series methods for convolution integral equation. **91k:65160**
- Marcheva, M. see Kostova, T. V., 91e:65158
- Mchedlishvili, N. I. Some algorithms for the approximate solution of Wiener-Hopf equations. (Russian. English and Georgian summaries) **91j:65200**
- McLean, William (with Wendland, Wolfgang L.) Trigonometric approximation of solutions of periodic pseudodifferential equations. **91f:65217**
- (with Prössdorf, Siegfried; Wendland, Wolfgang L.) Pointwise error estimates for the trigonometric collocation method applied to singular integral equations and periodic pseudodifferential equations. **91f:65218**
- Methin, N. G. (with Sambandham, M.; Zoltani, C. K.) Numerical solution of a system of random Volterra integral equations. II. Newton's method. **91d:65217**
- Mendes, Wendy R. see Graham, Ivan G., 91c:65084
- Micke, A. Die Auflösung schwach singularer Fredholm-scher Integralgleichungen mit angepaßten Quadraturen. (English and Russian summaries) [The solution of weakly singular Fredholm integral equations with adapted quadrature formulas] **91e:65161**

- Min, Xiao-Yi. *see* Zhang, Hong. 91m:65336
- Mok, Ya. I. Special integral equations of potential theory. 91g:65310
- Monegato, Giovanni (with Prösdorf, Siegfried) On the numerical treatment of an integral equation arising from a cruciform crack problem. 91b:65210
- (with Lepora, P.) On the numerical resolution of the generalized airfoil equation with Possie kernel. 91e:65162
- Murzin, V. S. *see* Belov, Yu. A., 91m:65321
- Mydlarczyk, W. Galerkin methods for nonlinear Volterra type equations. 91k:65161
- Nelson, Paul, Jr. (with Katti, C. P.; Neta, Beny) Convergence of inner/outer source iterations with finite termination of the inner iterations. 91b:65154
- Nersisyan, A. B. New algorithms for the numerical solution of integral equations of the second kind. (Russian. Armenian summary) (Not in MR)
- Neta, Beny *see* Nelson, Paul, Jr.; et al., 91b:65154
- Noren, Richard *see* Kaneko, Hideaki. 91g:65306
- Opama, W. Boundary element solution on the transonic integral equation. 91g:65311
- Ölafsson, G. O. Quadrature solution of integral equations: a uniform treatment of Fredholm and Volterra equations. (see 91e:65003)
- Quadrature solution of singular integral equations. I. A uniform treatment of Fredholm and Volterra equations. (Not in MR)
- Papukashvili, N. R. On the regularization of a method for solving integral equations of the first kind. (Russian. English and Georgian summaries) 91g:65312
- Pedas, Arvet *see* Valnikko, Gennadi. 91f:65221
- Prikarpatski, A. K. *see* Grilits'ki, D. V.; et al., 91g:65304
- Prösdorf, Siegfried Recent results in numerical analysis for singular integral equations. (see 91h:60032)
- (with Rathsfeld, A.) Quadrature and collocation methods for singular integral equations on curves with corners. (German and Russian summaries) 91a:65251
- *see also* McLean, William; et al., 91f:65218 and Monegato, Giovanni, 91b:65210
- Rathsfeld, A. *see* Prösdorf, Siegfried. 91a:65251
- Razzaghi, Mehdi *see* Razzaghi, Mohsen; et al., 91m:65334
- Razzaghi, Mohsen (with Razzaghi, Mehdi; Arabshahi, Abdollah) Solutions of convolution integral and Fredholm integral equations via double Fourier series. 91m:65334
- Reichel, Lothar Fast solution methods for Fredholm integral equations of the second kind. 91b:65211
- A matrix problem with application to rapid solution of integral equations. 91c:65085
- Rjasanov, Sergej The properties of the matrix arising from collocation method for boundary integral equations. 91a:65252
- Roech, G. F. *see* Kleinman, R. E.; et al., 91a:65250
- Russo, E. *see* Crisci, M. R.; et al., 91a:65324
- Sambandham, M. *see* Medhin, N. G.; et al., 91d:65217
- Samonenko, V. A. An approximation-iterative method for solving a system of two-dimensional nonlinear integral equations of Volterra type of the second kind. (Russian) 91g:65313
- Saranen, Jukka *see* Eggermont, P. P. B., 91m:65325
- von Scheidt, Jürgen *see* Feilenberg, Benno. 91a:65247
- Schott, Dieter (with Isenhardt, Volker) Zur Bestimmung der Projektionsmatrix bei der Bildrekonstruktion aus Projektionen. (English and Russian summaries) [On the determination of the projection matrix in the image reconstruction from projections] (Not in MR)
- Schuetz, L. S. *see* Kleinman, R. E.; et al., 91a:65250
- Sheshko, M. A. On the approximate solution of the Prandtl integro-differential equation. (Russian. English summary) 91d:65218
- Approximate solution of singular integral equations by means of residues. (Russian. English summary) 91g:65314
- Shirron, J. *see* Kleinman, R. E.; et al., 91a:65250
- Sidi, Avram Comparison of some numerical quadrature formulas for weakly singular periodic Fredholm integral equations. (German summary) 91c:65086
- Silbermann, Bernd Approximation of solutions of periodic pseudodifferential equations and optimal error estimates. 91e:65163
- Sloan, Ian H. *see* Atkinson, Kendall E., 91j:65192; Lin, Qun; et al., 91j:65199 and Chandler, Graeme, 91m:65323
- Slodička, Marína An investigation of convergence and error estimate of approximate solution for a quasilinear parabolic integrodifferential equation. (Russian and Slovak summaries) 91b:65155
- Smith, Paul Denis Stable numerical methods for integral equations governing the scattering of transients. 91b:65212
- Srivastav, R. P. (with Zhang, Feng Gang) Solving Cauchy singular integral equations by using general quadrature-collocation nodes. 91m:65335
- Stephan, E. P. *see* Ervin, V. J.; et al., 91j:65196 and 91k:65157
- Sveshnikov, A. G. *see* Ermiia, Yu. A., 91g:65302
- Szyzka, U. Splinnekollationsmethoden für singuläre Integralgleichungen auf geschlossenen Kurven in L^2 . [Spline collocation methods for singular integral equations, on closed curves, in L^2] 91b:65219
- Tivonchuk, V. I. The spline-iterative method for solving systems of nonlinear integral equations with constant limits. (Russian) 91h:65221
- Tschersich, Helmut Die Bestimmung des betragsgrößten Eigenwertes eines positiven Integraloperators durch sukzessive Iteration. (English and Russian summaries) [Calculation of the maximal (in modulus) eigenvalue of a positive integral operator by successive iteration] 91d:65219
- Tutmar, S. A. Solution of bisingular integral equations by the method of mechanical cubatures. (Russian) 91b:65222
- Tvaladze, Yu. G. Efficient methods for solving a problem for Volterra integral equations of the second kind. (Russian. English and Georgian summaries) 91f:65220
- Tyrtshnikov, E. E. *see* Lifanov, I. K., 91m:65332
- Uba, Peep A collocation method with cubic splines to the solution of a multidimensional weakly singular integral equation. (Russian summary) 91g:65315
- Valnikko, Gennadi (with Pedas, Arvet) A piecewise constant approximation to the solution of a weakly singular integral equation. (Russian. English summary) 91f:65221
- Vecchio, A. *see* Crisci, M. R.; et al., 91a:65324
- Vermiglio, R. *see* Belen, A.; et al., 91e:65154 and 91j:65193
- Wahba, Grace (with Wang, Yong Hua) When is the optimal regularization parameter insensitive to the choice of the loss function? 91j:65201
- Wang, Yong Hua *see* Wahba, Grace. 91j:65201
- Wendland, Wolfgang L. *see* McLean, William. 91f:65217 and 91f:65218
- Wolke, R. *see* Hofmann, Bernd; et al., 91b:65150
- Xiang, Chao Jin The cubic smoothing spline collocation method for solving integral equations of the first kind. (Chinese. English summary) 91b:65213
- Xie, Rui Feng *see* Lin, Qun; et al., 91j:65199
- Xu, Yuesheng *see* Kaneko, Hideaki. 91f:65216
- Yan, Yi Cosine change of variable for Symm's integral equation on open arcs. 91j:65202
- Yanovich, L. A. *see* Chaikovskii, M. V., 91m:65322
- Yatsenko, Yu. P. *see* Krotova, E. N., 91m:65330
- Ye, Kai Yuan (with Ye, Zhi Ming) A computer algorithm for the modified iteration method for nonlinear problems. (Chinese. English summary) 91g:65316
- Ye, Zhi Ming *see* Ye, Kai Yuan. 91g:65316
- Zabello, I. N. An approximate solution of a matrix singular integral equation in L_p^2 . (Russian. English summary) 91g:65317
- Zennaro, Marino *see* Belen, A.; et al., 91e:65154 and 91j:65193
- Zhang, Feng Gang *see* Srivastav, R. P., 91m:65335
- Zhang, Hong (with Min, Xiao-Yi) On the Galerkin method with vector basis functions. 91m:65336
- Zolotarevskii, V. A. (with Krupnik, I. N.) Solution of systems of singular integral equations by the mechanical quadrature method. (Russian) 91h:65223
- Zoltsan, C. K. *see* Medhin, N. G.; et al., 91d:65217
- Items with secondary classifications in 65R20
- Ageev, V. M. *see* Petrov, V. V., 91j:93109
- Amini, S. (with Sloan, Ian H.) Collocation methods for second kind integral equations with noncompact operators. 91c:45015
- Anikonov, D. S. (with Irkulov, I. Sh.) A method for determining the integral characteristics of the attenuation coefficient of a transport equation. (Russian) 91h:65213
- Anselone, P. M. (with Sloan, Ian H.) Spectral approximations for Wiener-Hopf operators. 91c:47044
- Argyros, Ioannis K. On quadratic equations. 91f:47094
- Artem'ev, S. S. ★ Численное решение интегро-дифференциальных уравнений с помощью ЦДВ. (Russian) [Numerical solution of integro-differential equations by means of stochastic differential equations] 91f:65014
- Atkinson, Kendall E. A survey of boundary integral equation methods for the numerical solution of Laplace's equation in three dimensions. 91j:65169
- (with Chandler, Graeme) Boundary integral equation methods for solving Laplace's equation with nonlinear boundary conditions: the smooth boundary case. 91d:65181
- Babuska, Ivo (with Guo, Ben Qi; Stephan, E. P.) On the exponential convergence of the h -p version for boundary element Galerkin methods on polygons. 91b:65174
- Berenstein, Carlos Alberto (with Taylor, B. Alan) Discrete approximation of deconvolution operators. 91d:42014
- Böck, Oldrich *see* Skála, Ladomir. (Not in MR)
- Boikov, I. V. (with Shchukina, V. E.) Approximate solution of an inverse problem of gravimetry by the Newton-Kantorovich method. (Russian) 91e:65144
- Bourlart, Maryse (with Nicaise, Serge; Paquet, Luc) An adapted Galerkin method for the resolution of Dirichlet and Neumann problems in a polygonal domain. 91d:65166
- (with Nicaise, Serge; Paquet, Luc) An adapted boundary element method for the Dirichlet problem in polygonal domains. 91m:65287
- Bruevich, A. N. Calculation of periodic solutions when a harmonic signal acts on a piecewise-linear system using an integral equation. 91a:34029
- Carasso, Alfred S. Impulse response acquisition as an inverse heat conduction problem. 91d:35225a
- Corrigendum: "Impulse response acquisition as an inverse heat conduction problem". 91d:35225b
- Chadams, John M. (with Yin, Hong Ming) An iteration procedure for a class of integrodifferential equations of parabolic type. 91b:45019
- Chaikovskii, M. V. *see* Denisenko, N. V.; et al., 91k:73082
- Chandler, Graeme *see* Atkinson, Kendall E., 91d:65181
- Chemeris, V. S. *see* Vasilenko, Ya. F., 91a:76027
- Cherevko, I. M. (with Yakimov, I. V.) A numerical method for solving boundary value problems for integro-differential equations with deviating argument. 91a:65190
- Costabel, Martin (with Stephan, E. P.) Integral equations for transmission problems in linear elasticity. 91g:73021
- Cui, Ming Gen (with Deng, Zhong Xing; Wu, Bo Ying) Analytic solutions to Fredholm integral equations of the second kind. (Chinese. English summary) 91a:45001
- Deng, Zhong Xing *see* Cui, Ming Gen; et al., 91a:45001
- Denisenko, N. V. (with Lozhchnik, F. D.; Chaikovskii, M. V.) An algorithm for the numerical solution of integro-differential equations in aerelasticity that takes into account singularities of the kernels of the integral operator. (Russian. English summary) 91k:73082
- DeSanto, John A. Approximation methods for scattering from rough surfaces. 91m:35180
- Doberner, H.-J. Computing narrow inclusions for the solution of integral equations. 91a:65131
- Dragos, Lazar On the integration of the equation of thin airfoils by quadrature formulae of Gauss type. (Not in MR)
- Elliott, David A comprehensive approach to the approximate solution of singular integral equations over the arc $(-1, 1)$. 91a:45017
- Fabiano, R. H. (with Ito, Kazufumi) Semigroup theory and numerical approximation for equations in linear viscoelasticity. 91b:45021
- Fang, Zhong Sheng (with Parashchikov, I.) Solutions of the full potential equation using exact integral method. 91b:76086
- Gabbasov, N. S. A new direct method for solving integral equations of the first kind. 91k:45001
- Gaifullina, L. P. An approximation method for solving a transport equation. (Russian) (see 91j:60017)
- Galazuk, V. A. (with Khapko, R. S.) Methods of Chebyshev-Laguerre integral transform-

- tion and integral equations in initial-boundary value problems for the telegraph equation. (Russian. English summary) **91j:35008**
- Galushko, M. A. The method of stochastic approximation for solving a Fredholm equation of the first kind with random data errors. (Russian) (see **91j:60001**)
- Gaponenko, Yu. L. ★ Некорректные задачи на слабых компактах. (Russian) [Ill-posed problems on weakly compact sets] **91f:65113**
- Gear, C. W. Differential algebraic equations, indices, and integral algebraic equations. **91m:65192**
- (Golberg, Michael A.) see Numerical solution of integral equations, **91e:65007**
- Gorenflo, Rudolf Abel integral equations: applications-motivated solution concepts. **91c:45016**
- Grebennikov, A. I. Algorithms for solving integral equations with a singularity in the kernel in the presence of errors in the kernel and the right-hand side. (Russian) (see **91k:65009**)
- Groetsch, C. W. Remarks on some iterative methods for an integral equation in Fourier optics. **91j:45002**
- Guo, Ben Qi see Babuška, Ivo; et al., **91f:65174**
- Hajda, Lechslaw Approximate solutions of a certain class of operator equations. **91e:55084**
- Huang, S.-C. see Shaw, Richard Paul, **91m:76107**
- Irkegölov, I. Sh. see Anikonov, D. S., **91h:65213**
- Ito, Kazufumi see Fabiano, R. H., **91b:45021**
- Jabłoński, Z. (with Mazowiecki, G.) Erratum: "Solution of the first interior Fourier problem using spline functions" [Mat. Stos. **25** (1985), 111–127; MR **87a:65163**]. (Polish) **91g:65210**
- Kalaid, A. F. Linear one-dimensional integro-differential equations and problems. (Russian) **91a:45018**
- Khapko, R. S. see Galazyuk, V. A., **91j:35008**
- Khoromskii, B. N. see Zhidkov, E. P.; et al., **91i:45001**
- King, J. Thomas On the construction of preconditioners by subspace decomposition. **91d:65065**
- Knyazikhin, Yu. V. Seidel iteration in transport theory. **91d:82039**
- Kuznetsov, Sergei Vladimirovich Normal quasisolutions of integral equations in elasticity theory. (Russian) **91a:45016**
- Ladopoulos, E. G. see Zisis, V. A., **91h:73011**
- Lin, Yanping Galerkin methods for nonlinear parabolic integrodifferential equations with nonlinear boundary conditions. **91e:65128**
- Lozhechnik, F. D. see Denisenko, N. V.; et al., **91k:73082**
- Lukshin, A. V. (with Yuforov, I. E.) Stochastic algorithms for solving a spatially homogeneous Boltzmann equation for a mixture of gases. (Russian) **91e:82056**
- Makarov, I. V. Interpolation method for solving the identification problem for a multidimensional functional system described by a Uryson operator. (Russian) **91k:93087**
- Mazowiecki, G. see Jabłoński, Z., **91g:65210**
- Mikhailov, G. A. ★ Минимаксные алгоритмы весовых методов Монте-Карло. (Russian) [Minimax algorithms for weighted Monte Carlo methods] **91e:65011**
- Minimax Monte Carlo methods for solving integral equations of the second kind. **91k:65020b**
- Minimax solutions of equations that determine the variances of weight estimates of the Monte Carlo method. **91k:65020a**
- Monegato, Giovanni Orthogonal polynomials and product integration for one-dimensional Fredholm integral equations with "nasty" kernels. (see **91h:00032**)
- Neubauer, Andreas Tikhonov regularisation for nonlinear ill-posed problems: optimal convergence rates and finite-dimensional approximation. **91k:65103**
- Nicaise, Serge see Bourlard, Maryse; et al., **91d:65166** and **91m:65287**
- Nikonov, E. G. see Zhidkov, E. P.; et al., **91i:45001**
- Nitsche, Joachim A. Finite-element methods for conformal mappings. **91b:30024**
- Pastashvili, V. A. (with Saginashvili, A. I.) Approximate solution of a class of Noetherian equations. (Russian. English summary) **91a:45019**
- Paquet, Luc see Bourlard, Maryse; et al., **91d:65166** and **91m:65287**
- Paraschivola, I. see Fang, Zhong Sheng, **91h:76086**
- Pervezov, S. V. An estimate for the complexity of an approximate solution of Fredholm equations of the second kind with differentiable kernels. **91a:45002**
- Petrov, V. V. (with Ageev, V. M.) On the choice of regularizing functionals, and optimal time discretization. **91j:93109**
- Plato, Robert (with Vainikko, Gennadi) On the regularization of projection methods for solving ill-posed problems. **91h:65097**
- Puzanov, Yu. E. see Zelentsov, V. B., **91e:73104**
- Riley, Bruce V. A sinc-collocation method for weakly singular Volterra integral equations. **91j:45019**
- Rogozinski, S. V. ★ Решение краевых задач для уравнения Больцмана методом Монте-Карло. (Russian) [Solution of boundary value problems for the Boltzmann equation by the Monte Carlo method] **91m:65013**
- Romate, J. E. Local error analysis of three-dimensional panel methods in terms of curvilinear surface coordinates. **91h:76084**
- Ruotsalainen, K. (with Saranen, Jukka) On the collocation method for a nonlinear boundary integral equation. **91d:65180**
- Russo, Giovanni A particle method for collisional kinetic equations. I. Basic theory and one-dimensional results. **91g:65287**
- Saginashvili, A. I. see Pastashvili, V. A., **91a:45019**
- Saranen, Jukka Projection methods for a class of Hammerstein equations. **91j:65107**
- see also Ruotsalainen, K., **91d:65180**
- Serras, H. see Van Keer, R., (91e:00031)
- Shaw, Richard Paul (with Huang, S.-C.) The embedding integral equation method with application to acoustic problems. **91m:76107**
- Shchakina, V. E. see Bolkov, I. V., **91e:65144**
- Skála, Ladomir (with Bilek, Oldřich) A new efficient method of the solution of the Nakajima-Zwanzig generalized master equation. (Polish summary) (Not in MR)
- Sloan, Ian H. see Amini, S., **91c:45015** and Anselone, P. M., **91c:47044**
- Slodička, Marián Error estimate of approximate solution for a quasilinear parabolic integrodifferential equation in the L_p -space. (Russian and Slovak summaries) **91d:45010**
- Starkov, A. V. ★ Об оптимизации векторных алгоритмов метода Монте-Карло при решении треугольных систем интегральных уравнений для параметрических производных и возмущений. (Russian) [Optimization of vector algorithms of the Monte Carlo method in solving triangular systems of integral equations for parametric derivatives and perturbations] **91h:65010**
- Stephan, E. P. see Costabel, Martin, **91g:73021**; Babuška, Ivo; et al., **91f:65174** and Wendland, Wolfgang L., **91k:35063**
- Taylor, B. Alan see Berenstein, Carlos Alberto, **91d:42014**
- Tym, Witold Application de la méthode des éléments finis à un problème initial pour l'équation différentielle avec "mémoire". [Application of the finite-element method to an initial value problem for a differential equation with "memory"] **91d:65121**
- Vainikko, Gennadi Integral equations of an interior-exterior problem and their approximate solution. (Russian. English and Estonian summaries) **91k:35041**
- see also Plato, Robert, **91h:65097**
- Van Keer, R. (with Serras, H.) On a partial integro-differential equation related to the dynamical concept for industrial rubber materials. (see **91e:00031**)
- Vasilenko, Ya. F. (with Chemeris, V. S.) The Stokes problem and Muskhelishvili integral equations. (Russian) **91a:76027**
- Wegert, Elias An iterative method for solving nonlinear Riemann-Hilbert problems. **91j:30032**
- Wendland, Wolfgang L. (with Stephan, E. P.) A hypersingular boundary integral method for two-dimensional screen and crack problems. **91k:35063**
- Wu, Bo Ying see Cui, Ming Gen; et al., **91a:45001**
- Wu, Zi Qian see Xuan, Qi Wo, **91g:65259**
- Xuan, Qi Wo (with Wu, Zi Qian) A new boundary integral equation for the Poisson equation. (Chinese. English summary) **91g:65259**
- Yakimov, I. V. see Cherevko, I. M., **91a:65190**
- Yarov-Yarovoi, M. S. On graphs and numerical integration. (Russian) (see **91k:00016**)
- Yin, Hong Ming see Chadam, John M., **91a:45019**
- Yuforov, I. E. see Lukshin, A. V., **91e:82056**
- Zelentsov, V. B. (with Puzanov, Yu. E.) An efficient method for solving integral equations in problems of crack theory. (Russian) **91e:73104**
- Zheng, Xiao Jing (with Zhou, You He) On convergence of interpolated-iterative method of geometrically nonlinear equations of circular plates. **91h:73026**
- Zhidkov, E. P. (with Nikonov, E. G.; Khoromskii, B. N.) Solution of the eigenvalue problem for a class of hypersingular quasipotential integral equations. (Russian) **91i:45001**
- Zhou, You He see Zheng, Xiao Jing, **91h:73026**
- Zisis, V. A. (with Ladopoulos, E. G.) Singular integral approximations in Hilbert spaces for elastic stress analysis of a circular ring with curvilinear cracks. **91h:73011**

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Berryman, James G. Stable iterative reconstruction algorithm for nonlinear traveltime tomography. **91h:00018**

65S05 Graphical methods

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Mitra, Arunkumar Graphing implicit functions $f(x, y) = 0$. **91f:65032**

Yardley, Peter D. Graphical solution of the cubic equation developed from the work of Omar Khayyam. **91i:01013**

Items with secondary classifications in 65S05

Gu, Guoxiang see Wu, Neng Eva, (Not in MR)

Wu, Neng Eva (with Gu, Guoxiang) Discrete Fourier transform and H_∞ approximation. (Not in MR)

65Txx Numerical methods in Fourier analysis

Henrici, Peter Schnelle Algorithmen für periodische Funktionen. [Fast algorithms for periodic functions] **91f:65222**

65T10 Trigonometric approximation and interpolation

Adhami, Reza R. see Lawrence, Brooks; et al., **91m:65339**

Aravena, Jorge L. Recursive moving window DFT algorithm. **91h:65156**

Brass, Helmut Practical Fourier analysis—error bounds and complexity. (German and Russian summaries) **91m:65337**

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Kirschner, Ivan N. see Cohen, Stuart B., **91m:65338**

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Li, Xiao Ping A fast algorithm for the multidimensional discrete Hartley transform. **91a:65253**

Polge, Robert see Lawrence, Brooks; et al., **91m:65339**

Qi, Dong Xu (with Zhu, Hong) On the discrete fast transform of U -system. **91k:65162**

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Belov, M. A. Stable computation of Fourier series and integrals for discontinuous functions. (Russian) **91f:42003**

- Dong, Li Yu (with Zhou, Chong Jing) An advanced fast algorithm for discrete cosine transforms. (Chinese. English summary) **91b:65146**
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- Fuller, Roy J. Formal derivation of interconnection schema for parallel computation. **91a:68039**
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- Gu, Guoxiang see Wu, Neng Eva, (Not in MR)
- Narayanan, S. B. see Prabhu, K. M. M., **91a:94005**
- Prabhu, K. M. M. (with Narayanan, S. B.) Fixed-point error analysis of fast Hartley transform. (French and German summaries) **91a:94005**
- Vetterli, M. see Duhamel, Pierre Raymond, **91a:94004**
- Wu, Neng Eva (with Gu, Guoxiang) Discrete Fourier transform and H_∞ approximation. (Not in MR)
- Zhou, Chong Jing see Dong, Li Yu, **91b:65146**

65T20 Discrete and fast Fourier transforms

- An, Myoung (with Cooley, James W.; Tolimieri, Richard) Factorization method for crystallographic Fourier transforms. **91b:65223**
- Arre, Ilmar Algorithms for a short calculation of a discrete Fourier transform. (Russian. English and Estonian summaries) **91b:65203**
- Barone, Piero A discrete orthogonal transform based on spherical harmonics. **91m:65340**
- Bassenski, Günter Computing discrete sine transforms. (see **91j:41001**)
- Bracewell, R. N. Numerical transforms. **91g:65318**
- Briggs, William L. (with Henson, Van Emden) The FFT as a multigrid algorithm. **91b:65224**
- Calvetti, Daniela A stochastic roundoff error analysis for the fast Fourier transform. **91m:65341**
- Chan, S. C. (with Ho, K. L.) Direct methods for computing discrete sinusoidal transforms. (Not in MR)
- Cooley, James W. see An, Myoung; et al., **91b:65223**
- Demeure, Cédric J. Fast least squares estimation of amplitude and phase of damped cosines. (French and German summaries) **91b:65224**
- Henson, Van Emden Parallel compact symmetric FFTs. (see **91k:65014**)
- see also Briggs, William L., **91b:65224**
- Ho, K. L. see Chan, S. C., (Not in MR)
- Jetter, Kurt (with Koch, Peter) Methoden der Fourier-Transformation bei der kardinalen Interpolation periodischer Daten. [Methods of Fourier transformation in the cardinal interpolation of periodic data] **91d:65220**
- Johnson, Jeremy R. (with Johnson, Robert Warren; Rodriguez, D.; Tolimieri, Richard) A methodology for designing, modifying, and implementing Fourier transform algorithms on various architectures. **91j:65204**
- Johnson, Robert Warren see Johnson, Jeremy R.; et al., **91j:65204**
- Koch, Peter see Jetter, Kurt, **91d:65220**
- Lewis, V. A. On the parallelization of the discrete Fourier transform. (Russian. English summary) **91b:65225**
- Rodriguez, D. see Johnson, Jeremy R.; et al., **91j:65204**
- Siu, Wan-Chi (with Wong, Kar-Lik) Realization of discrete Fourier transforms using a nesting algorithm. **91k:65163**
- Steidl, Gabriele (with Tasche, Manfred) Index transforms for multidimensional discrete Fourier transforms. **91d:65221**
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- (with Tasche, Manfred) A polynomial approach to fast algorithms for discrete Fourier-cosine and Fourier-sine transforms. **91b:65225**
- Tasche, Manfred see Steidl, Gabriele, **91d:65221** and **91b:65225**
- Tolimieri, Richard see An, Myoung; et al., **91b:65223** and Johnson, Jeremy R.; et al., **91j:65204**
- Wang, Zhong De Fast W transform—algorithms and programs. **91b:65226**
- Wong, Kar-Lik see Siu, Wan-Chi, **91k:65163**
- Zhelezov, V. B. Analysis of hidden anharmonic periodicities. **91b:65227**

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- Alzenberg, L. A. (with Kravtsov, B. A.; Shaimkulov, B. A.) Estimation of stability for interpolation of signals with a finite Fourier spectrum, and a numerical experiment. **91c:65007**
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- Carmody, Kevin Modular parts of a function. **91c:42006**
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- Criscuolo, Giuliana (with Mastroianni, Giuseppe) Mean convergence of a product rule to evaluate the finite Hilbert transform. **91b:65214**
- Gabber, Eran see Averbuch, Amir; et al., (Not in MR)
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- Hasegawa, Takemitsu (with Torii, Tatsuo; Sugiura, Hiroshi) An algorithm based on the FFT for a generalized Chebyshev interpolation. **91c:65009**
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- Karpovsky, Mark G. see Roziner, Tatyana D.; et al., **91c:94007**
- Kondratenko, O. S. see Zadira, V. K.; et al., **91g:65101**
- Kravtsov, B. A. see Alzenberg, L. A.; et al., **91c:65007**
- Labunets, V. G. ★ Алгебраическая теория сигналов и систем. (Russian) [Algebraic theory of signals and systems] **91d:94002**
- Lü, Lei (with You, Zhao Yong) Parallel algorithm for FGFT and its application. (Chinese summary) **91c:65167**
- Mastroianni, Giuseppe see Criscuolo, Giuliana, **91b:65214**

- Mchedlishvili, N. I. Some algorithms for the approximate solution of Wiener-Hopf equations. (Russian. English and Georgian summaries) **91j:65200**
- Medan, Yoav see Averbuch, Amir; et al., (Not in MR)
- Meĭnikova, S. S. see Zadira, V. K.; et al., **91g:65101**
- Merchant, S. N. (with Rao, B. V.) COSHAR transform. **91b:94006**
- Natterer, Frank ★ Математические аспекты компьютерной томографии. (Russian) [The mathematics of computerized tomography] **91j:44002**
- (Palamodov, I. V.) see Natterer, Frank, **91j:44002**
- (Palamodov, V. P.) see Natterer, Frank, **91j:44002**
- Rao, B. V. see Merchant, S. N., **91b:94006**
- Roziner, Tatyana D. (with Karpovsky, Mark G.; Trachtenberg, Lazar A.) Fast Fourier transforms over finite groups by multiprocessor systems. **91c:94007**
- Shaimkulov, B. A. see Alzenberg, L. A.; et al., **91c:65007**
- Sugiura, Hiroshi see Hasegawa, Takemitsu; et al., **91c:65009**
- Swarztrauber, Paul N. see Tong, Charles, (Not in MR)
- Tong, Charles (with Swartztrauber, Paul N.) Ordered fast Fourier transforms on a massively parallel hypercube multiprocessor. (Not in MR)
- Torii, Tatsuo see Hasegawa, Takemitsu; et al., **91c:65009**
- Trachtenberg, Lazar A. see Roziner, Tatyana D.; et al., **91c:94007**
- Vesely, Vítězslav Fast cell-structured algorithm for digit reversal of arbitrary length. **91m:65001**
- You, Zhao Yong see Lü, Lei, **91c:65167**
- Zadira, V. K. (with Kondratenko, O. S.; Meĭnikova, S. S.) Analysis of the accuracy of algorithms for calculating some estimates for correlation functions using the fast Fourier transform. **91g:65101**

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- Gotusso, L. (with Pavan, Raffaella; Roux, Delfina) Numerical results from a regularization method for inversion of Fourier series. **91j:42001**
- Inglese, G. Approximate solutions for a finite moment problem. **91g:65292**
- Pavan, Raffaella see Gotusso, L.; et al., **91j:42001**
- Roux, Delfina see Gotusso, L.; et al., **91j:42001**

65U05 Numerical methods in probability and statistics

- Abarbanel, Henry D. I. see Bryant, Paul H.; et al., **91b:65214**
- Barlow, Jesse L. Error analysis of a pairwise summation algorithm to compute the sample variance. **91m:65342**
- Bouillon, T. L. see Meaux, Laurie M.; et al., **91j:65205**
- Brown, Reggie see Bryant, Paul H.; et al., **91b:65214**
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- Chang, Chien-I. (with Davisson, Lee D.) Two iterative algorithms for finding minimax solutions. **91b:65157**
- Davisson, Lee D. see Chang, Chien-I., **91b:65157**
- Diamond, Phil Fuzzy kriging. **91a:65254**
- Ditlevsen, O. (with Melchers, R. E.; Gluwer, H.) General multi-dimensional probability integration by directional simulation. **91g:65319**
- Dobrovol'skaya, L. G. see Dobrovol'skii, I. G.; et al., **(91k:65008)**
- Dobrovol'skii, I. G. (with Dobrovol'skaya, L. G.; Medvedev, V. A.) Statistical estimation of the parameters of linear difference equations. (Russian) (see **91k:65008**)
- Donoho, David L. (with Nussbaum, Michael) Minimax quadratic estimation of a quadratic functional. **91m:65343**
- Donke, Hideyuki A comparative study on the methods of numerical analysis for maximum likelihood estimation. (Not in MR)
- Everlich, E. L. A statistical method for designing a mixed algorithm that is optimal with respect to stability. (Russian) **91k:65165**
- Feng, Jian Feng Numerical solution of stochastic differential equations. **91b:65215**
- Gluwer, H. see Ditlevsen, O.; et al., **91g:65319**
- Gonin, René (with Money, Arthur H.) ★ Nonlinear L_p -norm estimation. **91d:65222**
- Hayashi, Isao (with Tanaka, Hideo) The fuzzy GMDH algorithm by possibility models and its application. **91b:65216**
- Kosarev, E. L. Shannon's superresolution limit for signal recovery. **91c:65087a**
- Corrigenda: "Shannon's superresolution limit for signal recovery". **91c:65087b**
- Lemaire-Missonne, Catherine Conditionnement de problèmes. Application aux statistiques. (English summary) [Problem conditioning. Application to statistics] **91m:65344**
- Maccione, C. Bessel functions with a nonconstant order as eigenfunctions of the time-rescaled Gaussian processes. **91g:65320**
- Meaux, Laurie M. (with Seaman, John W., Jr.; Bouillon, T. L.) Calculation of multivariate Chebyshev-type inequalities. **91j:65205**
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- Nuevo, María J. *see* Morales, Juan J.; et al., 91h:65226
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- Plaskota, L. On average case complexity of linear problems with noisy information. 91h:65217
- Plöschinger, E. Grenzwertaussagen für semistochastische Approximationsverfahren bei Verwendung von einigen deterministischen Schritten. [Limit value statements for semistochastic approximation methods when using some deterministic step sizes] 91h:65227
- Randall, J. H. (with Rayner, A. A.) The accuracy of least squares calculations with the Cholesky algorithm. 91a:65255
- Rayner, A. A. *see* Randall, J. H., 91a:65255
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- Seaman, John W., Jr. *see* Young, Dean Max; et al., 91e:65164 and Meaux, Laurie M.; et al., 91j:65205
- Sobol', I. M. Increasing the efficiency of statistical sampling with the aid of infinite-dimensional uniformly distributed sequences. (see 91j:60004)
- Srumsava, F. V. Calculation of the energy asymptotics for the solution of a system of stochastic evolution equations. 91g:65321
- Tanaka, Hideo *see* Hayashi, Isao, 91h:65216
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- Voitishek, A. V. Functional convergence of numerical stochastic models and estimates. (see 91m:65003)
- Wagner, Wolfgang¹ Controlled unbiased estimators for certain functional integrals. (see 91j:60004)
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Items with secondary classifications in 65U05

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- Barker, V. A. Numerical solution of sparse singular systems of equations arising from ergodic Markov chains. 91a:65112
- Berlinet, Alain (with Van Cutsem, Bernard) Sequence transformations: a common domain to numerical analysis and statistics. (French summary) 91g:65016
- Bowman, K. O. (with Shenton, L. R.) ★ Continued fractions in statistical applications. 91g:62018
- Cai, Yuan Long *see* Jiang, Hang Yi, 91g:65057
- Cao, Xi-Ren Estimates of performance sensitivity of a stochastic system. 91a:93058
- Casella, George *see* Piegorsch, Walter W. (Not in MR)
- Celimpis, Alvars A practical approach to nonlinear fuzzy regression. (Not in MR)
- Dai, Bo Xin Detection and assessment of collinearity. (Chinese) (Not in MR)
- De Pierro, Alvaro R. On some nonlinear iterative relaxation methods in remote sensing. (Portuguese summary) 91e:65155
- Derflinger, G. *see* Hörmann, W., 91f:65010
- Devroye, Luc Random variate generators for the Poisson-Poisson and related distributions. 91d:65013
- Do Le Minh Generating gamma variates. (Not in MR)
- Downs, Thomas *see* Williamson, Robert C., 91d:60047
- Ermakov, S. M. (with Melas, V. B.) Optimal branching of trajectories in simulation of systems described by stationary random processes. 91f:65013
- Fang, Kai Tai *see* Wang, Yuan¹, 91h:11077 and 91h:11078
- Fellenberg, Benno (with vom Scheidt, Jürgen) Numerische Lösung zufälliger Fredholm-scher Integralgleichungen. [Numerical solution of random Fredholm integral equations] 91e:65247
- Fishman, George S. Sensitivity analysis using the Monte Carlo acceptance-rejection method. 91f:65006
- Florchinger, Patrick (with Le Gland, François) Time-discretization of the Zakai equation for diffusion processes observed in correlated noise. 91f:65154
- Fox, Ronald F. Second-order algorithm for the numerical integration of colored-noise problems. 91m:65226
- Gen, Feng³ Probabilistic analysis of numerical integration algorithms. 91m:65061
- Ghanem, Roger G. (with Spanos, Pol-T. D.) ★ Stochastic finite elements: a spectral approach. 91k:73102
- Gritsa, T. M. *see* Pritula, N. N., (Not in MR)
- Grzesik, J. A. von Neumann's rejection technique reexamined. 91b:65006
- Hajjafar, A. Hankel system of moments and the Gauss-Galerkin method. 91h:60063
- Hall, Eric B. *see* Wessel, Alan E.; et al., 91h:65017
- Hashitsume, Natsuki *see* Shibata, Fumiaki; et al., 91h:65027
- Henderson, Harold V. (with Searle, Shaye R.) Generalized dispersion matrices for covariance structural analysis. 91f:62118
- Henkel, Charles S. (with Plemmons, Robert J.) Recursive least squares on a hypercube multiprocessor using the covariance factorization. 91f:65081
- Higham, Nicholas J. Computing error bounds for regression problems. 91m:65129
- Hinkley, D. V. (with Shi, Sheng G.) Importance sampling and the nested bootstrap. 91f:62061
- Hörmann, W. (with Derflinger, G.) The ACR method for generating normal random variables. (German summary) 91f:65010
- Jiang, Hang Yi (with Cai, Yuan Long) Laplacian of spline for edge detection. 91g:65057
- Johnstone, Iain M. (with Silverman, Bernard W.) Speed of estimation in positron emission tomography and related inverse problems. 91c:62038
- Kawasaki, Harumi *see* Shibata, Fumiaki; et al., 91h:65027
- Ladde, Gangaram S. (with Šiljak, Dragoslav D.) Convergence and stability of distributed stochastic iterative processes. 91d:93074
- Lakatos, László Maximization processes with discrete time that are controlled by a multidimensional random walk. (Russian) (see 91k:65006)
- Lee, Poh Ann *see* Sim, C. H., 91c:65006
- Le Gland, François *see* Florchinger, Patrick, 91f:65154
- Lehtinen, Markku S. (with Päivrinta, Lassi; Somersalo, Erkki) Linear inverse problems for generalised random variables. 91g:65129
- Lipsey, Zolt A stable method for fitting a C^∞ surface for randomly distributed data. 91a:65035
- Liu, Dan *see* Wang, Xiu Feng. (Not in MR)
- Lu, Yi Jun *see* Zhang, Ying², 91f:65230
- Ma, Fal (with Wei, Mein Sieng) Monte Carlo simulation of linear two-phase flow in heterogeneous media. (Not in MR)
- Maleknejad, K. Numerical experimentation with time-series methods for convolution integral equation. 91k:65160
- Marazzi, Alfio Computing robust covariances with collinear data. (see 91h:62004)
- Marti, Kurt (with Plöschinger, E.) Optimal step sizes in semistochastic approximation procedures. II. 91m:90125
- Medhin, N. G. (with Sambandham, M.; Zoltani, C. K.) Numerical solution of a system of random Volterra integral equations. II. Newton's method. 91d:65217
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- Menaldi, José-Luis Probabilistic view of estimates for finite difference methods. 91b:49043
- Mignolet, Marc P. (with Spanos, Pol-T. D.) A direct determination of ARMA algorithms for the simulation of stationary random processes. 91k:65023
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- Pritula, N. N. (with Gritsa, T. M.) Numerical solution of a stochastic differential equation with impulse action. (Ukrainian. Russian summary) (Not in MR)
- Sambandham, M. *see* Medhin, N. G.; et al., 91d:65217
- von Scheidt, Jürgen *see* Fellenberg, Benno, 91a:65247
- Searle, Shaye R. *see* Henderson, Harold V., 91f:62118
- Shenton, L. R. *see* Bowman, K. O., 91g:62018
- Shi, Sheng G. *see* Hinkley, D. V., 91f:62061
- Shibata, Fumiaki (with Watabe, Miki; Kawasaki, Harumi; Hashitsume, Natsuki) Numerical evaluation of path integrals. 91h:65027
- Šiljak, Dragoslav D. *see* Ladde, Gangaram S., 91d:93074
- Silverman, Bernard W. *see* Johnstone, Iain M., 91c:62038
- Sim, C. H. (with Lee, Poh Ann) Simulation of negative binomial processes. 91c:65006
- Somersalo, Erkki *see* Lehtinen, Markku S.; et al., 91g:65129
- Somersalo, György Applications of the notion of analytic center in approximation (estimation) problems. 91h:65075
- Spanos, Pol-T. D. *see* Mignolet, Marc P., 91k:65023 and Ghanem, Roger G., 91k:73102
- Stadler, Ernst ★ Sampling from Poisson, binomial and hypergeometric distributions: ratio of uniforms as a simple and fast alternative. 91b:65008
- Tortorella, Michael Closed Newton-Cotes quadrature rules for Stieltjes integrals and numerical convolution of life distributions. 91g:65049
- Van Cutsem, Bernard *see* Berlinet, Alain, 91g:65016
- Voitishek, A. V. (with Prigarin, S. M.) Moment conditions for functional convergence of a numerical randomized spectral model of homogeneous Gaussian fields. (Russian) (see 91g:65009)
- Wagner, Wolfgang¹ Unbiased Monte Carlo estimators for functionals of weak solutions of stochastic differential equations. 91a:60160
- Wahba, Grace ★ Spline models for observational data. 91g:62028
- Wang, Xiu Feng (with Liu, Dan) A recursive algorithm for GMDH. (Not in MR)
- Wang, Yuan¹ (with Fang, Kai Tai) Number-theoretic method in applied statistics. (Chinese summary) 91h:11077
- (with Fang, Kai Tai) Number-theoretic methods in applied statistics. II. 91h:11078
- Watabe, Miki *see* Shibata, Fumiaki; et al., 91h:65027
- Wei, Mein Sieng *see* Ma, Fal. (Not in MR)
- Wessel, Alan E. (with Hall, Eric B.; Wise, Gary L.) Importance sampling via simulacrum. 91f:65017
- Williamson, Robert C. (with Downs, Thomas) Probabilistic arithmetic. I. Numerical methods for calculating convolutions and dependency bounds. 91d:60047
- Wise, Gary L. *see* Wessel, Alan E.; et al., 91f:65017
- Yin, Gang George (with Zhu, Yun Min) On robustness of the Robbins-Monro method for parallel processing. 91a:65257
- Zhang, Ying² (with Lu, Yi Jun) Parallel processing of factor analysis. (Chinese. English summary) 91f:65230
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65V05 Automated algorithms (1985)[see also 68Q20]

Items with secondary classifications in 65V05

- Aluffi-Pentini, Filippo (with Parisi, Valerio; Zirilli, Francesco) A parallel global optimization algorithm inspired by quantum physics. (Not in MR)
- Parisi, Valerio *see* Aluffi-Pentini, Filippo; et al., (Not in MR)
- Zirilli, Francesco *see* Aluffi-Pentini, Filippo; et al., (Not in MR)

65W05 Parallel computation (1985)

- Brugnera, J. D. *see* Rivera, F. F.; et al., (Not in MR)
- Doallo, R. *see* Rivera, F. F.; et al., (Not in MR)
- Krechel, Arno (with Plum, Hans-Joachim; Stüben, Klaus) Parallelization and vectorization aspects of the solution of tridiagonal linear systems. (Not in MR)
- Peskin, R. *see* Rivera, F. F.; et al., (Not in MR)
- Piessens, Robert *see* Vandewalle, Stefan, (91c:65008)
- Plum, Hans-Joachim *see* Krechel, Arno; et al., (Not in MR)
- Rivera, F. F. (with Doallo, R.; Brugnera, J. D.; Zapata, E. L.; Peskin, R.) Gaussian elimination with pivoting on hypercubes. (Not in MR)

- Stiben, Klaus. *see* Krechel, Arno; et al., (Not in MR)
- Vandewalle, Stefan. *(with* Plessens, Robert) A comparison of the Crank-Nicolson and waveform relaxation multigrid methods on the Intel hypercube. (see 91f:65008)
- Zapata, E. L. *see* Rivera, F. F.; et al., (Not in MR)
- Items with secondary classifications in 65W05
- Authié, G. *see* Benjelloun, S.; et al., (91k:00050)
- Benjelloun, S. *(with* Spiteri, Pierre; Authié, G.) Parallel algorithms for solving the obstacle problem. (see 91b:00050)
- Bramble, James H. *(with* Pasciak, Joseph E.; Xu, Jinchao) Parallel multilevel preconditioners. (see 91e:65010)
- Chan, Tony F. *(with* Tuminaro, Ray S.) Analysis of a parallel multigrid algorithm. (see 91e:65008)
- Friedrich, Volkmar. *(with* Siedow, Norbert) Locally one-dimensional schemes for parabolic initial-boundary problems—a critical view. (see 91f:65004)
- Johnsson, S. Lennart. *see* Olsson, Pelle, (Not in MR)
- Krishnamurthy, E. V. *(with* Kunde, M.; Schimmler, Manfred; Schröder, Heiko) Systolic algorithm for tensor products of matrices: implementation and applications. (Not in MR)
- Kunde, M. *see* Krishnamurthy, E. V.; et al., (Not in MR)
- Natarajan, Ramesh. A parallel algorithm for the generalized symmetric eigenvalue problem on a hybrid multiprocessor. (Not in MR)
- Olsson, Pelle. *(with* Johnsson, S. Lennart) A dataparallel implementation of an explicit method for the three-dimensional compressible Navier-Stokes equations. (Not in MR)
- Pasciak, Joseph E. *see* Bramble, James H.; et al., (91e:65010)
- Schimmler, Manfred. *see* Krishnamurthy, E. V.; et al., (Not in MR)
- Schröder, Heiko. *see* Krishnamurthy, E. V.; et al., (Not in MR)
- Scroggs, Jeffrey S. A parallel algorithm for nonlinear convection-diffusion equations. (see 91e:65010)
- Siedow, Norbert. *see* Friedrich, Volkmar, (91f:65004)
- Spiteri, Pierre. *see* Benjelloun, S.; et al., (91b:00050)
- Tuminaro, Ray S. *see* Chan, Tony F., (91e:65008)
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65Yxx Computer aspects of numerical algorithms

- Schumacher, Günter. Auswertung von Formeln und Nullstellenbestimmung auf Rechenanlagen. [Evaluation of formulas and determination of zeros on computers] (see 91k:00033)

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- Bertsekas, Dimitri P. *(with* Tsitsiklis, John N.) Some aspects of parallel and distributed iterative algorithms—a survey. 91m:65137
- (Maslov, V. P.) *see* Mathematical aspects of computer engineering, 91c:00022
- Tsitsiklis, John N. *see* Bertsekas, Dimitri P., 91m:65137
- (Volosov, K. A.) *see* Mathematical aspects of computer engineering, 91c:00022
- (Yankovskii, E. M.) *see* Mathematical aspects of computer engineering, 91c:00022

Items listed otherwise than by author

- Mathematical aspects of computer engineering ★ Mathematical aspects of computer engineering. 91c:00022

65Y05 Parallel computation

- Anslander, L. *see* Gorin, A. L.; et al., (Not in MR)
- Averbuch, Amir. *(with* Gabber, Eran; Gorditsky, Boaz; Medan, Yoav) A parallel FFT on an MIMD machine. (Not in MR)
- Baden, Scott B. Programming abstractions for dynamically partitioning and coordinating localized scientific calculations running on multiprocessors. 91b:65218
- Bhaya, A. *see* Kaszkurewicz, E.; et al., 91g:65324
- Bini, Dario. Matrix structures in parallel matrix computations. (Italian summary) 91g:65322
- Bramley, R. *(with* Chen, H.-C.; Meier, U.; Sameh, A. H.) On some parallel preconditioned CG schemes. (see 91k:65010)
- Brodets'kii, G. L. *(with* Zatiashvili, G. Z.; Meboniya, R. N.) Control of the computation process using external memory that admits information destruction. (Russian. English and Georgian summaries) (Not in MR)
- Brú, Rafael. *(with* Fuster Capilla, Robert) Parallel chaotic extrapolated Jacobi method. (Not in MR)
- Chen, H.-C. *see* Bramley, R.; et al., (91k:65010)
- Chiang, Yi-Ling F. *(with* Lai, Jih-Fu) Parallel multischeme computation with the switch of computation history. 91k:65166
- Chung, Kuo Liang. *(with* Lin, Feng Ch'ing; Yeh, Yeong Nan) A three-phase parallel algorithm for solving linear recurrences. (Not in MR)
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- Cosnard, Michel Yves. *(with* Fraigniaud, Pierre) Finding the roots of a polynomial on an MIMD multicomputer. (Not in MR)
- Crucianu, M. Systolic estimation of derivatives using Richardson-Romberg's extrapolation method for central-divided differences. (Romanian summary) 91m:65345
- Decker, Naomi H. A note on the parallel efficiency of the Frederickson-McBryan multigrid algorithm. 91j:65206
- Dubois, Michel. *see* Üresin, Aydin, 91f:65222
- Eissfeller, Horst. *(with* Müller, Silvia Melitta) A note on reducing communication costs in explicit time stepping methods on parallel computers. 91b:65219
- El Baz, Didier. *M*-functions and parallel asynchronous algorithms. 91e:65165
- Evans, David J. Parallel algorithm design. (see 91m:65006)
- Fraigniaud, Pierre. *see* Cosnard, Michel Yves, (Not in MR)
- Frederickson, Paul O. *(with* McBryan, Oliver A.) Normalized convergence rates for the PSMG method. 91j:65207
- Friedman, Morton B. *see* Luo, Jenn-Ching, (Not in MR)
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- Gallivan, K. A. *(with* Plemmons, Robert J.; Sameh, A. H.) Parallel algorithms for dense linear algebra computations [SIAM Rev. 32 (1990), no. 1, 54–135; MR 91d:65224]. (see 91h:65003)
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- Garbey, Marc. *(with* Levine, David) Massively parallel computation of conservation laws. (Not in MR)
- Garbovskii, V. V. *see* Panchuk, V. I., 91d:65225
- Gear, C. W. Parallel methods for ordinary differential equations. 91g:65323
- Geist, George A. *(with* Ng, Esmond) Task scheduling for parallel sparse Cholesky factorization. (Not in MR)
- Gertner, Izidor. *(with* Rofheart, Martin) A parallel algorithm for 2-D DFT computation with no interprocessor communication. 91k:65167
- Gorditsky, Boaz. *see* Averbuch, Amir; et al., (Not in MR)
- Gorin, A. L. *(with* Auslander, L.; Silberger, A.) Balanced computation of two-dimensional transforms on a tree machine. (Not in MR)
- Gould, Nicholas I. M. *see* Suff, I. S.; et al., (91k:65011)
- Grigg, Ken. *(with* Miguet, Serge; Robert, Yves) Symmetric matrix-vector product on a ring of processors. 91b:65220
- Haji, Ibrahim N. *(with* Skelboe, Stig) A multilevel parallel solver for block tridiagonal and banded linear systems. (Not in MR)
- Kaltofen, Erich. *(with* Krishnamoorthy, M. S.; Saunders, B. David) Mr. Smith goes to Las Vegas: randomized parallel computation of the Smith normal form of polynomial matrices. 91e:65166
- *(with* Krishnamoorthy, M. S.; Saunders, B. David) Parallel algorithms for matrix normal forms. 91f:65228
- Kaszkurewicz, E. *(with* Bhaya, A.; Šiljak, Dragoslav D.) On the convergence of parallel asynchronous block-iterative computations. 91g:65324
- Kim, Sung Won. Parallel algorithms for planar dominance counting. (Not in MR)
- Kincaid, David R. *(with* Oppe, Thomas C.) Recent vectorization and parallelization of ITPACKV. (see 91k:65010)
- Konig, Jean-Claude. *(with* Trystram, Denis) Ordonnancement du graphe à deux pas pour le calcul parallèle. (English summary) [Scheduling algorithms on the 2-step graph for parallel computations] 91f:65229
- Krishnamoorthy, M. S. *see* Kaltofen, Erich; et al., 91e:65166 and 91f:65228
- Lai, Jih-Fu. *see* Chiang, Yi-Ling F., 91k:65166
- Lamas, J. A. *see* Zapata, E. L.; et al., (Not in MR)
- Lescrenier, M. *see* Suff, I. S.; et al., (91k:65011)
- Levine, David. *see* Garbey, Marc, (Not in MR)
- Li, Lei. *(with* You, Zhao Yong) Parallel algorithm for FGFT and its application. (Chinese summary) 91e:65167
- Lin, Feng Ch'ing. *(with* Chung, Kuo Liang) A cost-optimal parallel tridiagonal system solver. (Not in MR)
- *see also* Chung, Kuo Liang; et al., (Not in MR)
- Lu, Yi Jun. *see* Zhang, Ying?, 91f:65230
- Luo, Jenn-Ching. *(with* Friedman, Morton B.) A parallel computational model for the finite element method on a memory-sharing multiprocessor computer. (Not in MR)
- McBryan, Oliver A. *see* Frederickson, Paul O., 91j:65207
- Meboniya, R. N. *see* Brodets'kii, G. L.; et al., (Not in MR)
- Medan, Yoav. *see* Averbuch, Amir; et al., (Not in MR)
- Meier, U. *see* Bramley, R.; et al., (91k:65010)
- Miguet, Serge. *see* Grigg, Ken; et al., 91b:65220
- Milovanović, Emina I. *see* Milovanović, Igor Ž.; et al., (Not in MR)
- Milovanović, Igor Ž. *(with* Milovanović, Emina I.; Stojčev, Mile K.) An optimal algorithm for Gaussian elimination of band matrices on an MIMD computer. (Not in MR)
- Miura, Kenichi. Vectorization and parallelization of transport Monte Carlo simulation codes. (see 91f:65006)
- Müller, Silvia Melitta. *see* Eissfeller, Horst, 91b:65219
- Ng, Esmond. *see* Geist, George A., (Not in MR)
- Oppe, Thomas C. *see* Kincaid, David R., (91k:65010)
- Panchuk, V. I. *(with* Garbovskii, V. V.) Matrix representation of continued fractions and its use in algorithms of parallel calculations. 91d:65225
- Peiz, Richard B. Pseudospectral methods on massively parallel computers. 91b:65221
- Plassman, Paul E. Sparse Jacobian estimation and factorization on a multiprocessor. 91m:65346
- Pinta, O. G. *see* Zapata, E. L.; et al., (Not in MR)
- Plemmons, Robert J. *see* Gallivan, K. A.; et al., 91d:65224 and (91h:65003)
- Reid, J. K. *see* Suff, I. S.; et al., (91k:65011)
- Rivera, F. F. *see* Zapata, E. L.; et al., (Not in MR)
- Robert, Yves. *see* Grigg, Ken; et al., 91b:65220
- Rofheart, Martin. *see* Gertner, Izidor, 91k:65167
- Sameh, A. H. *see* Gallivan, K. A.; et al., 91d:65224; (91h:65003) and Bramley, R.; et al., (91k:65010)
- Saunders, B. David. *see* Kaltofen, Erich; et al., 91e:65166 and 91f:65228
- Schenkel, Udo. Parallel computing and special applications. (see 91m:65006)
- Silberger, A. *see* Gorin, A. L.; et al., (Not in MR)
- Šiljak, Dragoslav D. *see* Kaszkurewicz, E.; et al., 91g:65324
- Skelboe, Stig. *see* Haji, Ibrahim N., (Not in MR)
- Stojčev, Mile K. *see* Milovanović, Igor Ž.; et al., (Not in MR)
- Suff, I. S. *(with* Gould, Nicholas I. M.; Lescrenier, M.; Reid, J. K.) The multifrontal method in a parallel environment. (see 91k:65011)
- Swartztrauber, Paul N. *see* Tong, Charles, (Not in MR)
- Tong, Charles. *(with* Swartztrauber, Paul N.) Ordered fast Fourier transforms on a massively parallel hypercube multiprocessor. (Not in MR)
- Trystram, Denis. *see* König, Jean-Claude, 91f:65229
- Üresin, Aydin. *(with* Dubois, Michel) Parallel asynchronous algorithms for discrete data. 91b:65222
- Viegas de Vasconcelos, A. Parallelization of sparse matrix algorithms on multiprocessors. (Russian summary) 91k:65168
- Womble, David E. A time-stepping algorithm for parallel computers. 91g:65325

- Wood, A. S. Partial differential equations, matrices and parallel algorithms. 91a:65256
- Worley, Patrick H. The effect of time constraints on scaled speedup. 91g:65326
- Yeh, Yeong Nan. *see* Chung, Kuo Liang; et al. (Not in MR)
- Yin, Gang George (with Zhu, Yun Min) On robustness of the Robbins-Monro method for parallel processing. 91a:65257
- Yun, Zhao Yong. *see* Li, Lei. 91a:65167
- Zapata, E. L. (with Lamas, J. A.; Rivera, F. F.; Plata, O. G.) Modified Gram-Schmidt QR factorization on hypercube SIMD computers. (Not in MR)
- Zatiashvili, G. Z. *see* Brodets'kii, G. L.; et al. (Not in MR)
- Zhang, Ying* (with Lu, Yi Jun) Parallel processing of factor analysis. (Chinese. English summary) 91f:65230
- Zhu, Yun Min. *see* Yin, Gang George. 91a:65257
- Items with secondary classifications in 65Y05
- Akimova, E. N. ★ Об эффективности крупноблочного распараллеливания метода разделения переменных. (Russian) [Efficiency of large-block parallelization of the method of separation of variables] 91f:65195
- Anderson, Stuart L. Random number generators on vector supercomputers and other advanced architectures. 91g:65015
- Ashcraft, Cleve (with Eisenstat, Stanley C.; Liu, Joseph W. H.) A fan-in algorithm for distributed sparse numerical factorization. 91a:65111
- Atogi, O. Michael. *see* Leach, Ronald J.; et al. 91a:65259
- Axelsson, Owe (with Carey, Graham F.; Lindskog, G.) On a class of preconditioned iterative methods on parallel computers. 91d:65162
- Back, R. J. R. (with Sere, K.) Stepwise refinement of parallel algorithms. 91e:68066
- Bex, A. A. *see* Fargues, Monique P. 91m:65103
- Bellen, A. (with Vermiglio, R.; Zennaro, Marino) Parallel ODE-solvers with stepsize control. 91f:65119
- Bertocchi, Maria. Parallel optimization. (Russian and Polish summaries) 91m:90150
- A parallel algorithm for global optimization. 91f:65120
- Bevilacqua, Roberto (with Romani, Francesco; Lotti, Grazia) Parallel inversion of band matrices. (Russian summary) 91f:65057
- Bischof, Christian H. A parallel QR factorization algorithm with controlled local pivoting. 91f:65055
- Björstad, Petter E. (with Mandel, Jan) On the spectra of sums of orthogonal projections with applications to parallel computing. 91m:65157
- Block, U. (with Frommer, Andreas; Mayer, Günter) Block colouring schemes for the SOR method on local memory parallel computers. 91g:65063
- Boglaev, Yu. P. (with Karpenko, A. P.; Shumayeva, S. M.) Parametric coordination of some spline-interpolation algorithms with the architecture of multiprocessor computer systems. 91f:65019
- Brugnano, L. (with Marrone, M.) Vectorization of some block preconditioned conjugate gradient methods. 91g:65083
- Canuto, Claudio. Parallelism in spectral methods. (Italian summary) 91h:65183
- Carey, Graham F. *see* Axelsson, Owe; et al. 91d:65162
- Cheng, Jin Song. A parallel algorithm for finding roots of a complex polynomial. 91g:65108
- Chu, Eleanor (with George, Alan) Sparse orthogonal decomposition on a hypercube multiprocessor. 91f:65063
- (with George, Alan) QR factorization of a dense matrix on a hypercube multiprocessor. 91g:65059
- Codenotti, Bruno. Parallel solution of linear systems by repeated squaring. (Not in MR)
- (with Leoncini, Mauro) Preconditioning linear systems and parallelism. (Russian summary) 91h:65060
- Coleman, Thomas F. (with Li, Guang Ye) Solving systems of nonlinear equations on a message-passing multiprocessor. 91f:65096
- Cosnard, Michel Yves (with Daoudi, El Mostafa; Robert, Yves) Complexity of the parallel Givens factorization on shared memory architectures. 91h:65034
- Daoudi, El Mostafa. *see* Cosnard, Michel Yves; et al. 91h:65034
- Davis, Timothy A. (with Yew, Pen-Chung) A nondeterministic parallel algorithm for general unsymmetric sparse LU factorization. 91g:65009
- Deák, István. Uniform random number generators for parallel computers. (Not in MR)
- De Matteis, A. (with Pagnutti, S.) A class of parallel random number generators. 91a:65007
- Deng, Xiao Tie. An optimal parallel algorithm for linear programming in the plane. 91e:90060
- Deprettere, E. F. *see* Jainandunsing, K. 91d:65050
- (Dimov, Ivan T.) *see* Monte Carlo methods and parallel algorithms. 91m:65003
- Dixon, L. C. W. Parallel iterative methods for solving large sparse sets of linear equations. (see 91m:65006)
- Douglas, Craig C. (with Mandel, Jan) The domain reduction method: high way reduction in three dimensions and convergence with inexact solvers. 91f:65190
- (with Smith, Barry F.) Using symmetries and antisymmetries to analyze a parallel multigrid algorithm: the elliptic boundary value problem case. 91d:65187
- A variation of the Schwarz alternating method: the domain decomposition reduction method. 91g:65261
- Dunn, Stephen M. *see* Varman, Peter J.; et al. (Not in MR)
- Duri, Francesca. *see* Ruggiero, Valeria. 91a:65126
- Dvořák, Ivan (with Klaschka, Jan) Modification of the Grassberger-Procaccia algorithm for estimating the correlation exponent of chaotic systems with high embedding dimension. 91h:58143
- Eder, Ali. *see* Keyes, David E.; et al. 91g:65262
- Eddy, William F. Random number generators for parallel processors. 91f:65010
- Egecioglu, Ömer (with Gallopoulos, E.; Koc, Cetin K.) A parallel method for fast and practical high-order Newton interpolation. 91h:65018
- Eisenstat, Stanley C. *see* Ashcraft, Cleve; et al. 91a:65111
- (Evans, David J.) *see* Parallel computing. 91m:65006
- Fargues, Monique P. (with Bex, A. A.) Fast order-recursive generalized Hermitian Toeplitz eigenspace decomposition. 91m:65103
- Frommer, Andreas. Lokale Konvergenzaussagen bei nichtlinearen Mehrfachzerlegungen. [Statements of local convergence in nonlinear multisplittings] 91h:65060
- *see also* Block, U.; et al. 91g:65063
- Galligani, E. *see* Ruggiero, Valeria. 91f:65088
- Galligani, Illo. Solution of difference equations by a vector computer. (Italian. English summary) 91a:65243
- Gallopoulos, E. *see* Egecioglu, Ömer; et al. 91h:65018
- Gashkov, S. B. Parallel calculation of some classes of polynomials with an increasing number of variables. (Russian) (Not in MR)
- George, Alan (with Ng, Esmond) Parallel sparse Gaussian elimination with partial pivoting. 91c:65034
- *see also* Chu, Eleanor. 91g:65059 and 91h:65063
- Gilbert, John R. (with Hafsteinsson, Hjalmtýr) Parallel symbolic factorization of sparse linear systems. 91g:65091
- Greenbaum, Anne (with Reiter, Edna; Rodrigue, Garry) A parallel iterative method for solving 3-D elliptic partial differential equations. (see 91f:65006)
- Gropp, William D. *see* Keyes, David E.; et al. 91g:65262
- Gu, Qian Ping (with Takaoka, Tadao) A sharper analysis of a parallel algorithm for the all pairs shortest path problem. 91h:90210
- Haderle, Donald J. *see* Varman, Peter J.; et al. (Not in MR)
- Hafsteinsson, Hjalmtýr. *see* Gilbert, John R. 91g:65091
- Ho, Chin Wen (with Lee, R. C. T.) A parallel algorithm for solving sparse triangular systems. (Not in MR)
- Hrdina, Jiří. Parallelization of computation of derivatives in thin-film systems. 91h:78002
- Huang, C.-H. (with Johnson, Jeremy R.; Johnson, Robert Warren) A report on the performance of an implementation of Strassen's algorithm. (Not in MR)
- Iserles, Arieh (with Norsett, Syvert P.) On the theory of parallel Runge-Kutta methods. 91f:65127
- Iyer, Balakrishna R. *see* Varman, Peter J.; et al. (Not in MR)
- Jainandunsing, K. (with Deprettere, E. F.) A new class of parallel algorithms for solving systems of linear equations. 91d:65050
- Johnson, Jeremy R. *see* Huang, C.-H.; et al. (Not in MR)
- Johnson, Robert Warren. *see* Huang, C.-H.; et al. (Not in MR)
- Kacwicz, Bolesław Z. On sequential and parallel solution of initial value problems. 91j:65121
- Kang, Li Shan. *see* Shao, Jian Ping. 91m:65149
- Karpenko, A. P. *see* Boglaev, Yu. P.; et al. 91f:65019
- Keyes, David E. (with Gropp, William D.; Eder, Ali) Domain decomposition techniques for large sparse nonsymmetric systems arising from elliptic problems with first-order terms. 91g:65262
- Kionis, Panos D. *see* Roditis, Yannis S. 91a:65086
- Klaschka, Jan. *see* Dvořák, Ivan. 91h:58143
- Koc, Cetin K. *see* Egecioglu, Ömer; et al. 91h:65018
- Leach, Ronald J. (with Atogi, O. Michael; Stephen, Razeyah R.) The actual complexity of parallel evaluation of low degree polynomials. 91a:65259
- Lee, R. C. T. *see* Ho, Chin Wen. (Not in MR)
- Leoncini, Mauro. Parallel models of computation: an introductory survey. 91h:68043
- *see also* Codenotti, Bruno. 91h:65060
- Lews, V. A. On the parallelization of the discrete Fourier transform. (Russian. English summary) 91f:65225
- Li, Bao Xiu (with Shen, Yu) Asynchronous iterative parallel algorithms for unconstrained optimization. (Chinese. English summary) 91a:65158
- Li, Guang Ye. *see* Coleman, Thomas F. 91f:65096
- Li, Lei. *see* Yun, Zhao Yong. (Not in MR)
- Lin, Chao Chih. Parallel generation of permutations on systolic arrays. 91m:68069
- Lin, Qun. *see* Neittaanmäki, Pekka. 91f:65172
- Lindskog, G. *see* Axelsson, Owe; et al. 91d:65162
- Liu, Joseph W. H. Reordering sparse matrices for parallel elimination. 91a:65114
- *see also* Ashcraft, Cleve; et al. 91a:65111
- Lotti, Grazia. *see* Bevilacqua, Roberto; et al. 91f:65057
- Lylyakov, A. V. Mathematical model of pipeline computation organization. (Russian summary) 91k:65001
- Mandel, Jan. *see* Douglas, Craig C. 91f:65190 and Björstad, Petter E. 91m:65157
- Marrone, M. *see* Brugnano, L. 91g:65083
- Mayer, Günter. *see* Block, U.; et al. 91g:65063
- Meurant, Gérard A. Domain decomposition preconditioners for the conjugate gradient method. 91f:65193
- Domain decomposition methods for partial differential equations on parallel computers. (see 91k:65014)
- Milovanović, Emina I. (with Stojčev, Mile K.; Milovanović, Igor Ž.) Two-processor system for LU factorization of five-diagonal matrix. 91m:65120
- Milovanović, Igor Ž. *see* Milovanović, Emina I.; et al. 91m:65120
- Miranker, Willard L. (with Winkler, Andrew) Path integral numerical methods for evolution equations. 91g:65213
- Moonen, Marc (with Vandewalle, Joos) Recursive least squares with stabilized inverse factorization. (French and German summaries) 91f:65067
- Morandi, R. (with Scallari, F.) Parallel algorithms for the iterative solution of sparse least-squares problems. 91f:65075
- Neittaanmäki, Pekka (with Lin, Qun) Acceleration of the convergence in finite difference method by predictor-corrector and splitting extrapolation methods. 91f:65172
- Ng, Esmond. *see* George, Alan. 91c:65034
- Norsett, Syvert P. *see* Iserles, Arieh. 91f:65127
- Pagnutti, S. *see* De Matteis, A. 91a:65007
- Pan, Victor. Fast and efficient parallel inversion of Toeplitz and block Toeplitz matrices. 91d:65055
- Paolini, Gaia Valeria (with Radicati di Brozolo, Giuseppe) Data structures to vectorize CG algorithms for general sparsity patterns. 91e:65062
- Park, Haesun. Efficient diagonalization of oversized matrices on a distributed-memory multiprocessor. 91a:65125
- Peretti, A. (with Sutti, C.) Vector and parallel performances of minimization algorithms based on homogeneous models. (see 91m:65006)
- Pereyra, V. *see* Wright, Stephen Joseph. 91a:65208

- Phillips, A. T. (with Rosen, J. B.) A parallel algorithm for partially separable nonconvex global minimization: linear constraints. 91m:90161
- Plemmons, Robert J. (with White, R. E.) Substructuring methods for computing the nullspace of equilibrium matrices. 91e:65061
- Radicati di Brozolo, Giuseppe (see Paolini, Gaia Valeria, 91e:65062)
- Reiter, Edna (see Greenbaum, Anne; et al., 91f:65006)
- Robert, Yves (see Cosnard, Michel Yves; et al., 91h:65034)
- Roditis, Yanis S. (with Kiousis, Panos D.) Parallel multisplitting, block Jacobi type solutions of linear systems of equations. 91a:65086
- Rodriguez, Garry (see Greenbaum, Anne; et al., 91f:65006)
- Romani, Francesco (see Bevilacqua, Roberto; et al., 91f:65057)
- Rosen, J. B. (see Phillips, A. T., 91m:90161)
- Ruggiero, Valeria (with Duri, Francesca) Analysis of algorithms for solving tridiagonal systems on a vector computer. (Italian. English summary) 91a:65126
- (with Galligani, E.) An iterative method for large sparse linear systems on a vector computer. 91f:65088
- Saltz, Joel H. Aggregation methods for solving sparse triangular systems on multiprocessors. 91a:65117
- Schäfer, Michael Parallel algorithms for the numerical solution of incompressible finite elasticity problems. 91m:65278
- Schreiber, Robert S. (see Shroff, Gautam, 91e:65056)
- Scraggs, Jeffrey S. An iterative method for systems of nonlinear hyperbolic equations. 91k:65132
- (Sendov, Blagovest Kh.) (see Monte Carlo methods and parallel algorithms, 91m:65003)
- Sere, K. (see Back, R. J. R., 91e:68066)
- Sergeev, Ya. D. (with Strongin, R. G.) An algorithm for global minimization with parallel iterations. 91g:65153
- Sener, M. E. (with Siliak, Dragoslav D.) Nested epsilon decompositions of linear systems: weakly coupled and overlapping blocks. 91m:65121
- Sgallari, F. (see Morandi, R., 91f:65075)
- Shao, Jian Ping (with Kang, Li Shan) An asynchronous parallel mixed algorithm for solving algebraic systems of equations. (Chinese. English summary) 91m:65149
- Shen, Yu (see Li, Bao Xiu, 91a:65158)
- Shroff, Gautam (with Schreiber, Robert S.) On the convergence of the cyclic Jacobi method for parallel block orderings. 91e:65056
- Shumayeva, S. M. (see Baglaev, Yu. P.; et al., 91i:65019)
- Silbert-Roch, Françoise Solving linear Diophantine equations in parallel. 91d:11165
- Siliak, Dragoslav D. (see Sener, M. E., 91m:65121)
- Smith, Barry F. (see Douglas, Craig C., 91d:65187)
- Stephen, Razayah R. (see Leach, Ronald J.; et al., 91a:65259)
- Stojčev, Mile K. (see Milovanović, Emina I.; et al., 91m:65120)
- Strongin, R. G. (see Sergeev, Ya. D., 91g:65153)
- Sutti, C. (see Piretti, A., 91m:65006) and Parallel computing. 91m:65006
- Tadaoka, Tadao (see Gu, Qian Ping, 91k:90210)
- Vandewalle, Joes (see Moenen, Marc, 91i:65067)
- (Van Dooren, Paul) (see Parallel algorithms for numerical linear algebra, 91f:65005)
- Varman, Peter J. (with Iyer, Balakrishna R.; Haderle, Donald J.; Dunn, Stephen M.) Parallel merging: algorithm and implementation results. (Not in MR)
- Vermiglio, R. (see Bellen, A.; et al., 91i:65119)
- Voevodin, V. I. (with Yalymov, P. I.) * Новые методы исследования ошибок округления. (Russian) [A new method for studying rounding errors] 91h:65070
- (van der Vorst, Henk A.) (see Parallel algorithms for numerical linear algebra, 91f:65005)
- White, R. E. (see Plemmons, Robert J., 91e:65061)
- Winkler, Andrew (see Miranker, Willard L., 91g:65213)
- Wright, Stephen Joseph Solution of discrete-time optimal control problems on parallel computers. (Not in MR)
- (with Pereyra, V.) Adaptation of a two-point boundary value problem solver to a vector-multiprocessor environment. 91a:65208
- Yalymov, P. I. (see Voevodin, V. I., 91h:65070)
- Yew, Pen-Chung (see Davis, Timothy A., 91g:65089)
- Yin, Zhao Yang (with Li, Lei) A parallel algorithm for generalized U -decomposition. (Chinese. English summary) (Not in MR)
- Zennaro, Marino (see Bellen, A.; et al., 91i:65119)
- Zhang, Li Jun A stable parallel algorithm on an MIMD computer. (Chinese. English summary) 91a:65129
- Zhu, Fang Sheng A parallel algorithm for the Crouzeix method. (Chinese. English summary) (Not in MR)
- Items listed otherwise than by author
- Meeting:
- Parallel Computing * Parallel computing. 91m:65006
- Monte Carlo methods and parallel algorithms * Monte Carlo methods and parallel algorithms. 91m:65003
- Parallel algorithms for matrix computations * Parallel algorithms for matrix computations. 91h:65003
- Parallel algorithms for numerical linear algebra * Parallel algorithms for numerical linear algebra. 91f:65005
- Parallel computing * Parallel computing. 91m:65006
- Primorsko * Monte Carlo methods and parallel algorithms. 91m:65003
- Verona * Parallel computing. 91m:65006
- Workshop:
- Monte Carlo Methods and Parallel Algorithms * Monte Carlo methods and parallel algorithms. 91m:65003
- Fischer, Herbert Automatic differentiation: parallel computation of function, gradient, and Hessian matrix. 91h:65158
- Fujimoto, Richard M. (see Rajopadhye, Sanjay V., 91h:65223)
- Gaston, F. M. F. (see Megson, G. M., 91h:65228)
- Hansen, Eldon R. (with Patrick, Merrell L.; Wang, Richard L. C.) Polynomial evaluation with scaling. (Not in MR)
- Koç, Çetin K. (see Eggecioglu, Ömer; et al., (Not in MR))
- Kwak, Do Young (with Choi, U Jin; Son, S.) Prime number grid scheme to approximate function spaces with their low-dimensional subspaces. 91m:65347
- Megson, G. M. (with Gaston, F. M. F.) Improved matrix triangularisation using a double pipeline systolic array. 91h:65228
- Rank annihilation on a ring of processors. 91a:65258
- Olver, Frank W. J. Rounding errors in algebraic processes—in level-index arithmetic. (see 91k:65011)
- Pan, Ching-Tsuan A modification to the LINPACK downdating algorithm. (Not in MR)
- Patrick, Merrell L. (see Hansen, Eldon R.; et al., (Not in MR))
- Rajopadhye, Sanjay V. (with Fujimoto, Richard M.) Synthesizing systolic arrays from recurrence equations. 91f:65223
- Rifa, Josep (see Eggecioglu, Ömer; et al., (Not in MR))
- Risset, Tanguy Implementing Gaussian elimination on a matrix-matrix multiplication systolic array. (Not in MR)
- Saledovich, Moshe A machine executable generalized inner product and its applications. (Not in MR)
- Son, S. (see Kwak, Do Young; et al., 91m:65347)
- Wang, Richard L. C. (see Hansen, Eldon R.; et al., (Not in MR))
- Items with secondary classifications in 65Y10
- Brudaru, Octav A systolic network for numerical integration. (Romanian summary) 91g:65045
- Fil', B. N. (see Mitropol'skii, Yu. A.; et al., 91m:58077)
- Fusco, V. F. Concurrent processing: the key to rapid probabilistic potential methods. (Not in MR)
- Gader, Paul D. Displacement operator based decompositions of matrices using circulants or other group matrices. 91k:15034
- Johnson, Jeremy R. (with Johnson, Robert Warren; Rodriguez, D.; Tolimieri, Richard) A methodology for designing, modifying, and implementing Fourier transform algorithms on various architectures. 91f:65204
- Johnson, Robert Warren (see Johnson, Jeremy R.; et al., 91f:65204)
- Kang, In Seok (see Lee, Hyuk, 91f:65150)
- Lee, Hyuk (with Kang, In Seok) Neural algorithm for solving differential equations. 91f:65150
- Mitropol'skii, Yu. A. (with Prikarpat'skii, A. K.; Fil', B. N.) Some aspects of a gradient-holonomic algorithm in the theory of integrability of nonlinear dynamical systems, and problems in computer algebra. (Ukrainian. Russian summary) 91m:58077
- Prikarpat'skii, A. K. (see Mitropol'skii, Yu. A.; et al., 91m:58077)
- Rodriguez, D. (see Johnson, Jeremy R.; et al., 91f:65204)
- Snale, Stephen Some remarks on the foundations of numerical analysis. 91k:00007
- Tolimieri, Richard (see Johnson, Jeremy R.; et al., 91f:65204)
- Wichmann, B. A. Towards a formal specification of floating point. 91h:65055
- 65Y15 Packaged methods
- Globisch, Gerhard (with Langer, Ulrich¹) On the use of multigrid preconditioners in a multigrid software package. (see 91k:65012)
- Langer, Ulrich¹ (see Globisch, Gerhard, 91k:65012)
- 65Y20 Complexity and performance of numerical algorithms [see also 68Q25]
- Atogi, O. Michael (see Leach, Ronald J.; et al., 91a:65259)
- Benali, Abdelhamid (with Robert, Yves) Spacetime-minimal systolic arrays for Gaussian elimination and the algebraic path problem. (Not in MR)
- Dohner, H.-J. Contributions to computational analysis. 91f:65231
- Krot, A. M. Numerical complexity of generalized K_N -convolutions and of an algorithm for the fast Vandermonde transform. (Russian) 91m:65348
- Leach, Ronald J. (with Atogi, O. Michael; Stephen, Razayah R.) The actual complexity of parallel evaluation of low degree polynomials. 91a:65259
- Lu, Hao On computational complexity for the multiplication of generalized Hilbert matrices with vectors and solution of certain generalized Hilbert linear systems. 91k:65169
- Pan, Victor (with Reif, John Henry) On the bit-complexity of discrete solutions of PDEs: compact multigrid. (see 91e:68004)
- Reif, John Henry (see Pan, Victor, 91e:68004)
- Robert, Yves (see Benali, Abdelhamid, (Not in MR))
- Stephen, Razayah R. (see Leach, Ronald J.; et al., 91a:65259)
- Wojniakowski, H. Average case complexity of multivariate integration. 91h:65224
- Items with secondary classifications in 65Y20
- Bank, Randolph E. (with Welfert, Bruno D.) A posteriori error estimates for the Stokes equations: a comparison. 91g:76061
- Brandt, Achi (with Lubrecht, A. A.) Multilevel matrix multiplication and fast solution of integral equations. 91j:65194
- Canuto, Claudio (with Pietra, Paola) Boundary and interface conditions within a finite element preconditioner for spectral methods. 91m:65282
- Chen, Yung Ming (with Zhang, Feng Gang) Hierarchical multigrid strategy for efficiency improvement of the GPST inversion algorithm. 91m:65244
- Cody, W. J. Performance evaluation of programs related to the real gamma function. 91m:65052
- (with Stoltz, L.) The use of Taylor series to test accuracy of function programs. 91m:65053

65Y10 Algorithms for specific classes of architectures

- Choi, U Jin (see Kwak, Do Young; et al., 91m:65347)
- Conroy, John M. Parallel nested dissection. (Not in MR)
- Eggecioglu, Ömer (with Koç, Çetin K.; Rifa, Josep) Fast computation of continued fractions. (Not in MR)

- Dimov, Ivan T. (with Tonev, O.) Performance analysis of Monte Carlo algorithms for some models of computer architectures. (see 91m:65003)
- Egecioglu, Ömer (with Gallopoulos, E.; Koç, Çetin K.) Fast computation of divided differences and parallel Hermite interpolation. 91g:65018
- Encheva, Tatiana I. (with Levin, A. Yu.) Finding the zeros of exponential quasi-polynomials. 91m:65138
- Gallopoulos, E. see Egecioglu, Ömer; et al., 91g:65018
- Greengard, Leslie (with Strain, John) A fast algorithm for the evaluation of heat potentials. 91j:65178
- Guisewite, G. M. (with Pardalos, Panos M.) Minimum concave-cost network flow problems: applications, complexity, and algorithms. 91k:90211
- Guo, Cheng An Generation and statistical test of computer-simulated normal random numbers. (Chinese. English summary) 91k:65022
- Gurwitz, Chaya Weighted median algorithms for L_1 approximation. 91d:65030
- Huang, Jan Hsiung (with Kleinrock, Leonard) Distributed selectsort sorting algorithms on broadcast communication networks. 91m:68068
- Jiang, Chang Jun (with Yan, Chun Gang) A fast sequential and parallel algorithm for multiplying quasi-Hilbert matrices and general matrices. (Chinese. English summary) (Not in MR)
- Kacwicz, Bolesław Z. On sequential and parallel solution of initial value problems. 91j:65121
- Kleinrock, Leonard see Huang, Jan Hsiung, 91m:68068
- Koç, Çetin K. see Egecioglu, Ömer; et al., 91g:65018
- Levin, A. Yu. see Encheva, Tatiana I., 91m:65138
- Li, Lei Parallel complexity of polynomial computation on MIMD. (Chinese. English summary) 91j:65039
- Libgober, Anatoly S. On topological complexity of solving polynomial equations of special type. 91h:65076
- Lozovann, D. D. (with Unguryanu, V. A.) An algorithm for testing the embeddability of a k -dimensional unit cube in an orthogonal projection of a polyhedral set defined by a system of linear inequalities. (Russian) 91g:65151
- Lu, Hao Complexity of the solutions to Vandermonde equations. (Chinese) (Not in MR) — see also You, Zhao Yong, 91i:65060
- Lubrecht, A. A. see Brandt, Ach, 91j:65194
- Munch, Niels Jun Orthogonally invariant measures and best approximation of linear operators. 91c:68055
- Pan, Victor (with Reif, John Henry) The bit-complexity of discrete solutions of partial differential equations: compact multigrid. 91f:65210
- Pardalos, Panos M. see Guisewite, G. M., 91k:90211
- Pietra, Paola see Canuto, Claudio, 91m:65282
- Plaskota, L. On average case complexity of linear problems with noisy information. 91i:65217
- Pomp, Andreas The integral method for coated gratings: computational cost. 91m:78018
- Reif, John Henry see Pan, Victor, 91f:65210
- Sasaki, Mutsuko see Sasaki, Tateaki, 91h:65069
- Sasaki, Tateaki (with Sasaki, Mutsuko) Analysis of accuracy decreasing in polynomial remainder sequence with floating-point number coefficients. 91h:65069
- Séguin, Gérald E. Low complexity normal bases for F_{2^m} . 91g:11160
- Stoltz, L. see Cody, W. J., 91m:65053
- Strain, John see Greengard, Leslie, 91j:65178
- Szymański, Jerzy On the complexity of algorithms on recursive trees. 91m:95174
- Toner, O. see Dimov, Ivan T., (91m:65003)
- Traub, Joseph F. (with Woźniakowski, H.) Information-based complexity: new questions for mathematicians. (Not in MR)
- Unguryanu, V. A. see Lozovann, D. D., 91g:65151
- Welfert, Bruno D. see Bank, Randolph E., 91g:76061
- Woźniakowski, H. see Traub, Joseph F., (Not in MR)
- Yan, Chun Gang see Jiang, Chang Jun, (Not in MR)
- You, Zhao Yong (with Lu, Hao) Inherent complexity of inverting Toeplitz matrices and Hankel matrices. (Chinese. English summary) 91i:65060
- Zhang, Feng Gang see Chen, Yung Ming, 91m:65244

65Y25 Computer graphics and computational geometry [see also 51N05, 68U05]

- Baldes, Alfred (with Wohlrab, Ortwin) Computer graphics of solutions of the generalized Monge-Ampère equation. 91k:65170
- Banchoff, Thomas F. Computer graphics tools for rendering algebraic surfaces and for geometry of order. (see 91g:90045)
- Börger, Christoph Generalized Delaunay triangulations of nonconvex domains. 91i:65225
- Hansford, Dianne The neutral case for the min-max triangulation. 91f:65232
- Kaufmann, Uwe Parametrische Randflächenrepräsentation mittels N -dimensionaler Geometrie. [Parametric representation of boundary surfaces using n -dimensional geometry] (see 91k:65004)
- Martínez Aroza, J. (with Ramírez, V.) A method for triangulating nonconvex planar regions. (Spanish) (see 91k:65005)
- Michelacci, G. An iterative algorithm for reconstructing inscribed triangles. 91k:65171
- Müller, André Geometrische Grundlagen der Rekonstruktion von Volumenmodellen aus Zeichnungsrisen. [Geometric foundations of the reconstruction of volume models from projections] (see 91k:65004)
- Pottinger, David Data visualisation techniques for nonlinear systems. (see 91i:58094)
- Ramírez, V. see Martínez Aroza, J., (91k:65005)
- Skarbek, Władysław Computational geometry techniques in acceleration of ray tracing. (see 91m:68007)
- Thuné, Michael A partitioning strategy for explicit difference methods. 91k:65172
- Traversoni Domínguez, Leonardo Some aspects of the Delaunay triangulation in the plane. (Spanish) (see 91k:65005)
- Wohlrab, Ortwin see Baldes, Alfred, 91k:65170

Items with secondary classifications in 65Y25

- Auray, Jean-Paul see Zighed, Abdelkader; et al., (Not in MR)
- Boehm, Wolfgang Algebraic and differential geometric methods in C.A.G.D. 91f:65036
- (Concus, Paul) see Geometric analysis and computer graphics, 91g:00045
- (Finn, Robert) see Geometric analysis and computer graphics, 91g:00045
- (Hoffman, David A.) see Geometric analysis and computer graphics, 91g:00045
- Hoffmann, Christoph M. (with Vermeer, Pamela J.) Eliminating extraneous solutions in curve and surface operations. 91m:65045
- Kutsenko, L. N. ★ Машинная графика в задачах проекционной природы. (Russian) [Computer graphics in problems of a projection nature] 91m:68165
- Largerion, Christine see Zighed, Abdelkader; et al., (Not in MR)
- Neff, C. Andrew Finding the distance between two circles in three-dimensional space. 91i:51030
- Sethian, J. A. The collapse of a dumbbell moving under its mean curvature. 91i:53023
- Smith, Alvy Ray Geometry versus imaging: extended abstract. (see 91g:00045)
- Terzopoulos, Demetri On deformable models. 91i:53007
- Tournissoux, Daniel see Zighed, Abdelkader; et al., (Not in MR)
- Vermeer, Pamela J. see Hoffmann, Christoph M., 91m:65045
- Xu, Zhi Ming Discrete interpolation surface. 91j:65038
- Zighed, Abdelkader (with Tournissoux, Daniel; Auray, Jean-Paul; Largerion, Christine) Discrimination basée sur un critère d'homogénéité locale. (English summary) [Discrimination by optimizing a local-consistency criterion] (Not in MR)

Items listed otherwise than by author

- Berkeley, CA ★ Geometric analysis and computer graphics. 91g:00045
- Geometric analysis and computer graphics ★ Geometric analysis and computer graphics. 91g:00045
- Workshop:
Differential Geometry, Calculus of Variations, and Computer Graphics ★ Geometric analysis and computer graphics. 91g:00045

65Y99 None of the above, but in this section

- Dobrovolskii, I. G. see Morozov, V. A.; et al., (91k:65006)
- Medvedev, V. A. see Morozov, V. A.; et al., (91k:65006)
- Morozov, V. A. (with Medvedev, V. A.; Dobrovolskii, I. G.) Optimal digital processing of images in linear spatially dependent systems. (Russian) (see 91k:65006)
- Oosterlinck, A. see Price, C. B.; et al., (91f:00017)
- Price, C. B. (with Wambacq, P.; Oosterlinck, A.) Computing with reaction-diffusion systems: applications in image processing. (see 91f:00017)
- Wambacq, P. see Price, C. B.; et al., (91f:00017)

Items with secondary classifications in 65Y99

- Bartholdi, John J., III see Platzman, Loren K., 91k:90124
- Platzman, Loren K. (with Bartholdi, John J., III) Spacefilling curves and the planar travelling salesman problem. 91k:90124
- Turányi, Tamás Sensitivity analysis of complex kinetic systems. Tools and applications. 91i:92016

68-XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area.}

68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- (Beardon, Colin) see Artificial intelligence terminology, 91j:68001
- Maslovskii, E. K. see Zeidenberg, V. K.; et al., 91d:68001
- Stepanov, A. M. see Zeidenberg, V. K.; et al., 91d:68001
- Zeidenberg, V. K. (with Zimarev, A. N.; Stepanov, A. M.; Maslovskii, E. K.) ★ Англо-русский словарь по вычислительной технике. (Russian) [English-Russian dictionary of computer science] 91d:68001
- Zimarev, A. N. see Zeidenberg, V. K.; et al., 91d:68001

Items listed otherwise than by author

- Artificial intelligence terminology ★ Artificial intelligence terminology. 91j:68001
- Dictionary:
Computer science see Zeidenberg, V. K.; et al., 91d:68001
- Computing ★ Dictionary of computing. 91e:68001

Items with secondary classifications in 68-00

- Devivier, Michel (with Léonard, Corinne) ★ Dictionnaire d'informatique et techniques associées. (French) [Dictionary of data processing and associated technologies] 91k:00003
- Léonard, Corinne see Devivier, Michel, 91k:00003
- (Shapiro, Stuart C.) see Encyclopedia: Artificial intelligence, 91b:68094

Items listed otherwise than by author

- Dictionary:
Data processing and associated technologies see Devivier, Michel, 91k:00003
- Encyclopedia:
Artificial intelligence ★ Encyclopedia of artificial intelligence. Vol. 1, 2. 91b:68094

68-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Bauer, Friedrich Ludwig (with Goos, Gerhard) ★ Информатика. Часть 1, 2. (Russian) [Informatics. Part 1, 2] 91m:68001
- Cormen, Thomas H. (with Leiserson, Charles E.; Rivest, Ronald L.) ★ Introduction to algorithms. 91i:68001
- Ershov, A. P. ★ Origins of programming. 91b:68001
— see also Bauer, Friedrich Ludwig, 91m:68001
- Goos, Gerhard see Bauer, Friedrich Ludwig, 91m:68001
- Horowitz, Ellis (with Sahni, Sartaj) ★ Fundamentals of data structures in Turbo Pascal. 91h:68001
- Jessen, E. (with Valk, R.) ★ Rechensysteme. (German) [Computer systems] 91c:68001 (Kerbel, V. G.) see Bauer, Friedrich Ludwig, 91m:68001
- Leiserson, Charles E. see Cormen, Thomas H.; et al., 91i:68001
- Lu, Zhong Wan ★ Mathematical logic for computer science. 91h:68001
- Mignotte, Maurice ★ Mathématiques pour le calcul formel. (French) [Mathematics for computer algebra] 91a:68001
- Reischuk, Rüdiger Karl ★ Einführung in die Komplexitätstheorie. (German) [Introduction to complexity theory] 91i:68002
- Rivest, Ronald L. see Cormen, Thomas H.; et al., 91i:68001
- (Sabelfeld, V. K.) see Bauer, Friedrich Ludwig, 91m:68001
- Sahni, Sartaj see Horowitz, Ellis, 91h:68001
- Salomaa, Arto ★ Many aspects of formal languages. (Not in MR) (Silverman, Robert H.) see Ershov, A. P., 91b:68001
- Smith, Jeffrey D. ★ Design and analysis of algorithms. 91h:68002 (Valiev, M. K.) see Bauer, Friedrich Ludwig, 91m:68001
- Valk, R. see Jessen, E., 91c:68001
- Wegener, Ingo ★ Effiziente Algorithmen für grundlegende Funktionen. (German) [Efficient algorithms for fundamental functions] 91i:68003
- Wood, Derick ★ Theory of computation. 91b:68002

Items with secondary classifications in 68-01

- Akritis, Alkiviadis G. ★ Elements of computer algebra with applications. 91k:68099
- Büchi, J. Richard ★ Finite automata, their algebras and grammars. 91h:68057
- Cull, Paul Analysis of algorithms. 91j:68049
- (Davenport, A.) see Davenport, J. H.; et al., 91j:68061
- Davenport, J. H. (with Siret, Y.; Tournier, E.) ★ Computer algebra. 91j:68061
- David, George I. (with Desmedt, Yvo G.) Cryptography based data security. 91h:68039
- Desmedt, Yvo G. see David, George I., 91h:68039
- Graham, Ronald L. (with Knuth, Donald E.; Patashnik, Oren) ★ Concrete mathematics. 91f:00001
- (Hearn, Anthony C.) see Davenport, J. H.; et al., 91j:68061
- Hoare, C. A. R. Notes on an approach to category theory for computer scientists. 91f:68137
- Humphreys, J. F. (with Prest, M. Y.) ★ Numbers, groups and codes. 91a:90005
- Knuth, Donald E. see Graham, Ronald L.; et al., 91f:00001
- (Lazard, Daniel) see Davenport, J. H.; et al., 91j:68061
- Nilsson, Nils J. ★ The mathematical foundations of learning machines. 91i:68127
- Patashnik, Oren see Graham, Ronald L.; et al., 91f:00001
- Prest, M. Y. see Humphreys, J. F., 91a:90005
- (Sejnowski, Terrence J.) see Nilsson, Nils J., 91i:68127
- (Siefkes, Dirk) see Büchi, J. Richard, 91h:68057
- Siret, Y. see Davenport, J. H.; et al., 91j:68061
- Tournier, E. see Davenport, J. H.; et al., 91j:68061
- (White, Halbert) see Nilsson, Nils J., 91i:68127

Items listed otherwise than by author

Obituary:

- Büchi, J. Richard see Büchi, J. Richard, 91h:68057

68-02 Research exposition (monographs, survey articles)

- Franklin, M. A. ★ Систематические вычисления. (Russian) [Systemic computations] 91h:68003
- (Gries, David) see Hoare, C. A. R., 91i:68004
- Hoare, C. A. R. ★ Essays in computing science. 91i:68004
- (Jones, Cliff B.) see Hoare, C. A. R., 91i:68004

Items with secondary classifications in 68-02

- Abramson, Harvey (with Dahl, Verónica) ★ Logic grammars. 91i:68084
- (Abu-Mostafa, Yaser S.) see Complexity in information theory, 91g:68088
- Dahl, Verónica see Abramson, Harvey, 91i:68084
- Demetronics, János see Mamikonov, A. G.; et al., 91c:68116
- Ehrig, Hartmut (with Mahr, Bernd) ★ Fundamentals of algebraic specification. 2. 91f:68151
- (van Harrevel, Frank) see Logic-based knowledge representation, 91k:68178
- Houben, Gerard Johan Peter Marie ★ An algebra and a message oriented language for a data model based on complex objects. 91h:68023
- (Jackson, Peter) see Logic-based knowledge representation, 91k:68178
- Knuth, Elöd see Mamikonov, A. G.; et al., 91c:68116
- Kul'ba, V. V. see Mamikonov, A. G.; et al., 91c:68116
- Kuz'muk, V. V. see Vasil'ev, V. V., 91h:68138
- (Kuznetsov, S. E.) see Nigmatullin, R. G., 91m:68090
- Mahr, Bernd see Ehrig, Hartmut, 91f:68151
- Mamikonov, A. G. (with Demetronics, János; Kul'ba, V. V.; Knuth, Elöd; Sokolova, E. B.; Urbanski, F.) ★ Использование сетей Петри при проектировании систем обработки данных. (Russian) [The use of Petri nets in the design of data processing systems] 91c:68116
- Neapolitan, Richard E. ★ Probabilistic reasoning in expert systems. 91i:68144
- Nigmatullin, R. G. ★ Нижние оценки сложности и сложность универсальных схем. (Russian) [Lower bounds on complexity and the complexity of universal schemes] 91m:68090

- (Nurmeev, N.) see Nigmatullin, R. G., 91m:68090
- (Reichgelt, Han) see Logic-based knowledge representation, 91k:68178
- Sokolova, E. B. see Mamikonov, A. G.; et al., 91c:68116
- Urbanski, F. see Mamikonov, A. G.; et al., 91c:68116
- Vasil'ev, V. V. (with Kuz'muk, V. V.) ★ Сети Петри, параллельные алгоритмы и модели мультипроцессорных систем. (Russian) [Petri nets, parallel algorithms and models of multiprocessor systems] 91h:68138

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Complexity in information theory ★ Complexity in information theory. 91g:68088

Logic-based knowledge representation ★ Logic-based knowledge representation. 91k:68178

68-03 Historical (must also be assigned at least one classification number from Section 01)

- Gandy, Robin The confluence of ideas in 1936. (see 91b:03004)

Items with secondary classifications in 68-03

- Arbib, Michael A. From universal Turing machines to self-reproduction. (see 91b:03004)
- (Atanasoff, John Vincent) see Burks, Alice R., 91a:01037
- (Babbage, Charles) see Lindgren, Michael, 91g:01019
- Bogolyubov, Aleksei Nikolaevich P. A. Florenskii and establishing the study of mechanisms. (Russian. English summary) 91g:01026
- Burks, Alice R. (with Burks, Arthur W.) ★ The first electronic computer. 91a:01037
- Burks, Arthur W. see Burks, Alice R., 91a:01037
- Constable, Robert L. Themes in the development of programming logics circa 1963-1987. 91g:03064
- Cover, Thomas M. (with Gács, Péter; Gray, Robert M.) Kolmogorov's contributions to information theory and algorithmic complexity. 91h:68085
- Crowken, Mary ★ Early scientific computing in Britain. 91g:01027
- Dantzig, George B. Impact of linear programming on computer development. (see 91c:00020)
- Davis, Martin Mathematical logic and the origin of modern computers [in *Studies in the history of mathematics*, 137-165, Math. Assoc. America, Washington, DC, 1987; see MR 89b:01002]. (see 91b:03004)
- Fet, Ya. I. On L. V. Kantorovich's research in the field of computer architecture. (see 91h:00023)
- (Florenskii, P. A.) see Bogolyubov, Aleksei Nikolaevich, 91g:01026
- Gács, Péter see Cover, Thomas M.; et al., 91h:68085
- Goldstone, Herman H. (with von Neumann, John) On the principles of large scale computing machines. 91h:01095
- Gray, Robert M. see Cover, Thomas M.; et al., 91h:68085
- Hodges, Andrew Alan Turing and the Turing machine. (see 91b:03004)
- (Kantorovich, L. V.) see Fet, Ya. I., 91h:00023
- (Kolmogorov, A. N.) see Cover, Thomas M.; et al., 91h:68085
- Lifschitz, Vladimir ★ Mechanical theorem proving in the USSR. 91j:68112
- Lindgren, Michael ★ Glory and failure. 91g:01019
- (McKay, Craig G.) see Lindgren, Michael, 91g:01019
- (Minker, Jack) see Lifschitz, Vladimir, 91j:68112
- (Müller, Johann) see Lindgren, Michael, 91g:01019
- von Neumann, John see Goldstone, Herman H., 91h:01095 and Schnelle, Helmut, 91b:03004
- Rosen, Robert Effective processes and natural law. (see 91b:03004)
- (Scheut, Edvard) see Lindgren, Michael, 91g:01019
- (Scheut, Georg) see Lindgren, Michael, 91g:01019
- Schnelle, Helmut Turing naturalized: von Neumann's unfinished project. (see 91b:03004)
- (Turing, Alan M.) see Hodges, Andrew, 91b:03004 and Davis, Martin, 91b:03004
- Zakharov, V. M. The establishment and development of research on cybernetics. (Russian) (see 91i:01139)

Items listed otherwise than by author

Colloquium:

Soviet Finite Mathematics ★ Colloquium on Soviet Finite Mathematics. 91e:01019

Discussion:

Large-scale finite mathematics ★ Colloquium on Soviet Finite Mathematics. 91e:01019

68-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 68-04

- Kubina, Jeffrey M. (with Wunderlich, Marvin C.) Extending Waring's conjecture to 471, 600, 000. 91b:11101
- Wunderlich, Marvin C. see Kubina, Jeffrey M., 91b:11101

68-06 Proceedings, conferences, collections, etc.

- (Akhieboz, Serge) see ICIT '90, 91h:68010
- (Abramson, Harvey) see Meta-programming in logic programming, 91h:68088
- (Alt-Kaci, Hassan) see Resolution of equations in algebraic structures, 91b:68009 and 91b:81010
- (Akl, Selim G.) see Advances in computing and information—ICCI '90, 91m:68002
- (Albrecht, R.) see Computational graph theory, 91a:68002
- (Almeida, Luis B.) see Neural networks, 91c:68011
- (Arikawa, Setsuo) see Conference: Fifth Generation Computer Systems, 91g:68006
- (Arnold, André) see CAAP '90, 91e:68005
- (Asano, Tetsuo) see Algorithms, 91g:68002
- (Ausello, Giorgio) see Algorithms and complexity, 91h:68005
- (Baeten, J. C. M.) see CONCUR '90, 91g:68003

- (de Bakker, J. W.) *see* Stepwise refinement of distributed systems, 91g:68009 and Foundations of object-oriented languages, 91m:68006
- (Banerji, Ranajit B.) *see* Formal techniques in artificial intelligence, 91g:68007
- (Bertoni, Alberto) *see* Conference: Theoretical Computer Science, 91m:68005
- (Bilskis, K.-H.) *see* Sorts and types in artificial intelligence, 91g:68008
- (Böhme, Corrado) *see* Conference: Theoretical Computer Science, 91m:68005
- (Bove, Daniel P.) *see* Algorithms and complexity, 91h:68005
- (Brown, Donald E.) *see* Operations research and artificial intelligence: the integration of problem-solving strategies, 91h:68014
- (Bublik, B. N.) *see* Models and systems of information processing, 91e:68010
- (Calanelli, Eduardo R.) *see* Parallel architectures and neural networks, 91k:68016
- (Casti, John L.) *see* Real brains, artificial minds, 91k:68017
- (Choffrut, Christian) *see* STACS '90, 91h:68011
- (Clarke, Edmund M.) *see* Computer-aided verification '90, 91m:68004
- (Cosnard, Michel Yves) *see* Parallel & distributed algorithms, 91a:68006
- (Damas, L.) *see* Natural language processing, 91k:68015
- (Dassow, Jürgen) *see* Aspects and prospects of theoretical computer science, 91h:68006
- (Deransart, P.) *see* Attribute grammars and their applications, 91h:68007
- (Dershowitz, Nachum) *see* Rewriting techniques and applications, 91f:68006
- (Dörner, Hartmut) *see* KISS 88, 91f:68002
- (Du, Ding Zhu) *see* Combinatorics, computing and complexity, 91i:68005
- (Eckhardt, Ulrich) *see* Geometrical problems of image processing, 91m:68007
- (van Eljck, J.) *see* Logics in AI, 91k:68012
- (Emrich, Mary L.) *see* Methodologies for intelligent systems, 91k:68014
- (Fiala, F.) *see* Advances in computing and information—ICCI '90, 91m:68002
- (Filgueiras, M.) *see* Natural language processing, 91k:68015
- (Fillipini, Mariagrazia) *see* Computational intelligence, 91k:68003
- (Finn, V. K.) *see* Information science, 91h:68009
- (Fogelman-Soulé, Françoise) *see* Neurocomputing, 91h:68013
- (Fuhrmann, André) *see* Logic of theory change, 91k:68010
- (Fujisaki, T.) *see* Logic programming '89, 91k:68011
- (Furukawa, Koichi) *see* Conference: Fifth Generation Computer Systems, 91g:68006 and Logic programming '89, 91k:68011
- (Gardin, Georges) *see* Workshop: Deductive Database Theory, (Not in MR)
- (Gardin, Francesco) *see* Computational intelligence, 91h:68003
- (Gécseg, F.) *see* Conference: Automata, Languages and Programming Systems, 91h:68004
- (Gilbert, John R.) *see* SWAT '90, 91e:68016
- (Grosz, Barbara J.) *see* Annual review of computer science, 91h:68003
- (Guessarian, Irène) *see* Semantics of systems of concurrent processes, 91h:68016
- (Gutowitz, Howard) *see* Cellular automata: theory and experiment, 91j:68003
- (Gysens, Marc) *see* Conference: Database Theory, 91g:68005
- (Hartmanis, Juris) *see* Computational complexity theory, 91j:68004
- (Haussler, David) *see* Proceedings: Workshop on Computational Learning Theory, 91e:68014
- (Hedstätt, U.) *see* Sorts and types in artificial intelligence, 91g:68008
- (Hérault, Jean) *see* Neurocomputing, 91h:68013
- (Hu, Guo Ding) *see* Combinatorics, computing and complexity, 91i:68005
- (Hübner, Albrecht) *see* Geometrical problems of image processing, 91m:68007
- (Ibaraki, Toshihide) *see* Algorithms, 91g:68002
- (Imai, Hiroshi) *see* Algorithms, 91g:68002
- (Ito, Takayasu) *see* Concurrency: theory, language, and architecture, 91k:68004
- (Jacob, Gérard) *see* Algebraic and computing treatment of noncommutative power series, 91m:68003
- (Jones, Neil D.) *see* ESOP '90, 91a:68003
- (Jouannaud, Jean-Pierre) *see* Rewriting techniques and applications, 91e:68015
- (Jourdan, M.) *see* Attribute grammars and their applications, 91h:68007
- (Kanelakis, Paris C.) *see* ICDT '90, 91h:68010
- (Kanovich, M. I.) *see* Logical methods for constructing efficient algorithms, 91f:68003
- (Karlqvist, Anders) *see* Real brains, artificial minds, 91k:68017
- (Karlsson, Rolf G.) *see* SWAT '90, 91e:68016
- (Kelemen, J.) *see* Aspects and prospects of theoretical computer science, 91h:68006
- (Kirchner, Claude) *see* Unification, 91j:68006
- (Kirchner, Hélène) *see* Algebraic and logic programming, 91g:68001
- (Klop, Jan Willem) *see* CONCUR '90, 91g:68003
- (Kozdziej, W. W.) *see* Advances in computing and information—ICCI '90, 91m:68002
- (Kodratoff, Yves) *see* Machine learning—EWSL-91, 91k:68013
- (Korte, Bernhard) *see* Paths, flows, and VLSI-layout, 91h:68015
- (Kosaraju, S. Rao) *see* IEEE Symposium: Foundations of Computer Science, 91k:68008
- (Kursan, R. P.) *see* Computer-aided verification '90, 91m:68004
- (Lampson, Butler W.) *see* Annual review of computer science, 91h:68003
- (Lengauer, Thomas) *see* STACS '90, 91h:68011
- (Lörasz, László) *see* Paths, flows, and VLSI-layout, 91h:68015
- (Lusk, Ewing L.) *see* Logic programming, 91h:68007
- (Main, Michael G.) *see* Mathematical foundations of programming semantics, 91e:68008
- (Mauro, Giancarlo) *see* Computational intelligence, 91k:68003
- (Mayr, Ernst W.) *see* Computational graph theory, 91a:68002
- (Mellon, Austin) *see* Mathematical foundations of programming semantics, 91e:68008
- (Miglioli, Pierangelo) *see* Conference: Theoretical Computer Science, 91m:68005
- (Mioha, A.) *see* Design and implementation of symbolic computation systems, 91e:68007
- (Mislove, Michael W.) *see* Mathematical foundations of programming semantics, 91e:68008
- (Moreira, N.) *see* Natural language processing, 91k:68015
- (Morrean, Michael) *see* Logic of theory change, 91k:68010
- (Nagel, Werner) *see* Geometrical problems of image processing, 91m:68007
- (Nagl, M.) *see* Graph-theoretic concepts in computer science, 91h:68006
- (Nechepurenko, M. L.) *see* Modeling in information science and computer technology, 91e:68009
- (Nilsson, Nils J.) *see* Annual review of computer science, 91h:68003
- (Nishizeki, Takao) *see* Algorithms, 91g:68002
- (Nivat, Maurice) *see* Resolution of equations in algebraic structures, 91h:68009 and 91h:68010
- (Noltemeier, Hartmut) *see* Computational graph theory, 91a:68002

- (Nori, K. V.) *see* Foundations of software technology and theoretical computer science, 91h:68009

- (Overbeck, Ross A.) *see* Logic programming, 91h:68007
- (Paredaens, Jan) *see* Conference: Database Theory, 91g:68005
- (Paterson, Michael) *see* Automata, languages and programming, 91e:68004
- (Peák, István) *see* Papers on automata and languages, 91a:68005 and Conference: Automata, Languages and Programming Systems, 91h:68004
- (Pearl, Judea) *see* Readings in uncertain reasoning, 91j:68005
- (Petreschi, Rossella) *see* Algorithms and complexity, 91h:68005
- (Prömel, Hans Jürgen) *see* Paths, flows, and VLSI-layout, 91h:68015
- (Quinton, Patrice) *see* Parallel & distributed algorithms, 91a:68006
- (Raś, Zbigniew W.) *see* Methodologies for intelligent systems, 91k:68014
- (Raynal, Michel) *see* Parallel & distributed algorithms, 91a:68006
- (Reutenauer, Christophe) *see* Algebraic and computing treatment of noncommutative power series, 91m:68003
- (Rivest, Ronald L.) *see* Proceedings: Workshop on Computational Learning Theory, 91e:68014
- (Robert, Yves) *see* Parallel & distributed algorithms, 91a:68006
- (de Roever, W. P.) *see* Stepwise refinement of distributed systems, 91g:68009 and Foundations of object-oriented languages, 91m:68006
- (Rogers, M. H.) *see* Meta-programming in logic programming, 91h:68008
- (Rollinger, C.-R.) *see* Sorts and types in artificial intelligence, 91g:68008
- (Rovan, Branislav) *see* Mathematical foundations of computer science, 91h:68011
- (Rozenberg, Grzegorz) *see* Advances in Petri nets, 91h:68002; Stepwise refinement of distributed systems, 91g:68009; Advances in Petri nets, 91h:68002 and Foundations of object-oriented languages, 91m:68006
- (Rus, Teodor) *see* Conference: Algebraic Methodology and Software Technology, 91h:68008
- (Schmidt, David A.) *see* Mathematical foundations of programming semantics, 91e:68008
- (Schrijver, Alexander) *see* Paths, flows, and VLSI-layout, 91h:68015
- (Schroeder-Heister, Peter) *see* Extensions of logic programming, 91k:68007
- (Shafer, Glenn) *see* Readings in uncertain reasoning, 91j:68005
- (Sharir, Micha) *see* ACM Symposium: Computational Geometry, 91e:68002
- (Sridharan, N. S.) *see* Proceedings: Conference on Artificial Intelligence, 91e:68012
- (Stickel, Mark E.) *see* Conference: Automated Deduction, 91g:68004
- (Studer, R.) *see* Natural language and logic, 91h:68012
- (Syslo, Maciej M.) *see* Computational graph theory, 91a:68002
- (Tanaka, Hozumi) *see* Logic programming '89, 91k:68011
- (Tinhofer, G.) *see* Computational graph theory, 91a:68002
- (Tomás, A. P.) *see* Natural language processing, 91k:68015
- (Traub, Joseph F.) *see* Annual review of computer science, 91h:68003
- (Veni Madhavan, C. E.) *see* Foundations of software technology and theoretical computer science, 91h:68009
- (Warmuth, Manfred K.) *see* Proceedings: Workshop on Computational Learning Theory, 91e:68014
- (Wechler, Wolfgang) *see* Algebraic and logic programming, 91g:68001
- (Wellens, C. J.) *see* Neural networks, 91e:68011
- (Werner, Günter M.) *see* Geometrical problems of image processing, 91m:68007
- (White, Chelsea C., III) *see* Operations research and artificial intelligence: the integration of problem-solving strategies, 91h:68014
- (Yonezawa, Akinori) *see* Concurrency: theory, language, and architecture, 91k:68004
- (Yovits, Marshall C.) *see* Advances in computers, 91e:68003 and 91h:68004
- (Zedan, H.) *see* Real-time systems: theory and applications, 91h:68018
- (Zemankova, Maria) *see* Methodologies for intelligent systems, 91k:68014
- (Zhuravlev, Ya. I.) *see* Pattern recognition. Classification. Prediction, 91f:68004 and 91f:68005

Items listed otherwise than by author

ACM Symposium:

- Computational Geometry ★ ACM Symposium on Computational Geometry. 91e:68002
- Advances in computers ★ Advances in computers. Vol. 30. 91e:68003
- ★ Advances in computers. Vol. 31. 91h:68004
- Advances in computing and information—ICCI '90 ★ Advances in computing and information—ICCI '90. 91m:68002
- Advances in Petri nets ★ Advances in Petri nets 1989. 91h:68002
- ★ Advances in Petri nets 1990. 91h:68002
- Algebraic and computing treatment of noncommutative power series ★ Algebraic and computing treatment of noncommutative power series. 91m:68003
- Algebraic and logic programming ★ Algebraic and logic programming. 91g:68001
- Algorithms ★ Algorithms. 91g:68002
- Algorithms and complexity ★ Algorithms and complexity. 91h:68005
- All-Union Conference:
- Packet-switching Computer Networks ★ Вычислительные сети коммутации пакетов. (Russian) [Packet-switching computer networks] 91a:68004
- Amsterdam ★ CONCUR '90. 91g:68003
- ★ Logics in AI. 91k:68012
- Annual review of computer science ★ Annual review of computer science. Vol. 4. 91h:68003
- Aspects and prospects of theoretical computer science ★ Aspects and prospects of theoretical computer science. 91h:68006
- Atlanta, GA ★ Computational complexity theory. 91j:68004
- Attribute grammars and their applications ★ Attribute grammars and their applications. 91h:68007
- Automata, languages and programming ★ Automata, languages and programming. 91e:68004
- Bangalore ★ Foundations of software technology and theoretical computer science. 91h:68009
- Banská Bystrica ★ Mathematical foundations of computer science. 1990. 91h:68011
- Barcelona ★ Fifth Annual Structure in Complexity Theory Conference. 91h:68006
- Beijing ★ Combinatorics, computing and complexity. 91h:68005
- Beiträge zur Theorie und Anwendung von Petri-Netzen ★ Beiträge zur Theorie und Anwendung von Petri-Netzen. (German) [Contributions to the theory and application of

- Petri nets] 91h:68005
 Bergen ★ SWAT '90. 91e:68016
 Bonn ★ Paths, flows, and VLSI-layout. 91h:68015
 — ★ Advances in Petri nets 1990. 91k:68002
 Bristol ★ Meta-programming in logic programming. 91b:68008
 Bruges ★ 2nd International Conference on Database Theory. 91g:68005
 CAAP '90 ★ CAAP '90. 91e:68005
 Cagel ★ Design and implementation of symbolic computation systems. 91e:68007
 Cellular automata: theory and experiment ★ Cellular automata: theory and experiment. 91j:68003
 Chapel Hill, NC ★ Rewriting techniques and applications. 91f:68006
 Château de Bonas ★ Parallel & distributed algorithms. 91a:68006
 Cleveland, OH ★ Logic programming. Vol. 1, 2. 91h:68007
 Colloquium:
 Automata, Languages and Programming ★ Automata, languages and programming. 91e:68004
 Trees in Algebra and Programming ★ CAAP '90. 91e:68005
 Combinatorics, computing and complexity ★ Combinatorics, computing and complexity. 91i:68005
 Complexity theory and related topics ★ Keisanryō riron to sono shūhen. (Japanese) [Complexity theory and related topics] 91e:68006
 Computational complexity theory ★ Computational complexity theory. 91j:68004
 Computational graph theory ★ Computational graph theory. 91a:68002
 Computational intelligence ★ Computational intelligence. II. 91k:68003
 Computer-aided verification '90 ★ Computer-aided verification '90. 91m:68004
 CONCUR '90 ★ CONCUR '90. 91g:68003
 Concurrency: theory, language, and architecture ★ Concurrency: theory, language, and architecture. 91k:68004
 Conference:
 Algebraic and Logic Programming ★ Algebraic and logic programming. 91g:68001
 Algebraic Methodology and Software Technology ★ Conference on Algebraic Methodology and Software Technology. 91h:68008
 Algorithms and Complexity ★ Algorithms and complexity. 91h:68005
 Application and Theory of Petri Nets ★ Advances in Petri nets 1990. 91k:68002
 Artificial Intelligence ★ Proceedings of the Eleventh International Joint Conference on Artificial Intelligence. Vol. 1, 2. 91e:68012
 Automata, Languages and Programming Systems ★ Second Conference on Automata, Languages and Programming Systems. 91h:68004
 Automated Deduction ★ 10th International Conference on Automated Deduction. 91g:68004
 Computational Geometry ★ Journées de Géométrie Algorithmique. [Conference on Computational Geometry] 91k:68005
 Computing and Information ★ Advances in computing and information—ICCI '90. 91m:68002
 Database Theory ★ 2nd International Conference on Database Theory. 91g:68005
 — ★ ICDT '90. 91h:68010
 Fifth Generation Computer Systems ★ International Conference on Fifth Generation Computer Systems. 91g:68006
 Foundations of Software Technology and Theoretical Computer Science ★ Foundations of software technology and theoretical computer science. 91h:68009
 Logic Programming ★ Logic programming. Vol. 1, 2. 91h:68007
 — ★ Logic programming '89. 91k:68011
 Mathematical Foundations of Programming Semantics ★ Mathematical foundations of programming semantics. 91e:68008
 Real-Time Systems: Theory and Applications ★ Real-time systems: theory and applications. 91k:68018
 Rewriting Techniques and Applications ★ Rewriting techniques and applications. 91e:68015
 — ★ Rewriting techniques and applications. 91f:68006
 Structure in Complexity Theory ★ Fifth Annual Structure in Complexity Theory Conference. 91k:68006
 Theoretical Computer Science ★ Third Italian Conference on Theoretical Computer Science. 91m:68005
 Theories of Concurrency: Unification and Extension ★ CONCUR '90. 91g:68003
 Contributions to the theory and application of Petri nets ★ Beiträge zur Theorie und Anwendung von Petri-Netzen. (German) [Contributions to the theory and application of Petri nets] 91h:68005
 Copenhagen ★ ESOP '90. 91a:68003
 — ★ CAAP '90. 91e:68005
 Coventry ★ Automata, languages and programming. 91e:68004
 Design and implementation of symbolic computation systems ★ Design and implementation of symbolic computation systems. 91e:68007
 Detroit, MI ★ Proceedings of the Eleventh International Joint Conference on Artificial Intelligence. Vol. 1, 2. 91e:68012
 Dijon ★ Rewriting techniques and applications. 91e:68015
 Erlangerfeld ★ Sorts and types in artificial intelligence. 91g:68008
 ESOP '90 ★ ESOP '90. 91a:68003
 Extensions of logic programming ★ Extensions of logic programming. 91k:68007
 Formal techniques in artificial intelligence ★ Formal techniques in artificial intelligence. 91g:68007
 Formula processing and its applications in mathematical research ★ Sushiki shori to sūgaku kenkyū e no ōyo. (Japanese) [Formula processing and its applications in mathematical research] 91f:68001
 Foundations of object-oriented languages ★ Foundations of object-oriented languages. 91m:68006
 Foundations of software technology and theoretical computer science ★ Foundations of software technology and theoretical computer science. 91h:68009
 Geometrical problems of image processing ★ Geometrical problems of image processing. 91m:68007
 Geogenthal ★ Geometrical problems of image processing. 91m:68007
 Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. 91h:68006
 Guarda ★ Natural language processing. 91k:68015
 Halle ★ KISS 88. (German) 91f:68002
 Hamburg ★ Natural language and logic. 91h:68012
 ICDT '90 ★ ICDT '90. 91h:68010
 IEEE Symposium:
 Foundations of Computer Science ★ Twenty-eighth IEEE Symposium on Foundations of Computer Science. 91k:68008
 Illiers-Combray ★ Workshop on Deductive Database Theory. (Not in MR)
 Information science ★ Информатика. Том 15. (Russian) [Information science. Vol. 15] 91k:68009
 Iowa City, IA ★ Conference on Algebraic Methodology and Software Technology. 91h:68008
 Itoji Naoki i Tekhniki ★ Информатика. Том 15. (Russian) [Information science. Vol. 15] 91k:68009
 Kaiserslautern ★ 10th International Conference on Automated Deduction. 91g:68004
 Kerkrade ★ Graph-theoretic concepts in computer science. 91h:68006
 KISS 88 ★ KISS 88. (German) 91f:68002
 Knoxville, TN ★ Methodologies for intelligent systems, 5. 91k:68014
 Konstanz ★ The logic of theory change. 91k:68010
 La Roche Posay ★ Semantics of systems of concurrent processes. 91h:68016
 Lecture Notes in Computer Science ★ Rewriting techniques and applications. 91f:68006
 — ★ ESOP '90. 91a:68003
 — ★ Advances in Petri nets 1989. 91h:68002
 — ★ Graph-theoretic concepts in computer science. 91h:68006
 — ★ STACS '90. 91h:68011
 — ★ Automata, languages and programming. 91e:68004
 — ★ CAAP '90. 91e:68005
 — ★ Design and implementation of symbolic computation systems. 91e:68007
 — ★ Mathematical foundations of programming semantics. 91e:68008
 — ★ Neural networks. 91e:68011
 — ★ SWAT '90. 91e:68016
 — ★ Algebraic and logic programming. 91g:68001
 — ★ Algorithms. 91g:68002
 — ★ CONCUR '90. 91g:68003
 — ★ 10th International Conference on Automated Deduction. 91g:68004
 — ★ Sorts and types in artificial intelligence. 91g:68008
 — ★ Stepwise refinement of distributed systems. 91g:68009
 — ★ Aspects and prospects of theoretical computer science. 91h:68006
 — ★ Attribute grammars and their applications. 91h:68007
 — ★ Foundations of software technology and theoretical computer science. 91h:68009
 — ★ ICDT '90. 91h:68010
 — ★ Mathematical foundations of computer science. 1990. 91h:68011
 — ★ Natural language and logic. 91h:68012
 — ★ Semantics of systems of concurrent processes. 91h:68016
 — ★ Advances in computing and information—ICCI '90. 91m:68002
 — ★ Advances in Petri nets 1990. 91k:68002
 — ★ Concurrency: theory, language, and architecture. 91k:68004
 — ★ Extensions of logic programming. 91k:68007
 — ★ The logic of theory change. 91k:68010
 — ★ Logic programming '89. 91k:68011
 — ★ Logics in AI. 91k:68012
 — ★ Machine learning—EWSL-91. 91k:68013
 — ★ Natural language processing. 91k:68015
 — ★ Foundations of object-oriented languages. 91m:68006
 Les Arcs ★ Neurocomputing. 91h:68013
 Lille ★ Algebraic and computing treatment of noncommutative power series. 91m:68003
 Logic of theory change ★ The logic of theory change. 91k:68010
 Logic programming ★ Logic programming. Vol. 1, 2. 91h:68007
 Logic programming '89 ★ Logic programming '89. 91k:68011
 Logical methods for constructing efficient algorithms ★ Логические методы построения эффективных алгоритмов. (Russian) [Logical methods for constructing efficient algorithms] 91f:68003
 Logics in AI ★ Logics in AI. 91k:68012
 Los Alamos, NM ★ Cellular automata: theory and experiment. 91j:68003
 Los Angeles, CA ★ Twenty-eighth IEEE Symposium on Foundations of Computer Science. 91k:68008
 Machine learning—EWSL-91 ★ Machine learning—EWSL-91. 91k:68013
 Magdeburg ★ 4th Workshop on Mathematical Aspects of Computer Science. 91a:68007
 Mantova ★ Third Italian Conference on Theoretical Computer Science. 91m:68005
 Mathematical foundations of computer science ★ Mathematical foundations of computer science. 1990. 91h:68011
 Mathematical foundations of programming semantics ★ Mathematical foundations of programming semantics. 91e:68008
 Meeting:
 Paths, Flows, and VLSI-Layout ★ Paths, flows, and VLSI-layout. 91h:68015
 Young Computer Scientists ★ Aspects and prospects of theoretical computer science. 91h:68006
 Meta-programming in logic programming ★ Meta-programming in logic programming. 91h:68008
 Methodologies for intelligent systems ★ Methodologies for intelligent systems, 5. 91k:68014
 Milan ★ Computational intelligence. II. 91k:68003
 Modeling in information science and computer technology ★ Моделирование в информатике и вычислительной технике. (Russian) [Modeling in information science and computer technology] 91e:68009
 Models and systems of information processing ★ Модели и системы обработки информации. Вып. 9. (Russian) [Models and systems of information processing. No. 9] 91e:68018
 Mook ★ Stepwise refinement of distributed systems. 91g:68009

Nancy ★ Algebraic and logic programming. 91g:68001

NATO Advanced Research Workshop:

Neurocomputing, Algorithms, Architectures and Applications ★ Neurocomputing. 91h:68013

Natural language and logic ★ Natural language and logic. 91h:68012

Natural language processing ★ Natural language processing. 91k:68015

Neural networks ★ Neural networks. 91e:68011

Neurocomputing ★ Neurocomputing. 91h:68013

New Brunswick, NJ ★ Computer-aided verification '90. 91m:68004

New Orleans, LA ★ Mathematical foundations of programming semantics. 91e:68008

Niagara Falls, ON ★ Advances in computing and information—ICCI '90. 91m:68002

Nice ★ Actes du Séminaire Franco-Soviétique Informatika 88. [Proceedings of the Franco-Soviet Seminar Informatika 88] 91e:68013

Noordwijkerhout ★ Foundations of object-oriented languages. 91m:68006

Operations research and artificial intelligence: the integration of problem-solving strategies ★ Operations research and artificial intelligence: the integration of problem-solving strategies. 91h:68014

Oxford ★ Concurrency: theory, language, and architecture. 91k:68004

Packet-switching computer networks ★ Вычислительные сети коммутации пакетов. (Russian) [Packet-switching computer networks] 91a:68004

Papers on automata and languages ★ Papers on automata and languages. X. 91a:68005

Parallel & distributed algorithms ★ Parallel & distributed algorithms. 91a:68006

Parallel architectures and neural networks ★ Parallel architectures and neural networks. 91k:68016

Paris ★ Attribute grammars and their applications. 91h:68007

— ★ ICDT '90. 91h:68010

Paths, flows, and VLSI-layout ★ Paths, flows, and VLSI-layout. 91h:68015

Pattern recognition. Classification. Prediction ★ Распознавание. Классификация. Прогноз. (Russian) [Pattern recognition. Classification. Prediction] 91f:68004

— ★ Распознавание. Классификация. Прогноз. (Russian) [Pattern recognition. Classification. Prediction] 91f:68005

Porto ★ Machine learning—EWSL-91. 91k:68013

Proceedings of Symposia in Applied Mathematics ★ Computational complexity theory. 91j:68004

Proceedings:

Conference on Artificial Intelligence ★ Proceedings of the Eleventh International Joint Conference on Artificial Intelligence. Vol. 1, 2. 91e:68012

Seminar Informatika 88 ★ Actes du Séminaire Franco-Soviétique Informatika 88. [Proceedings of the Franco-Soviet Seminar Informatika 88] 91e:68013

Symposium on Discrete Algorithms ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91k:68006

Workshop on Computational Learning Theory ★ Proceedings of the Second Annual Workshop on Computational Learning Theory. 91e:68014

Readings in uncertain reasoning ★ Readings in uncertain reasoning. 91j:68005

Real brains, artificial minds ★ Real brains, artificial minds. 91k:68017

Real-time systems: theory and applications ★ Real-time systems: theory and applications. 91k:68018

Resolution of equations in algebraic structures ★ Resolution of equations in algebraic structures. Vol. 1. 91h:68009

— ★ Resolution of equations in algebraic structures. Vol. 2. 91h:68010

Rewriting techniques and applications ★ Rewriting techniques and applications. 91e:68015

— ★ Rewriting techniques and applications. 91f:68006

Riga ★ Вычислительные сети коммутации пакетов. (Russian) [Packet-switching computer networks] 91a:68004

Rome ★ Algorithms and complexity. 91h:68005

Rouen ★ STACS 90. 91h:68011

Saarbrücken ★ ACM Symposium on Computational Geometry. 91e:68002

Salerno ★ Parallel architectures and neural networks. 91k:68016

Salgutarján ★ Second Conference on Automata, Languages and Programming Systems. 91h:68004

San Francisco, CA ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91h:68006

Santa Cruz, CA ★ Proceedings of the Second Annual Workshop on Computational Learning Theory. 91e:68014

School:

Artificial Intelligence ★ KISS 88. (German) 91f:68002

— ★ Natural language processing. 91k:68015

Foundations of Object-oriented Languages ★ Foundations of object-oriented languages. 91m:68006

Theoretical Computer Science ★ Semantics of systems of concurrent processes. 91h:68016

Semantics of systems of concurrent processes ★ Semantics of systems of concurrent processes. 91h:68016

Seminar:

Informatika ★ Actes du Séminaire Franco-Soviétique Informatika 88. [Proceedings of the Franco-Soviet Seminar Informatika 88] 91e:68013

Sesimbra ★ Neural networks. 91e:68011

Session:

Learning ★ Machine learning—EWSL-91. 91k:68013

Smolenice ★ Aspects and prospects of theoretical computer science. 91h:68006

Sophia-Antipolis ★ Journées de Géométrie Algorithmique. [Conference on Computational Geometry] 91k:68005

Sorts and types in artificial intelligence ★ Sorts and types in artificial intelligence. 91g:68008

STACS 90 ★ STACS 90. 91h:68011

Stepwise refinement of distributed systems ★ Stepwise refinement of distributed systems. 91g:68009

SWAT 90 ★ SWAT 90. 91e:68016

Symposium:

Algorithms ★ Algorithms. 91g:68002

Combinatorial Optimization ★ Combinatorics, computing and complexity. 91h:68005

Symposium: (cont'd.)

Complexity Theory and Related Topics ★ Keisanryō riron to sono shūhen. (Japanese) [Complexity theory and related topics] 91e:68006

Computational Intelligence ★ Computational intelligence. II. 91k:68003

Design and Implementation of Symbolic Computation Systems ★ Design and implementation of symbolic computation systems. 91e:68007

Discrete Algorithms ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91k:68006

Formula Processing and its Applications in Mathematical Research ★ Sushiki shori to sugaku kenkyū e no oyō. (Japanese) [Formula processing and its applications in mathematical research] 91f:68001

Mathematical Foundations of Computer Science ★ Mathematical foundations of computer science. 1990. 91h:68011

Methodologies for Intelligent Systems ★ Methodologies for intelligent systems. 5. 91k:68014

Natural Language and Logic ★ Natural language and logic. 91h:68012

Programming ★ ESOP '90. 91a:68003

Theoretical Aspects of Computer Science ★ STACS 90. 91h:68011

Tianjing ★ Combinatorics, computing and complexity. 91h:68005

Tokyo ★ Algorithms. 91g:68002

— ★ International Conference on Fifth Generation Computer Systems. 91g:68006

— ★ Logic programming '89. 91k:68011

Tübingen ★ Extensions of logic programming. 91k:68007

Unification ★ Unification. 91j:68006

Venice ★ Advances in Petri nets 1989. 91h:68002

Workshop:

Algebraic and Computing Treatment of Noncommutative Power Series ★ Algebraic and computing treatment of noncommutative power series. 91m:68003

Algorithm Theory ★ SWAT 90. 91e:68016

Applications and Theory of Petri Nets ★ Advances in Petri nets 1989. 91h:68002

Attribute Grammars and their Applications ★ Attribute grammars and their applications. 91h:68007

Cellular Automata: Theory and Experiment ★ Cellular automata: theory and experiment. 91f:68003

Computational Learning Theory ★ Proceedings of the Second Annual Workshop on Computational Learning Theory. 91e:68014

Computer-aided Verification ★ Computer-aided verification '90. 91m:68004

Concurrency: Theory, Language, and Architecture ★ Concurrency: theory, language, and architecture. 91k:68004

Deductive Database Theory ★ Workshop on Deductive Database Theory. (Not in MR)

Extensions of Logic Programming ★ Extensions of logic programming. 91k:68007

Geometrical Problems of Image Processing ★ Geometrical problems of image processing. 91h:68007

Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. 91h:68006

Logic of Theory Change ★ The logic of theory change. 91k:68010

Logics in AI ★ Logics in AI. 91k:68012

Mathematical Aspects of Computer Science ★ 4th Workshop on Mathematical Aspects of Computer Science. 91a:68007

Meta-Programming in Logic Programming ★ Meta-programming in logic programming. 91h:68008

Neural Networks ★ Neural networks. 91e:68011

Parallel & Distributed Algorithms ★ Parallel & distributed algorithms. 91a:68006

Parallel Architectures and Neural Networks ★ Parallel architectures and neural networks. 91k:68016

Sorts and Types in Artificial Intelligence ★ Sorts and types in artificial intelligence. 91g:68008

Stepwise Refinement of Distributed Systems ★ Stepwise refinement of distributed systems. 91g:68009

York ★ Real-time systems: theory and applications. 91k:68018

Items with secondary classifications in 68-06

(Ambos-Spies, Klaus) see Recursion theory week, 91e:03007

(Bart, Randolph E.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035

(Bergman, Clifford) see Algebraic logic and universal algebra in computer science, 91g:03005

(Börger, Egno) see CSL '89, 91g:03006

(Ballrich, R.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035

(Dongarra, Jack) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041

(Gries, David) see Hoare, C. A. R., 91h:68004

(Herken, Rolf) see Universal Turing machine: a half-century survey, 91h:03004

Hoare, C. A. R. ★ Essays in computing science. 91h:68004

(Homma, Tatsuo) see Topology and computer science, 91m:00039

(Jones, Cliff B.) see Hoare, C. A. R., 91h:68004

(Kinoshita, Shin'ichi) see Topology and computer science, 91m:00039

(Kleine Büning, Hans) see CSL '89, 91g:03006

(Maddux, Roger D.) see Algebraic logic and universal algebra in computer science, 91g:03005

(Martin-Löf, Per) see COLOG-88, 91e:03004

(Mertes, K.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035

(Messina, Paul) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041

(Mints, Grigoriĭ Efimovich) see COLOG-88, 91e:03004

(Müller, G. H.) see Recursion theory week, 91e:03007

(Noguchi, Hiroshi) see Topology and computer science, 91m:00039

(Odifreddi, P.) see Logic and computer science, 91e:03006

(Pigozzi, D. L.) see Algebraic logic and universal algebra in computer science, 91g:03005

(Ricciardi, Luigi M.) see Lectures: Applied mathematics and informatics, 91e:68002

- (Richter, Michael M.) *see* CSL '89, 91g:03006
 (Sacks, Gerald E.) *see* Recursion theory week, 91e:03007
 (Sorensen, Danny C.) *see* Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
 (Suzuki, Shin'ichi) *see* Topology and computer science, 91m:00039
 (Turing, Alan M.) *see* Universal Turing machine: a half-century survey, 91h:03004
 (Voigt, Robert G.) *see* Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041

Items listed otherwise than by author

- Algebraic logic and universal algebra in computer science** ★ Algebraic logic and universal algebra in computer science. 91g:03005
Ames, IA ★ Algebraic logic and universal algebra in computer science. 91g:03005
Atami ★ Topology and computer science. 91m:00039

Birthday:

- Homma, Tatsuo** ★ Topology and computer science. 91m:00039
Kinoshita, Shin'ichi ★ Topology and computer science. 91m:00039
Noguchi, Hiroshi ★ Topology and computer science. 91m:00039

- Chicago, IL** ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing. 91k:00041

- COLOG-88** ★ COLOG-88. 91e:03004

Conference:

- Algebraic Logic and Universal Algebra in Computer Science** ★ Algebraic logic and universal algebra in computer science. 91g:03005
Computer Logic ★ COLOG-88. 91e:03004
Mathematical Modelling and Simulation of Electrical Circuits and Semiconductor Devices ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035
Parallel Processing for Scientific Computing ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing. 91k:00041
Recursion Theory ★ Recursion theory week. 91e:03007
Signal Processing ★ Latvian Signal Processing International Conference. Vol. 1. 91i:04002

- ★ Latvian Signal Processing International Conference. Vol. 2. 91i:04003

- CSL '89** ★ CSL '89. 91g:03006

- Investigations on formula manipulation systems for differential equations** ★ Bibun hōteishiki no sashikishōri shisutemu no kenkyū. (Japanese) [Investigations on formula manipulation systems for differential equations] 91k:00014

- Kaiserslautern** ★ CSL '89. 91g:03006

- Lecture Notes in Computer Science** ★ COLOG-88. 91e:03004

- ★ Algebraic logic and universal algebra in computer science. 91g:03005

- ★ CSL '89. 91g:03006

- Lecture Notes in Mathematics** ★ Logic and computer science. 91e:03006

- ★ Recursion theory week. 91e:03007

Lectures:

- Applied mathematics and informatics** ★ Lectures in applied mathematics and informatics. 91e:00002

- Logic and computer science** ★ Logic and computer science. 91e:03006

- Mathematical modelling and simulation of electrical circuits and semiconductor devices** ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035

- Montecatini Terme** ★ Logic and computer science. 91e:03006

- Oberwolfach** ★ Recursion theory week. 91e:03007

- ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035

Proceedings:

- Conference on Parallel Processing for Scientific Computing** ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing. 91k:00041

- Recursion theory week** ★ Recursion theory week. 91e:03007

- Riga** ★ Latvian Signal Processing International Conference. Vol. 1. 91i:04002

- ★ Latvian Signal Processing International Conference. Vol. 2. 91i:04003

Session:

- Logic and Computer Science** ★ Logic and computer science. 91e:03006

Symposium:

- Investigations on Formula Manipulation Systems for Differential Equations** ★ Bibun hōteishiki no sashikishōri shisutemu no kenkyū. (Japanese) [Investigations on formula manipulation systems for differential equations] 91k:00014

- Topology and Computer Science** ★ Topology and computer science. 91m:00039

- Tallinn** ★ COLOG-88. 91e:03004

- Topology and computer science** ★ Topology and computer science. 91m:00039

- Universal Turing machine: a half-century survey** ★ The universal Turing machine: a half-century survey. 91h:03004

Workshop:

- Computer Science Logic** ★ CSL '89. 91g:03006

68Mxx Computer system organization

68M05 General

- Huang, Ming-Deh A.** (with Teng, Shang-Hua) Security, verifiability, and universality in distributed computing. 91i:68007
Salm, Khenn Structural complexity of hierarchical systems. (Russian. English and Estonian summaries) 91j:68007
Teng, Shang-Hua *see* Huang, Ming-Deh A., 91i:68007

68M07 Mathematical problems of computer architecture

- Chen, Guan-Ing** (with Lai, Ten Hwang) Scheduling independent jobs on partitionable hypercubes. (Not in MR)

- Hirota, Kaoru** *see* Kóczy, László T.; et al., 91j:68008

- Ja'Ja', Joseph** *see* Wu, S. Alice, (Not in MR)

- Kerkhoven, Thomas** Modelling of semiconductors subject to prescribed currents. (see 91m:00035)

- Klappholz, David** *see* Psarris, Kleantes; et al., (Not in MR)

- Kóczy, László T.** (with Hirota, Kaoru; Ozawa, Kazuhiro) Knowledge representation and accumulation by fuzzy flip-flops. 91j:68008

- Kong, Xiangyun** *see* Psarris, Kleantes; et al., (Not in MR)

- Lai, Ten Hwang** *see* Chen, Guan-Ing, (Not in MR)

- Ozawa, Kazuhiro** *see* Kóczy, László T.; et al., 91j:68008

- Psarris, Kleantes** (with Klappholz, David; Kong, Xiangyun) On the accuracy of the Banerjee test. (Not in MR)

- Wu, S. Alice** (with Ja'Ja', Joseph) Optimal algorithms for adjacent side routing. (Not in MR)

Items with secondary classifications in 68M07

- Bank, Randolph E.** (with Bürgler, Josef F.; Coughran, W. M., Jr.; Fichtner, Wolfgang; Smith, R. Kent) Recent progress in algorithms for semiconductor device simulation. (see 91m:00035)

- Bigil'deeva, T. B.** (with Ganzha, T. V.; Tret'yakov, A. A.; Yaitskov, A. S.) A model and a method for solving an extremal allocation problem in the design of high-speed computers. (Not in MR)

- Bürgler, Josef F.** *see* Bank, Randolph E.; et al., (91m:00035)

- Coughran, W. M., Jr.** *see* Bank, Randolph E.; et al., (91m:00035)

- Fichtner, Wolfgang** *see* Bank, Randolph E.; et al., (91m:00035)

- Ganzha, T. V.** *see* Bigil'deeva, T. B.; et al., (Not in MR)

- Hakimi, S. Louis** *see* Tsan, Tai-Ching, 91g:68006

- Smith, R. Kent** *see* Bank, Randolph E.; et al., (91m:00035)

- Tret'yakov, A. A.** *see* Bigil'deeva, T. B.; et al., (Not in MR)

- Tsan, Tai-Ching** (with Hakimi, S. Louis) River routing with a small number of jogs. 91g:68006

- Yaitskov, A. S.** *see* Bigil'deeva, T. B.; et al., (Not in MR)

68M10 Computer networks [see also 90B12]

- Afek, Yehuda** (with Landau, Gad M.; Schieber, Baruch; Yung, Moti) The power of multimedia: combining point-to-point and multiaccess networks. 91f:68007

- Aspnes, James** (with Herlihy, Maurice) Fast randomized consensus using shared memory. 91g:68010

- Attiya, Hagit** (with Snir, Marc; Warmuth, Manfred K.) Computing on an anonymous ring. (Not in MR)

- (with Bar-Noy, Amotz; Dolev, Danny; Peleg, David; Reischuk, Rüdiger Karl) Renaming in an asynchronous environment. 91e:68017

- Awerbuch, Baruch** (with Bar-Noy, Amotz; Linial, Nathan; Peleg, David) Compact distributed data structures for adaptive routing. 91c:68002

- (with Bar-Noy, Amotz; Linial, Nathan; Peleg, David) Improved routing strategies with succinct tables. 91g:68011

- On the effects of feedback in dynamic network protocols. 91g:68012

- (with Goldreich, Oded; Peleg, David; Vainish, Ronen) A trade-off between information and communication in broadcast protocols. 91g:68013

- Bagchi, Amitava** (with Hakimi, S. Louis; Mitchem, J.; Schmeichel, Edward) Parallel algorithms for gossiping by mail. 91e:68018

- Bandyopadhyay, A. K.** *see* Pramanik, P.; et al., (Not in MR)

- Bandyopadhyay, Subir** *see* Sengupta, Abhijit, (Not in MR)

- Barbosa, Valmir C.** Blocking versus nonblocking interprocess communication: a note on the effect on concurrency. (Not in MR)

- Bar-Noy, Amotz** (with Dolev, Danny; Koller, Daphne; Peleg, David) Fault-tolerant critical section management in asynchronous networks. 91a:68008

- *see also* Awerbuch, Baruch; et al., 91c:68002; Attiya, Hagit; et al., 91e:68017 and Awerbuch, Baruch; et al., 91g:68011

- Bar-Yehuda, Reuven** (with Goldreich, Oded; Itai, Alon) Efficient emulation of single-hop radio network with collision detection on multi-hop radio network with no collision detection. 91a:68009

- Bermond, Jean-Claude** (with König, Jean-Claude) General and efficient decentralized consensus protocols. II. (see 91a:68006)

- (with Fournneau, J. M.) Independent connections: an easy characterization of baseline-equivalent multistage interconnection networks. 91b:68012

- (with Tzvieli, Dvora) Minimal diameter double-loop networks: dense optimal families. 91k:68019

- Beutelspacher, Albrecht** How to communicate efficiently. 91c:68003

- Bel, Marc** On optimal management of resources in distributed networks. (Not in MR)

- Régulation pour un fonctionnement optimal d'un réseau de processeurs en algorithmique distribuée. (English summary) [Control for the optimal operation of a processor network in distributed computing] (Not in MR)

- Capocelli, Renato M.** (with Gargano, Luisa; Vaccaro, Ugo) Time bounds for broadcasting in bounded degree graphs. (see 91b:68006)

- Chiang, Zen Fu** *see* Shen, Jang Ping, (Not in MR)

- Chin, Francis Y. L.** (with Ting, H. F.) Improving the time complexity of message-optimal distributed algorithms for minimum-weight spanning trees. 91g:68014

- Chor, Benny** (with Merritt, Michael; Shmoys, David B.) Simple constant-time consensus protocols in realistic failure models. (Not in MR)

- Chou, Ching-Tsun** (with Gopal, Inder S.) Linear broadcast routing. 91h:68017

- Cidon, Israel** (with Gopal, Inder S.) Dynamic detection of subgraphs in computer networks. 91c:68004

- Conn, Brian A.** (with Dolev, Danny; Dworck, Cynthia; Stockmeyer, Larry) The distributed firing squad problem. 91a:68010

- Cong, Bin** (with Miller, Zevi; Sudborough, Ivan Hal) Optimum simulation of meshes by small hypercubes. 91j:68009

- Das, P. K.** *see* Pramanik, P.; et al., (Not in MR)

- Dolev, Danny *see* Bar-Noy, Amotz; et al., 91a:68008; Coan, Brian A.; et al., 91a:68010 and Attiya, Hagit; et al., 91c:68017
- Du, Ding Zhu (with Hsu, D. Frank; Li, Qiao; Xu, Jun Ming) A combinatorial problem related to distributed loop networks. 91a:68011
- Dwork, Cynthia *see* Coan, Brian A.; et al., 91a:68010
- Even, Shimon (with Rajsbaum, Sergio) Union in distributed networks. 91a:68012
- Faingold, V. B. Local networks with a subdivision algorithm. (Russian) (Not in MR)
- Farley, Arthur M. (with Proskurowski, Andrzej) The design of template immune networks: path immunity. 91f:68008
- Fay, D. Q. M. *see* Pramanik, P.; et al., (Not in MR)
- Fekete, Alan (with Lynch, Nancy A.) The need for headers: an impossibility result for communication over unreliable channels. (see 91g:68003)
- Fournau, J. M. *see* Bermond, Jean-Claude, 91b:68012
- Fraignaud, Pierre (with Miguet, Serge; Robert, Yves) Scattering on a ring of processors. (Not in MR)
- Frederickson, Greg N. (with Janardan, Ravi) Efficient message routing in planar networks. 91a:68019a
- (with Janardan, Ravi) Space-efficient message routing in c -decomposable networks. 91a:68019b
- Gargano, Luisa *see* Capocelli, Renato M.; et al., (91b:68006)
- Goldreich, Oded (with Petrank, Erez) The best of both worlds: guaranteeing termination in fast randomized Byzantine agreement protocols. (Not in MR)
- *see also* Bar-Yehuda, Reuven; et al., 91a:68009 and Awerbuch, Baruch; et al., 91g:68013
- Gopal, Inder S. *see* Cidon, Israel, 91c:68004 and Chou, Ching-Tsun, 91b:68017
- Gouda, Mohamed G. (with Herman, Ted) Stabilizing union. (Not in MR)
- Hakimi, S. Louis *see* Bagchi, Amitava; et al., 91c:68018
- Harrison, Peter G. (with Patel, Naresh M.) The representation of multistage interconnection networks in queuing models of parallel systems. 91j:68010
- Herlihy, Maurice *see* Aspnes, James, 91c:68010
- Herman, Ted *see* Gouda, Mohamed G., (Not in MR)
- Hofri, Micha A feedback-less distributed broadcast algorithm for multihop radio networks with time-varying structure. 91b:68013
- Hsu, D. Frank *see* Du, Ding Zhu; et al., 91a:68011
- Itai, Alon (with Rodeh, Michael) Symmetry breaking in distributed networks. 91j:68011
- *see also* Bar-Yehuda, Reuven; et al., 91a:68009
- Janardan, Ravi *see* Frederickson, Greg N., 91a:68019a and 91a:68019b
- Kant, Goos (with van Leeuwen, Jan) The file distribution problem for processor networks. (see 91c:68016)
- Katz, Shmuel *see* Taubenfeld, Gadi; et al., (Not in MR)
- Koller, Daphne *see* Bar-Noy, Amotz; et al., 91a:68008
- Konig, Jean-Claude *see* Bermond, Jean-Claude, (91a:68006)
- Krishnamoorthy, V. (with Thulasiraman, K.; Swamy, M. N. S.) Incremental distance and diameter sequences of a graph: new measures of network performance. (Not in MR)
- Landau, Gad M. *see* Afeck, Yehuda; et al., 91f:68007
- van Leeuwen, Jan *see* Kant, Goos, (91c:68016)
- Li, Qiao *see* Du, Ding Zhu; et al., 91a:68011
- Li, Shuo-Yen Robert On full utilization of multi-channel capacity with priority protocol. (Not in MR)
- Linial, Nathan *see* Awerbuch, Baruch; et al., 91c:68002 and 91g:68011
- Loui, Michael C. (with Sohoni, Milind A.) An algorithm for load balancing in multiprocessor systems. (Not in MR)
- Lynch, Nancy A. *see* Fekete, Alan, (91g:68003)
- Masapati, G. H. (with Ural, Hasan) Electing a leader in a synchronous recursively scalable network. (see 91m:68002)
- Merritt, Michael *see* Chor, Benny; et al., (Not in MR)
- Miguet, Serge *see* Fraignaud, Pierre; et al., (Not in MR)
- Miller, Zevi *see* Cong, Bin; et al., 91g:68009
- Mitchem, J. *see* Bagchi, Amitava; et al., 91c:68018
- Moran, Shlomo Message complexity versus space complexity in fault tolerant broadcast protocols. 91a:68013
- *see also* Taubenfeld, Gadi; et al., (Not in MR)
- Narahari, Bhagirath *see* Youssef, Abdou S., 91f:68012
- Neiger, Gil (with Toueg, Sam) Providing design abstractions in distributed systems. (see 91a:68006)
- Parberry, Ian An optimal time bound for oblivious routing. 91f:68009
- Patel, Naresh M. *see* Harrison, Peter G., 91j:68010
- Peleg, David (with Upfal, Eli) A trade-off between space and efficiency for routing tables. (Not in MR)
- (with Schäffer, Alejandro A.) Time bounds on fault-tolerant broadcasting. 91b:68018
- *see also* Bar-Noy, Amotz; et al., 91a:68008; Awerbuch, Baruch; et al., 91c:68002; Attiya, Hagit; et al., 91c:68017; Awerbuch, Baruch; et al., 91g:68011 and 91g:68013
- Petrank, Erez *see* Goldreich, Oded, (Not in MR)
- Pramanik, P. (with Das, P. K.; Bandyopadhyay, A. K.; Fay, D. Q. M.) A deadlock-free communication kernel for loop architecture. (Not in MR)
- Proskurowski, Andrzej *see* Farley, Arthur M., 91f:68008
- Rajsbaum, Sergio *see* Even, Shimon, 91a:68012
- Ramarao, K. V. S. Design of transaction commitment protocols. 91b:68019
- Reischuk, Rüdiger Karl *see* Attiya, Hagit; et al., 91c:68017
- Robert, Yves *see* Fraignaud, Pierre; et al., (Not in MR)
- Rodeh, Michael *see* Itai, Alon, 91j:68011
- Ruker, Maria Hierarchical deadlock detection for nested transactions. (Not in MR)
- Santoro, Nicola (with Widmayer, Peter) Distributed function evaluation in the presence of transmission faults. (see 91g:68002)
- Sarkar, Dilip (with Tong, Wing) The Gp-network: a new linear-cost computer network. 91a:68014
- Sato, Kimio Reliability formulas for certain iterative contact networks. 91f:68008
- Schäffer, Alejandro A. *see* Peleg, David, 91b:68018
- Schieber, Baruch *see* Afeck, Yehuda; et al., 91f:68007
- Schmeichel, Edward *see* Bagchi, Amitava; et al., 91c:68018
- Sengupta, Abhijit (with Bandyopadhyay, Subir) Deadlock-free routing in k -ary hypercube network in presence of processor failures. (Not in MR)
- Shen, Jang Ping (with Chiang, Zen Fu) Efficient allocation of chain-like task on chain-like network computers. (Not in MR)
- Shmoys, David B. *see* Chor, Benny; et al., (Not in MR)
- Solr, Marc *see* Attiya, Hagit; et al., (Not in MR)
- Sohoni, Milind A. *see* Loui, Michael C., (Not in MR)
- Stockmeyer, Larry *see* Coan, Brian A.; et al., 91a:68010
- Sudborough, Ivan Hal *see* Cong, Bin; et al., 91j:68009
- Swamy, M. N. S. *see* Krishnamoorthy, V.; et al., (Not in MR)
- Taubenfeld, Gadi (with Katz, Shmuel; Moran, Shlomo) Initial failures in distributed computations. (Not in MR)
- Thulasiraman, K. *see* Krishnamoorthy, V.; et al., (Not in MR)
- Ting, H. F. *see* Chin, Francis Y. L., 91g:68014
- Tong, Wing *see* Sarkar, Dilip, 91a:68014
- Toueg, Sam *see* Neiger, Gil, (91a:68006)
- Trivelp, Drora *see* Bermond, Jean-Claude, 91b:68019
- Upfal, Eli *see* Peleg, David, (Not in MR)
- Ural, Hasan *see* Masapati, G. H., (91m:68002)
- Vaccaro, Ugo *see* Capocelli, Renato M.; et al., (91b:68006)
- Vainish, Ronen *see* Awerbuch, Baruch; et al., 91g:68013
- Vidysankar, K. Concurrent reading while writing revisited. (Not in MR)
- Vorontsov, Yu. A. Control of assignment distribution in a computer network. (Russian) (Not in MR)
- Warmuth, Manfred K. *see* Attiya, Hagit; et al., (Not in MR)
- Widmayer, Peter *see* Santoro, Nicola, (91g:68002)
- Xu, Jun Ming *see* Du, Ding Zhu; et al., 91a:68011
- Youssef, Abdou S. (with Narahari, Bhagirath) The banyan-hypercube networks. 91j:68012
- Yung, Moti *see* Afeck, Yehuda; et al., 91f:68007
- Zakharenko, G. P. Principles for constructing operating systems for integrated digital communications networks. (Russian) (Not in MR)
- Zhuikov, A. V. Planning of conditional initialization on semantic tables of solutions. 91j:68013

Items with secondary classifications in 68M10

- Abadi, Martin (with Feigenbaum, Joan) Secure circuit evaluation. A protocol based on hiding information from an oracle. 91f:68079
- *see also* Burrow, Michael; et al., 91a:68185
- Ahamad, Mustaque *see* Bernabé-Aubán, José M., 91a:68069
- Annexstein, Fred (with Baumsig, Marc; Rosenberg, Arnold L.) Group action graphs and parallel architectures. 91g:68070
- Bassalygo, L. A. (with Pinsker, M. S.) A controlled connector. (Not in MR)
- Baumsig, Marc *see* Annexstein, Fred; et al., 91g:68070
- Bernabé-Aubán, José M. (with Ahamad, Mustaque) Applying a path-compression technique to obtain an efficient distributed mutual exclusion algorithm. 91a:68069
- Bodlaender, Hans L. The complexity of finding uniform emulations on paths and ring networks. 91f:68115
- Some lower bound results for decentralized extrema-finding in rings of processors. 91m:68046
- Burrow, Michael (with Abadi, Martin; Needham, R. M.) A logic of authentication. 91a:68185
- Chandhuri, Pranay An adaptive parallel algorithm for analyzing activity networks. (Not in MR)
- Chen, Ming-Syan (with Shin, Kang G.) On relaxed squashed embedding of graphs into a hypercube. 91c:05067
- Choukri, T. *see* Üstünel, Ali Süleyman, 91m:60184
- Chung, Moon Jung (with Ravikumar, Bala) Bounds on the size of test sets for sorting and related networks. 91g:68026
- De Santis, Alfredo (with Micali, Silvio; Persiano, Giuseppe) Removing interaction from zero-knowledge proofs. 91b:68036
- Debrashin, R. L. Switching networks, Markov interaction processes, Gibbsian fields—interconnection. (see 91j:68003)
- Feigenbaum, Joan *see* Abadi, Martin, 91f:68079
- Fon-Der-Flass, D. G. A problem in information gathering. (Russian) 91b:90112
- Gershuni, D. S. *see* Kasrashvili, I. S., 91m:90065
- Grigni, Michelangelo (with Peleg, David) Tight bounds on minimum broadcast networks. 91m:94042
- Halpern, Joseph Y. (with Moses, Yoram) Knowledge and common knowledge in a distributed environment. 91m:68158
- Herman, Ted Probabilistic self-stabilization. 91f:68072
- Hu, Tai Pei The diameter of loop networks $G(N; s_1, s_2)$. (Chinese. English summary) 91m:05092
- Hwang, F. K. (with Yao, Yi-Ching) A generalization of the monotonicity theorem in group testing with applications to random multiaccess channels. 91d:94033
- Kasrashvili, I. S. (with Gershuni, D. S.) A station assignment algorithm for a bichannel LAN. (Russian. English and Georgian summaries) 91m:90065
- Kim, Hyeon Joong (with Lee, Jang Gyu) Partial sum problem mapping into a hypercube. 91b:68045
- Kim, Myunghwan *see* Park, Moon Hwa, (Not in MR)
- Kotin, Leon *see* Stark, W. Richard, 91b:68058
- Kudryavtsev, V. B. (with Podkolzin, A. S.) Fundamental directions in the theory of homogeneous structures. 91f:68165
- Lee, Jang Gyu *see* Kim, Hyeon Joong, 91b:68045
- Mattern, Friedemann Virtual time and global states of distributed systems. (see 91a:68006)
- Micali, Silvio *see* De Santis, Alfredo; et al., 91b:68036
- Misra, Jayadev A simple proof of a simple consensus algorithm. 91b:68014
- Monien, Burkhard (with Sudborough, Ivan Hal) Embedding one interconnection network in another. (German summary) 91f:68051
- Moses, Yoram *see* Halpern, Joseph Y., 91m:68158
- Needham, R. M. *see* Burrow, Michael; et al., 91a:68185

- Panagaden, Prakash (with Shanbhogue, Vasant; Stark, Eugene W.) Stability and sequentiality in dataflow networks. (see 91c:68004)
- Park, Moon Hwa (with Kim, Myungwhan) A distributed synchronization scheme for fair multi-process handshakes. (Not in MR)
- Parrow, Joachim Structural and behavioural equivalences of networks. (see 91c:68004)
- Parlenko, V. A. On the complement of $\Pi(n)$ -sets. (Russian) (Not in MR)
- Peleg, David (with Upfal, Eli) Constructing disjoint paths on expander graphs. 91h:05115
- (with Ullman, Jeffrey D.) An optimal synchronizer for the hypercube. 91a:68214
- (with Grigori, Michelangelo, 91m:94042)
- Persiano, Giuseppe see De Santis, Alfredo; et al., 91h:68036
- Pinsker, M. S. see Bassalygo, L. A., (Not in MR)
- Pippenger, Nicholas Selection networks. (see 91g:68002)
- Podkolzin, A. S. see Kudryavtsev, V. B., 91f:68165
- Ravikumar, Bala see Chung, Moon Jung, 91g:68026
- Rönn, Stefan (with Saikkonen, Heikki) Distributed termination detection with counters. (Not in MR)
- Rosenberg, Arnold L. see Annexstein, Fred; et al., 91g:68070
- Saikkonen, Heikki see Rönn, Stefan, (Not in MR)
- Schwill, Andreas Nonblocking graphs: greedy algorithms to compute disjoint paths. 91g:68064
- Segall, Adrian see Wolfson, Ouri, 91k:68037
- Shanbhogue, Vasant see Panagaden, Prakash; et al., (91c:68004)
- Shin, Kang G. see Chen, Ming-Syan, 91c:05067
- Stark, Eugene W. see Panagaden, Prakash; et al., (91c:68004)
- Stark, W. Richard (with Kotin, Leon) The social metaphor for distributed processing. 91h:68058
- Sudborough, Ivan Hal see Monies, Burkhard, 91f:68051
- Teng, Shang-Hua Space efficient processor identity protocol. (Not in MR)
- Ullman, Jeffrey D. see Peleg, David, 91a:68214
- Upfal, Eli see Peleg, David, 91h:05115
- Östlin, Ali Süleyman (with Choukri, T.) Diffusion approximation of videoconference networks. 91m:60184
- Varadarajan, Ravi Partitioning multi-edge graphs. 91e:68123
- Wolfson, Ouri (with Segall, Adrian) The communication complexity of atomic commitment and of gossiping. 91k:68037
- Yao, Yi-Ching see Hwang, F. K., 91d:94033
- ### 68M15 Reliability and testing
- AboElFotouh, Hosam M. (with Colbourn, Charles J.) Efficient algorithms for computing the reliability of permutation and interval graphs. 91m:68008
- Agarwal, Vinod Kumar² see Das, Anindya; et al., (91b:68006)
- Bandyopadhyay, Subir see Sengupta, Abhijit; et al., 91m:68013
- Bashkow, Theodore R. see Ghafoor, Arif, (Not in MR)
- Beauquier, Joffrey Fault-tolerant naming and mutual exclusion. 91m:68009
- Boesch, F. T. (with Li, Xiao Ming²; Suffel, C.) On the existence of uniformly optimally reliable networks. 91m:68010
- Broderick, G. L. (with Lemishevskaya, T. G.) Appropriateness of using timer control strategies in multiprocessor systems with failures. (Russian. English summary) (Not in MR)
- Chang, Chung-Kuo (with Gouda, Mohamed G.) On the minimum requirements for independent recovery in distributed systems. 91j:68014
- Chen, Ming-Syan (with Shin, Kang G.) Adaptive fault-tolerant routing in hypercube multicomputers. 91f:68009
- Colbourn, Charles J. see AboElFotouh, Hosam M., 91m:68008
- Dahbura, Anton T. see Haddad, Ramsey W.; et al., 91k:68020
- Das, Anindya (with Thulasiraman, K.; Agarwal, Vinod Kumar²; Lakshmanan, K. B.) t/s -diagnosable systems: a characterization and diagnosis algorithm. (see 91b:68006)
- Dolev, Danny (with Reischuk, Rüdiger Karl; Strong, H. Raymond) Early stopping in Byzantine agreement. 91j:68015
- Gelenbe, Erol (with Hernández, Marisela) Optimum checkpoints with age dependent failures. 91c:68020
- Ghafoor, Arif (with Bashkow, Theodore R.) A study of odd graphs as fault-tolerant interconnection networks. (Not in MR)
- Gohara, Juniti see Turhu, Seishiro; et al., (Not in MR)
- Gouda, Mohamed G. see Chang, Chung-Kuo, 91j:68014
- Goyal, Ambuj see Muntz, Richard R.; et al., 91a:68015
- Haddad, Ramsey W. (with Dahbura, Anton T.; Sharma, Anup B.) Increased throughput for the testing and repair of RAMs with redundancy. 91k:68020
- Hakimi, S. Louis see Schmeichel, Edward; et al., 91f:68011
- Harden, Jim C. see Linder, Daniel H., (Not in MR)
- Heimann, David I. (with Mittal, Nitin; Trivedi, Kishor S.) Availability and reliability modeling for computer systems. 91j:68016
- Hernández, Marisela see Gelenbe, Erol, 91c:68020
- Hsieh, Wen Shyong (with Yang, Chu Sing; Tzeng, Jih-Shaw) Graph-theoretic characterization and reliability of the multiple-clique network. 91m:68011
- Huang, W. K. see Lombardi, F., (Not in MR)
- Johnson, David B. (with Zwaenepoel, Willy) Recovery in distributed systems using optimistic message logging and checkpointing. 91g:68015
- Joshi, P. D. see Sengupta, Abhijit; et al., 91m:68013
- Juang, Tony T.-Y. (with Venkatesan, Shankar M.) Efficient algorithms for crash recovery in distributed systems. 91j:68017
- Karibakli, V. V. (with Lubkov, N. V.) Construction of a model and the analysis of the reliability of a multiprocessor computer system. (Not in MR)
- Lakshmanan, K. B. see Das, Anindya; et al., (91b:68006)
- Lemishevskaya, T. G. see Broderick, G. L., (Not in MR)
- Li, Xiao Ming¹ see Boesch, F. T.; et al., 91m:68010
- Linder, Daniel H. (with Harden, Jim C.) An adaptive and fault tolerant wormhole routing strategy for k -ary n -cubes. (Not in MR)
- Liu, Chun Sheng (with Wen, Chuan Yuan) Model and algorithm of backward error recovery of distributed software. (Not in MR)
- Lombardi, F. (with Huang, W. K.) Fault detection and design complexity in C -testable VLSI arrays. (Not in MR)
- Lubkov, N. V. see Karibakli, V. V., (Not in MR)
- Misra, Jayadev A simple proof of a simple consensus algorithm. 91h:68014
- Mittal, Nitin see Heimann, David I.; et al., 91j:68016
- Muntz, Richard R. (with de Souza e Silva, Edmundo; Goyal, Ambuj) Bounding availability of repairable computer systems. 91a:68015
- Nakatani, Hajime see Turhu, Seishiro; et al., (Not in MR)
- Neiger, Gil (with Toueg, Sam) Automatically increasing the fault-tolerance of distributed algorithms. 91g:68016
- Otsuka, M. see Schmeichel, Edward; et al., 91f:68011
- Parlov, I. V. (with Ushakov, I. A.) Calculation of reliability indices for complex systems with restorable elements. (Not in MR)
- Pippenger, Nicholas Invariance of complexity measures for networks with unreliable gates. 91f:68010
- Developments in "The synthesis of reliable organisms from unreliable components". 91m:68012
- Prack, J. A new technique for fault detection using Petri nets. (Not in MR)
- Raghavan, Vijay K. (with Tripathi, Anand R.) Improved diagnosability algorithms. 91k:68021
- Reischuk, Rüdiger Karl see Dolev, Danny; et al., 91j:68015
- Schmeichel, Edward (with Hakimi, S. Louis; Otsuka, M.; Sullivan, G.) A parallel fault identification algorithm. 91f:68011
- Sengupta, Abhijit (with Joshi, P. D.; Bandyopadhyay, Subir) A synthesis approach to design optimally fault tolerant network architecture. 91m:68013
- Sharma, Anup B. see Haddad, Ramsey W.; et al., 91k:68020
- Shin, Kang G. see Chen, Ming-Syan, 91c:05067
- Somani, Arun K. Sequential fault occurrence and reconfiguration in system level diagnosis. (Not in MR)
- de Souza e Silva, Edmundo see Muntz, Richard R.; et al., 91a:68015
- Strong, H. Raymond see Dolev, Danny; et al., 91j:68015
- Suffel, C. see Boesch, F. T.; et al., 91m:68010
- Sullivan, G. see Schmeichel, Edward; et al., 91f:68011
- Thulasiraman, K. see Das, Anindya; et al., (91b:68006)
- Toueg, Sam see Neiger, Gil, 91g:68016
- Tripathi, Anand R. see Raghavan, Vijay K., 91k:68021
- Trivedi, Kishor S. see Heimann, David I.; et al., 91j:68016
- Turhu, Seishiro (with Nakatani, Hajime; Gohara, Juniti) A highly reliable large scale computer complex. (Not in MR)
- Tzeng, Jih-Shaw see Hsieh, Wen Shyong; et al., 91m:68011
- Ushakov, I. A. see Parlov, I. V., (Not in MR)
- Venkatesan, Shankar M. see Juang, Tony T.-Y., 91j:68017
- Wen, Chuan Yuan see Liu, Chun Sheng, (Not in MR)
- Yang, Chu Sing see Hsieh, Wen Shyong; et al., 91m:68011
- Zhang, Jian Zhong Analysis and design of fault-tolerant capability of single-stage interconnection network RMISE. 91d:68002
- Zwaenepoel, Willy see Johnson, David B., 91g:68015
- ### Items with secondary classifications in 68M15
- Attiya, Hagit (with Bar-Noy, Amotz; Dolev, Danny; Peleg, David; Reischuk, Rüdiger Karl) Renaming in an asynchronous environment. 91c:68017
- Bar-Noy, Amotz (with Dolev, Danny; Koller, Daphne; Peleg, David) Fault-tolerant critical section management in asynchronous networks. 91a:68008
- see also Attiya, Hagit; et al., 91c:68017
- Brzozowski, J. A. (with Jürgensen, H.) Deterministic diagnosis of sequential machines (extended summary). (see 91b:68004)
- (with Jürgensen, H.) Probabilistic diagnosis of sequential machines (extended summary). (see 91b:68004)
- Coan, Brian A. (with Dolev, Danny; Dwork, Cynthia; Stockmeyer, Larry) The distributed firing squad problem. 91a:68010
- Dolev, Danny see Bar-Noy, Amotz; et al., 91a:68008; Coan, Brian A.; et al., 91a:68010 and Attiya, Hagit; et al., 91c:68017
- Dwork, Cynthia see Coan, Brian A.; et al., 91a:68010
- Escudero, M. (with Fabrega, J.; Urbizu, N.) Graph theory and vulnerability of interconnection networks. (Spanish) (see 91j:00015)
- Fabrega, J. see Escudero, M.; et al., (91j:00015)
- Fekete, Alan (with Lynch, Nancy A.) The need for headers: an impossibility result for communication over unreliable channels. (see 91g:68003)
- Jürgensen, H. see Brzozowski, J. A., (91b:68004) and (91b:68004)
- Koller, Daphne see Bar-Noy, Amotz; et al., 91a:68008
- Lynch, Nancy A. see Fekete, Alan, (91g:68003)
- Moran, Shlomo Message complexity versus space complexity in fault tolerant broadcast protocols. 91a:68013
- Neiger, Gil (with Toueg, Sam) Providing design abstractions in distributed systems. (see 91a:68006)
- Peleg, David (with Schäffer, Alejandro A.) Time bounds on fault-tolerant broadcasting. 91h:68018
- see also Bar-Noy, Amotz; et al., 91a:68008 and Attiya, Hagit; et al., 91c:68017
- Red'kin, N. P. Complete verifying tests for circuits composed of functional elements. (Russian) 91b:94064
- Reischuk, Rüdiger Karl see Attiya, Hagit; et al., 91c:68017
- Santoro, Nicola (with Widmayer, Peter) Distributed function evaluation in the presence of transmission faults. (see 91g:68002)
- Schäffer, Alejandro A. see Peleg, David, 91h:68018
- Sericola, Bruno Closed-form solution for the distribution of the total time spent in a subset of states of a homogeneous Markov process during a finite observation period. 91m:60131

- Serra, Micaela Algebraic analysis and algorithms for linear cellular automata over GF(2) and the applications to digital circuit testing. 91g:68122
- Shimko, N. A. Peculiarities of the realization of boundedly deterministic functions by schemes of unreliable elements. 91h:68135
- Stockmeyer, Larry see Coan, Brian A.; et al., 91a:68010
- Toueg, Sam see Neiger, Gil, (91a:68006)
- Urbizu, N. see Escudero, M.; et al., (91j:00015)
- Widmayer, Peter see Santoro, Nicola, (91g:68002)

68M20 Performance evaluation; queueing; scheduling [see also 60K25, 90Bxx]

- Akyildiz, I. F. (with von Brand, Horst) Exact solutions for open, closed and mixed queueing networks with rejection blocking. 91a:68016
- Andropov, V. M. Approximate analysis of computer network operation. (Not in MR)
- Baccelli, François (with Liu, Zhen) On the execution of parallel programs on multiprocessor systems—a queueing theory approach. (Not in MR)
- Bao, You Li (with Chen, Qing Yun) An approximate solution to processor assignment in a pipeline processing system. (Chinese. English summary) (Not in MR)
- Barishpolets, V. A. (with Kobzar', S. A.) Algorithm for analysis of a network model with stochastic structure and random operation duration by means of a numerical method. 91h:68022
- Biran, Ofer (with Moran, Shlomo; Zaks, Shmuel) A combinatorial characterization of the distributed 1-solvable tasks. 91f:68010
- von Brand, Horst see Akyildiz, I. F., 91a:68016
- Brzozowski, J. A. (with Seger, C.-J.) A unified framework for race analysis of asynchronous networks. 91g:68017
- Chen, Ming-Syan (with Shin, Kang G.) Depth-first search approach for fault-tolerant routing in hypercube multicomputers. 91f:68011
- Chen, Qing Yun see Bao, You Li, (Not in MR)
- Chen, Robert W. (with Shepp, Larry A.) Synchronous service on a circle. 91m:68014
- Chlamtac, Imrich (with Ganz, Aura) An experimental methodology for integrated services systems. 91a:68017
- De Waal, P. R. (with van Dijk, Nico M.) Monotonicity of performance measures in a processor sharing queue. 91m:68015
- van Dijk, Nico M. see De Waal, P. R., 91m:68015
- El-Affendi, M. A. Some practical results for nonexponential models of computer performance analysis. (Arabic summary) 91f:68012
- Elwalid, Anwar I. see Stern, Thomas E., 91m:68017
- Gal, T. see Sztrik, János, 91a:68023 and (Not in MR)
- Ganz, Aura see Chlamtac, Imrich, 91a:68017
- Gelenbe, Erol Temps d'exécution asymptotique d'un programme parallèle. (English summary) [Asymptotic processing time of a parallel program] 91b:68015
- Haas, Peter J. (with Shedler, Gerald S.) Stochastic Petri nets with timed and immediate transitions. 91c:68005
- Hasegawa, Toshiharu see Takine, Tetsuya; et al., 91h:68020
- Hirayama, Tetsuji (with Kijima, Masaaki; Nishimura, Shōichi) Further results for dynamic scheduling of multiclass G/G/1 queues. 91b:68016
- Irani, Keki B. see Önyüksel, Ibrahim H., (Not in MR)
- Kaufman, J. S. (with Wang, Yung Terng) A conservation law based approximate analysis for a class of simultaneous resource possession problems. (Not in MR)
- Kijima, Masaaki see Hirayama, Tetsuji; et al., 91b:68016
- Kobzar', S. A. see Barishpolets, V. A., 91h:68022
- Kostreva, M. M. see Pattipati, Krishna R.; et al., 91e:68021
- Kouvatos, Demetres D. (with Xenios, Nikos P.) MEM for arbitrary queueing networks with multiple general servers and repetitive-service blocking. 91a:68018
- see also Tomaras, Panagiotis J., 91m:68018
- Lehoczy, John P. see Sha, Lai; et al., 91j:68018
- Liu, Zhen see Baccelli, François, (Not in MR)
- McKenna, James A new proof and a tree algorithm for RECAL. 91a:68019
- Moran, Shlomo see Biran, Ofer; et al., 91f:68010
- Nishimura, Shōichi see Hirayama, Tetsuji; et al., 91b:68016
- Ouvural, Ralf O. A note on the product form solutions of multiclass closed queueing networks with blocking. 91a:68020
- Önyüksel, Ibrahim H. (with Irani, Keki B.) Markovian queueing network models for performance analysis of a single-bus multiprocessor system. (Not in MR)
- Panisher, A. V. see Varakin, A. S., (Not in MR)
- Pattipati, Krishna R. (with Kostreva, M. M.; Teele, J. L.) Approximate mean value analysis algorithms for queueing networks: existence, uniqueness, and convergence results. 91e:68021
- Pinsker, M. S. see Vvedenskaya, N. D., 91h:68021
- Porodnikov, V. D. (with Porodnikova, N. I.) A probabilistic model that characterizes the functioning of a multi-user computer center. (Russian) (see 91j:60001)
- Porodnikova, N. I. see Porodnikov, V. D., (91j:60001)
- Pourbahi, Behnam A finite capacity telecommunication system with repeated calls. (German and Russian summaries) 91a:68021
- Rajkumar, Ragunathan see Sha, Lai; et al., 91j:68018
- Rego, Vernon Some efficient computational algorithms related to phase models. 91a:68022
- Robertazzi, Thomas G. see Wang, Irving Y., (Not in MR)
- Rubin, Izhak (with Zhang, Zhensheng) Performance analysis on test scheduling schemes for a multi-access communications network. 91m:68016
- Seger, C.-J. see Brzozowski, J. A., 91g:68017
- Sha, Lai (with Rajkumar, Ragunathan; Lehoczy, John P.) Priority inheritance protocols: an approach to real-time synchronization. 91j:68018
- Shedler, Gerald S. see Haas, Peter J., 91c:68005
- Shepp, Larry A. see Chen, Robert W., 91m:68014
- Shin, Kang G. see Chen, Ming-Syan, 91f:68011
- Stern, Thomas E. (with Elwalid, Anwar I.) Analysis of separable Markov-modulated rate models for information-handling systems. 91m:68017
- Sztrik, János (with Gal, T.) A queueing model for a terminal system subject to breakdowns. 91a:68023
- (with Gal, T.) A recursive solution of a queueing model for a multi-terminal system subject to breakdowns. (Not in MR)
- Takagi, Hideaki see Takine, Tetsuya; et al., 91h:68020
- Takahashi, Yutaka³ see Takine, Tetsuya; et al., 91h:68020
- Takine, Tetsuya (with Takagi, Hideaki; Takahashi, Yutaka³; Hasegawa, Toshiharu) Analysis of asymmetric single-buffer polling and priority systems without switchover times. 91h:68020
- Teale, J. L. see Pattipati, Krishna R.; et al., 91e:68021
- Thomopoulos, Stellos C. A. A certainty equivalence principle based nonlinear separation control rule for random access channels: stability and delay analysis. (Not in MR)
- Tomaras, Panagiotis J. (with Kouvatos, Demetres D.) MRE hierarchical decomposition of general queueing network models. 91m:68018
- Varakin, A. S. (with Panishev, A. V.) An upper bound on the schedule length in a two-level multiprocessor system. (Russian. English summary) (Not in MR)
- Vvedenskaya, N. D. (with Pinsker, M. S.) A throughput estimate for FCFS multiple access algorithms. 91h:68021
- Wang, Chien Min (with Wang, Sheng Tè) Structured partitioning of concurrent programs for execution on multiprocessors. (Not in MR)
- Wang, Irving Y. (with Robertazzi, Thomas G.) Service stage Petri net models with product form solution. (Not in MR)
- Wang, Sheng Tè see Wang, Chien Min, (Not in MR)
- Wang, Yung Terng see Kaufman, J. S., (Not in MR)
- Xenios, Nikos P. see Kouvatos, Demetres D., 91a:68018
- Zaks, Shmuel see Biran, Ofer; et al., 91f:68010
- Zhang, Zhensheng see Rubin, Izhak, 91m:68016

Items with secondary classifications in 68M20

- Alyshkin, V. A. (with Basharin, G. P.) Insensitivity of a model of a multiprocessor system. (Russian) (see 91e:60003)
- Ajmone Marsan, M. Stochastic Petri nets: an elementary introduction. (see 91h:68002)
- (with Chiola, Giovanni; Fumagalli, A.) Improving the efficiency of the analysis of DSPN models. (see 91b:68002)
- Akyildiz, I. F. (with von Brand, Horst) Dual and selfdual networks of queues with rejection blocking. (German summary) 91h:68023
- van Arem, B. (with van Doorn, Erik A.; Meijer, T. M. J.) Queueing analysis of a discrete closed-loop conveyor with service facilities. 91d:60249
- Baccelli, François (with Massey, William A.; Towsley, Donald F.) Acyclic fork-join queueing networks. (Not in MR)
- Basharin, G. P. (with Bocharov, P. P.; Kogan, Ya. A.) ★ Анализ очереди в вычислительных сетях. (Russian) [Analysis of queues in computer networks] 91f:60157
- see also Alyshkin, V. A., (91e:60003)
- Bastani, F. B. (with Chen, L.-R.; Hilal, W.) A model for the stability analysis of maintenance strategies for linear list. (Not in MR)
- Bhatt, Sandeep N. (with Chung, Fan R. K.; Rosenberg, Arnold L.) Partitioning circuits for improved testability. 91j:68047
- Blondia, C. A finite capacity multi-queueing system with priorities and with repeated server vacations. 91g:60105
- Bobbio, Andrea (with Trivedi, Kishor S.) Computation of the distribution of the completion time when the work requirement is a PH random variable. 91e:60251
- Bocharov, P. P. see Basharin, G. P.; et al., 91f:60157
- Boxma, Onno J. see Levy, Hanoch; et al., 91f:60172
- von Brand, Horst see Akyildiz, I. F., 91h:68023
- Bui, Marc Réglage pour un fonctionnement optimal d'un réseau de processeurs en algorithmique distribuée. (English summary) [Control for the optimal operation of a processor network in distributed computing] (Not in MR)
- Can, Xi-Ren Realization probability and throughput sensitivity in a closed Jackson network. 91d:60229
- Charron-Bost, Bernadette Concerning the size of clocks. (see 91h:68016)
- Chen, L.-R. see Bastani, F. B.; et al., (Not in MR)
- Chiola, Giovanni see Ajmone Marsan, M.; et al., (91b:68002)
- Chung, Fan R. K. see Bhatt, Sandeep N.; et al., 91j:68047
- Coffman, E. G., Jr. (with Leighton, Frank Thomson) A provably efficient algorithm for dynamic storage allocation. 91a:68123
- (with Flatto, Leopold; Gaver, D. P., Jr.) Height distributions in data communication buffers with locking protocols. (Not in MR)
- Conway, Adrian E. (with Georganas, Nicolas D.) ★ Queueing networks—exact computational algorithms. 91e:60265
- Crosby, Simon (with Krzesinski, Anthony E.) Product form solutions for multiserver centres with concurrent classes of customers. (Not in MR)
- Deilbroeck, L. E. N. Interdeparture times in M/G/1 queueing systems with nonpreemptive priority discipline. 91c:60122
- van Dijk, Nico M. Mixed parallel processors with interdependent blocking. (Not in MR)
- Queueing systems with restricted workload: an explicit solution. 91h:90039
- (with Rumsewicz, Michael) Networks of queues with service anticipating routing. (Not in MR)
- see also Henderson, William; et al., 91h:60102
- van Doorn, Erik A. see van Arem, B.; et al., 91d:60249
- Elayed, E. A. see Kao, Tien Y., 91f:90061
- El Taha, Muhammad (with Heath, John R.) A model of channel allocation in local networks. 91m:90069
- Finkel, David see Gelenbe, Erol, 91f:60165
- Flatto, Leopold see Coffman, E. G., Jr.; et al., (Not in MR)
- Fumagalli, A. see Ajmone Marsan, M.; et al., (91b:68002)
- Gaver, D. P., Jr. see Coffman, E. G., Jr.; et al., (Not in MR)
- Gelenbe, Erol (with Finkel, David) Stationary deterministic flows. II. The single-server queue. 91f:60165
- Georganas, Nicolas D. see Conway, Adrian E., 91e:60265

- Gibbens, R. J. (with Hunt, P. J.; Kelly, Frank P.) Bistability in communication networks. 91h:60110
- Glasserman, Paul The limiting value of derivative estimators based on perturbation analysis. 91h:60243
- Goes, Paulo B. see Sumita, Ushio; et al., 91a:60051
- Grishpan, L. A. ★ Методы анализа стохастических сетевых моделей вычислительных систем. (Russian) [Methods for analyzing stochastic network models of computer systems] 91h:60244
- Halfin, Shlomo Next-fit bin packing with random piece sizes. 91f:68087
- Heath, John R. see El Taha, Muhammad, 91m:90069
- Henderson, William (with Lucic, D.; Taylor, Peter Gerrard) A net level performance analysis of stochastic Petri nets. 91d:60237
- (with Pearce, C. E. M.; Taylor, Peter Gerrard; van Dijk, Nico M.) Closed queueing networks with batch services. 91h:60102
- (with Taylor, Peter Gerrard) Product form in networks of queues with batch arrivals and batch services. 91h:60103
- Hilal, W. see Bastani, F. B.; et al., (Not in MR)
- Hopp, Wallace J. (with Simon, John T.) Bounds and heuristics for assembly-like queues. 91a:60242
- Hsiao, Man-tung T. (with Lazar, Aurel A.) A game theoretic approach to decentralized flow control of Markovian queueing networks. 91a:60243
- (with Lazar, Aurel A.) An extension to Norton's equivalent. 91g:60107
- Hunt, P. J. see Gibbens, R. J.; et al., 91h:60110
- Ivantskii, V. A. A condition for the invariance of stationary probabilities of states for networks of single-server queueing systems. 91f:60168
- Jacquet, Philippe (with Szpankowski, Wojciech) Ultimate characterizations of the burst response of an interval searching algorithm: a study of a functional equation. 91f:68089
- Kaio, Naoto see Sumita, Ushio; et al., 91a:60051
- Kao, Tien Y. (with Elsayed, E. A.) Performance of the LPT algorithm in multiprocessor scheduling. 91f:90061
- Kelly, Frank P. see Ziedias, I. B., 91f:60183 and Gibbens, R. J.; et al., 91h:60110
- Kipnis, C. (with Robert, Philippe) A dynamic storage process. 91c:60138
- Kleinrock, Leonard see Rosenberg, Catherine; et al., (Not in MR)
- Kneissl, Charles (with Tier, Charles) Asymptotic expansions for large closed queueing networks. 91h:60251
- Kogan, Ya. A. see Basharin, G. P.; et al., 91f:60157
- Kouvasos, Demetres D. (with Tabet-Aouel, Nasreddine) A maximum entropy priority approximation for a stable $G/G/1$ queue. 91f:90054
- Kruglyi, Z. L. (with Murshstein, M. S.) Computational algorithms for optimizing closed queueing networks. 91h:60253
- Krzyszinski, Anthony E. see Crosby, Simon, (Not in MR)
- Lazar, Aurel A. see Hsiao, Man-tung T., 91a:60243 and 91g:60107
- Leighton, Frank Thomson see Coffman, E. G., Jr., 91a:68123
- Levy, Hanoach (with Sidi, Moshe; Boxma, Onno J.) Dominance relations in polling systems. 91f:60172
- Lucic, D. see Henderson, William; et al., 91d:60237
- Machihara, Fumiaki A new approach to the fundamental period of a queue with phase-type Markov renewal arrivals. 91h:60255
- Mansey, William A. see Baccelli, François; et al., (Not in MR)
- Mazumdar, Ravi see Rosenberg, Catherine; et al., (Not in MR)
- Meijer, T. M. J. see van Arem, B.; et al., 91d:60249
- Murshstein, M. S. see Kruglyi, Z. L., 91h:60253
- O'Connell, Colin Art Characterization of phase-type distributions. 91h:60258
- Ozawa, Toshihisa Alternating service queues with mixed exhaustive and K -limited services. 91f:60259
- Papir, Zdzisław Power optimization in a window-controlled virtual route using busy-idle period analysis. (Not in MR)
- Pearce, C. E. M. see Henderson, William; et al., 91h:60102
- Pourbaba, Behnam Tandem behavior of a telecommunication system with finite buffers and repeated calls. (Not in MR)
- Rege, Kiran M. (with Sengupta, Bhaskar) A single server queue with gated processor-sharing discipline. 91c:60280
- Reiman, Martin L. (with Simon, Burton) A network of priority queues in heavy traffic: one bottleneck station. 91a:60176
- Robert, Philippe see Kipnis, C., 91c:60138
- Rosenberg, Arnold L. see Bhatt, Sandeep N.; et al., 91j:68047
- Rosenberg, Catherine (with Mazumdar, Ravi; Kleinrock, Leonard) On the analysis of exponential queueing systems with randomly changing arrival rates: stability conditions and finite buffer scheme with a resume level. (Not in MR)
- Rumewicz, Michael see van Dijk, Nico M., (Not in MR)
- Salte, Hiroshi? The departure process of an $N/G/1$ queue. (Not in MR)
- Sengupta, Bhaskar see Rege, Kiran M., 91c:60280
- Shamsiev, R. N. Mixing properties for hybrid switching networks on an infinite one-dimensional lattice. (Russian) (see 91g:60003)
- Sidi, Moshe see Levy, Hanoach; et al., 91f:60172
- Simon, Burton see Reiman, Martin L., 91a:60176
- Simon, John T. see Hopp, Wallace J., 91a:60242
- Sumita, Ushio (with Kaio, Naoto; Goes, Paulo B.) Analysis of effective service time with age dependent interruptions and its application to optimal rollback policy for database management. 91a:68051
- Szpankowski, Wojciech see Jacquet, Philippe, 91f:68089
- Tabet-Aouel, Nasreddine see Kouvasos, Demetres D., 91f:90054
- Taylor, Peter Gerrard see Henderson, William; et al., 91d:60237; 91h:60102 and 91h:60103
- Tedjanto Exact results for the cyclic-service queue with a Bernoulli schedule. (Not in MR)
- Tier, Charles see Kneissl, Charles, 91h:60251
- Towsley, Donald F. see Baccelli, François; et al., (Not in MR)
- Trivedi, Kishor S. see Bobbio, Andrea, 91c:60251
- van der Wal, Jan Monotonicity of the throughput of a closed exponential queueing network in the number of jobs. (German summary) 91a:60267
- Yuan, Shyan Ming The communication complexity for decentralized evaluation of functions. 91g:68053
- Ziedias, I. B. (with Kelly, Frank P.) Limit theorems for loss networks with diverse routing. 91f:60183

68M99 None of the above, but in this section

Simon, Hans-Ulrich Approximation algorithms for channel assignment in cellular radio networks. 91a:68024

Items with secondary classifications in 68M99

(Maslov, V. P.) see Mathematical aspects of computer engineering, 91c:00022
(Voslov, K. A.) see Mathematical aspects of computer engineering, 91c:00022
(Yankovskii, E. M.) see Mathematical aspects of computer engineering, 91c:00022

Items listed otherwise than by author

Mathematical aspects of computer engineering ★ Mathematical aspects of computer engineering. 91c:00022

68Nxx Software

68N05 General theory of programming

- Akama, Yoji see Takeichi, Masato, (Not in MR)
- Anderson, A. P. see Steier, D. M., 91a:68027
- Bazdin, G. Ya. (with Bul'nikov, M. A.) Partial computations and decomposition of programs. 91g:68018
- Bird, Richard S. Lectures on constructive functional programming. 91c:68006
- Boyan, E. T. Correctness of the transformation of structured programs into functionally structured programs. (Russian) (Not in MR)
- Bul'nikov, M. A. see Bazdin, G. Ya., 91g:68018
- Buza, M. K. (with Moshchenskii, V. A.) On the cardinality of a set of programs. (Russian) (Not in MR)
- Fergács, István ★ Double iterative framework for flow-sensitive interprocedural data flow analysis. (Not in MR)
- Féthi, Akos A mathematical approach to programming. (Not in MR)
- Galushka, A. V. see Tseitlin, G. E., 91k:68025
- Kimber, Edm B. Syntactical inductive synthesis of iterative programs. (Russian summary) 91k:68023
- Kur'michev, A. S. Numerical models with several quality criteria. (Russian) (see 91f:90004)
- Liu, Hui Min (with Pang, Min Zhi) A categorical semantics of multiple inheritance. (Not in MR)
- Manakova, E. I. (with Nikitchenko, N. S.) Representation, by systems of recurrence relations, of functions that can be given by standard program schemes. (Russian) 91a:68025
- Marlowe, T. J. (with Ryder, Barbara G.) Properties of data flow frameworks. A unified model. 91j:68019
- Moshchenskii, V. A. see Buza, M. K., (Not in MR)
- Nikitchenko, N. S. see Manakova, E. I., 91a:68025
- Pang, Min Zhi see Liu, Hui Min, (Not in MR)
- Partsch, Helmut A. ★ Specification and transformation of programs. 91m:68019
- Pettorossi, Alberto Derivation of efficient programs for computing sequences of actions. 91h:68022
- Pfenning, Frank Program development through proof transformation. 91g:68019
- Prikhod'ko, P. P. A possible formal formulation of a problem in automated program design. (Russian) 91a:68026
- Ryder, Barbara G. see Marlowe, T. J., 91j:68019
- Sarkisyan, A. A. A problem on the construction of a complete system of examples for a class of simple programs. (Russian. Armenian summary) 91k:68024
- Steier, D. M. (with Anderson, A. P.) ★ Algorithm synthesis: a comparative study. 91a:68027
- Takeichi, Masato (with Akama, Yoji) Deriving a functional Knuth-Morris-Pratt algorithm by transformation. (Not in MR)
- Tseitlin, G. E. (with Galushka, A. V.) Algorithmic mobility of programs. 91k:68025
- Val'kovskii, V. A. ★ Распараллеливание алгоритмов и программ. (Russian) [Parallelization of algorithms and programs] 91a:68028
- Wadler, Philip Deforestation: transforming programs to eliminate trees. 91h:68022
- Zhelyabin, V. N. On the theory of the structural synthesis of programs. I. (Russian) (Not in MR)
- Zimmermann, Wolf ★ Die Verwendung mehrwertiger und nicht-monotoner Logiken zur Programmkonstruktion. (German) [The use of many-valued and nonmonotonic logics in program construction] 91a:68029
- Zubovich, K. A. Construction of predicate transformers and the generation of minimal solutions of linear functional equations in a functional programming system. (Russian) (Not in MR)

Items with secondary classifications in 68N05

Anisimov, A. V. Recursive information converters. (Russian) 91h:68075
Arakshyan, V. V. The structural model of a "user-computer" interaction in cybernetic systems. (Russian) 91a:68254

Back, R. J. R. (with Sere, K.) Stepwise refinement of parallel algorithms. 91c:68066
Baker-Finch, Clement A. The (algebraic) congruence of two programming language definitions. 91f:68091

Bellegarde, Françoise A matching process modulo a theory of categorical products. (see 91g:68001)

Bellot, Patrick (with Sarni, Djamil) Proposal for a natural formalization of functional programming concepts. (French summary) 91a:68175

(Bergstra, J. A.) see Algebraic specification, 91a:68193

Blikle, Andrzej Denotational engineering. 91f:68132

- Căzănescu, Virgil Emil (with Ungureanu, C.) The free algebraic structure of flowcharts. 91c:68081
- (with Stăfănescu, Gheorghe) Towards a new algebraic foundation of flowchart scheme theory. (Not in MR)
- Chandy, K. Mani Reasoning about continuous systems. 91j:68083
- (Church, A.) see Trakhtenbrot, Boris A., (91b:03004)
- Dowling, William F. There are no safe virus tests. 91c:68101
- Dybjer, Peter Comparing integrated and external logics of functional programs. 91g:68113
- Ershov, A. P. ★ Origins of programming. 91b:68001
- Gaisaryan, S. S. (with Lastovetskiĭ, A. L.) Calculus of propositional properties of programs. 91k:68132
- Gardiner, P. H. B. see Morgan, C. Carroll, 91c:68111
- Giegerich, Robert Code selection by inversion of order-sorted derivators. 91m:68112
- Gorlach, S. P. Generation of parallel programs from nonprocedural specifications. (Not in MR)
- Gorshkov, P. V. Rational data structures and their applications. 91c:68102
- Gribomont, E. Pascal Stepwise refinement and concurrency: the finite-state case. 91j:68084
- (Heering, Jan) see Algebraic specification, 91a:68193
- Hehner, Eric C. R. A practical theory of programming. 91m:68120
- Hoogerwoord, Robert Richard ★ The design of functional programs: a calculational approach. 91h:68126
- Jacob, Jeremy Separability and the detection of hidden channels. (Not in MR)
- Jiang, Ming De (with Liu, Jian Fu) γ -calculus semantics of functional programming language FFP. (Not in MR)
- Kanovich, M. I. Efficient program synthesis in computational models. 91f:68198
- (Klint, Paul) see Algebraic specification, 91a:68193
- Lastovetskiĭ, A. L. see Gaisaryan, S. S., 91k:68132
- Letchevskii, Aleksandr Adol'fovich Mixed computations and optimization of programs. 91g:68048
- Lewington, Christopher P. Towards constructive program derivation in VDM. 91j:68087
- Lisovik, L. P. Standard schemes with stacks. (Russian. English summary) 91d:68090
- Liu, Jian Fu see Jiang, Ming De, (Not in MR)
- Morgan, C. Carroll (with Gardiner, P. H. B.) Data refinement by calculation. 91c:68111
- Nguyen Huu Chien (with Varga, László) Algebraic specification of an abstract high-level debugger. (Not in MR)
- Pettorossi, Alberto (with Skowron, Andrzej) The lambda abstraction strategy for program derivation. 91c:68108
- (with Skowron, Andrzej) The power of the lambda abstraction strategy for program derivation. (German and Russian summaries) 91a:68189
- Reddy, Uday S. Rewriting techniques for program synthesis. (see 91f:68006)
- Rittri, Mikael Retrieving library identifiers via equational matching of types. (see 91g:68044)
- Sarni, Djamil see Bellot, Patrick, 91a:68175
- Schwartzbach, Michael I. Infinite values in hierarchical imperative types. (see 91c:68005)
- Segerberg, Krister Bringing it about. 91c:03027
- Sere, K. see Back, R. J. R., 91c:68066
- Shkifnyak, S. S. A study of program algebras of functions of natural variables and values. (Russian) 91h:68028
- (Silverman, Robert H.) see Ershov, A. P., 91b:68001
- Skowron, Andrzej see Pettorossi, Alberto, 91a:68189 and 91c:68108
- Stăfănescu, Gheorghe see Căzănescu, Virgil Emil, (Not in MR)
- Trakhtenbrot, Boris A. Comparing the Church and Turing approaches: two prophetic messages. (see 91b:03004)
- (Turing, Alan M.) see Trakhtenbrot, Boris A., (91b:03004)
- Ungureanu, C. see Căzănescu, Virgil Emil, 91c:68081
- Varga, László see Nguyen Huu Chien, (Not in MR)
- Vree, Willem G. Implementations of parallel graph reduction by explicit annotation and program transformation. (see 91h:68011)

Items listed otherwise than by author

Algebraic specification ★ Algebraic specification. 91a:68193

68N15 Programming languages

- Aronsson, Martin (with Eriksson, Lars-Henrik; Hallnäs, Lars; Kreuger, Per) A survey of GCLA: a definitional approach to logic programming. (see 91k:68007)
- (de Bakker, J. W.) see Languages for parallel architectures, 91m:68021
- Bruce, Kim B. (with Longo, Giuseppe¹) A modest model of records, inheritance, and bounded quantification. (Not in MR)
- Bui, D. B. (with Pogoyan, V. V.) On the mutual nonderivability of compositions in the minimal compositional language MCL. 91g:68020
- Barton, F. W. (with McKeown, G. P.; Rayward-Smith, V. J.) Applications of UET scheduling theory to the implementation of declarative languages. (Not in MR)
- Carpentieri, B. (with Mou, G.) A formal approach to divide-and-conquer parallel computation and its applications on the Connection Machine. 91j:68020
- Chikayama, Takashi see Ueda, Kazumori, (Not in MR)
- Derot, Benoît see de La Croix Vaubois, Gaël, et al., (91h:68013)
- Eriksson, Lars-Henrik see Aronsson, Martin, et al., (91k:68007)
- Facon, Philippe (with Keller, Yo) Set oriented languages and program transformations. (Not in MR)
- Goad, Chris Metaprogramming in SIL. (see 91a:03002)
- Hallnäs, Lars see Aronsson, Martin, et al., (91k:68007)
- Keller, Yo see Facon, Philippe, (Not in MR)
- Kleine Büning, Hans (with Löwen, Ulrich) Towards average complexity of propositional binary Prolog programs. 91m:68020
- Kreuger, Per see Aronsson, Martin, et al., (91k:68007)
- de La Croix Vaubois, Gaël (with Moulinoux, Catherine; Derot, Benoît) The N programming language. (see 91h:68013)
- Longo, Giuseppe¹ see Bruce, Kim B., (Not in MR)

- Losev, I. S. The language of paragraphs (the language of parallel operations over graphs) and the architecture of a parallel computer. (Russian) (Not in MR)
- Löwen, Ulrich see Kleine Büning, Hans, 91m:68020
- McKeown, G. P. see Burton, F. W.; et al., (Not in MR)
- Montenyohl, Margaret (with Wand, Mitchell) Incorporating static analysis in a combinator-based compiler. 91f:68013
- Mou, G. see Carpentieri, B., 91j:68020
- Moulinoux, Catherine see de La Croix Vaubois, Gaël, et al., (91h:68013)
- Novitzka, Valéria Formal semantics of Anna packages. (Not in MR)
- Pogoyan, V. V. see Bui, D. B., 91g:68020
- Rayward-Smith, V. J. see Burton, F. W.; et al., (Not in MR)
- Reynolds, John C. Syntactic control of interference. II. 91a:68030
- Sacca, Domenico (with Zaniolo, Carlo) Rule transformation methods in the implementation of logic based languages. (see 91b:68009)
- Sanderson, John G. Relator calculus. 91g:68021
- Sestoft, Peter see Søndergaard, Harald, 91c:68023
- Søndergaard, Harald (with Sestoft, Peter) Referential transparency, definiteness and unfoldability. 91c:68023
- Ueda, Kazumori (with Chikayama, Takashi) Design of the kernel language for the parallel inference machine. (Not in MR)
- Wand, Mitchell see Montenyohl, Margaret, 91f:68013
- Wolff, J. G. Simplicity and power—some unifying ideas in computing. (Not in MR)
- Zaniolo, Carlo see Sacca, Domenico, (91b:68009)

Items listed otherwise than by author

Languages for parallel architectures ★ Languages for parallel architectures. 91m:68021

Items with secondary classifications in 68N15

- Buza, M. K. (with Moshchenskii, V. A.) On the cardinality of a set of programs. (Russian) (Not in MR)
- Camilleri, Juanito An operational semantics for occam. (Not in MR)
- Clarke, Edmund M. see German, Steven M.; et al., 91f:68145
- Felleisen, Matthias On the expressive power of programming languages. (see 91a:68003)
- Fernando, Tim see Leivant, Daniel, 91f:68147
- Fredlund, Lars-Åke (with Jonsson, Bengt; Parrow, Joachim) An implementation of a translational semantics for an imperative language. (see 91g:68003)
- Frumkin, M. A. ★ Системные вычисления. (Russian) [Systolic computations] 91h:68003
- German, Steven M. (with Clarke, Edmund M.; Halpern, Joseph Y.) Reasoning about procedures as parameters in the language LA. 91f:68145
- Grabowski, Michał Open problems related to axiomatic descriptions of programs. (German and Russian summaries) 91f:68134
- Greenlaw, Raymond (with Snyder, Lawrence) Achieving speedups for APL on an SIMD distributed memory machine. 91m:68049
- Hagiya, Masami Meta-circular interpreter for a strongly typed language. (Not in MR)
- Halpern, Joseph Y. see German, Steven M.; et al., 91f:68145
- Hayashi, Susumu (with Nakano, Hiroshi) ★ PX: a computational logic. 91d:68084
- Jonsson, Bengt see Fredlund, Lars-Åke; et al., (91g:68003)
- Kleine Büning, Hans (with Löwen, Ulrich; Schmitgen, Stefan) Equivalence of propositional Prolog programs. 91c:68065
- Koyman, Ronald Leo Christiaan ★ Specifying message passing and time-critical systems with temporal logic. 91a:03036
- Krivine, Jean-Louis (with Parigot, Michel) Programming with proofs. (German and Russian summaries) 91j:68006
- Leivant, Daniel (with Fernando, Tim) Meager and replete failures of relative completeness. 91f:68147
- Lisovik, L. P. Algebras for semilinear transducers over marked trees. (Russian) 91a:68180
- Löwen, Ulrich see Kleine Büning, Hans; et al., 91f:68065
- (Marcus, Solomon) see Mateescu, Alexandru, 91c:68091
- Mateescu, Alexandru (with Vaida, Dragoș) ★ Structuri matematice discrete. (Romanian) [Discrete mathematical structures] 91c:68091
- Moggi, Eugenio A category-theoretic account of program modules. 91a:68182
- Moshchenskii, V. A. see Buza, M. K., (Not in MR)
- Nakano, Hiroshi see Hayashi, Susumu, 91d:68084
- Parigot, Michel see Krivine, Jean-Louis, 91j:68006
- Parrow, Joachim see Fredlund, Lars-Åke; et al., (91g:68003)
- Pearce, David (with Wagner, Gerd) Logic programming with strong negation. (see 91k:68007)
- Sato, Taisuke (with Tamaki, Hisao) First order compiler: a deterministic logic program synthesis algorithm. (Not in MR)
- Schmitgen, Stefan see Kleine Büning, Hans; et al., 91f:68065
- Snyder, Lawrence see Greenlaw, Raymond, 91m:68049
- Tamaki, Hisao see Sato, Taisuke, (Not in MR)
- Tennent, R. D. Elementary data structures in ALGOL-like languages. (Not in MR)
- Vaida, Dragoș see Mateescu, Alexandru, 91c:68091
- Vree, Willem G. Implementations of parallel graph reduction by explicit annotation and program transformation. (see 91h:68011)
- Wagner, Eric G. On declarations. 91h:68075
- All recursive types defined using products and sums can be implemented using pointers. 91m:68127
- Wagner, Gerd see Pearce, David, (91k:68007)
- Wand, Mitchell A short proof of the lexical addressing algorithm. 91f:68142

68N17 Logic programming

- Andreoli, Jean-Marc (with Pareschi, Remo) Logic programming with sequent systems: a linear logic approach. (see 91k:68007)
- Andrews, James H. Predicates as parameters in logic programming: a set-theoretic basis. (see 91k:68007)
- Bancilhon, François see Beeri, Catriel; et al., 91f:68014

- Baral, Chitta (with Lobo, Jorge; Minker, Jack) Generalized disjunctive well-founded semantics for logic programs: procedural semantics. (see 91k:68014)
- (with Lobo, Jorge; Minker, Jack) Generalized disjunctive well-founded semantics for logic programs: declarative semantics. (see 91k:68014)
- Batarekh, Aida (with Subrahmanian, V. S.) Topological model set deformations in logic programming. 91d:68003
- Beeri, Catriel (with Kanellakis, Paris C.; Bancilhon, François; Ramakrishnan, Raghu) Bounds on the propagation of selection into logic problems. 91f:68014
- Bidoit, N. (with Legay, P.) WELL: an evaluation procedure for all logic programs. (see 91h:68010)
- Brogli, Antonio (with Lamma, Evelina; Mello, Paola) Hypothetical reasoning in logic programming: a semantic approach. 91f:68012
- Bronsard, François (with Reddy, Uday S.) Axiomatization of a functional logic language. (see 91g:68001)
- Clark, K. L. Parallel logic programming. (Not in MR)
- Dowling, William F. (with Kline, Robert) The fixed points of logic programs with Herbrand base N. 91j:68021
- Fujita, Masahiro see Nakamura, Hiroshi; et al., (91k:68011)
- Gabbay, D. M. Modal provability foundations for negation by failure. (see 91k:68007)
- Gabbriellini, Maurizio (with Levi, Giorgio) Unfolding and fixpoint semantics of concurrent constraint logic programs. (see 91g:68001)
- Ganter, Elsa L. Extensions to logic programming motivated by the construction of a generic theorem prover. (see 91k:68007)
- Kanchanasut, Kanchana (with Stuckey, Peter) Eliminating negation from normal logic programs. (see 91g:68001)
- Kanellakis, Paris C. see Beeri, Catriel; et al., 91f:68014
- Kline, Robert see Dowling, William F., 91j:68021
- Kono, Shinji see Nakamura, Hiroshi; et al., (91k:68011)
- Krisačuk, Valentinas Dynamic logic in the form of logic programs. (Russian. English and Lithuanian summaries) (Not in MR)
- Lamma, Evelina see Brogli, Antonio; et al., 91f:68012
- Legay, P. see Bidoit, N., (91h:68010)
- Levi, Giorgio see Gabbriellini, Maurizio, (91g:68001)
- Lobo, Jorge see Baral, Chitta; et al., (91k:68014) and (91k:68014)
- Mello, Paola see Brogli, Antonio; et al., 91f:68012
- Minker, Jack see Baral, Chitta; et al., (91k:68014); (91k:68014) and Subrahmanian, V. S., (91k:68014)
- Nakai, Masaya see Nakamura, Hiroshi; et al., (91k:68011)
- Nakamura, Hiroshi (with Fujita, Masahiro; Nakai, Masaya; Kono, Shinji; Tanaka, Hidehiko) Logic design assistance using temporal logic based language Tokio. (see 91k:68011)
- Nie, Xunlin Complexities of non-Horn clause logic programming. (see 91k:68014)
- Pareschi, Remo see Andreoli, Jean-Marc, (91k:68007)
- Paulson, Lawrence C. (with Smith, Andrew W.) Logic programming, functional programming, and inductive definitions. (see 91k:68007)
- Pearce, David (with Wagner, Gerd) Logic programming with strong negation. (see 91f:68007)
- Phan Minh Dung On the strong completion of logic programs. (see 91g:68001)
- Ramakrishnan, Raghu see Beeri, Catriel; et al., 91f:68014
- Reddy, Uday S. see Bronsard, François, (91g:68001)
- Sato, Taisuke An equivalence preserving first order unfold/fold transformation system. (see 91g:68001)
- Schroeder-Heister, Peter Hypothetical reasoning and definitional reflection in logic programming. (see 91k:68007)
- Smith, Andrew W. see Paulson, Lawrence C., (91k:68007)
- Stärk, Robert F. A quantifier-free completion of logic programs. (see 91g:03006)
- Štěpánek, Petr see Štěpánková, Olga, (91g:03006)
- Štěpánková, Olga (with Štěpánek, Petr) Stratification of definite clause programs and of general logic programs. (see 91g:03006)
- Stuckey, Peter see Kanchanasut, Kanchana, (91g:68001)
- Subrahmanian, V. S. (with Minker, Jack) Completion semantics for general and disjunctive logic programs. (see 91k:68014)
- see also Batarekh, Aida, 91d:68003
- Takagi, Toshihisa see Zhou, Neng Fa; et al., (Not in MR)
- Tanaka, Hidehiko see Nakamura, Hiroshi; et al., (91k:68011)
- Ushijima, Kazuo see Zhou, Neng Fa; et al., (Not in MR)
- Van Hentenryck, Pascal ★ Constraint satisfaction in logic programming. 91f:68015
- de Vink, E. P. Comparative semantics for PROLOG with cut. 91f:68016
- Wagner, Gerd see Pearce, David, (91k:68007)
- Zhou, Neng Fa (with Ushijima, Kazuo; Takagi, Toshihisa) Bidirectional inference of mode information for logic programs. (Not in MR)
- Items with secondary classifications in 68N17**
- Akama, Seiki (with Ohnishi, Hiroto) Outline of epistemic knowledge base. (see 91k:68014)
- Apt, Krzysztof R. see Bol, Roland N.; et al., 91g:68112
- Aronsson, Martin (with Eriksson, Lars-Henrik; Hallnäs, Lars; Kreuger, Per) A survey of GCLA: a definitional approach to logic programming. (see 91k:68007)
- Aniello, Giorgio (with Nanni, Umberto; Italiano, Giuseppe F.) Dynamic maintenance of directed hypergraphs. 91g:68130
- de Bakker, J. W. (with Kok, Joost N.) Comparative metric semantics for concurrent Prolog. 91k:68117
- Barbuti, Roberto (with Martelli, Maurizio) Recognizing nonfloundering logic programs and goals. (Not in MR)
- Batarekh, Aida Fixpoint techniques for nonmonotone maps. (see 91g:68001)
- Beeson, Michael J. Some applications of Gentzen's proof theory in automated deduction. (see 91k:68007)
- Bilhard, Michel Simple operational and denotational semantics for Prolog with cut. 91e:68102
- Bol, Roland N. (with Apt, Krzysztof R.; Klop, Jan Willem) On the power of subsumption and context checks. 91g:68112
- Börger, Egon A logical operational semantics of full Prolog. I. Selection core and control. (see 91g:03006)
- A logical operational semantics of full Prolog. II. Built-in predicates for database manipulations. (see 91h:68011)
- Cavedon, Lawrence Continuity, consistency, and completeness properties for logic programs. 91a:68248
- Ceri, Stefano (with Gottlob, Georg; Tanca, Letizia) ★ Logic programming and databases. 91e:68036
- Corradini, Andrea (with Montanari, Ugo) Towards a process semantics in the logic programming style. 91g:68104
- Debart, Françoise (with Enjalbert, Patrice; Lescot, Madeleine) Multi-modal logic programming using equational and order-sorted logic. (see 91g:68001)
- Demo, Barbara (with Porta, Marisa; Sapino, Maria Luisa) Efficiency and completeness properties of the counting method. (Russian summary) 91a:68249
- Dong, Fangqing (with Nakagawa, Hiroshi) Semantics of nonmonotonic reasoning based on perfect model. (see 91k:68011)
- Enjalbert, Patrice see Debart, Françoise; et al., (91g:68001)
- Eriksson, Lars-Henrik see Aronsson, Martin; et al., (91k:68007)
- Falaschi, Moreno (with Levi, Giorgio; Palamidessi, Catuscia; Martelli, Maurizio) Declarative modeling of the operational behavior of logic languages. 91e:68130
- Felty, Amy (with Miller, Dale A.) Encoding a dependent-type λ -calculus in a logic programming language. (see 91g:68004)
- A logic program for transforming sequent proofs to natural deduction proofs. (see 91k:68007)
- Gardarin, Georges (with Guessarian, Irène; de Maindreville, Christophe) Translation of logic programs into functional fixpoint equations. 91d:68111
- Gavrilenco, Yu. V. Applications of Cooper algebras to the theory of tail recursion in logic programming. 91g:68106
- Gottlob, Georg see Ceri, Stefano; et al., 91e:68036
- Grabowski, Jan Grundlagen der logischen Programmierung. [Foundations of logic programming] (see 91f:68002)
- Guessarian, Irène see Gardarin, Georges; et al., 91d:68111
- Hallnäs, Lars see Aronsson, Martin; et al., (91k:68007)
- Hildobler, Steffen ★ Foundations of equational logic programming. 91e:68131
- Horn, Christian ★ Deduktive Programmierung. (German) [Deductive programming] 91e:03030
- Hric, Jan see Ochazka, Vít; et al., 91a:68250
- Hudelmaier, Jörg A decision procedure for propositional N-Prolog. (see 91k:68007)
- Huynh, Tien (with Joskowicz, Leo; Lassez, Catherine; Lassez, Jean-Louis) Reasoning about linear constraints using parametric queries. 91j:68119
- Italiano, Giuseppe F. see Aniello, Giorgio; et al., 91g:68130
- Joskowicz, Leo see Huynh, Tien; et al., 91j:68119
- Kanchanasut, Kanchana see Phan Minh Dung, 91d:68113
- (Kirchner, Hélène) see Algebraic and logic programming. 91g:68001
- Klop, Jan Willem see Bol, Roland N.; et al., 91g:68112
- Knight, Kevin Unification: a multidisciplinary survey. 91g:68142
- Kok, Joost N. see de Bakker, J. W., 91k:68117
- Kreuger, Per see Aronsson, Martin; et al., (91k:68007)
- Kumar, Vipin see Lia, Yow-Jian, (Not in MR)
- Kuper, Gabriel M. Logic programming with sets. 91k:68033
- Lassez, Catherine see Huynh, Tien; et al., 91j:68119
- Lassez, Jean-Louis see Huynh, Tien; et al., 91j:68119
- Lescot, Madeleine see Debart, Françoise; et al., (91g:68001)
- Levi, Giorgio see Falaschi, Moreno; et al., 91e:68130
- Lia, Yow-Jian (with Kumar, Vipin) And-parallel execution of logic programs on a shared-memory multiprocessor. (Not in MR)
- Lobo, Jorge (with Minker, Jack; Rajasekar, Arcot) Extending the semantics of logic programs to disjunctive logic programs. 91a:68181
- Longo, Giuseppe¹ (with Moggi, Eugenio) A category-theoretic characterization of functional completeness. 91g:03036
- de Maindreville, Christophe see Gardarin, Georges; et al., 91d:68111
- Martelli, Maurizio see Falaschi, Moreno; et al., 91e:68130 and Barbuti, Roberto, (Not in MR)
- Miller, Dale A. A logic programming language with lambda-abstraction, function variables, and simple unification. (see 91k:68007)
- see also Felty, Amy, (91g:68004)
- Minker, Jack (with Rajasekar, Arcot) A fixpoint semantics for disjunctive logic programs. 91e:68132
- see also Lobo, Jorge; et al., 91a:68181
- Mints, Grigori Efimovich Several formal systems of the logic programming. (Russian summary) 91d:68107
- (with Tyugu, E. H.) Propositional logic programming and the PRIZ system. 91e:68133
- Moggi, Eugenio see Longo, Giuseppe¹, 91g:03036
- Montanari, Ugo see Corradini, Andrea, 91g:68104
- Murakami, Masaki A declarative semantics of flat guarded Horn clauses for programs with perpetual processes. 91k:68125
- Nakagawa, Hiroshi see Dong, Fangqing, (91k:68011)
- Nanni, Umberto see Aniello, Giorgio; et al., 91g:68130
- Ochazka, Vít (with Štěpánková, Olga; Štěpánek, Petr; Hric, Jan) Normal forms and the complexity of computations of logic programs. 91a:68250
- Ohnishi, Hiroto see Akama, Seiki, (91k:68014)
- Palamidessi, Catuscia On the declarative semantics of Horn clause logic-based languages. 91e:68107
- Algebraic properties of idempotent substitutions. (see 91e:68004)
- see also Falaschi, Moreno; et al., 91e:68130
- Phan Minh Dung (with Kanchanasut, Kanchana) A natural semantics for logic programs with negation. 91d:68113
- Pilmer, Lutz Predicate inequalities as a basis for automated termination proofs for Prolog programs. 91a:68251
- ★ Termination proofs for logic programs. 91k:68026

- Porta, Marisa *see* Demo, Barbara; et al., 91a:68249
- Przymusińska, Halina (with Przymusiński, Teodor C.) Semantic issues in deductive databases and logic programs. (see 91g:68007)
- (with Przymusiński, Teodor C.) Weakly stratified logic programs. 91h:68123
- Przymusiński, Teodor C. *see* Przymusińska, Halina, 91h:68123 and (91g:68007)
- Rajasekar, Arcot *see* Lobo, Jorge; et al., 91a:68181 and Minker, Jack, 91c:68132
- Ramanujam, R. Semantics of distributed definite clause programs. 91f:68053
- Sacks, Gerald E. Prolog programming. (see 91e:03006)
- Sapino, Maria Luisa *see* Demo, Barbara; et al., 91a:68249
- Sato, Taisuke Completed logic programs and their consistency. (Not in MR)
- (Schroeder-Heister, Peter) *see* Extensions of logic programming, 91k:68007
- Shapiro, Ehud *see* Yardeni, Eyal, (Not in MR)
- Shepherdson, John C. Unsolvability problems for SLDNF resolution. 91h:68134
- Sigal, Ron Logic programming extensions of Horn clause logic. (Not in MR)
- Soskov, Ivan N. On the computational power of the logic programs. 91m:03049
- Stépánek, Petr *see* Ochotzka, Vít; et al., 91a:68250
- Stépánková, Olga *see* Ochotzka, Vít; et al., 91a:68250
- Subrahmanian, V. S. A ring-theoretic basis for logic programming. 91e:68134
- Errata: "A ring-theoretic basis for logic programming" [Internat. J. Found. Comput. Sci. 1 (1990), no. 1, 23–48; MR 91c:68134]. (Not in MR)
- Taghva, Kazem (with Wu, Tian-Zheng) On the equivalence of a class of purely exponential logic queries to linear queries. 91h:68109
- Tanaka, Takashi Definite-clause set grammars: a formalism for problem solving. (Not in MR)
- Tanca, Letizia *see* Ceri, Stefano; et al., 91e:68036
- Tyugu, E. H. *see* Mints, Grigoriĭ Efremovich, 91c:68133
- (Wechler, Wolfgang) *see* Algebraic and logic programming, 91g:68001
- Wu, Tian-Zheng *see* Taghva, Kazem, 91h:68109
- Yamaguchi, Jinsei The classification and boundary problem. (see 91k:68011)
- Yardeni, Eyal (with Shapiro, Ehud) A type system for logic programs. (Not in MR)
- You, Jia-Huai *see* Yuan, Li-Yan, 91j:68121
- Yuan, Li-Yan (with You, Jia-Huai) Discriminant circumscription. 91j:68121
- Items listed otherwise than by author
- Algebraic and logic programming ★ Algebraic and logic programming. 91g:68001
- Conference:
- Algebraic and Logic Programming ★ Algebraic and logic programming. 91g:68001
- Extensions of logic programming ★ Extensions of logic programming. 91k:68007
- Lecture Notes in Computer Science ★ Algebraic and logic programming. 91g:68001
- ★ Extensions of logic programming. 91k:68007
- Nancy ★ Algebraic and logic programming. 91g:68001
- Tübingen ★ Extensions of logic programming. 91k:68007
- Workshop:
- Extensions of Logic Programming ★ Extensions of logic programming. 91k:68007

68N20 Compilers and generators [see also 68Q52]

- Arcangeli, Jean-Paul (with Pomian, Christian) Principles of plasma pattern and alternative structure compilation. (Not in MR)
- Boian, F. M. A translator for syntactic bidirectional analysis. (Not in MR)
- Bul'nikov, M. A. Mixed computation and compilation: new approaches to old problems. 91e:68024
- Munshi, Ashfaq A. (with Simons, Barbara) Scheduling sequential loops on parallel processors. (Not in MR)
- Pflüger, Lutz ★ Termination proofs for logic programs. 91k:68026
- Pomian, Christian *see* Arcangeli, Jean-Paul, (Not in MR)
- Sato, Taisuke (with Tamaki, Hisao) First order compiler: a deterministic logic program synthesis algorithm. (Not in MR)
- Simons, Barbara *see* Munshi, Ashfaq A., (Not in MR)
- Tamaki, Hisao *see* Sato, Taisuke, (Not in MR)

Items with secondary classifications in 68N20

- Despland, Annie (with Mazaud, Monique; Rakotozafy, Raymond) Using rewriting techniques to produce code generators and proving them correct. 91k:68131
- Giegerich, Robert Code selection by inversion of order-sorted derivators. 91m:68112
- de Jong, V. J. ★ A specification system for statistical software. 91a:62002
- Marlowe, T. J. (with Ryder, Barbara G.) Properties of data flow frameworks. A unified model. 91j:68019
- Mazaud, Monique *see* Despland, Annie; et al., 91k:68131
- Montenyohl, Margaret (with Wand, Mitchell) Incorporating static analysis in a combinator-based compiler. 91f:68013
- Rakotozafy, Raymond *see* Despland, Annie; et al., 91k:68131
- Ryder, Barbara G. *see* Marlowe, T. J., 91j:68019
- Wand, Mitchell A short proof of the lexical addressing algorithm. 91f:68142
- *see also* Montenyohl, Margaret, 91f:68013

68N25 Monitors and operating systems

- Ahja, Mohan (with Zhu, Yahui) An $O(n \log n)$ feasibility algorithm for preemptive scheduling of n independent jobs on a hypercube. (Not in MR)
- Andrews, Gregory R. A method for solving synchronization problems. (Not in MR)
- Chan, Chin K'o A single-key access control scheme in information protection systems. (Not in MR)
- (with Chang, Chén Ch'eng; Wu, Ling-Hua) An arithmetic coding oriented single key access control scheme. (Not in MR)
- Chang, Chén Ch'eng *see* Chan, Chin K'o; et al., (Not in MR)
- Georgakopoulos, George (with Kavadias, Dimitris) The banker's problem with precedences. 91a:68031
- Herlihy, Maurice Apologizing versus asking permission: optimistic concurrency control for abstract data types. (Not in MR)

- Kakeshita, Tetsuro (with Kambayashi, Yahiko) Optimal concurrency control schedulers in terms of secondary storage access. (Not in MR)
- Kambayashi, Yahiko *see* Kakeshita, Tetsuro, (Not in MR)
- Kavadias, Dimitris *see* Georgakopoulos, George, 91a:68031
- Panwar, Shivendra S. (with Towsley, Donald F.; Wolf, Jack Keil) Optimal scheduling policies for a class of queues with customer deadlines to the beginning of service. (Not in MR)
- Towsley, Donald F. *see* Panwar, Shivendra S.; et al., (Not in MR)
- Wolf, Jack Keil *see* Panwar, Shivendra S.; et al., (Not in MR)
- Wu, Ling-Hua *see* Chan, Chin K'o; et al., (Not in MR)
- Zhu, Yahui *see* Ahja, Mohan, (Not in MR)

Items with secondary classifications in 68N25

- Ahamad, Mustaque *see* Bernabé-Aubán, José M., 91a:68069
- Bandyopadhyay, Subir *see* Sengupta, Abhijit, (Not in MR)
- Bernabé-Aubán, José M. (with Ahamad, Mustaque) Applying a path-compression technique to obtain an efficient distributed mutual exclusion algorithm. 91a:68069
- Best, Elke (with Lengauer, Christian) Semantic independence. 91c:68023
- Block, Kenneth (with Woo, Tai-Kuo) A more efficient generalization of Peterson's mutual exclusion algorithm. (Not in MR)
- Bui, Marc On optimal management of resources in distributed networks. (Not in MR)
- Réglae pour un fonctionnement optimal d'un réseau de processeurs en algorithmique distribuée. (English summary) [Control for the optimal operation of a processor network in distributed computing] (Not in MR)
- Christienne, Philippe Task scheduling over distributed memory machines. 91c:68046
- David, George I. (with Desmedt, Yvo G.) Cryptography based data security. 91h:68039
- Desmedt, Yvo G. *see* David, George I., 91h:68039
- Herlihy, Maurice Concurrency and availability as dual properties of replicated atomic data. (Not in MR)
- Ibaraki, Toshihide *see* Li, Ji Gai, (Not in MR)
- Kawaguchi, Tsuyoshi (with Taniguchi, Yuji; Kyan, Seiki) Scheduling jobs on a multiprocessor system with a common memory. (Not in MR)
- Kim, Myunghwan *see* Park, Moon Hwa, (Not in MR)
- Klrousis, Leftis M. (with Kranakis, Evangelos) A brief survey of concurrent readers and writers. 91e:68045
- Kranakis, Evangelos *see* Klrousis, Leftis M., 91e:68045
- Kyan, Seiki *see* Kawaguchi, Tsuyoshi; et al., (Not in MR)
- Lengauer, Christian *see* Best, Elke, 91c:68023
- Li, Ji Gai (with Ibaraki, Toshihide) Distributed database concurrency control by cautious schedulers with a central clock site. (Not in MR)
- Liu, Zhen A note on Graham's bound. 91j:68054
- Luby, Michael (with Rackoff, Charles) A study of password security. 91a:68053
- Manasse, Mark S. (with McGeoch, Lyle A.; Sleator, Daniel D.) Competitive algorithms for server problems. 91h:68072
- Martin, Alain J. (with van de Snepscheut, Jan L. A.) Design of synchronization algorithms. 91a:68079
- McGeoch, Lyle A. *see* Manasse, Mark S.; et al., 91h:68072
- Park, Moon Hwa (with Kim, Myunghwan) A distributed synchronization scheme for fair multi-process handshakes. (Not in MR)
- Rackoff, Charles *see* Luby, Michael, 91a:68053
- Sauer, Norbert W. (with Stone, M. G.) Preemptive scheduling. 91h:90049
- Sengupta, Abhijit (with Bandyopadhyay, Subir) Deadlock-free routing in k -ary hypercube network in presence of processor failures. (Not in MR)
- Sleator, Daniel D. *see* Manasse, Mark S.; et al., 91h:68072
- van de Snepscheut, Jan L. A. *see* Martin, Alain J., 91a:68079
- Stone, M. G. *see* Sauer, Norbert W., 91h:90049
- Taniguchi, Yuji *see* Kawaguchi, Tsuyoshi; et al., (Not in MR)
- Woo, Tai-Kuo *see* Block, Kenneth, (Not in MR)

68N99 None of the above, but in this section

- Hamlet, Richard G. (with Taylor, Ross) Partition testing does not inspire confidence. (Not in MR)
- Taylor, Ross *see* Hamlet, Richard G., (Not in MR)

Items with secondary classifications in 68N99

- Singurwalla, Nozer D. Preposterior analysis in software testing. (see 91h:62004)

68Pxx Theory of data

Items with secondary classifications in 68Pxx

- Smith, Jeffrey D. ★ Design and analysis of algorithms. 91h:68002

68P05 Data structures

- Agarwal, Pankaj K. *see* van Kreveld, Marc J.; et al., (91e:68016)
- Aidarkhanov, M. B. Some metric properties of the space of classifications. (Russian) (Not in MR)
- Andersson, Arne Optimal bounds on the dictionary problem. 91c:68007
- (with Lai, Tony W.) Fast updating of well-balanced trees. (see 91e:68016)
- (with Icking, Christian; Klein, Rolf; Ottmann, Thomas) Binary search trees of almost optimal height. 91j:68022
- (with Carlsson, Svante) Construction of a tree from its traversals in optimal time and space. 91e:68006
- Baeza-Yates, Ricardo A. Expected behaviour of B^+ -trees under random insertions. 91e:68025
- (with Gonnet, Gaston H.; Ziviani, Nivio) Expected behaviour analysis of AVL trees. (see 91e:68016)
- Barucci, Elena *see* Sprugnoli, Renzo; et al., 91c:68009

- Bastani, F. B. (with Chen, L.-R.; Hilal, W.) A model for the stability analysis of maintenance strategies for linear list. (Not in MR)
- Bauernöppel, Frank A parallel dictionary with good amortized behavior. (German and Russian summaries) 91a:68032
- Bent, Samuel W. Ranking trees generated by rotations. (see 91a:68016)
- Bollobas, Bela (with Broder, Andrei Z.; Simon, Istvan) The cost distribution of clustering in random probing. 91f:68017
- Broder, Andrei Z. see Bollobas, Bela; et al., 91f:68017
- Carlsson, Svante (with Chen, Jingsen; Strothotte, Thomas) A note on the construction of the data structure "deap". 91a:68033
- see also Andersson, Arne, 91c:68008
- Chen, L.-R. see Bastani, F. B.; et al., (Not in MR)
- Chen, Jingsen see Carlsson, Svante; et al., 91a:68033
- Ching, Yu Tai (with Mehlhorn, Kurt; Smid, Michiel H. M.) Dynamic deferred data structuring. (Not in MR)
- Chideri, Alessandra see Sprugnoli, Renzo; et al., 91c:68009
- Chrobak, Marek (with Szymacha, T.; Krawczyk, Adam) A data structure useful for finding Hamiltonian cycles. 91e:68026
- Culberson, Joseph (with Munro, J. Ian) Analysis of the standard deletion algorithms in exact fit domain binary search trees. 91g:68022
- Devroye, Luc (with Laforest, Louise) An analysis of random d -dimensional quad trees. 91f:68018
- Dietz, Paul F. (with Zhang, Ju) Lower bounds for monotonic list labeling. (see 91e:68016)
- Eirund, Helmut MARS—multimedia archiving and retrieval system. (Not in MR)
- van Emde Boas, Peter see Smid, Michiel H. M.; et al., 91d:68005
- Franois, J. (with Randrianarimanana, B.; Schott, René) Dynamic data structures with finite population: a combinatorial analysis. 91a:68034
- Gabow, Harold N. (with Galil, Zvi; Spencer, Thomas H.) Efficient implementation of graph algorithms using contraction. 91i:68013
- Galbisse, C. (with Gambosi, Giorgio; Talamo, Maurizio) A partially persistent data structure for the set-union problem. (French summary) (Not in MR)
- Gall, Zvi see Gabow, Harold N.; et al., 91i:68013
- Gambosi, Giorgio see Talamo, Maurizio, 91f:68020 and Galbisse, C.; et al., (Not in MR)
- Gonnet, Gaston H. see Baeza-Yates, Ricardo A.; et al., (91e:68016)
- Gudyreva, E. M. (with Tsalenko, M. Sh.) An algebra of hierarchical data structures. (Not in MR)
- Hansen, Eldon R. see Oommen, B. John; et al., 91g:68024
- Hilal, W. see Bastani, F. B.; et al., (Not in MR)
- Houben, Gerard Johan Peter Marie ★ An algebra and a message oriented language for a data model based on complex objects. 91h:68023
- Huang, Shou-Hsuan (with Viswanathan, Venkatraman) On the construction of weighted time-optimal B-trees. 91a:68035
- Icking, Christian see Andersson, Arne; et al., 91j:68022
- Kapoor, Sanjiv (with Reingold, Edward M.) Optimum lopsided binary trees. 91g:68023
- (with Reingold, Edward M.) Stochastic rearrangement rules for self-organizing data structures. 91k:68027
- Kirschenhofer, Peter (with Proding, Helmut; Szpankowski, Wojciech) On the variance of the external path length in a symmetric digital trie. 91h:68017
- (with Proding, Helmut; Szpankowski, Wojciech) On the balance property of Patricia tries: external path length viewpoint. 91a:68036
- Klein, Rolf (with Wood, Derick) On the path length of binary trees. 91e:68027
- see also Andersson, Arne; et al., 91j:68022
- Krawczyk, Adam see Chrobak, Marek; et al., 91e:68026
- van Kreveld, Marc J. (with Overmars, Mark H.; Agarwal, Pankaj K.) Intersection queries in sets of disks. (see 91e:68016)
- Laforest, Louise see Devroye, Luc, 91f:68018
- Lai, Tony W. (with Wood, Derick) Updating almost complete trees or one level makes all the difference. 91f:68019
- see also Andersson, Arne, (91e:68016)
- Lamb, David Alex Specification of iterators. (Not in MR)
- Langenhof, Carl E. (with Wright, William E.) A model of the dynamic behavior of B-trees. 91h:68018
- Levcopoulos, Christos (with Lingas, Andrzej; Sack, Jörg-Rüdiger) Heuristics for optimum binary search trees and minimum weight triangulation problems. 91e:68028
- Lingas, Andrzej see Levcopoulos, Christos; et al., 91e:68028
- Louchard, Guy (with Randrianarimanana, B.; Schott, René) Dynamic algorithms in D. E. Knuth's model: a probabilistic analysis. 91d:68004
- Lucas, Joan M. Postorder disjoint set union is linear. 91e:68029
- Maier, Robert S. The asymptotic evolution of data structures. (see 91m:68002)
- Matallach, Gabriel Performance analysis of file organizations that use multi-bucket data leaves. 91f:68014
- Mehlhorn, Kurt (with Näher, Stefan) Bounded ordered dictionaries in $O(\log \log N)$ time and $O(n)$ space. (Not in MR)
- see also Ching, Yu Tai; et al., (Not in MR)
- Meyer auf der Heide, Friedhelm Dynamic hashing strategies. 91h:68015
- Milewski, Jaroslaw Functional data structures as updatable objects. (Not in MR)
- Munro, J. Ian see Culberson, Joseph, 91g:68022 and Oommen, B. John; et al., 91g:68024
- Murphy, O. J. A unifying framework for trie design heuristics. (Not in MR)
- Näher, Stefan see Mehlhorn, Kurt, (Not in MR)
- Newman, Ilan (with Ragde, Prabhakar; Wigderson, Avi) Perfect hashing, graph entropy, and circuit complexity (preliminary version). (see 91h:68006)
- Nothmeier, Hartmut Dynamic partial orders and generalized heaps. (German summary) 91e:68030
- Oommen, B. John (with Hansen, Eldon R.; Munro, J. Ian) Deterministic optimal and expedient move-to-root list organizing strategies. 91g:68024
- Ottmann, Thomas (with Wood, Derick) How to update a balanced binary tree with a constant number of rotations. (see 91e:68016)
- see also Andersson, Arne; et al., 91j:68022
- Overmars, Mark H. see Smid, Michiel H. M.; et al., 91d:68005; van Kreveld, Marc J.; et al., (91e:68016) and Schipper, Haljo, (91e:68016)
- Pallo, J. M. A distance metric on binary trees using lattice-theoretic measures. 91e:68031
- Pinzani, Renzo see Sprugnoli, Renzo; et al., 91c:68009
- Proding, Helmut see Kirschenhofer, Peter; et al., 91a:68036 and 91b:68017
- Ragde, Prabhakar see Newman, Ilan; et al., (91h:68006)
- Randrianarimanana, B. see Franois, J.; et al., 91a:68034 and Louchard, Guy; et al., 91d:68004
- Reingold, Edward M. see Kapoor, Sanjiv, 91g:68023 and 91k:68027
- Sack, Jörg-Rüdiger (with Strothotte, Thomas) A characterization of heaps and its applications. 91g:68025
- see also Levcopoulos, Christos; et al., 91c:68028
- Schipper, Haljo (with Overmars, Mark H.) Dynamic partition trees. (see 91e:68016)
- Schmidt, Jeanette P. (with Siegel, Alan) The spatial complexity of oblivious k -probe hash functions. 91e:68032
- Schott, René Combinatorial techniques in computer science. 91h:68016
- see also Franois, J.; et al., 91a:68034 and Louchard, Guy; et al., 91d:68004
- Shasha, Dennis see Zhang, Kaizhong, 91c:68010
- Siegel, Alan see Schmidt, Jeanette P., 91e:68032
- Simon, Istvan see Bollobas, Bela; et al., 91f:68017
- Smid, Michiel H. M. (with Overmars, Mark H.; Torenvliet, Leen; van Emde Boas, Peter) Maintaining multiple representations of dynamic data structures. 91d:68005
- see also Ching, Yu Tai; et al., (Not in MR)
- Spencer, Thomas H. see Gabow, Harold N.; et al., 91i:68013
- Sprugnoli, Renzo (with Barucci, Elena; Chideri, Alessandra; Pinzani, Renzo) On some properties of (a, b) -trees. 91c:68009
- Counting labels in binary trees. 91c:68037
- Strothotte, Thomas see Carlsson, Svante; et al., 91a:68033 and Sack, Jörg-Rüdiger, 91g:68025
- Szpankowski, Wojciech see Kirschenhofer, Peter; et al., 91a:68036 and 91b:68017
- Szymacha, T. see Chrobak, Marek; et al., 91e:68026
- Talamo, Maurizio (with Gambosi, Giorgio) An application of m -ary trees to the design of data structures for geometric searching problems. (French summary) 91f:68020
- see also Galbisse, C.; et al., (Not in MR)
- Torenvliet, Leen see Smid, Michiel H. M.; et al., 91d:68005
- Tsalenko, M. Sh. see Gudyreva, E. M., (Not in MR)
- Vaidya, Pravin M. Space-time trade-offs for orthogonal range queries. 91d:68006
- Viswanathan, Venkatraman see Huang, Shou-Hsuan, 91a:68035
- Wang, Xiao Ji On the costs of optimal TH-trees. (Chinese. English summary) 91b:68019
- Wigderson, Avi see Newman, Ilan; et al., (91h:68006)
- Winters, Vincent G. Minimal perfect hashing for large sets of data. (see 91m:68002)
- Wood, Derick see Klein, Rolf, 91e:68027; Lai, Tony W., 91f:68019 and Ottmann, Thomas, (91e:68016)
- Wright, William E. see Langenhof, Carl E., 91h:68018
- Zhang, Ju see Dietz, Paul F., (91e:68016)
- Zhang, Kaizhong (with Shasha, Dennis) Simple fast algorithms for the editing distance between trees and related problems. 91c:68010
- Ziviani, Nivio see Baeza-Yates, Ricardo A.; et al., (91e:68016)

Items with secondary classifications in 68P05

- Ausiello, Giorgio (with Nanni, Umberto; Italiano, Giuseppe F.) Dynamic maintenance of directed hypergraphs. 91g:68130
- Awerbuch, Baruch (with Bar-Noy, Amotz; Linial, Nathan; Peleg, David) Compact distributed data structures for adaptive routing. 91c:68002
- Baeza-Yates, Ricardo A. see Manber, Udi, 91m:68025
- Bar-Noy, Amotz see Awerbuch, Baruch; et al., 91c:68002
- Bruce, Kim B. (with Longo, Giuseppe) A modest model of records, inheritance, and bounded quantification. (Not in MR)
- Chazelle, Bernard Lower bounds on the complexity of polytope range searching. 91a:68122
- Lower bounds for orthogonal range searching. II. The arithmetic model. 91h:68163
- Coffman, E. G., Jr. (with Flatto, Leopold; Leighton, Frank Thomson) First-fit allocation of queues: tight probabilistic bounds on wasted space. 91m:68075
- Coulbourn, Charles J. (with Van Oorschot, Paul C.) Applications of combinatorial designs in computer science. 91g:68078
- Dechter, Rina Decomposing a relation into a tree of binary relations. 91m:68030
- Dehne, Frank (with Rau-Chaplin, Andrew) Implementing data structures on a hypercube multiprocessor, and applications in parallel computational geometry. (see 91b:68006)
- Dietzfelbinger, Martin (with Meyer auf der Heide, Friedhelm) A new universal class of hash functions and dynamic hashing in real time. (see 91e:68004)
- Dubhash, Pratul Some comments on: "On the subtree isomorphism problem for ordered trees" [Inform. Process. Lett. 32 (1989), no. 5, 271–273; MR 90k:68139] by E. Mäkinen. 91m:68143
- Flatto, Leopold see Coffman, E. G., Jr.; et al., 91m:68075
- Frederickson, Greg N. (with Rodger, Susan) A new approach to the dynamic maintenance of maximal points in a plane. 91b:68115
- Gambosi, Giorgio (with Italiano, Giuseppe F.; Talamo, Maurizio) Worst-case analysis of the set-union problem with extended backtracking. 91a:68112
- Ghelli, Giorgio A class abstraction for a hierarchical type system. 91h:68122
- Günther, Oliver ★ Efficient structures for geometric data management. 91d:68126
- Horowitz, Ellis (with Sahni, Sartaj) ★ Fundamentals of data structures in Turbo Pascal. 91h:68001
- Italiano, Giuseppe F. see Gambosi, Giorgio; et al., 91a:68112 and Ausiello, Giorgio; et al., 91g:68130
- Jiang, Zheng Z -tree structures and a parallel algorithm for updating minimum spanning trees. (Chinese. English summary) (Not in MR)
- Leighton, Frank Thomson see Coffman, E. G., Jr.; et al., 91m:68075
- Linial, Nathan see Awerbuch, Baruch; et al., 91c:68002
- Longo, Giuseppe¹ see Bruce, Kim B., (Not in MR)
- (Mäkinen, Erkki) see Dubhash, Pratul, 91m:68143
- Manber, Udi (with Baeza-Yates, Ricardo A.) An algorithm for string matching with a sequence of don't cares. 91m:68025

- Mehlhorn, Kurt (with Näher, Stefan; Rauch, M.) On the complexity of a game related to the dictionary problem. 91f:68093
- Meyer auf der Heide, Friedhelm see Dietzfelbinger, Martin, (91e:68004)
- Näher, Stefan see Mehlhorn, Kurt; et al., 91f:68093
- Nanni, Umberto see Ausiello, Giorgio; et al., 91g:68130
- van Oorschot, Paul C. see Colbourn, Charles J., 91g:68078
- Overmars, Mark H. (with Schipper, Haijo; Sharir, Micha) Storing line segments in partition trees. 91e:68147
- Peleg, David see Awerbuch, Baruch; et al., 91c:68002
- Preparata, Franco P. (with Tamassia, Roberto) Dynamic planar point location with optimal query time. 91j:68129
- Rauch, M. see Mehlhorn, Kurt; et al., 91f:68093
- Rau-Chaplin, Andrew see Dehne, Frank, (91b:68006)
- Rival, Ivan Graphical data structures for ordered sets. 91k:06007
- Rodger, Susan see Frederickson, Greg N., 91b:68115
- Sahni, Sartaj see Horowitz, Ellis, 91b:68001
- Schipper, Haijo see Overmars, Mark H.; et al., 91e:68147
- Sharir, Micha see Overmars, Mark H.; et al., 91e:68147
- Talamo, Maurizio see Gambosi, Giorgio; et al., 91a:68112
- Tamassia, Roberto see Preparata, Franco P., 91j:68129
- Vegter, Gert The visibility diagram: a data structure for visibility problems and motion planning. (see 91e:68016)

Items listed otherwise than by author

Lecture Notes in Computer Science see Günther, Oliver, 91d:68126

68P10 Searching and sorting

- Ajtai, Miklós (with Karabeg, D.; Komlós, János; Szemerédi, Endre) Sorting in average time $O(\log n)$. 91a:68038
- Akl, Selim G. (with Dehne, Frank) The complexity of parallel search on coarse grained networks. (see 91a:68006)
- Altman, Tom (with Chlebus, Bogdan S.) Sorting roughly sorted sequences in parallel. (Not in MR)
- Anderson, Richard John (with Miller, Gary L.) A simple randomized parallel algorithm for list-ranking. (Not in MR)
- Aoe, Junichi A fast digital search algorithm using a double-array structure. (Not in MR)
- Azar, Yossi (with Pippenger, Nicholas) Parallel selection. 91m:68022
- Baeza-Yates, Ricardo A. (with Gonnet, Gaston H.) Average case analysis of algorithms using matrix recurrences. (see 91m:68002)
- Searching subsequences. 91k:68028
- see also Manber, Uri, 91m:68025
- Bar-Noy, Amotz (with Naor, Joseph) Sorting, minimal feedback sets, and Hamilton paths in tournaments. 91d:68007
- Beigel, Richard (with Gill, John T., III) Sorting n objects with a k -sorter. (Not in MR)
- Unbounded searching algorithms. 91f:68021
- de Berg, Mark T. see Overmars, Mark H.; et al., 91g:68029
- Boett, Javier (with Péraire, Jaime) An alternating digital tree (ADT) algorithm for 3D geometric searching and intersection problems. (Not in MR)
- Briggs, David A. A correction of the termination conditions of the Henschen-Naqvi technique. 91j:68023
- Bugrara, Khaled M. (with Pan, Youfang; Purdom, Paul Walton, Jr.) Exponential average time for the pure literal rule. 91f:68022
- Bui, T. D. see Manacher, Glenn K.; et al., 91g:68028
- Carlsson, Svante (with Levopoulos, Christos; Petersson, Ola) Sublinear merging and natural merge sort. (see 91g:68002)
- Chaiken, Seth see Wee, Young C.; et al., 91e:68033
- Chakrabarti, P. P. see Sarkar, U. K.; et al., 91m:68027
- Chang, Chén Ch'eng (with Chen, C. Y.) A note on allocating k -ary multiple key hashing files among multiple disks. (Not in MR)
- Chen, C. Y. see Chang, Chén Ch'eng. (Not in MR)
- Chen, Calvin Ching-Yuen (with Das, Sajal K.) Parallel breadth-first and breadth-depth traversals of general trees. (see 91m:68002)
- Chen, Guo Liang² (with Shen, Hong²) A bitonic selection algorithm on multiprocessor system. (Not in MR)
- Chen, Lian² Efficient deterministic parallel algorithms for integer sorting. (see 91m:68002)
- Chlebus, Bogdan S. Sorting within distance bound on a mesh-connected processor array. 91c:68011
- see also Altman, Tom, (Not in MR)
- Chung, Moon Jung (with Ravikumar, Bala) Bounds on the size of test sets for sorting and related networks. 91g:68026
- Colomb, Robert M. Enhancing unification in PROLOG through clause indexing. (Not in MR)
- Cosnard, Michel Yves (with Duprat, Jean; Ferreira, Afonso Galvao) The complexity of searching in $X + Y$ and other multisets. 91f:68023
- Craus, Mitica Systolic implementation of the topological sorting problem. (Romanian summary) (Not in MR)
- Cunto, Walter (with Munro, J. Ian) Average case selection. 91f:68024
- Das, Sajal K. see Chen, Calvin Ching-Yuen, (91m:68002)
- Dehne, Frank see Akl, Selim G., (91a:68006)
- Demidenko, V. M. (with Shevchenko, L. I.) Efficiency of realizations of lexicographic sortings on vector-pipeline computers. (Russian) (Not in MR)
- De Sarkar, S. C. see Sarkar, U. K.; et al., 91m:68027
- Dietz, Paul F. (with Raman, Rajeev) A constant update time finger search tree. (see 91m:68002)
- Dietzfelbinger, Martin Lower bounds for sorting of sums. 91d:68008
- (with Meyer auf der Heide, Friedhelm) A new universal class of hash functions and dynamic hashing in real time. (see 91e:68004)
- Dowd, Martin (with Peri, Yehoshua; Rudolph, Larry; Saks, Michael) The periodic balanced sorting network. (Not in MR)
- Driscoll, James R. see Lang, Sheau-Dong; et al., (Not in MR)
- Dunn, Stephen M. see Varman, Peter J.; et al., (Not in MR)
- Dunne, Paul E. Comment on M. Kochol's paper: "Efficient monotone circuits for threshold functions" [Inform. Process. Lett. 32 (1989), no. 3, 121-122; MR 90h:68061]. 91f:68025
- Duprat, Jean see Cosnard, Michel Yves; et al., 91f:68023
- Estivill-Castro, Vladimir (with Wood, Derick) A new measure of presortedness. 91f:68026
- Ferreira, Afonso Galvao see Cosnard, Michel Yves; et al., 91f:68023
- Fuller, Roy J. Formal derivation of interconnection schema for parallel computation. 91a:68039
- Gannett, Ethan (with Kothari, Suresh C.; Yen, Hsu-Chun) On optimal parallelization of sorting networks. 91h:68024
- Gasanov, E. E. Some estimates for the complexity of an information search. (Russian) (see 91k:00013)
- Ghose, S. see Sarkar, U. K.; et al., 91m:68027
- Gill, John T., III see Beigel, Richard, (Not in MR)
- Gonnet, Gaston H. see Baeza-Yates, Ricardo A., (91m:68002)
- Guzicki, Wojciech Ulam's searching game with two lies. 91f:68027
- Haderle, Donald J. see Varman, Peter J.; et al., (Not in MR)
- Hagerup, Torben (with Rüb, Christine) Optimal merging and sorting on the EREW PRAM. 91c:68012
- (with Shen, Hong²) Improved nonconservative sequential and parallel integer sorting. 91h:68025
- Han, Yijie (with Igarashi, Yoshihide) Time lower bounds for sorting on multi-dimensional mesh-connected processor arrays. 91g:68027
- Handley, C. C. A space efficient distributive sort. (Not in MR)
- Heinz, Alois P. Finding two-tree-factor elements of tableau-defined monoids in time $O(n^2)$. (see 91m:68002)
- Hofri, Micha (with Shachnai, Hadas) On the optimality of the counter scheme for dynamic linear lists. (Not in MR)
- Hofstee, H. Peter (with Martin, Alain J.; van de Snepscheut, Jan L. A.) Distributed sorting. (Not in MR)
- Huang, Jan Hsiung (with Kleinrock, Leonard) Optimal parallel merging and sorting algorithms using \sqrt{N} processors without memory contention. (Not in MR)
- Igarashi, Yoshihide see Han, Yijie, 91g:68027
- Ito, Minoru (with Kasami, Tadao) Optimizing universal queries in relational databases. (Not in MR)
- Iyer, Balakrishna R. see Varman, Peter J.; et al., (Not in MR)
- Jagadish, H. V. A compression technique to materialize transitive closure. (Not in MR)
- Jou, Jiann H. see Lang, Sheau-Dong; et al., (Not in MR)
- Karabeg, D. see Ajtai, Miklós; et al., 91a:68038
- Kasami, Tadao see Ito, Minoru, (Not in MR)
- Katajainen, Jyrki (with Levopoulos, Christos; Petersson, Ola) Local insertion sort revisited. 91c:68013
- Kemp, Rainer Binary search trees for d -dimensional keys. (German and Russian summaries) 91a:68040
- Khmeľnik, S. I. Search procedures with geometric codes. (Not in MR)
- Kirschenhofer, Peter (with Prodinger, Helmut) b -tries: a paradigm for the use of number-theoretic methods in the analysis of algorithms. 91m:68023
- (with Prodinger, Helmut) Eine Anwendung der Theorie der Modulfunktionen in der Informatik. [Application of the theory of modular functions in information science] 91c:68014
- Klavžar, Sandi (with Marinček, Jože) Bottom-up heapsort. (Slovenian. English summary) (Not in MR)
- Kleinrock, Leonard see Huang, Jan Hsiung, (Not in MR)
- Jagadish, H. V. see Dunne, Paul E., 91f:68025
- Komlós, János see Ajtai, Miklós; et al., 91a:68038
- Kothari, Suresh C. see Gannett, Ethan; et al., 91h:68024
- van Kreveld, Marc J. see Overmars, Mark H.; et al., 91g:68029
- Lambert, Jean-Luc Sorting the sums $(x_i + y_j)$ in $O(n^2)$ comparisons. (see 91h:68011)
- Lang, Sheau-Dong (with Driscoll, James R.; Jou, Jiann H.) A unified analysis of batched searching of sequential and tree-structured files. (Not in MR)
- Analysis of recursive batched interpolation search. 91a:68041
- Levopoulos, Christos (with Petersson, Ola) A note on adaptive parallel sorting. 91c:68015
- (with Petersson, Ola) Split-sort—an adaptive sorting algorithm. (see 91h:68011)
- (with Petersson, Ola) Sorting shuffled monotone sequences. (see 91e:68016)
- see also Katajainen, Jyrki; et al., 91c:68013 and Carlsson, Svante; et al., (91g:68002)
- Lia, Feng Ch'ing (with Shieh, Jiann Cherng) Space and time complexities of balanced sorting on processor arrays. 91j:68024
- Luccio, Fabrizio (with Pietracaprina, Andrea; Pucci, Geppino) Analysis of parallel uniform hashing. 91m:68024
- Mahmoud, Hosam M. (with Pittel, Boris) Corrigendum: "On the joint distribution of the insertion path length and the number of comparisons in search trees" [Discrete Appl. Math. 20 (1988), no. 3, 243-251; MR 89d:68005]. (Not in MR)
- Mai, T. see Manacher, Glenn K.; et al., 91g:68028
- Manacher, Glenn K. (with Bui, T. D.; Mai, T.) Optimum combinations of sorting and merging. 91g:68028
- Manber, Uri (with Baeza-Yates, Ricardo A.) An algorithm for string matching with a sequence of don't cares. 91m:68025
- Mansour, Yishay (with Schulman, Leonard) Sorting on a ring of processors. 91h:68026
- Marinček, Jože see Klavžar, Sandi, (Not in MR)
- Martin, Alain J. see Hofstee, H. Peter; et al., (Not in MR)
- McDiarmid, C. J. H. Probabilistic analysis of tree search. 91m:68026
- Meyer auf der Heide, Friedhelm see Dietzfelbinger, Martin, (91e:68004)
- Miller, Gary L. see Anderson, Richard John, (Not in MR)
- Morozenko, V. V. Complexity of self-correcting algorithms for two sorting problems. (Russian) 91d:68009
- Munro, J. Ian see Cunto, Walter, 91f:68024 and Papadakis, Thomas; et al., (91e:68016)
- Nakano, Ryohel Translation with optimization from relational calculus to relational algebra having aggregate functions. (Not in MR)
- Naor, Joseph see Bar-Noy, Amotz, 91d:68007

- Ochmański, Edward (with Penczek, Wojciech) Inevitability in diamond processes. (French summary) 91f:68028
- Overmars, Mark H. (with Smid, Michiel H. M.; de Berg, Mark T.; van Kreveld, Marc J.) Maintaining range trees in secondary memory. I. Partitions. 91g:68029
— see also Smid, Michiel H. M., 91g:68030
- Pal, Srimanta An average case analysis of double linked insertion standard coalesced hashing. II. 91h:68027
- Pan, Youfang see Bugara, Khaled M.; et al., 91f:68022
- Papadakis, Thomas (with Munro, J. Ian; Poblete, Patricio V.) Analysis of the expected search cost in skip lists. (see 91e:68016)
- Parberry, Ian Single-exception sorting networks and the computational complexity of optimal sorting network verification. 91h:68028
- Paterson, Michael Improved sorting networks with $O(\log N)$ depth. 91a:68042
- Pankil, A. Worst-case analysis of a generalized heapsort algorithm. (Not in MR)
- Penczek, Wojciech see Ochmański, Edward, 91f:68028
- Pernae, Jaime see Bonet, Javier, (Not in MR)
- Perl, Yehoshua Better understanding of Batchier's merging networks. 91c:68016
— see also Dowd, Martin; et al., (Not in MR)
- Peterson, Ola see Katajainen, Jyrki; et al., 91c:68013; Levcopoulos, Christos, 91c:68015; (91c:68016); Carlsson, Svante; et al., (91g:68002) and Levcopoulos, Christos, (91h:68011)
- Pietracaprina, Andrea see Luccio, Fabrizio; et al., 91m:68024
- Pippenger, Nicholas Selection networks. (see 91g:68002)
— see also Azar, Yossi, 91m:68022
- Pittel, Boris see Mahmoud, Hosam M., (Not in MR)
- Poblete, Patricio V. see Papadakis, Thomas; et al., (91e:68016)
- Prodinger, Helmut see Kirschenhofer, Peter, 91c:68014 and 91m:68023
- Pucci, Geppino see Luccio, Fabrizio; et al., 91m:68024
- Purdum, Paul Walton, Jr. see Bugara, Khaled M.; et al., 91f:68022
- Ramamohanarao, Kotagiri (with Shepherd, John James; Sacks-Davis, Ron) Multi-attribute hashing with multiple file copies for high performance partial-match retrieval. (Not in MR)
- Raman, Rajeev see Dietz, Paul F., (91m:68002)
- Ravikumar, Bala see Chung, Moon Jung, 91g:68026
- Reif, John Henry see Willard, Dan E., 91e:68034
- Reingold, Edward M. see Wong, D. F., 91k:68029
- Ribb, Christine see Hagerup, Torben, 91c:68012
- Rudolph, Larry see Dowd, Martin; et al., (Not in MR)
- Sacks-Davis, Ron see Ramamohanarao, Kotagiri; et al., (Not in MR)
- Saks, Michael see Dowd, Martin; et al., (Not in MR)
- Salzberg, Betty Merging sorted runs using large main memory. 91a:68043
- Sarkar, U. K. (with Chakrabarti, P. P.; Ghose, S.; De Sarkar, S. C.) Multiple stack branch and bound. 91m:68027
- Schulman, Leonard see Mansour, Yishay, 91h:68026
- Sedgewick, Robert see Weiss, Mark Allen, 91f:68030 and (Not in MR)
- Shachnai, Hadas see Hofri, Micha, (Not in MR)
- Shen, Hong² see Hagerup, Torben, 91h:68025 and Chen, Guo Liang², (Not in MR)
- Shepherd, John James see Ramamohanarao, Kotagiri; et al., (Not in MR)
- Shen, Jang Ping (with Tang, Jyh Shyan) Efficient parallel k selection algorithm. (Not in MR)
- Shevchenko, L. I. Program methods for solving some problems of lexicographic ordering on vector-pipeline computers. (Russian) (Not in MR)
— see also Demidenko, V. M., (Not in MR)
- Shieh, Jinn Cherng see Lin, Feng Ch'ing, 91j:68024
- Smid, Michiel H. M. (with Overmars, Mark H.) Maintaining range trees in secondary memory. II. Lower bounds. 91c:68030
— see also Overmars, Mark H.; et al., 91g:68029
- van de Snepcheut, Jan L. A. see Hofstee, H. Peter; et al., (Not in MR)
- Spreall, Robert F. Refinements to nearest-neighbor searching in k -dimensional trees. (Not in MR)
- Szemerédi, Endre see Ajtai, Miklós; et al., 91a:68038
- Tang, Jyh Shyan see Shen, Jang Ping, (Not in MR)
- Taudes, Alfred Communication heuristics in distributed combinatorial search algorithms. 91h:68030
- Teshola, Jukka (with Wegner, Lutz) Minimal space, average linear time duplicate deletion. (Not in MR)
- Tseitin, G. E. Parallelization of sorting algorithms. (Not in MR)
— Design of parallel sorting algorithms. (Not in MR)
- Uhlmann, Jeffrey K. Aesthetic sorting. (Not in MR)
- Varman, Peter J. (with Iyer, Balakrishna R.; Haderle, Donald J.; Dunn, Stephen M.) Parallel merging: algorithm and implementation results. (Not in MR)
- Vyskoč, Josef Making bubblesort recursive. (Not in MR)
- Wachs, Michelle L. On an efficient dynamic programming technique of F. F. Yao. 91f:68029
- Wagner, Dorothea (with Wagner, Frank O.) A generalization of the zero-one principle for sorting algorithms. 91m:68028
- Wagner, Frank O. see Wagner, Dorothea, 91m:68028
- Wee, Young C. (with Chaiken, Seth; Willard, Dan E.) On the angle restricted nearest neighbor problem. 91e:68033
- Wegener, Ingo Bottom-up-heap sort, a new variant of heap sort beating on average quick sort (if n is not very small). (see 91h:68011)
- Wegner, Lutz see Teshola, Jukka, (Not in MR)
- Weiss, Mark Allen (with Sedgewick, Robert) More on shellsort increment sequences. (Not in MR)
— (with Sedgewick, Robert) Tight lower bounds of Shellsort. 91f:68030
- Wen, Zhaoqiang Parallel multiple search. 91m:68029
- Willard, Dan E. (with Reif, John Henry) Parallel processing can be harmful: the unusual behavior of interpolation search. 91e:68034
— see also Wee, Young C.; et al., 91e:68033
- Winters, Vincent G. Minimal perfect hashing in polynomial time. 91a:68044
- Wong, D. F. (with Reingold, Edward M.) Probabilistic analysis of a grouping algorithm. 91k:68029
- Wood, Derrick see Estivill-Castro, Vladimir, 91f:68026
- Yatsimirskii, M. N. Some optimal search algorithms. (Russian. English summary) (Not in MR)
- Yen, Hsu-Chun see Gannett, Ethan; et al., 91h:68024
- Items with secondary classifications in 68P10
- Ahlhölzer, Ingo The complexity of a simple stochastic OR-tree model in which "directional search" is bad. 91m:68072
- Anderson, A. P. see Steier, D. M., 91a:68027
- Andersson, Arne (with Lai, Tony W.) Fast updating of well-balanced trees. (see 91e:68016)
- Asano, Tetsuo (with Tokuyama, Takeshi) Algorithms for projecting points to give the most uniform distribution with applications to hashing. (see 91g:68002)
- Atallah, Mikhail J. A faster parallel algorithm for a matrix searching problem. (see 91e:68016)
- Bajaj, Chanderjit L. see Johnstone, John K., 91f:68149
- Bertossi, Alan A. (with Lodi, Elena; Luccio, Fabrizio; Pagli, Linda) Context-dependent string matching. 91c:68037
— (with Luccio, Fabrizio; Lodi, Elena; Pagli, Linda) String matching with weighted errors. 91k:68069
- Bollobas, Béla (with Broder, Andrei Z.; Simon, Istvan) The cost distribution of clustering in random probing. 91f:68017
- Broder, Andrei Z. see Bollobas, Béla; et al., 91f:68017
- Chazelle, Bernard Lower bounds on the complexity of polytope range searching. 91a:68122
- Coffman, E. G., Jr. (with Leighton, Frank Thomson) A provably efficient algorithm for dynamic storage allocation. 91a:68123
— (with Fayolle, Guy; Jacquet, Philippe; Robert, Philippe) Largest-first sequential selection with a sum constraint. 91f:68082
- Cole, Richard (with Siegel, Alan) Optimal VLSI circuits for sorting. (Not in MR)
- Crochemore, Maxime (with Rytter, Wojciech) Parallel construction of minimal suffix and factor automata. 91h:68103
- Calberson, Joseph (with Munro, J. Ian) Analysis of the standard deletion algorithms in exact fit domain binary search trees. 91g:68022
- Dubois, Didier (with Prade, Henri M.) Measuring properties of fuzzy sets: a general technique and its use in fuzzy query evaluation. 91f:68066
- Fayolle, Guy see Coffman, E. G., Jr.; et al., 91f:68082
- Françon, J. (with Randrianarimanana, B.; Schott, René) Analysis of dynamic algorithms in Knuth's model. 91m:68080
- Hagerup, Torben Planar depth-first search in $O(\log n)$ parallel time. 91g:68081
- Han, Yijie (with Igarashi, Yoshihide) Time lower bounds for parallel sorting on a mesh-connected processor array. 91f:68164
- Hirschberg, Daniel S. see Larmore, Lawrence L., 91k:94023
- Igarashi, Yoshihide see Han, Yijie, 91f:68164
- Iyengar, Satharama S. see Kumar, Devendra; et al., (Not in MR)
- Jacquet, Philippe see Coffman, E. G., Jr.; et al., 91f:68082
- Johnstone, John K. (with Bajaj, Chanderjit L.) Sorting points along an algebraic curve. 91f:68149
- Kumar, Devendra (with Iyengar, Satharama S.; Sharma, Mohan B.) Corrections to a distributed depth-first search algorithm. Corrigenda: "An efficient distributed depth-first search algorithm" [Inform. Process. Lett. 32 (1989), no. 4, 183–186] by Sharma, Iyengar and N. K. Mandyam. (Not in MR)
- Lai, Tony W. see Andersson, Arne, (91e:68016)
- Larmore, Lawrence L. An optimal algorithm with unknown time complexity for convex matrix searching. 91f:68068
— (with Hirschberg, Daniel S.) A fast algorithm for optimal length-limited Huffman codes. 91k:94023
- Leighton, Frank Thomson see Coffman, E. G., Jr., 91a:68123
- Lodi, Elena see Bertossi, Alan A.; et al., 91c:68037 and 91k:68069
- Loeb, Martin (with Nešetřil, Jaroslav) Postorder hierarchy for path compressions and set union. 91a:68209
- Lowry, Michael R. see Smith, Douglas R., 91f:68098
- Luccio, Fabrizio see Bertossi, Alan A.; et al., 91c:68037 and 91k:68069
- (Mandyam, N. K.) see Kumar, Devendra; et al., (Not in MR)
- Mehlhorn, Kurt (with Näher, Stefan) Dynamic fractional cascading. 91c:68119
- Munro, J. Ian see Calberson, Joseph, 91g:68022
- Näher, Stefan see Mehlhorn, Kurt, 91c:68119
- Nešetřil, Jaroslav see Loeb, Martin, 91a:68209
- Pagli, Linda see Bertossi, Alan A.; et al., 91c:68037 and 91k:68069
- Palko, Vladimir (with Sýkora, Ondřej; Vrtó, Imrich) Area complexity of merging. 91f:68079
- Prade, Henri M. see Dubois, Didier, 91f:68082
- Rajasekaran, Sanguthevar (with Reif, John Henry) Optimal and sublogarithmic time randomized parallel sorting algorithms. 91a:68136
- Randrianarimanana, B. see Françon, J.; et al., 91m:68080
- Reif, John Henry see Rajasekaran, Sanguthevar, 91a:68136
- Robert, Philippe see Coffman, E. G., Jr.; et al., 91f:68082
- Rytter, Wojciech see Crochemore, Maxime, 91h:68103
- Schimmler, Manfred (with Starke, Christoph) A correction network for N -sorters. 91h:68049
- Schmidt, Jeanette P. (with Siegel, Alan) The spatial complexity of oblivious k -probe hash functions. 91e:68032
- Schott, René see Françon, J.; et al., 91m:68080
- Sharma, Mohan B. see Kumar, Devendra; et al., (Not in MR)
- Siegel, Alan see Schmidt, Jeanette P., 91e:68032 and Cole, Richard, (Not in MR)
- Simon, Istvan see Bollobas, Béla; et al., 91f:68017
- Smith, Douglas R. (with Lowry, Michael R.) Algorithm theories and design tactics. 91f:68098
- Starke, Christoph see Schimmler, Manfred, 91h:68049

Steier, D. M. (with Anderson, A. P.) ★ Algorithm synthesis: a comparative study. 91a:68027

Sýkora, Ondřej see Palko, Vladimír; et al., 91a:68079

Tokuyama, Takeshi see Asano, Tetsuo, (91g:68002)

Vaidya, Pravin M. Space-time trade-offs for orthogonal range queries. 91d:68006

Vrlo, Imrich see Palko, Vladimír; et al., 91a:68079

Wegener, Ingo ★ Effiziente Algorithmen für grundlegende Funktionen. (German) [Efficient algorithms for fundamental functions] 91f:68003

68P15 Database theory

Ahiteboul, Serge (with Gyssens, Marc; Van Gucht, Dirk) An alternative way to represent the cogroup of a relation in the context of nested databases. 91a:68045

— (with Vianu, Victor) A transaction-based approach to relational database specification. 91f:68031

— (with Vianu, Victor) Procedural languages for database queries and updates. 91e:68035

Agrawal, Rakesh (with Dar, Shaul; Jagadish, H. V.) Direct transitive closure algorithms: design and performance evaluation. 91h:68029

Akama, Seiki (with Ohnishi, Hiroto) Outline of epistemic knowledge base. (see 91k:68014)

Al-Fedhagi, S. see Thalheim, B., 91m:68038

Atzeni, Paolo (with Chan, Edward P. F.) Efficient optimization of simple chase join expressions. (Not in MR)

Babushkin, M. A. (with Tsarenko, M. Sh.) Relational algebras with truth estimates. (Not in MR)

Balk, K. H. (with Miller, L. L.) Topological approach for testing equivalence in heterogeneous relational databases. (Not in MR)

Bartoszyński, Robert see Park, June S.; et al., (Not in MR)

Beer, Catriel (with Bernstein, Philip A.; Goodman, Nathan) A model for concurrency in nested transactions systems. (Not in MR)

Bekich, Zoran Active data bases: an analytic survey. 91k:68030

Benczúr, András On the role of equality in the dependency systems of relational databases. (see 91b:68004)

Bernstein, Philip A. see Beer, Catriel; et al., (Not in MR)

Blakeley, José A. (with Coburn, Neil; Larson, Per-Åke) Updating derived relations: detecting irrelevant and autonomously computable updates. (Not in MR)

Brosda, Volkert (with Vossen, Gottfried) Update and retrieval in a relational database through a universal schema interface. (Not in MR)

Buckles, Bill P. (with Petry, Frederick E.; Pillai, Jayadev) Network data models for representation of uncertainty. (Not in MR)

Bui, D. B. see Red'ko, V. N.; et al., (Not in MR)

Buneman, O. P. (with Davidson, S. B.; Watters, A.) Querying independent databases. (Not in MR)

Ceri, Stefano (with Gottlob, Georg; Tanca, Letizia) ★ Logic programming and databases. 91e:68036

Chan, Edward P. F. see Atzeni, Paolo, (Not in MR)

Chen, G. see Waugh, K. G.; et al., (Not in MR)

Cho, Yongkyun (with Ginsburg, Seymour) Decision problems of object histories. 91c:68017

Coburn, Neil see Blakeley, José A.; et al., (Not in MR)

Convent, Bernhard Deciding finiteness, groundness and domain independence of pure datalog queries. (German and Russian summaries) 91a:68046

Cosmadakis, Stavros S. (with Kanellakis, Paris C.; Vardi, Moshe Y.) Polynomial-time implication problems for unary inclusion dependencies. 91h:68030

Dahl, Verónica Incomplete types for logic databases. (Not in MR)

Damian, Sergiu see Moldovan, Grigor, (Not in MR)

Dar, Shaul see Agrawal, Rakesh; et al., 91h:68029

Davidson, S. B. see Buneman, O. P.; et al., (Not in MR)

De, Prabhuddha see Park, June S.; et al., (Not in MR)

De Bra, P. (with Paredaens, Jan) Removing redundancy and updating databases. (see 91k:68010)

Dechter, Rina When is local consistency sufficient. (see 91k:68014)

— Decomposing a relation into a tree of binary relations. 91m:68030

Decker, Hendrik Drawing updates from derivations. 91k:68031

Demetrovics, János (with Nguyễn Xuân Huy) Representation of closures on a set of functional and join dependencies in relational schemes. (Russian) 91e:68037

Diederich, Jim (with Milton, Jack) New methods and fast algorithms for database normalization. (Not in MR)

Dobritsa, V. P. Data types and enumerable classes of constructive models. (Russian) 91j:68025

Dong, Guozhu (with Ginsburg, Seymour) On the decomposition of datalog program mappings. 91j:68026

Dong, Zu Ming see Ji, Yue; et al., (Not in MR)

Dubliash, Pratal (with Maheshwari, Sachindra Nath) Query languages which express all PTIME queries for trees and unicyclic graphs. (see 91h:68011)

Duži, Marie (with Materna, Pavel) Attributes: distinguishing capability versus informational capability. (Russian summary) 91f:68032

El Abbadi, Amr (with Toueg, Sam) Maintaining availability in partitioned replicated databases. (Not in MR)

Eppstein, David Sequence comparison with mixed convex and concave costs. 91h:68031

Fan, L. T. see Shenoi, Sujee; et al., 91h:68034

Fekete, Alan (with Lynch, Nancy A.; Merritt, Michael; Wehl, William) Commutativity-based locking for nested transactions. 91h:68032

Feng, Yu Cai (with Ji, Yue) A study of the structure of functional dependency and its applications. (Chinese. English summary) (Not in MR)

Fernández Baizán, M. C. A new relational (domain-calculus type) query language based on the partition model. (Not in MR)

Flach, Peter A. Inductive characterisation of database relations. (see 91k:68014)

Füredi, Zoltán Perfect error-correcting databases. 91g:68031

Gadai, Shashi K. A homogeneous relational model and query languages for temporal databases. (Not in MR)

Gardy, Danièle (with Puech, Claude) On the effect of join operations on relation sizes. (Not in MR)

Ginsburg, Seymour see Cho, Yongkyun, 91c:68017 and Dong, Guozhu, 91j:68026

Glazunov, N. M. Systems of knowledge bases, and controllable dynamical systems. (Russian) (Not in MR)

Goes, Paulo B. see Sumita, Ushio; et al., 91a:68051

Goodman, Nathan see Beer, Catriel; et al., (Not in MR)

Gopinath, B. see Tostaras, Vassilis J., 91k:68036

Gottlob, Georg (with Paolini, Paolo; Zicari, Roberto) Properties and update semantics of consistent views. (Not in MR)

— (with Libkin, L. O.) Investigations on Armstrong relations, dependency inference, and excluded functional dependencies. 91m:68031

— see also Ceri, Stefano; et al., 91e:68036

Graham, Marc H. (with Wang, Ke) On the equivalence of an egd to a set of fd's. 91k:68017

Gyssens, Marc (with Paredaens, Jan; Van Gucht, Dirk) A uniform approach toward handling atomic and structured information in the nested relational database model. 91f:68033

— (with Paredaens, Jan; Van Gucht, Dirk) On a hierarchy of classes for nested databases. 91h:68033

— see also Ahiteboul, Serge; et al., 91a:68045

Hegner, Stephen J. Foundations of canonical update support for closed database views. 91k:68032

Henschen, Lawrence J. see McCane, William W., (Not in MR)

Herlihy, Maurice Concurrency and availability as dual properties of replicated atomic data. (Not in MR)

Hô Thuan see Le Van Bao, 91a:68048

Hölsmann, K. (with Saake, G.) Theoretical foundations of handling large substitution sets in temporal integrity monitoring. 91m:68032

Ibaraki, Toshihide see Li, Ji Gui, (Not in MR)

Jagadish, H. V. see Agrawal, Rakesh; et al., 91h:68029

Jajodia, Sashil (with Springsteel, Frederick N.) Lossless outer joins with incomplete information. 91a:68047

Ji, Yue (with Yao, Qing Da; Dong, Zu Ming) Deduction graphs based on functional dependency structure. (Chinese summary) (Not in MR)

Ji, Yue? see Feng, Yu Cai, (Not in MR)

Kaiso, Naoto see Sumita, Ushio; et al., 91a:68051

Kalinichenko, L. A. (with Manukyan, M. G.) Language tools of a time-oriented data model. (Not in MR)

Kandzia, Peter see Södkamp, Norbert, 91b:68022

Kanellakis, Paris C. see Cosmadakis, Stavros S.; et al., 91h:68030

Karanikolov, A. F. (with Kotelya, V. V.) Automatic power control of a data base designer. (Russian) (Not in MR)

Katoh, Naoki see Kuniwa, Jun, (Not in MR)

Kifer, Michael (with Lozinskii, Eliezer L.) On compile-time query optimization in deductive databases by means of static filtering. (Not in MR)

Kim, Myunghwan see Lee, Jae Moon; et al., (Not in MR)

Kuniwa, Jun (with Katoh, Naoki) A 1-version cautious transaction scheduler with dynamic version selection. (Not in MR)

Kobayashi, Yasuyuki A mathematical study on statistical database designs. (Not in MR)

Kong, Q. see Waugh, K. G.; et al., (Not in MR)

Korth, Henry F. see Roth, Mark A.; et al., 91a:68049 and (Not in MR)

Kotelya, V. V. On the generation of possible keys. (Russian) (Not in MR)

— see also Karanikolov, A. F., (Not in MR)

Kothari, Suresh C. see Miller, L. L.; et al., (Not in MR)

Kuper, Gabriel M. Logic programming with sets. 91k:68033

Lambrechts, Erik (with Nees, Peter; Paredaens, Jan; Peelman, Peter; Tanca, Letizia) Checking functional consistency in deductive databases. 91f:68034

Langerak, Rom View updates in relational databases with an independent scheme. (Not in MR)

Larson, Per-Åke see Blakeley, José A.; et al., (Not in MR)

Lausen, Georg (with Soisalon-Soininen, Elias; Widmayer, Peter) On the power of safe locking. 91g:68032

Lee, Jae Moon (with Park, Jong Soo; Kim, Myunghwan) An upper bound on buffer size for join operation using nonclustered indexes. (Not in MR)

Leuzerlin, Maurizio Type data bases with incomplete information. (Not in MR)

Leuchner, J. H. see Miller, L. L.; et al., (Not in MR)

Le Van Bao (with Hô Thuan) Key and superkey for a closure function. 91a:68048

Levene, M. (with Loizou, G.) The nested relation type model: an application of domain theory to databases. (Not in MR)

Li, Ji Gui (with Ibaraki, Toshihide) Distributed database concurrency control by cautious schedulers with a central clock site. (Not in MR)

Libkin, L. O. see Gottlob, Georg, 91m:68031

Lipeck, Udo W. Transformation of dynamic integrity constraints into transaction specifications. 91m:68033

Liu, Ken Chih (with Sunderraman, Rajshekhar) An algebraic approach to indefinite deductive databases. (see 91k:68014)

— (with Sunderraman, Rajshekhar) Indefinite and maybe information in relational databases. (Not in MR)

— see also Miller, L. L.; et al., (Not in MR)

Loizou, G. see Levene, M., (Not in MR)

Lozinskii, Eliezer L. see Kifer, Michael, (Not in MR)

Lynch, Nancy A. see Fekete, Alan; et al., 91h:68032

Maftsir, E. S. The Galois correspondence in databases. (Russian) 91h:68021

Maheshwari, Sachindra Nath see Dubliash, Pratal, (91h:68011)

Manukyan, M. G. see Kalinichenko, L. A., (Not in MR)

Márkus, Tibor Lattice theoretical aspect of the horizontal decomposition of relational database. (see 91b:68004)

Materna, Pavel see Duži, Marie, 91f:68032

- McCune, William W. (with Henschen, Lawrence J.) Maintaining state constraints in relational databases: a proof theoretic basis. (Not in MR)
- Melton, Austin *see* Shemol, Subject; et al., 91h:68034 and (Not in MR)
- Merritt, Michael *see* Fekete, Alan; et al., 91h:68032
- Miller, L. L. (with Leuchner, J. H.; Kothari, Suresh C.; Liu, Ken Chih) Testing arbitrary subhypergraphs for the lossless join property. (Not in MR)
- *see also* Baik, K. H., (Not in MR)
- Milton, Jack *see* Diederich, Jim, (Not in MR)
- Moldovan, Grigor (with Damian, Sergiu) A local optimization problem for data base redistribution in a computer net. (Romanian summary) (Not in MR)
- Natarajan, N. *see* Tang, Jian, (Not in MR)
- Nees, Peter *see* Lambrechts, Erik; et al., 91f:68034
- Nguyen Xuan Huy *see* Demetrotics, János, 91c:68037
- Novotný, Miroslav (with Pawlak, Zdzisław) Partial dependency of attributes. (Russian summary) 91m:68034
- (with Pawlak, Zdzisław) Independence of attributes. (Russian summary) 91m:68035
- Ohnishi, Hiroto *see* Akama, Seiki, (91k:68014)
- Ohori, Atsushi Representing object identity in a pure functional language. 91k:68034
- Özsoyoglu, Gultekin (with Su, Tzong-An) On inference control in semantic data models for statistical databases. 91g:68033
- Paolini, Paolo *see* Gottlob, Georg; et al., (Not in MR)
- Paredaens, Jan *see* Gyssens, Marc; et al., 91f:68033; Lambrechts, Erik; et al., 91f:68034; Gyssens, Marc; et al., 91h:68033 and De Bra, P., (91h:68010)
- Park, Jong Soo *see* Lee, Jae Moon; et al., (Not in MR)
- Park, June S. (with Bartoszyński, Robert; De, Prabuddha; Pirkul, Hasan) Optimal reorganization policies for stationary and evolutionary databases. (Not in MR)
- Pawlak, Zdzisław *see* Novotný, Miroslav, 91m:68034 and 91m:68035
- Peelman, Peter *see* Lambrechts, Erik; et al., 91f:68034
- Petry, Frederick E. *see* Buckles, Bill P.; et al., (Not in MR)
- Pillai, Jayadev *see* Buckles, Bill P.; et al., (Not in MR)
- Pirkul, Hasan *see* Park, June S.; et al., (Not in MR)
- Pittarelli, Michael An algebra of probability over finite product spaces, with applications. (Not in MR)
- Przymusińska, Halina (with Przymusiński, Teodor C.) Semantic issues in deductive databases and logic programs. (see 91g:68007)
- Przymusiński, Teodor C. *see* Przymusińska, Halina, (91g:68007)
- Puech, Claude *see* Gardy, Danièle, (Not in MR)
- Qian, Xiaohai An axiom system for database transactions. 91i:68018
- Redko, V. N. (with Bui, D. B.; Zagorskii, S. P.) Manipulation aspect of databases: a compositional approach. (Not in MR)
- Rosenkrantz, Daniel J. *see* Yu, Lin, 91i:68038
- Roth, Mark A. (with Korth, Henry F.; Silberschatz, Abraham) Extended algebra and calculus for nested relational databases. (Not in MR)
- (with Korth, Henry F.; Silberschatz, Abraham) Null values in nested relational databases. 91a:68049
- Saake, G. *see* Hähmann, K., 91m:68032
- Sagiv, Yehoshua Evaluation of queries in independent database schemes. 91m:68036
- Salvini, S. *see* Waugh, K. G.; et al., (Not in MR)
- Saxena, P. C. *see* Tripathi, R. C., 91j:68027
- Schütz, Rüdiger Delete operations and Horn formulas. 91a:68050
- Schek, Hans-Jörg *see* Scholl, Marc H., 91k:68035
- Scholl, Marc H. (with Schek, Hans-Jörg) A relational object model. 91h:68035
- Segall, Adrian *see* Wolfson, Ouri, 91k:68037
- Shemol, Subject (with Melton, Austin; Fan, L. T.) An equivalence classes model of fuzzy relational databases. 91h:68034
- (with Melton, Austin) An extended version of the fuzzy relational database model. (Not in MR)
- Silberschatz, Abraham *see* Roth, Mark A.; et al., 91a:68049 and (Not in MR)
- Singhal, Mukesh Update transport: a new technique for update synchronization in replicated database systems. (Not in MR)
- Performance analysis of the basic timestamp ordering algorithm via Markov modeling. 91m:68037
- Soisalon-Soininen, Elias *see* Lausen, Georg; et al., 91g:68032
- Springsteel, Frederick N. *see* Jajodia, Sushil, 91a:68047
- Su, Tzong-An *see* Özsoyoglu, Gultekin, 91g:68033
- Suchenek, Marek A. Two applications of model-theoretic forcing to Lipski's data bases with incomplete information. 91c:68018
- (with Sunderraman, Rajshekhar) Minimal models for closed world data bases with views. (see 91k:68014)
- Südkamp, Norbert (with Kandria, Peter) Enforcement of integrity constraints in a semantic data model. 91h:68022
- Semita, Ushio (with Kaio, Naoto; Goes, Paulo B.) Analysis of effective service time with age dependent interruptions and its application to optimal rollback policy for database management. 91a:68051
- Sunderraman, Rajshekhar *see* Liu, Ken Chih, (Not in MR); (91k:68014) and Suchenek, Marek A., (91k:68014)
- Tanca, Letizia *see* Ceri, Stefano; et al., 91e:68036 and Lambrechts, Erik; et al., 91f:68034
- Tang, Chang Jie (with Yin, Bo Wen) Premonitory dependency of historical database and its mathematical properties. 91f:68035
- Tang, Jian (with Natarajan, N.) A scheme for increasing availability in partitioned replicated databases. (Not in MR)
- Taranowski, M. R. Formal methods for the specification of hierarchical reports. (Not in MR)
- Tenenbaum, L. A. Synthesis of projections in relational data bases. 91d:68010
- Join dependencies and solutions of the problem of the synthesis of projections in relational databases. II. 91h:68023
- Identification of relational database blocks. 91h:68035
- Thalheim, B. (with Al-Fodhagi, S.) Preserving two-tuple dependencies under projection. 91m:68038
- Thanisch, Peter *see* Wicovsky, K.; et al., (Not in MR)
- Toueg, Sam *see* El Abbadi, Amr, (Not in MR)
- Tripathi, R. C. (with Saxena, P. C.) Multivalued dependencies in fuzzy relational databases. 91j:68027
- Troy, Daniel *see* Zhang, Weining; et al., 91h:68036
- Tsalenko, M. Sh. *see* Babushkin, M. A., (Not in MR)
- Tsotras, Vassilis J. (with Gopinath, B.) Efficient algorithms for managing the history of evolving databases. 91k:68036
- Van Gucht, Dirk *see* Abiteboul, Serge; et al., 91a:68045; Gyssens, Marc; et al., 91f:68033 and 91h:68033
- Vanhek, Jiri Theoretical bases for controlling the independence and redundancy of information in databases. 91a:68052
- The theory of information aspects—a means for controlling the independence and redundancy of information in data bases. (Not in MR)
- Vardi, Moshe Y. *see* Cosmadakis, Stavros S.; et al., 91h:68030
- Viana, Victor *see* Abiteboul, Serge, 91e:68035 and 91f:68031
- Vieille, Laurent Recursive query processing: the power of logic. 91h:68024
- Volger, Hugo The semantics of disjunctive deductive databases. (see 91g:68006)
- Vossen, Gottfried *see* Brosda, Volkert, (Not in MR)
- Wang, Ke³ *see* Graham, Marc H., 91k:68017
- Watters, A. *see* Buneman, O. P.; et al., (Not in MR)
- Waugh, K. G. (with Williams, Morgan Howard; Kong, Q.; Salvini, S.; Chen, G.) Designing SQUIRREL: an extended SQL for a deductive database system. (Not in MR)
- Weihl, William *see* Fekete, Alan; et al., 91h:68032
- Wicovsky, K. (with Thanisch, Peter; Williams, Morgan Howard) Improved recursion handling through integrity constraints. (Not in MR)
- Widmayer, Peter *see* Lausen, Georg; et al., 91g:68032
- Williams, Morgan Howard *see* Waugh, K. G.; et al., (Not in MR) and Wicovsky, K.; et al., (Not in MR)
- Wolfson, Ouri (with Segall, Adrian) The communication complexity of atomic commitment and of gossiping. 91k:68037
- Yao, Qing Da *see* Ji, Yue; et al., (Not in MR)
- Yin, Bo Wen *see* Tang, Chang Jie, 91f:68035
- Yu, Clement T. *see* Zhang, Weining; et al., 91h:68036
- Yu, Lin (with Rosenkrantz, Daniel J.) Minimizing time-space cost for database version control. 91e:68038
- Zagorskii, S. P. *see* Redko, V. N.; et al., (Not in MR)
- Zhang, Weining (with Yu, Clement T.; Troy, Daniel) Necessary and sufficient conditions to linearize doubly recursive programs in logic databases. 91h:68036
- Zicari, Roberto *see* Gottlob, Georg; et al., (Not in MR)

Items with secondary classifications in 68P15

- (Abiteboul, Serge) *see* ICDT '90, 91h:68010
- Alt-Kaci, Hassan *see* Smolka, Gert, (91j:68006)
- Arques, D. Combinatoire des mots et étude quantitative de la sérialisabilité: application à la concurrence d'accès à une base de données. (English summary) [Combinatorics of words and quantitative study of serializability: application to concurrent database access] 91f:68173
- Bancillon, François *see* Beeri, Catriel; et al., 91f:68014
- Beeri, Catriel (with Kanellakis, Paris C.; Bancillon, François; Ramakrishnan, Raghu) Bounds on the propagation of selection into logic problems. 91f:68014
- Bennett, F. E. (with Wu, Li Sheng) On minimum matrix representation of closure operations. 91h:05032
- Berman, Joel The value of free algebras. 91j:08010
- Chan, Chin K'o A single-key access control scheme in information protection systems. (Not in MR)
- Chang, Chin Ch'eng (with Chen, C. Y.) A note on allocating k -ary multiple key hashing files among multiple disks. (Not in MR)
- Chen, C. Y. *see* Chang, Chin Ch'eng, (Not in MR)
- Demetrotics, János *see* Mamikonov, A. G.; et al., 91e:68116
- Finn, V. K. Plausible inferences and plausible arguments. (Russian) 91e:68136
- Haniuda, Hiromi *see* Miyazaki, Nobuyoshi; et al., 91h:68105
- Henschen, Lawrence J. *see* Lee, Sang-Ho, (91g:68004)
- Herlihy, Maurice Apologizing versus asking permission: optimistic concurrency control for abstract data types. (Not in MR)
- Itoh, Hidenori *see* Miyazaki, Nobuyoshi; et al., 91h:68105
- Kalyuzhnyi, V. N. Canonization of the calculus of functional dependencies. (Russian) 91c:3025
- Kanellakis, Paris C. *see* Beeri, Catriel; et al., 91f:68014 and ICDT '90, 91h:68010
- Kerist, Jean-Marc A relational approach to logic programming: the extended Alexander method. (French summary) 91h:68103
- Knuth, Előd *see* Mamikonov, A. G.; et al., 91e:68116
- Kulba, V. V. *see* Mamikonov, A. G.; et al., 91e:68116
- Lee, Sang-Ho (with Henschen, Lawrence J.) Substitution-based compilation of extended rules in deductive databases. (see 91g:68004)
- Leivant, Daniel Inductive definitions over finite structures. 91k:03120
- Mamikonov, A. G. (with Demetrotics, János; Kulba, V. V.; Knuth, Előd; Sokolova, E. B.; Urbanski, F.) ★ Использование сетей Петри при проектировании систем обработки данных. (Russian) [The use of Petri nets in the design of data processing systems] 91e:68116
- Miyazaki, Nobuyoshi (with Yokota, Kazumasa; Haniuda, Hiromi; Itoh, Hidenori) Horn clause transformation by restrictor in deductive databases. 91h:68105
- Naughton, Jeffrey F. Minimizing function-free recursive inference rules. 91g:68143
- Nummenmaa, Jyrki (with Thanisch, Peter) Conjectures and refutations in database design and dependency theory. (see 91h:68010)
- Ramakrishnan, Raghu *see* Beeri, Catriel; et al., 91f:68014
- Rukoz, Marta Hierarchical deadlock detection for nested transactions. (Not in MR)
- Smolka, Gert (with Alt-Kaci, Hassan) Inheritance hierarchies: semantics and unification [MR 90g:68086]. (see 91j:68006)
- Sokolova, E. B. *see* Mamikonov, A. G.; et al., 91e:68116

- Taghva, Kazem (with Wu, Tian-Zheng) On the equivalence of a class of purely exponential logic queries to linear queries. 91h:68109
- Thanisch, Peter see Nummenmaa, Jyrki, (91h:68010)
- (Thayse, André) see From modal logic to deductive databases, 91h:68113
- Urbanski, F. see Mamikonov, A. G.; et al., 91e:68116
- Wu, Li Sheng see Bennett, F. E., 91h:65032
- Wu, Tian-Zheng see Taghva, Kazem, 91h:68109
- Yokota, Kazumasa see Miyazaki, Nobuyoshi; et al., 91h:68105

Items listed otherwise than by author

Conference:

- Database Theory ★ ICDT '90. 91h:68010
- From modal logic to deductive databases ★ From modal logic to deductive databases. 91h:68113
- ICDT '90 ★ ICDT '90. 91h:68010
- Lecture Notes in Computer Science ★ ICDT '90. 91h:68010
- Paris ★ ICDT '90. 91h:68010

68P20 Information storage and retrieval

- Apers, Peter M. G. see Houtsma, Maurice A. W.; et al., (91h:68010)
- Brass, Stefan Beginnings of a theory of general database completions. 91j:68028
- Ceri, Stefano see Houtsma, Maurice A. W.; et al., (91h:68010)
- Debray, Saumya K. (with Lin, Nai-Wei) Static estimation of query sizes in Horn programs. 91m:68039
- Do Suan Tkho see Zmitrovich, A. I., 91j:68031
- Faloutsos, Christos see Manolopoulos, Yannis, (Not in MR)
- Gochfeld, David see Thagard, Paul; et al., 91j:68030
- Holyoak, Keith J. see Thagard, Paul; et al., 91j:68030
- Houtsma, Maurice A. W. (with Apers, Peter M. G.; Ceri, Stefano) Complex transitive closure queries on a fragmented graph. (see 91h:68010)
- Isachenko, A. N. see Malyarov, A. N., 91j:68029
- Khoshevisian, Hossam Efficient memo-table management strategies. (Not in MR)
- Kollias, John G. (with Manolopoulos, Yannis; Papadimitriou, Christos H.) The optimum execution order of queries in linear storage. 91h:68019
- Lee, Dik Lun see La, Wenyu, (91h:68014)
- Lin, Nai-Wei see Debray, Saumya K., 91m:68039
- La, Wenyu (with Lee, Dik Lun) Recursive query processing based on program structure. (see 91h:68014)
- Malyarov, A. N. (with Isachenko, A. N.) Logical specification of blocking of distributed information resources. (Russian) 91j:68029
- Manolopoulos, Yannis (with Faloutsos, Christos) Analysis for the end of block wasted space. (Not in MR)
- see also Kollias, John G.; et al., 91h:68019
- Meng, W. see Yu, Clement T.; et al., (Not in MR)
- Moore, James C. (with Richmond, William B.; Whinston, Andrew B.) A decision-theoretic approach to information retrieval. 91h:68037
- Naughton, Jeffrey F. (with Sagiv, Yehoshua) Minimizing expansions of recursions. 91h:68038
- (with Seshadri, S.) On estimating the size of projections. 91h:68038
- Nelson, Greg see Thagard, Paul; et al., 91j:68030
- Omicinski, Edward (with Scheuermann, Peter) A parallel algorithm for record clustering. (Not in MR)
- Papadimitriou, Christos H. see Kollias, John G.; et al., 91h:68019
- Park, S. see Yu, Clement T.; et al., (Not in MR)
- Rabin, Michael O. Efficient dispersal of information for security, load balancing, and fault tolerance. 91g:68034
- Richmond, William B. see Moore, James C.; et al., 91h:68037
- Sagiv, Yehoshua see Naughton, Jeffrey F., 91h:68038
- Scheuermann, Peter see Omicinski, Edward, (Not in MR)
- Seshadri, S. see Naughton, Jeffrey F., 91h:68038
- Thagard, Paul (with Holyoak, Keith J.; Nelson, Greg; Gochfeld, David) Analog retrieval by constraint satisfaction. 91j:68030
- Whinston, Andrew B. see Moore, James C.; et al., 91h:68037
- Willard, Dan E. Optimal sample cost residues for differential database batch query problems. 91m:68040
- Yu, Clement T. (with Meng, W.; Park, S.) A framework for effective retrieval. (Not in MR)
- Zmitrovich, A. I. (with Do Suan Tkho) Optimization of quasiconjunctive queries. 91j:68031

Items with secondary classifications in 68P20

- Brickell, Ernest F. (with Davenport, Daniel M.) On the classification of ideal secret sharing schemes (extended abstract). 91h:94024
- Chen, G. see Waugh, K. G.; et al., (Not in MR)
- Davenport, Daniel M. see Brickell, Ernest F., 91h:94024
- Dong, Guozhu (with Ginsburg, Seymour) On the decomposition of datalog program mappings. 91j:68026
- Driscoll, James R. see Lang, Shean-Dong; et al., (Not in MR)
- Fekete, Alan (with Lynch, Nancy A.; Merritt, Michael; Weihl, William) Commutativity-based locking for nested transactions. 91h:68032
- Ginsburg, Seymour see Dong, Guozhu, 91j:68026
- Jou, Jiann H. see Lang, Shean-Dong; et al., (Not in MR)
- Kong, Q. see Waugh, K. G.; et al., (Not in MR)
- Lang, Shean-Dong (with Driscoll, James R.; Jou, Jiann H.) A unified analysis of batched searching of sequential and tree-structured files. (Not in MR)
- Luccio, Fabrizio (with Pietracaprina, Andrea; Pucci, Geppino) Analysis of parallel uniform hashing. 91m:68024
- Lynch, Nancy A. see Fekete, Alan; et al., 91h:68032
- Merritt, Michael see Fekete, Alan; et al., 91h:68032
- Miyamoto, Sadaaki ★ Fuzzy sets in information retrieval and cluster analysis. 91g:04005

- Pellegrino, S. (with Van Heerden, T.) Solution of equilibrium equations in the force method: a compact band scheme for underdetermined linear systems. 91k:65002
- Pietracaprina, Andrea see Luccio, Fabrizio; et al., 91m:68024
- Pittel, Boris (with Rubin, Herman) How many random questions are necessary to identify n distinct objects? 91i:60031
- Pucci, Geppino see Luccio, Fabrizio; et al., 91m:68024
- Rubin, Herman see Pittel, Boris, 91i:60031
- Sagiv, Yehoshua Evaluation of queries in independent database schemes. 91m:68036
- Salvini, S. see Waugh, K. G.; et al., (Not in MR)
- Segall, Adrian see Wolfson, Ouri, 91h:68037
- Van Heerden, T. see Pellegrino, S., 91k:65002
- Waugh, K. G. (with Williams, Morgan Howard; Kong, Q.; Salvini, S.; Chen, G.) Designing SQUIRREL: an extended SQL for a deductive database system. (Not in MR)
- Weihl, William see Fekete, Alan; et al., 91h:68032
- Williams, Morgan Howard see Waugh, K. G.; et al., (Not in MR)
- Winters, Vincent G. Minimal perfect hashing in polynomial time. 91a:68044
- Wolfson, Ouri (with Segall, Adrian) The communication complexity of atomic commitment and of gossiping. 91k:68037

68P25 Data encryption [see also 94A60]

- Bar-Yehuda, Reuven (with Chor, Benny; Kushilevitz, Eyal) Privacy, additional information, and communication (extended abstract). (see 91k:68006)
- Boyar, Joan F. Inferring sequences produced by pseudo-random number generators. 91g:68035
- Chen, Wei Min see Xao, Qing Da; et al., (Not in MR)
- Chor, Benny see Bar-Yehuda, Reuven; et al., (91k:68006)
- David, George I. (with Desmedt, Yvo G.) Cryptography based data security. 91h:68039
- Desmedt, Yvo G. see David, George I., 91h:68039
- Gaarder, Klaus (with Sneekenes, Einar) On the formal analysis of PKCS authentication protocols. 91k:68039
- Hardjono, Thomas Record encryption in distributed databases. 91j:68032
- Imai, Hideki see Zheng, Yuliang; et al., (91h:94003)
- Kasai, Hirohumi see Kurosawa, Kaoru; et al., (Not in MR)
- Kurosawa, Kaoru (with Matsui, Kazuo; Kasai, Hirohumi) RSA security. (Not in MR)
- Kushilevitz, Eyal see Bar-Yehuda, Reuven; et al., (91k:68006)
- Li, Lian Di see Xao, Qing Da; et al., (Not in MR)
- López Villacampa, Amparo Arithmetic in coding and the signature of messages. (Catalan) (Not in MR)
- Luby, Michael (with Rackoff, Charles) A study of password security. 91a:68053
- Matsui, Kazuo see Kurosawa, Kaoru; et al., (Not in MR)
- Matsui, Kineo see Nakamura, Yasuhiro, 91a:68054
- Matsumoto, Tsutomu see Zheng, Yuliang; et al., (91h:94003)
- Merkle, Ralph C. A fast software one-way hash function. 91m:68041
- Nakamura, Yasuhiro (with Matsui, Kineo) Dual reduction method of random keys for encryption by graph transformation. 91a:68054
- Nishimura, Kazuo (with Sibuya, Masaaki) Probability to meet in the middle. 91h:68036
- Rackoff, Charles see Luby, Michael, 91a:68053
- Sibuya, Masaaki see Nishimura, Kazuo, 91h:68036
- Sneekenes, Einar see Gaarder, Klaus, 91k:68039
- Xao, Qing Da (with Li, Lian Di; Chen, Wei Min) A strongly secure cryptographic protocol. (Chinese. English summary) (Not in MR)
- Yu, Kin Wah (with Yu, Tong Lai) Superimposing encrypted data. (Not in MR)
- Yu, Tong Lai see Yu, Kin Wah, (Not in MR)
- Zheng, Yuliang (with Matsumoto, Tsutomu; Imai, Hideki) Impossibility and optimality results on constructing pseudorandom permutations (extended abstract). (see 91h:94003)

Items with secondary classifications in 68P25

- Abadi, Martin (with Feigenbaum, Joan) Secure circuit evaluation. A protocol based on hiding information from an oracle. 91h:68079
- see also Burrow, Michael; et al., 91a:68185
- Assad, Arjang A. see Kelly, James P.; et al., 91h:68079
- Atkinson, M. D. (with Negro, Alberto; Santoro, Nicola) Sums of lexicographically ordered sets. 91m:90136
- Ben-Or, Michael (with Goldreich, Oded; Goldwasser, Shafi; Hastad, Johan; Kilian, Joe; Micali, Silvio; Rogaway, Phillip) Everything provable is provable in zero-knowledge. 91d:68026
- Blum, Manuel (with Feldman, Paul; Micali, Silvio) Proving security against chosen ciphertext attacks. 91h:94034
- Boyar, Joan F. (with Kurtz, Stuart A.; Krentel, Mark W.) A discrete logarithm implementation of perfect zero-knowledge blobs. 91m:68073
- Bradford, James H. Sequence matching with binary codes. 91h:68174
- Brassard, Gilles (with Crépeau, Claude; Yung, Moti) Everything in NP can be argued in perfect zero-knowledge in a bounded number of rounds. 91e:68051
- Burrow, Michael (with Abadi, Martin; Needham, R. M.) A logic of authentication. 91a:68185
- Crépeau, Claude see Brassard, Gilles; et al., 91e:68051
- Damgård, Ivan Bjerre On the existence of bit commitment schemes and zero-knowledge proofs. 91i:94027
- De Santis, Alfredo (with Micali, Silvio; Persiano, Giuseppe) Removing interaction from zero-knowledge proofs. 91h:68036
- Feigenbaum, Joan see Abadi, Martin, 91h:68079
- Feldman, Frank A. A new spectral test for nonrandomness and the DES. 91d:94011
- Feldman, Paul see Blum, Manuel; et al., 91h:94034
- Goldes, Bruce L. see Kelly, James P.; et al., 91h:68079
- Goldreich, Oded (with Krawczyk, Hugo; Luby, Michael) On the existence of pseudorandom generators. 91c:68049
- (with Kushilevitz, Eyal) A perfect zero-knowledge proof for a problem equivalent to discrete logarithm. 91d:68033

- (with Krawczyk, Hugo) Sparse pseudorandom distributions (extended abstract). 91g:54015
- see also Ben-Or, Michael; et al., 91d:68026
- Goldwasser, Shafi see Ben-Or, Michael; et al., 91d:68026
- Harn, Lein (with Kiesler, Thomas) An efficient probabilistic encryption scheme. 91h:94025
- Håstad, Johan see Ben-Or, Michael; et al., 91d:68026
- Impagliazzo, Russell (with Rudich, Steven) Limits on the provable consequences of one-way permutations. 91h:94028
- Karl, Jarkko A cryptosystem based on propositional logic. 91d:68038
- Observations concerning a public-key cryptosystem based on iterated morphisms. 91a:68163
- Kelly, James P. (with Assad, Arjang A.; Golden, Bruce L.) The controlled rounding problem: relaxations and complexity issues. (German summary) 91h:68079
- Kiesler, Thomas see Harn, Lein, 91h:94025
- Kilian, Joe see Ben-Or, Michael; et al., 91d:68026
- Krawczyk, Hugo see Goldreich, Oded; et al., 91c:68049 and 91g:94015
- Krentel, Mark W. see Boyar, Joan F.; et al., 91m:68073
- Kurtz, Stuart A. see Boyar, Joan F.; et al., 91m:68073
- Kushilevitz, Eyal see Goldreich, Oded, 91d:68033
- Lempel, Abraham see Sheinwald, Dafna; et al., 91h:94017
- Li, Da Xing (with Zhang, Ze Zeng) An attack on a class of public key cryptosystems based on the Euclidean algorithm. (Chinese) (Not in MR)
- Lidl, Rudolf (with Müller, Winfried B.) A note on strong Fibonacci pseudoprimes. 91k:11012
- Luby, Michael see Goldreich, Oded; et al., 91c:68049
- Magliveras, Spyros S. (with Memon, Nasir D.) The linear complexity profile of cryptosystem PGM. 91d:94013
- Memon, Nasir D. see Magliveras, Spyros S., 91d:94013
- Micali, Silvio see De Santis, Alfredo; et al., 91b:68036; Blum, Manuel; et al., 91b:94034 and Ben-Or, Michael; et al., 91d:68026
- Müller, Winfried B. see Lidl, Rudolf, 91k:11012
- Needham, R. M. see Burrow, Michael; et al., 91a:68185
- Negro, Alberto see Atkinson, M. D.; et al., 91m:90136
- Persiano, Giuseppe see De Santis, Alfredo; et al., 91b:68036
- Rogaway, Phillip see Ben-Or, Michael; et al., 91d:68026
- Rudich, Steven see Impagliazzo, Russell, 91h:94028
- Salomaa, Arto ★ Public-key cryptography. 91j:94001
- Santoro, Nicola see Atkinson, M. D.; et al., 91m:90136
- Sheinwald, Dafna (with Lempel, Abraham; Ziv, Jacob) Compression of pictures by finite state encoders. 91k:94017
- Vyskoč, Jozef Descriptional complexity and cryptography. (see 91h:68004)
- Yung, Moti see Brassard, Gilles; et al., 91c:68051
- Zhang, Ze Zeng see Li, Da Xing, (Not in MR)
- Ziv, Jacob see Sheinwald, Dafna; et al., 91k:94017

68P99 None of the above, but in this section

- Bouloutas, A. (with Hart, George W.; Schwartz, Mischa) Two extensions of the Viterbi algorithm. (Not in MR)
- Hart, George W. see Bouloutas, A.; et al., (Not in MR)
- Schwartz, Mischa see Bouloutas, A.; et al., (Not in MR)
- Vishkin, Uri Deterministic sampling—a new technique for fast pattern matching. (Not in MR)
- Items with secondary classifications in 68P99
- Alagar, V. S. Range equations and range matrices: a study in statistical database security. (see 91h:94002)
- Makowsky, Johann A. Mental images and the architecture of concepts. (see 91b:03004)

68Qxx Theory of computing

- Davis, Martin Influences of mathematical logic on computer science. (see 91b:03004)

Items with secondary classifications in 68Qxx

- Smith, Jeffrey D. ★ Design and analysis of algorithms. 91h:68002

Items listed otherwise than by author

Proceedings:

- Symposium on Discrete Algorithms ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91h:68006
- San Francisco, CA ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91h:68006
- Symposium: Discrete Algorithms ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91h:68006

68Q05 Models of computation (abstract processors, Turing machines, etc.) [see also 03D10]

- Alberts, Māris Interrogative complexity of ω -languages' recognition. (see 91h:68011)
- Alur, Rajeev (with Dill, David) Automata for modeling real-time systems. (see 91c:68004)
- Anselmo, M. Two-way automata with multiplicity. (see 91c:68004)
- Barashko, A. S. On the theory of signature analyzers. 91g:68036
- Beauquier, Danile (with Pin, Jean-Eric) Factors of words. 91f:68037
- Bennett, Charles H. Time/space trade-offs for reversible computation. 91g:68037
- Bergstra, J. A. (with Klop, Jan Willem; Olderoog, E.-R.) Readies and failures in the algebra of communicating processes. 91h:68025

- Bougé, Luc (with Garda, Patrick) Towards a semantic approach to SIMD architectures and their languages. 91m:68042
- Bowditch, B. H. see McColl, W. F.; et al., 91m:68045
- Brady, Allen H. The busy beaver game and the meaning of life. (see 91b:03004)
- Browne, I. A. see Clarke, Edmund M.; et al., (91c:68005)
- Buda, Anatoli O. Weak equivalence of nondeterministic programmed machines. (Russian) 91k:68040
- A free information model. (Russian) 91m:68043
- Černá, Ivana Some properties of zero-testing bounded one-way multicounter machines. (see 91h:68011)
- Chaitin, Gregory J. An algebraic equation for the halting probability [Algorithmic information theory, Introduction, see pp. 1–5, Cambridge Univ. Press, Cambridge, 1987; MR 89g:68022]. (see 91h:03004)
- Chakrabarti, Chaitali (with Ja'Ja', Joseph) Systolic architectures for the computation of the discrete Hartley and the discrete cosine transforms based on prime factor decomposition. 91h:68020
- Charron-Bost, Bernadette Concerning the size of clocks. (see 91h:68016)
- Ch'en, Chien Hui see Wang, Bing-Feng, 91h:68050
- Chlebus, Bogdan S. (with Diks, Krzysztof; Hagerup, Torben; Radzik, Tomasz) New simulations between CRCW PRAMs. 91a:68055
- (Church, A.) see Trakhtenbrot, Boris A., (91b:03004)
- Clarke, Edmund M. (with Browne, I. A.; Kurshan, R. P.) A unified approach for showing language containment and equivalence between various types of ω -automata. (see 91c:68005)
- Conner, Michael Sequential machines realized by group representations. 91h:68040
- Conrad, Michael The price of programmability. (see 91b:03004)
- Culik, Karel, II (with Karhumäki, Juhani) HDTOL matching of computations of multitape automata. 91d:68011
- Darondeau, Philippe (with Degano, Pierpaolo) Causal trees: interleaving + causality. 91m:68044
- Dauget, Max Simulation of Turing machines by a left-linear rewrite rule. (see 91f:68006)
- Degano, Pierpaolo see Darondeau, Philippe, 91m:68044
- Diekert, Volker (with Kudlek, Manfred) Small deterministic Turing machines. 91f:68038
- Dietzfelbinger, Martin The speed of copying on one-tape off-line Turing machines. 91d:68012
- Diks, Krzysztof see Chlebus, Bogdan S.; et al., 91a:68055
- Dill, David see Alur, Rajeev, (91c:68004)
- Felleisen, Matthias (with Friedman, Daniel P.) A syntactic theory of sequential state. 91h:68041
- Fitch, Faith E. (with Wigderson, Avi) Toward understanding exclusive read. 91f:68039
- Floyd, Robert W. (with Knuth, Donald E.) Addition machines. 91f:68040
- Freivalds, Rūsiņš (with Smith, Carl H.; Velauthapillai, Mahendran) Trade-off among parameters affecting inductive inference. 91f:68041
- see also Kapeas, Janis, (91h:68011)
- Friedman, Daniel P. see Felleisen, Matthias, 91h:68041
- Fulk, Mark A. Prudence and other conditions on formal language learning. 91f:68042
- Garda, Patrick see Bougé, Luc, 91m:68042
- Gastin, Paul Un modèle asynchrone pour les systèmes distribués. (English summary) [An asynchronous model for distributed systems] 91h:68021
- Geffert, Viliam Speed-up theorem without tape compression. (see 91h:68011)
- Geldmanis, Dainis On possibilities of one-way synchronized and alternating automata. (see 91h:68011)
- Goldreich, Oded Randomness, interactive proofs, and zero-knowledge—a survey. (see 91b:03004)
- Golubski, Wolfgang (with Lippe, Wolfram-M.) Tree-stack automata. (see 91h:68011)
- Gruška, Josef Synthesis, structure and power of systolic computations. 91h:68022
- Hagerup, Torben see Chlebus, Bogdan S.; et al., 91a:68055
- Hartmanis, Juris Overview of computational complexity theory. (see 91j:68004)
- (with Hemachandra, Lane A.) Robust machines accept easy sets. 91h:68042
- Hemachandra, Lane A. see Hartmanis, Juris, 91h:68042
- Hoover, H. James Feasible real functions and arithmetic circuits. 91g:68038
- Hromkovič, Jural (with Kelemen, J.) How to define complex symbol systems? (A preliminary answer). 91c:68039
- Huckenbeck, Ulrich An equivalence result for oracle sets. (German and Russian summaries) 91f:68043
- Euclidian geometry in terms of automata theory. 91c:68019
- Ibarra, Oscar H. see Ravikumar, Bala, 91a:68063
- Immerman, Neil Expressibility and parallel complexity. 91h:68043
- Issue, Katsushi (with Takanami, Itsuo) A survey of two-dimensional automata theory. 91a:68056
- see also Ito, Akira; et al., 91a:68057 and 91a:68058
- Iitin, V. E. Mixed computations and the adaptation of programs. 91c:68040
- Ito, Akira (with Inoue, Katsushi; Takanami, Itsuo) The simulation of two-dimensional one-marker automata by three-way Turing machines. 91a:68057
- (with Inoue, Katsushi; Takanami, Itsuo) Deterministic two-dimensional on-line tessellation acceptors are equivalent to two-way two-dimensional alternating finite automata through 180°-rotation. 91a:68058
- Jacopini, G. (with Mentrasti, P.; Sontacchi, G.) Reversible Turing machines and polynomial time reversibly computable functions. 91h:68041
- Ja'Ja', Joseph see Chakrabarti, Chaitali, 91h:68020
- Jiang, Tao¹ On the complexity of (off-line) 1-tape ATMs running in constant reversals. (see 91m:68002)
- On the complexity of 1-tape ATMs and off-line 1-tape ATMs running in constant reversals. 91h:68042
- Kämper, Jürgen Nondeterministic oracle Turing machines with maximal computation paths. 91h:68044
- Kapeas, Janis (with Freivalds, Rūsiņš) Minimal nontrivial space complexity of probabilistic one-way Turing machines. (see 91h:68011)
- Karhumäki, Juhani see Culik, Karel, II, 91d:68011

- Karlin, Anna R. (with Upfal, Eli) Parallel hashing: an efficient implementation of shared memory. (Not in MR)
- Kasangian, Stefano (with Walters, R. F. C.) The duality between flow charts and circuits. 91j:68033
- Kelemen, J. see Hromkovič, Juraj, 91f:68039
- Kikyo, Hirotsuka (with Yamada, Shinichi) A graph model for probabilistic computation. 91c:68020
- Kim, Hyung Joong (with Lee, Jang Gyu) Partial sum problem mapping into a hypercube. 91h:68045
- Klop, Jan Willem see Bergstra, J. A.; et al., 91b:68025
- Knuth, Donald E. see Floyd, Robert W., 91f:68040
- Koppel, Moshe Structure. (see 91b:03004)
- Kowalczyk, Wojciech On time and space requirements for pushdown automata of higher order. 91c:68041
- (with Niwiński, Damian; Tiuryn, Jerzy) A generalization of Cook's auxiliary-pushdown-automata theorem. 91f:68023
- Kruskal, Clyde P. (with Rudolph, Larry; Snir, Marc) A complexity theory of efficient parallel algorithms. 91h:68046
- Kudlek, Manfred see Diekert, Volker, 91f:68038
- Kulch, Werner ω -continuous semirings, algebraic systems and pushdown automata. (see 91c:68004)
- Kumar, Vipin see Lin, Yow-Jian, (Not in MR)
- Kurshan, R. P. see Clarke, Edmund M.; et al., (91c:68005)
- Kutyłowski, Mirosław Computational power of one-way multithread finite automata. (see 91h:68011)
- (with Liśkiewicz, Maciej; Loryś, Krzysztof) Reversal complexity classes for alternating Turing machines. 91g:68039
- Lange, Klaus-Jörn (with Rossmanith, Peter) Characterizing unambiguous augmented pushdown automata by circuits. (see 91h:68011)
- Lee, Jang Gyu see Kim, Hyung Joong, 91h:68045
- Leoncini, Mauro Parallel models of computation: an introductory survey. 91k:68043
- Lin, Yow-Jian (with Kumar, Vipin) And-parallel execution of logic programs on a shared-memory multiprocessor. (Not in MR)
- Lippe, Wolfram-M. see Golubski, Wolfgang, (91h:68011)
- Liśkiewicz, Maciej (with Loryś, Krzysztof) Some time-space bounds for one-tape deterministic Turing machines. 91b:68026
- (with Loryś, Krzysztof) Fast simulations of time-bounded one-tape Turing machines by space-bounded ones. 91f:68044
- see also Kutyłowski, Mirosław; et al., 91g:68039
- Loryś, Krzysztof see Liśkiewicz, Maciej, 91b:68026; 91f:68044 and Kutyłowski, Mirosław; et al., 91g:68039
- Luk'yanova, E. G. (with Timonov, A. A.) Construction and investigation of the graph of a specialized pipeline processor for computer diagnostics. (Russian) (Not in MR)
- Lynch, Nancy A. (with Tuttle, Mark R.) An introduction to input/output automata. 91a:68059
- McColl, W. F. (with Paterson, Michael; Bowditch, B. H.) Planar acyclic computation. 91m:68045
- Mehlhorn, Kurt (with Paul, W. J.) Two versus one index register and modifiable versus nonmodifiable programs. 91a:68060
- Meinel, Christoph Ω -branching programs of bounded width. (see 91g:03006)
- Meitus, V. Yu. The problem of the equivalence of strictly deterministic real-time pushdown automata. 91f:68042
- Mentrasti, P. see Jacopini, G.; et al., 91k:68041
- Mitchell, John C. Polymorphic type inference and containment. 91c:68021
- Mulry, Philip S. Some connections between models of computation. 91a:68061
- Nivat, Maurice (with Saoudi, A.) Automata on infinite objects and their applications to logic and programming. 91f:68045
- Niwiński, Damian see Kowalczyk, Wojciech; et al., 91f:68023
- Olderog, E.-R. see Bergstra, J. A.; et al., 91b:68025
- Panangaden, Prakash (with Stark, Eugene W.) Computations, residuals, and the power of indeterminacy. 91h:68027
- Parberry, Ian (with Yan, Pei Yuan) Improved upper and lower time bounds for parallel random access machines without simultaneous writes. 91k:68044
- Paterson, Michael see McColl, W. F.; et al., 91m:68045
- Paul, W. J. see Mehlhorn, Kurt, 91a:68060
- Păun, Gheorghe (with Sântean, Lila) Number-theoretic mappings computed by G.S.M.s. 91h:68047
- Pia, Jean-Eric see Beauquier, Danilte, 91f:68037
- Pitt, Leonard Inductive inference, DFAs, and computational complexity. 91a:68062
- Probabilistic inductive inference. 91g:68040
- Radzik, Tomasz see Chlebus, Bogdan S.; et al., 91a:68055
- Ravikumar, Bala (with Ibarra, Oscar H.) Relating the type of ambiguity of finite automata to the succinctness of their representation. 91a:68063
- Robson, J. M. Strong time bounds: noncomputable bounds and a hierarchy theorem. 91k:68045
- Rollin, José D. P. On the formal aspects of approximation algorithms. (see 91m:68002)
- Rossmanith, Peter see Lange, Klaus-Jörn, (91h:68011)
- Rudolph, Larry see Kruskal, Clyde P.; et al., 91h:68046
- Salomaa, Kai Representation of recursively enumerable languages using alternating finite tree recognizers. 91c:68022
- Sântean, Lila see Păun, Gheorghe, 91h:68047
- Saoudi, A. Pushdown automata on infinite trees and omega-Kleene closure of context-free tree sets. 91d:68013
- see also Nivat, Maurice, 91f:68045
- Sarni, Djamil Lambda-calculus on occurrence. The theory and its combinatorial counterpart. (German and Russian summaries) 91c:68043
- Seidl, Helmut On the finite degree of ambiguity of finite tree automata. 91a:68064
- On the finite degree of ambiguity of finite tree automata. 91a:68065
- Equivalence of finite-valued bottom-up finite state tree transducers is decidable. (see 91c:68005)
- Seiferas, Joel I. (with Vitányi, Paul M. B.) Counting is easy. 91f:68046
- Shkilyak, S. S. A study of program algebras of functions of natural variables and values. (Russian) 91b:68028
- Slobodova, Anna One-way globally deterministic synchronized alternating finite automata recognize exactly deterministic context-sensitive languages. 91h:68048
- Smith, Carl H. see Freivalds, Rūsiņš; et al., 91f:68041
- Snir, Marc see Kruskal, Clyde P.; et al., 91h:68046
- Sontacchi, G. see Jacopini, G.; et al., 91k:68041
- Stark, Eugene W. Connections between a concrete and an abstract model of concurrent systems. 91h:68049
- see also Panangaden, Prakash, 91h:68027
- Takanami, Itsuo see Inoue, Katsushi, 91a:68056; Ito, Akira; et al., 91a:68057 and 91a:68058
- Timonov, A. A. see Luk'yanova, E. G., (Not in MR)
- Tiuryn, Jerzy see Kowalczyk, Wojciech; et al., 91f:68023
- Trakhtenbrot, Boris A. Comparing the Church and Turing approaches: two prophetic messages. (see 91b:03004)
- Turán, György On restricted Boolean circuits. 91a:68066
- (Turing, Alan M.) see Trakhtenbrot, Boris A., (91b:03004)
- Tuttle, Mark R. see Lynch, Nancy A., 91a:68059
- Upfal, Eli see Karlin, Anna R., (Not in MR)
- Vardi, Moshe Y. A note on the reduction of two-way automata to one-way automata. 91d:68014
- Velauphillai, Mahendran see Freivalds, Rūsiņš; et al., 91f:68041
- Vitányi, Paul M. B. see Seiferas, Joel I., 91f:68046
- Walters, R. F. C. see Kasangian, Stefano, 91j:68033
- Wang, Bing-Feng (with Ch'en, Chien Hui) Two-dimensional processor array with a reconfigurable bus system is at least as powerful as CRCW model. 91h:68050
- Weber, Andreas Distance automata having large finite distance or finite ambiguity. (see 91h:68011)
- On the valuedness of finite transducers. 91f:68024
- Wegener, Ingo Efficient simulation of circuits by EREW PRAMS. 91h:68051
- Wigderson, Avi see Fich, Faith E., 91f:68039
- Yamada, Shinichi see Kikyo, Hirotsuka, 91c:68020
- Yan, Pei Yuan see Parberry, Ian, 91h:68044
- Yokouchi, Hirofumi Church-Rosser theorem for a rewriting system on categorical combinators. 91a:68067
- Zakharov, V. A. Automata models of programs. (Russian) 91f:68047

Items with secondary classifications in 68Q05

- Abadi, Martin (with Feigenbaum, Joan) Secure circuit evaluation. A protocol based on hiding information from an oracle. 91f:68079
- Ablav, F. M. On comparing probabilistic and deterministic automata complexity of languages. 91f:68107
- Abramsky, Samson A generalized Kahn principle for abstract asynchronous networks. 91c:68025
- Anselmo, M. Two-way reading on words. (see 91h:68006)
- Asperti, Andrea Stability and computability in coherent domains. 91j:03030
- Birget, Jean-Camille Concatenation of inputs in a two-way automaton. 91d:68064
- Book, Ronald V. Restricted relativizations of complexity classes. (see 91f:68004)
- (with Tang, Shou Wen) A note on sparse sets and the polynomial-time hierarchy. 91d:68027
- Büchi, J. Richard ★ Finite automata, their algebras and grammars. 91b:68057
- Cămpănu, Cezar Post's correspondence problem. A new proof. 91c:03047
- Castro, Juan Luis (with Cucker, Felipe) Nondeterministic ω -computations and the analytical hierarchy. 91g:03081
- Chandra, Ashok K. (with Tompa, Martin) The complexity of short two-person games. 91j:68042
- Chen, Jian-er The difference between one tape and two tapes: with respect to reversal complexity. 91h:68061
- Chlebus, Bogdan S. Turing machines with access to history. 91k:03100
- Cloze, Peter G. A smash-based hierarchy between PTIME and PSPACE (preliminary version). (see 91a:03002)
- Cucker, Felipe see Castro, Juan Luis, 91g:03081
- Curien, Pierre-Louis Alpha-conversion, conditions on variables and categorical logic. 91k:03153
- Dassow, Jürgen (with Hromkovič, Juraj; Karhumäki, Juhani; Rován, Branislav; Slobodova, Anna) On the power of synchronization in parallel computations. 91g:68056
- Ehrenfeucht, Andrzej (with Rozenberg, Grzegorz) A characterization of set representable labeled partial 2-structures through decompositions. 91m:68139
- Esfahanian, Abdol Hossein (with Ni, Lionel M.; Sagan, Bruce E.) The twisted N -cube with application to multiprocessing. 91m:05154
- Feigenbaum, Joan see Abadi, Martin, 91f:68079
- Feldman, David (with Impagliazzo, Russell; Naor, Moni; Nisan, Noam; Rudich, Steven; Shamir, Adi) On dice and coins: models of computation for random generation. 91a:68089
- Fich, Faith E. (with Li, Ming; Ragde, Prabhakar; Yesha, Yaacov) On the power of concurrent-write PRAMS with read-only memory. 91c:68025
- Fulk, Mark A. see Sanchis, Laura A., 91f:68067
- Gafni, Eli (with Naor, Joseph; Ragde, Prabhakar) On separating the EREW and CREW PRAM models. 91d:68017
- Grädel, Erich Domino games and complexity. 91m:68058
- Grandjean, Étienne First-order spectra with one variable. 91k:03078
- Gueissarian, Irène A characterization of fair computations of finite state SCCS processes. 91c:68027
- Harrison, Peter G. (with Patel, Naresh M.) The representation of multistage interconnection networks in queueing models of parallel systems. 91j:68010
- (Hartmanis, Juris) see Computational complexity theory, 91j:68004
- Hemachandra, Lane A. The strong exponential hierarchy collapses. 91d:68035
- Hodges, Andrew Alan Turing and the Turing machine. (see 91b:03004)
- Hromkovič, Juraj On problems for which no oracle can help. 91m:68083

- see also Inoue, Katsushi; et al., 91a:68094 and Dassow, Jürgen; et al., 91g:68056
 Impagliazzo, Russell (with Rudich, Steven) Limits on the provable consequences of one-way permutations. 91i:94028
- see also Feldman, David; et al., 91a:68089
 Inoue, Katsushi (with Takanami, Itsumi; Hromkovič, Juraj) A leaf-size hierarchy of two-dimensional alternating Turing machines. 91a:68094
- Iwata, Shigeaki (with Kasai, Takumi) Simulations of Turing machines by 2NPDA and their applications to open problems. 91g:68057
- Kadin, Jim Erratum: "The polynomial time hierarchy collapses if the Boolean hierarchy collapses" [SIAM J. Comput. 17 (1988), no. 6, 1263–1282; MR 90a:03060]. 91k:03102
- Karhumäki, Juhani see Dassow, Jürgen; et al., 91g:68056
- Kasai, Takumi see Iwata, Shigeaki, 91g:68057
- Kleene, Stephen C. Turing's analysis of computability, and major applications of it. (see 91b:03004)
- Kolaitis, Phokion G. (with Vardi, Moshe Y.) 0-1 laws and decision problems for fragments of second-order logic. 91i:03067
- Kröger, Fred On the interpretability of arithmetic in temporal logic. 91j:03014
- Lattaux, Michel (with Timmerman, E.) Rational ω -transductions. (see 91h:68011)
- Leivant, Daniel Descriptive characterizations of computational complexity. 91g:68057
- Lenke, Thomas (with Seibt, Heinz) On identities of the generalized Turing algebra. I. (German and Russian summaries) 91f:03083
- Lewis, Philip see Qin, Huijun, (91g:68003)
- Li, Ming see Fich, Faith E.; et al., 91c:68025
- Lisovik, L. P. Algebras for semilinear transducers over marked trees. (Russian) 91a:68180
- Mansour, Yishay (with Schieber, Baruch; Tiwari, Praseen) Lower bounds for computations with the floor operation. 91m:68087
- Meinel, Christoph Restricted branching programs and their computational power. 91j:68043
- Polynomial size Ω -branching programs and their computational power. 91b:68037
- Michaux, Christian Une remarque à propos des machines sur \mathbb{R} introduites par Blum, Shub et Smale. (English summary) [A remark about the machines over \mathbb{R} introduced by Blum, Shub and Smale] 91g:03120
- Möhring, Rolf H. Computationally tractable classes of ordered sets. 91g:68129
- Naor, Joseph see Gafni, Eli; et al., 91d:68017
- Naor, Momi see Feldman, David; et al., 91a:68089
- Ni, Lionel M. see Esfahanian, Abdol Hossein; et al., 91m:05154
- Nisan, Noam see Feldman, David; et al., 91a:68089
- Pankrat'ev, N. A. The language of Turing machines from the point of view of optimality. (Russian) 91h:03052
- Patel, Naresh M. see Harrison, Peter G., 91j:68010
- Pippenger, Nicholas Invariance of complexity measures for networks with unreliable gates. 91f:68010
- Developments in "The synthesis of reliable organisms from unreliable components". 91m:03012
- Qin, Huijun (with Lewis, Philip) Factorization of finite state machines under observational equivalence. (see 91g:68003)
- Ragde, Prabhakar see Fich, Faith E.; et al., 91c:68025 and Gafni, Eli; et al., 91d:68017
- Reischuk, Rüdiger Karl Einführung in die Komplexitätstheorie. (German) [Introduction to complexity theory] 91i:68002
- Romanowska, Anna B. (with Smith, Jonathan D. H.) Communicating processes and entropic algebras. 91k:68126
- Rovan, Branislav see Dassow, Jürgen; et al., 91g:68056
- Rosenberg, Grzegorz see Ehrenfeucht, Andrzej, 91m:68139
- Rudich, Steven see Feldman, David; et al., 91a:68089 and Impagliazzo, Russell, 91i:94028
- Rytter, Wojciech On parallel computations of expressions and straight-line programs. 91h:68057
- Sagan, Bruce E. see Esfahanian, Abdol Hossein; et al., 91m:05154
- Sanchis, Laura A. (with Falk, Mark A.) On the efficient generation of language instances. 91f:68067
- Schieber, Baruch see Mansour, Yishay; et al., 91m:68087
- Schnitzlein, W. (with Stoss, Hans-Jörg) Linear-time simulation of multithread Turing machines. 91c:68034
- Seibt, Heinz see Lenke, Thomas, 91f:03083
- Shamir, Adi see Feldman, David; et al., 91a:68089
- (Siefkes, Dirk) see Büchi, J. Richard, 91b:68057
- Simion, Rodica E. Finite automata for languages of combinatorial interest: an order theoretical point of view. 91c:95009
- Slobodová, Anna see Dassow, Jürgen; et al., 91g:68056
- Smith, Jonathan D. H. see Romanowska, Anna B., 91k:68126
- Solov'ev, V. D. Completeness of systems of recursive functions and predicates. I. 91i:03083
- Stoss, Hans-Jörg see Schnitzlein, W., 91c:68034
- Takanami, Itsumi see Inoue, Katsushi; et al., 91a:68094
- Tang, Shou Wen see Book, Ronald V., 91d:68027
- Thérien, Denis Programs over aperiodic monoids. 91a:68203
- Thomas, Wolfgang Computation tree logic and regular ω -languages. 91f:68123
- Infinite trees and automaton definable relations over ω -words. 91h:03051
- Timmerman, E. see Lattaux, Michel, (91h:68011)
- Tiwari, Praseen see Mansour, Yishay; et al., 91m:68087
- Tompa, Martin see Chandra, Ashok K., 91j:68042
- (Turing, Alan M.) see Hodges, Andrew, (91b:03004) and Kleene, Stephen C., (91b:03004)
- Vardi, Moshe Y. see Kolaitis, Phokion G., 91i:03067
- Yesha, Yancov see Fich, Faith E.; et al., 91c:68025
- Zielonka, Wiesław Safe executions of recognizable trace languages by asynchronous automata. 91f:68056

Items listed otherwise than by author

Atlanta, GA ★ Computational complexity theory. 91j:68004

Computational complexity theory ★ Computational complexity theory. 91j:68004

Obituary:

Büchi, J. Richard see Büchi, J. Richard, 91b:68057

Proceedings of Symposia in Applied Mathematics ★ Computational complexity theory. 91j:68004

68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [see also 68Q90]

- Abadi, Martín An axiomatization of Lamport's temporal logic of actions. (see 91g:68003)
- Abramsky, Samson A generalized Kahn principle for abstract asynchronous networks. 91e:68025
- Aceto, L. (with Hennessy, Matthew) Termination, deadlock and divergence. (see 91e:68008)
- Acharya, S. M. Parallel microprograms as formal systems. 91i:68026
- Agarwal, Anant see Nussbaum, Daniel, (Not in MR)
- Aggarwal, Alok (with Anderson, Richard John; Kao, Ming-Yang) Parallel depth-first search in general directed graphs. 91i:68027
- (with Chandra, Ashok K.; Snir, Marc) Communication complexity of PRAMs. 91e:68052
- Ahamad, Mustaque see Bernabéu-Aubán, José M., 91a:68069
- Ahuja, Mohan Flush primitives for asynchronous distributed systems. (Not in MR)
- Ali, Khayri A. M. (with Karlsson, Roland) The muse approach to Or-parallel Prolog. (Not in MR)
- Ammar, Reda A. see Qin, Bin, 91m:68054
- Anderson, Richard John see Aggarwal, Alok; et al., 91i:68027
- Arnold, André An example of sequentialization of a parallel algorithm. (Not in MR)
- Astresiano, Egidio (with Giovini, Alessandro; Reggio, Gianna) Processes as data types: observational semantics and logic (extended abstract). (see 91h:68016)
- Baeten, J. C. M. (with van Glabbeek, Rob J.) Abstraction and empty process in process algebra. 91a:68068
- Bagyinszki, János (with Bagyinszkiné-Orosz, Anna) On a hierarchy of super-net languages. 91f:68048
- Bagyinszkiné-Orosz, Anna see Bagyinszki, János, 91f:68048
- de Bakker, J. W. (with Warmerdam, J. H. A.) Metric pomset semantics for a concurrent language with recursion. 91j:68034
- Bertha, Miklós Interpretations of synchronous flowchart schemes. 91d:68015
- Bernini, Abdelhamid (with Quinton, Patrice; Robert, Yves; Sauter, Y.; Tourancheau, Bernard) Synthesis of a new systolic architecture for the algebraic path problem. (Not in MR)
- Benson, David B. Bialgebras: some foundations for distributed and concurrent computation. 91e:68044
- see also Tiwari, Jerzy, 91c:68029
- Bernabéu-Aubán, José M. (with Ahamad, Mustaque) Applying a path-compression technique to obtain an efficient distributed mutual exclusion algorithm. 91a:68069
- Best, Elke ★ Kausale Semantik nichtsequentieller Programme. (German) [Causal semantics of nonsequential programs] 91f:68028
- (with Lengauer, Christian) Semantic independence. 91c:68023
- Block, Kenneth (with Woo, Tai-Kuo) A more efficient generalization of Peterson's mutual exclusion algorithm. (Not in MR)
- Bloom, Bard (with Meyer, Albert R.) A remark on bisimulation between probabilistic processes. 91a:68070
- Bodlaender, Hans L. Some lower bound results for decentralized extrema-finding in rings of processors. 91m:68046
- Boghossian, Bruce M. Data-parallel computation and connection machine. (see 91m:00034)
- Bradford, Julian (with Stirling, Colin) Verifying temporal properties of processes. (see 91g:68003)
- (Brainer, Wilfried) see Taubner, Dirk, 91a:68085
- Browne, M. C. (with Clarke, Edmund M.; Grumberg, Orna) Reasoning about networks with many identical finite state processes. 91a:68071
- Broy, Manfred Requirement and design specification for distributed systems. 91a:68072
- Brodaru, Octav A note on the design of linear systolic arrays for some real functions computation. (Romanian summary) (Not in MR)
- Buza, M. K. (with Zimyanin, L. F.) A sectional model of parallel computations. 91f:68029
- Castellani, Ilaria (with Hennessy, Matthew) Distributed bisimulations. (Not in MR)
- Chandra, Ashok K. see Aggarwal, Alok; et al., 91i:68025
- Chang, Jik H. (with Ibarra, Oscar H.; Palis, Michael A.) Efficient simulations of simple models of parallel computation by time-bounded ATMs and space-bounded TMs. 91k:68046
- Cherkasova, L. A. (with Filyurin, A. S.) Concurrent processes with synchronization: net and algebraic approach. 91a:68073
- (with Kotov, V. E.) Descriptive and analytical process algebras. 91d:68016
- Christoff, Ivan Testing equivalences and fully abstract models for probabilistic processes. (see 91g:68003)
- Cieslak, Randall A. (with Varaiya, Pravin P.) Undecidability results for deterministic communicating sequential processes. 91f:68049
- Clarke, Edmund M. see Browne, M. C.; et al., 91a:68071
- Cleaveland, Rance (with Steffen, Bernhard) A preorder for partial process specifications. (see 91g:68003)
- Czaja, Ludwik Finite processes in cause-effect structures and their composition. 91a:68074
- Danelutto, M. (with Masini, A.) A temporal logic approach to specify and to prove properties of finite state concurrent systems. 91a:68075
- Darondeau, Philippe (with Degano, Pierpaolo) Event structures, causal trees, and refinements. (see 91h:68011)
- Concurrency and computability. (see 91h:68016)
- Das, Sajal K. (with Deo, Narsingh) Notes on: "Divide-and-conquer-based optimal parallel algorithms for some graph problems on EREW PRAM model" [IEEE Trans. Circuits and Systems 35 (1988), no. 3, 312–322; MR 89d:68017]. 91g:68041
- Davies, Jim (with Schneider, Steve) Factorizing proofs in timed CSP. (see 91c:68008)
- De Agostino, Sergio (with Petreschi, Rossella) On PV_{clock} operations and matrogenic graphs. 91j:68035
- (with Petreschi, Rossella) Parallel recognition algorithms for graphs with restricted neighbourhoods. 91i:68030

- Dederichs, Frank** (with Weber, Rainer) Safety and liveness from a methodological point of view. 91h:68053
- Degano, Pierpaolo** see Darondeau, Philippe, (91h:68011)
- De Nicola, Rocco** (with Montanari, Ugo; Vaandrager, Frits) Back and forth bisimulations. (see 91g:68003)
- (with Ferrari, Gian Luigi) Observational logics and concurrency models. 91j:68036
- (with Vaandrager, Frits) Action versus state based logics for transition systems. 91k:68047
- Deo, Narsingh** see Das, Sajal K., 91g:68041
- Desel, Jörg** Reduction and design of well-behaved concurrent systems. (see 91g:68003)
- Despain, Alvin M.** see Fagin, Barry S., (Not in MR)
- Diekert, Volker** (with Vogler, Walter) On the synchronization of traces. 91c:68024
- Droste, Manfred** Concurrency, automata and domains. (see 91e:68004)
- Ehrenfeucht, Andrzej** (with Rozenberg, Grzegorz) Partial (set) 2-structures. I. Basic notions and the representation problem. 91f:68050a
- (with Rozenberg, Grzegorz) Partial (set) 2-structures. II. State spaces of concurrent systems. 91f:68050b
- Engberg, Uffe** (with Winskel, Glynn) Petri nets as models of linear logic. (see 91e:68005)
- see also Nielsen, Mogens; et al., 91b:68031
- Eppstein, David** (with Galil, Zvi) Parallel algorithmic techniques for combinatorial computation. 91g:68042
- Evans, David J.** see Megson, G. M., (Not in MR)
- Fagin, Barry S.** (with Despain, Alvin M.) The performance of parallel Prolog programs. (Not in MR)
- Fernandez, Jean-Claude** An implementation of an efficient algorithm for bisimulation equivalence. 91g:68043
- Ferrari, Gian Luigi** (with Montanari, Ugo) Towards the unification of models for concurrency. (see 91e:68005)
- see also De Nicola, Rocco, 91j:68036
- Fich, Faith E.** (with Li, Ming; Ragde, Prabhakar; Yesha, Yaacov) On the power of concurrent-write PRAMs with read-only memory. 91c:68025
- Filyurin, A. S.** see Cherkasova, L. A., 91a:68073
- Forman, Ira R.** see Francez, Nissim, (91g:68003)
- Foster, I.** (with Kesselman, C.; Taylor, Stephen) Concurrency: simple concepts and powerful tools. (Not in MR)
- Francez, Nissim** (with Forman, Ira R.) Superimposition for interacting processes. (see 91g:68003)
- Corrigenda: "Cooperating proofs for distributed programs with multiparty interactions" [Inform. Process. Lett. 32 (1989), no. 5, 235–242; MR 90m:68034a]. (Not in MR)
- Gafni, Eli** (with Naor, Joseph; Ragde, Prabhakar) On separating the EREW and CREW PRAM models. 91d:68017
- Galil, Zvi** see Eppstein, David, 91g:68042
- Gareev, I. I.** see Nuriev, R. M.; et al., 91b:68055
- Gastin, Paul** Infinite traces. 91k:68048
- Geigas, Kastytis** Hoare compositional logic for distributed programs, and the structure of a global invariant. (Russian. English and Lithuanian summaries) (Not in MR)
- Geniet, Dominique** (with Thimonier, Loys) Using generating functions to compute concurrency. 91c:68026
- Gerber, Richard** (with Lee, Insup) CCSR: a calculus for communicating shared resources. (see 91g:68003)
- Giovini, Alessandro** see Astesiano, Egidio; et al., (91h:68016)
- van Glabbeek, Rob J.** (with Goltz, Ursula) Equivalences and refinement. 91m:68047
- see also Baeten, J. C. M., 91a:68068
- Goeman, Henk** Towards a theory of (self) applicative communicating processes: a short note. (Not in MR)
- Goguen, Joseph A.** Semantic specifications for the rewrite rule machine. (see 91k:68004)
- Goltz, Ursula** CCS and Petri nets. 91m:68029
- see also van Glabbeek, Rob J., 91m:68047
- Corrieri, Roberto** (with Marchetti, Sergio; Montanari, Ugo) A²CCS: atomic actions for CCS. 91g:68044
- Greenberg, David S.** (with Heath, Lenwood S.; Rosenberg, Arnold L.) Optimal embeddings of butterfly-like graphs in the hypercube. 91b:68029
- Greenlaw, Raymond** (with Snyder, Lawrence) Achieving speedups for APL on an SIMD distributed memory machine. 91m:68049
- Gribomont, E. Pascal** A programming logic for formal concurrent systems. (see 91g:68003)
- Grolmusz, Vince** (with Ragde, Prabhakar) Incomparability in parallel computation. 91i:68031
- Grünberg, Orna** see Browne, M. C.; et al., 91a:68071
- Guaisna, G.** (with Restivo, Antonio; Salemi, S.) Complete subgraphs of bipartite graphs and applications to trace languages. (French summary) 91i:68032
- Guestrarian, Irène** A characterization of fair computations of finite state SCCS processes. 91c:68027
- (with Niar-Dinedane, Wafila) Fairness and regularity for SCCS processes. (French summary) 91d:68018
- Gurevich, Yuri** Algorithms in the world of bounded resources. (see 91b:68064)
- Han, Yijie** (with Wagner, Robert A.) An efficient and fast parallel-connected component algorithm. 91g:68045
- Hasslacher, Brosi** Beyond the Turing machine. (see 91b:68064)
- Heath, Lenwood S.** see Greenberg, David S.; et al., 91b:68029
- Helmbold, David P.** (with McDowell, Charles E.) Modeling speedup (n) greater than n . 91j:68037
- Hennessy, Matthew** (with Ingólfssdóttir, A.) A theory of communicating processes with value-passing. (see 91e:68004)
- see also Castellani, Ilaria, (Not in MR) and Aceto, L., (91e:68008)
- Hromkovic, Juraj** Branching programs versus oblivious branching programs. (Russian summary) 91m:68050
- Ibarra, Oscar H.** see Chang, Jih H.; et al., 91b:68046
- Ingólfssdóttir, A.** see Hennessy, Matthew, (91e:68004)
- Jagadeesan, Radhakrishnan** (with Panagaden, Prakash) A domain-theoretic model for a higher-order process calculus. (see 91e:68004)
- Jančar, Petr** Decidability of a temporal logic problem for Petri nets. 91k:68049
- Janicki, Ryszard** (with Müldner, Tomasz) Transformations of sequential specifications into concurrent specifications by synchronization guards. 91k:68050
- Josephs, Mark B.** (with Udding, Jan Tijmen) Delay-insensitive circuits: an algebraic approach to their design. (see 91g:68003)
- Jou, Chi-Chang** (with Smolka, Scott A.) Equivalences, congruences, and complete axiomatizations for probabilistic processes. (see 91g:68003)
- Julliard, Jacques** (with Perrin, Guy-René) Asynchronous functional parallel programs. (see 91m:68002)
- Kalyanasundaram, Bala** (with Schnitger, Georg) Rounds versus time for the two person pebble game. 91k:68051
- Kao, Ming-Yang** see Aggarwal, Alok; et al., 91b:68027
- Kapitonova, Yu. V.** (with Ovseits, M. L.) M -schemes for macropipeline computations. (Not in MR)
- Kaplan, Stéphane** Algebraic specification of concurrent systems. 91b:68030
- Karlsson, Roland** see Ali, Khayri A. M., (Not in MR)
- Kasangian, Stefano** (with Labella, Anna; Pettorossi, Alberto) Observers, experiments, and agents: a comprehensive approach to parallelism. 91k:68052
- Keesmaat, N. W.** (with Kleijn, H. C. M.; Rozenberg, Grzegorz) Vector controlled concurrent systems. I. Basic classes. 91k:68053
- Kennaway, J. Richard** Implementing term rewrite languages in Dactl. 91g:68046
- Kesselman, C.** see Foster, I.; et al., (Not in MR)
- Klehn, Astrid** Petri net systems and their closure properties. 91d:68019
- Kim, Myunghwan** see Park, Moon Hwa, (Not in MR)
- Klousis, Lefteris M.** (with Kranakis, Evangelos) A brief survey of concurrent readers and writers. 91e:68045
- Kleijn, H. C. M.** see Keesmaat, N. W.; et al., 91k:68053
- Knapp, Edgar** A predicate transformer for progress. 91a:68076
- Kok, Joost N.** (with Rutten, Jan J. M. M.) Contractions in comparing concurrency semantics. 91j:68038
- Kotin, Leon** see Stark, W. Richard, 91h:68058
- Kotor, V. E.** see Cherkasova, L. A., 91d:68016
- Kranakis, Evangelos** see Klousis, Lefteris M., 91e:68045
- Kwiatkowska, Marta Z.** A metric for traces. 91g:68047
- Labella, Anna** see Kasangian, Stefano; et al., 91k:68052
- Lampson, Butler W.** Specifying distributed systems. 91a:68077
- Larsen, Kim Guldstrand** Ideal specification formalism = expressivity + compositionality + decidability + testability + (see 91g:68003)
- Larsen, Kim S.** see Nielsen, Mogens; et al., 91b:68031
- Lazar, Aurel A.** (with Robertazzi, Thomas G.) Markovian Petri net protocols with product form solution. 91m:68051
- Lee, Insup** see Gerber, Richard, (91g:68003)
- Langauer, Christian** see Best, Elke, 91c:68023
- Letichevskii, Aleksandr Adol'fovich** Mixed computations and optimization of programs. 91g:68048
- Lewis, Philip** see Qin, Huijun, (91g:68003)
- Li, Ming** see Fich, Faith E.; et al., 91c:68025
- Liu, Zhi Ming** A continuous algebraic semantics of CSP. (Not in MR)
- Luccio, Fabrizio** (with Pietracaprina, Andrea; Pucci, Geppino) A new scheme for the deterministic simulation of PRAMs in VLSI. 91g:68049
- Maggiolo-Schettini, Andrea** (with Winkowski, Józef) A compositional semantics for timed Petri nets. 91h:68054
- Majster-Cederbaum, Milla E.** The contraction property is sufficient to guarantee the uniqueness of fixed points of endofunctors in a category of complete metric spaces. 91a:68078
- Marchetti, Sergio** see Corrieri, Roberto; et al., 91g:68044
- Martin, Alain J.** (with van de Snepscheut, Jan L. A.) Design of synchronization algorithms. 91a:68079
- Masini, A.** see Danelutto, M., 91a:68075
- Mazurkiewicz, Antoni** (with Ochmański, Edward; Penczek, Wojciech) Concurrent systems and inevitability. 91a:68080
- McDowell, Charles E.** see Helmbold, David P., 91j:68037
- Megson, G. M.** (with Evans, David J.) A systolic array solution for the assignment problem. (Not in MR)
- Meseguer, José** Rewriting as a unified model of concurrency. (see 91g:68003)
- Meyer, Albert R.** see Bloom, Bard, 91a:68070
- Meyer, J.-J. Ch.** (with Olderog, E.-R.) Hiding in stream semantics of uniform concurrency. 91m:68052
- Milner, Robin** A complete axiomatisation for observational congruence of finite-state behaviours. 91g:68050
- Functions as processes. (see 91e:68004)
- Interpreting one concurrent calculus in another. 91k:68054
- Misra, Jayadev** A foundation of parallel programming. 91d:68020
- Moller, Faron** The importance of the left merge operator in process algebras. (see 91e:68004)
- (with Tofts, Chris) A temporal calculus of communicating systems. (see 91g:68003)
- Moonen, Burkhard** (with Sudborough, Ivan Hal) Embedding one interconnection network in another. (German summary) 91f:68051
- Montanari, Ugo** (with Spagnum, Marcello) Canonical representatives for observational equivalence classes. 91h:68055
- see also Corrieri, Roberto; et al., 91g:68044; Ferrari, Gian Luigi, (91e:68005) and De Nicola, Rocco; et al., (91g:68003)
- Monti, A.** (with Parente, D.) Comparison results for particular systolic tree automata. 91m:68053
- Moutassir, H.** (with Sijelmassi, R.) Formulation syntaxique de la communication de processus asynchrones à travers des canaux FIFO. (English summary) [Syntactic formulation of the communication of asynchronous processes via FIFO channels] 91d:68021
- Mukund, Madhavan** (with Thiagarajan, P. S.) An axiomatization of event structures. 91k:68028

- Mildner, Tomasz. *see* Janicki, Ryszard, 91f:68050
- Nafikov, I. Z. *see* Nuriev, R. M.; et al., 91f:68055
- Nao, Joseph. *see* Gafni, Eli; et al., 91d:68017
- Niar-Dinedane, Wafaa. *see* Gaessarian, Irène, 91d:68018
- Nielsen, Mogens (with Engberg, Uffe; Larsen, Kim S.) Fully abstract models for a process language with refinement. 91b:68031
- Nivat, Maurice. *see* Priese, Lutz, 91f:68081
- Nolte, Doris. *see* Priese, Lutz, (91g:03006)
- Nuriev, R. M. (with Nafikov, I. Z.; Gareev, I. I.) Regular calculations on a system of ring architecture. 91f:68055
- Nussbaum, Daniel (with Agarwal, Anant) Scalability of parallel machines. (Not in MR)
- Ochmański, Edward. *see* Mazurkiewicz, Antoni; et al., 91a:68080
- Olderog, E.-R. *see* Meyer, J.-J. Ch., 91m:68052
- Oreets, M. I. *see* Kapitonova, Yu. V., (Not in MR)
- Paczkowski, Paweł Proving termination of communicating programs. (see 91g:68003)
- Palis, Michael A. *see* Chang, Jik H.; et al., 91f:68046
- Panangaden, Prakash (with Shanbhogue, Vasant; Stark, Eugene W.) Stability and sequentiality in dataflow networks. (see 91f:68004)
- *see also* Jagadeesan, Radhakrishnan, (91f:68004)
- Parente, D. *see* Monti, A., 91m:68053
- Park, Moon Hwa (with Kim, Myungwhan) A distributed synchronization scheme for fair multi-process handshakes. (Not in MR)
- Parrow, Joachim Submodule construction as equation solving in CCS. 91f:68052
- Structural and behavioural equivalences of networks. (see 91e:68004)
- Peiz, Elisabeth About the concurrent behaviour of EN systems: definability and closure results. 91f:68046
- Penczek, Wojciech. *see* Mazurkiewicz, Antoni; et al., 91a:68080
- Perrin, Guy-René. *see* Jullian, Jacques, (91m:68002)
- Petreschi, Rossella. *see* De Agostino, Sergio, 91f:68030 and 91f:68035
- Pettorossi, Alberto. *see* Kasangian, Stefano; et al., 91f:68052
- Pietracaprina, Andrea. *see* Lucio, Fabrizio; et al., 91g:68049
- Priese, Lutz (with Nivat, Maurice) On the existence of fair schedulers. 91a:68081
- (with Nolte, Doris) Semantic for abstract fairness using metric spaces. (see 91g:03006)
- Pucci, Gennaro. *see* Lucio, Fabrizio; et al., 91g:68049
- Qin, Bin (with Ammar, Rida A.) A mathematical model to estimate average response time of parallel programs. 91m:68054
- Qin, Huijun (with Lewis, Philip) Factorization of finite state machines under observational equivalence. (see 91g:68003)
- Quinton, Patrice. *see* Benaim, Abdelhamid; et al., (Not in MR)
- Ragde, Prabhakar. *see* Fich, Faith E.; et al., 91c:68025; Gafni, Eli; et al., 91d:68017 and Grolmusz, Vince, 91f:68031
- Ramanjan, R. Semantics of distributed definite clause programs. 91f:68053
- Raynal, Michel Prime numbers as a tool to design distributed algorithms. 91a:68082
- Reed, G. M. A hierarchy of domains for real-time distributed computing. (see 91f:68008)
- (with Roscoe, A. W.) Analysing TM_{FF} : a study of nondeterminism in real-time concurrency. (see 91k:68004)
- Reggio, Gianna. *see* Asteiano, Egidio; et al., (91h:68016)
- Reif, John Henry (with Smolka, Scott A.) Data flow analysis of distributed communicating processes. 91h:68056
- Restivo, Antonio. *see* Guiana, G.; et al., 91f:68032
- Robert, Yves. *see* Benaim, Abdelhamid; et al., (Not in MR)
- Robertazzi, Thomas G. *see* Lazar, Asael A., 91m:68051
- Robson, J. M. Random access machines with multi-dimensional memories. 91g:68051
- Rönn, Stefan (with Saikkonen, Heikki) Distributed termination detection with counters. (Not in MR)
- Roscoe, A. W. *see* Reed, G. M., (91k:68004)
- Rosenberg, Arnold L. *see* Greenberg, David S.; et al., 91b:68029
- Rosenberg, Grzegorz. *see* Ehrenfeucht, Andrzej, 91f:68050a; 91f:68050b and Keesmaat, N. W.; et al., 91k:68053
- Rozay, Brigitte On distributed languages and models for distributed computation (extended abstract). (see 91h:68016)
- Rutten, Jan J. M. M. *see* Kak, Joost N., 91f:68038
- Rytter, Wojciech On parallel computations of expressions and straight-line programs. 91h:68057
- Sahel, N. Concurrency measure in commutation monoids. (French summary) 91a:68083
- Saikkonen, Heikki. *see* Rönn, Stefan, (Not in MR)
- Salemi, S. *see* Guiana, G.; et al., 91f:68032
- Sauter, Y. *see* Benaim, Abdelhamid; et al., (Not in MR)
- Schneider, Hans-Jürgen Describing distributed systems by categorical graph grammars. (see 91h:68006)
- Schneider, Steve. *see* Davies, Jim, (91c:68008)
- Schnitger, Georg. *see* Kalyanasundaram, Bala, 91k:68051
- Sgamma, Marcello. *see* Montanari, Ugo, 91f:68055
- Shanbhogue, Vasant. *see* Panangaden, Prakash; et al., (91f:68004)
- Sijelmassi, R. *see* Mountassir, H., 91d:68021
- Singh, Ambuj K. An axiomatization of wait-freedom and low-atomicity. (see 91m:68002)
- Smolka, Scott A. (with Steffen, Bernhard) Priority as extremal probability. (see 91g:68003)
- *see also* Reif, John Henry, 91h:68056 and Joo, Chi-Chang, (91g:68003)
- van de Snepdrecht, Jan L. A. *see* Martin, Alain J., 91f:68079
- Snir, Marc. *see* Aggarwal, Alok; et al., 91h:68052
- Snyder, Lawrence. *see* Greenlaw, Raymond, 91m:68049
- Sofronieci, I. On the synchronising algebras. 91a:68084
- Stark, Eugene W. Concurrent transition systems. 91f:68047
- *see also* Panangaden, Prakash; et al., (91f:68004)
- Stark, W. Richard (with Kotin, Leon) The social metaphor for distributed processing. 91h:68058
- Steffen, Bernhard. *see* Cleaveland, Rance, (91g:68003) and Smolka, Scott A., (91g:68003)
- Strling, Colin Temporal logics for CCS. 91d:68022
- An introduction to modal and temporal logics for CCS. (see 91k:68004)
- *see also* Bradfield, Julian, (91g:68003)
- Sudborough, Ivan Hal. *see* Monien, Burkhard, 91f:68051
- Taubner, Dirk. ★ Finite representations of CCS and TCSF programs by automata and Petri nets. 91a:68085
- (with Vogler, Walter) Step failures semantics and a complete proof system. 91a:68086
- Representing CCS programs by finite predicate/transition nets. 91e:68048
- Taylor, Stephen. *see* Foster, I.; et al., (Not in MR)
- Thiagarajan, P. S. Some behavioural aspects of net theory. 91f:68033
- *see also* Mukund, Madhavan, 91c:68028
- Thimonier, Loys. *see* Geniet, Dominique, 91c:68026
- Thomkin, Michael Probabilistic termination versus fair termination. 91f:68054
- Tinry, Jerzy (with Benson, David B.) Fixed points in free process algebras. II. 91c:68029
- Tofts, Chris A synchronous calculus of relative frequency. (see 91g:68003)
- *see also* Moller, Faron, (91g:68003)
- Tourancheau, Bernard. *see* Benaim, Abdelhamid; et al., (Not in MR)
- Turski, Władysław M. On starvation and some related issues. (Not in MR)
- Udding, Jan Tjimen. *see* Josephs, Mark B., (91g:68003)
- Vaandrager, Frits. *see* De Nicola, Rocco, 91k:68047 and (91g:68003)
- Van de Velde, Eric F. Data redistribution and concurrency. 91f:68039
- Varaiya, Pravin P. *see* Cieslak, Randall A., 91f:68049
- Vidysankar, K. A very simple construction of 1-writer multireader multivalued atomic variable. (Not in MR)
- Voevodin, V. I. Statistical estimates of the possibility of detecting parallel structure in sequential programs. 91f:68034
- Vogler, Walter Failures semantics based on interval semiwords is a congruence for refinement. (see 91b:68011)
- *see also* Taubner, Dirk, 91a:68086 and Diekert, Volker, 91c:68024
- Wagner, Robert A. *see* Han, Yijie, 91g:68045
- Walker, David James Bisimulation and divergence. 91g:68052
- Warmerdam, J. H. A. *see* de Bakker, J. W., 91f:68034
- Watanabe, Takao (with Yonezawa, Akinori) An actor-based metalevel architecture for group-wide reflection. (see 91m:68006)
- Weber, Rainer. *see* Dederichs, Frank, 91h:68053
- Weijland, W. P. The algebra of synchronous processes. 91a:68087
- Wiener, Oswald Form and content in thinking Turing machines. (see 91b:03004)
- Winkowski, Józef. *see* Maggiolo-Schettini, Andrea, 91h:68054
- Winkel, Glynn A note on model checking the modal ν -calculus. 91f:68055
- *see also* Engberg, Uffe, (91e:68005)
- Woo, Tai-Kuo. *see* Block, Kenneth, (Not in MR)
- Yasura, Hiroto Locally computable coding for unary operations. (see 91k:68004)
- Yen, Hsi-Chun Communicating processes, scheduling, and the complexity of nontermination. 91d:68023
- Yesha, Yaacov. *see* Fich, Faith E.; et al., 91c:68025
- Yi, Wang Real-time behaviour of asynchronous agents. (see 91g:68003)
- Yonezawa, Akinori. *see* Watanabe, Takao, (91m:68006)
- Yuan, Shyan Ming The communication complexity for decentralized evaluation of functions. 91g:68053
- Zielonka, Wiesław Safe executions of recognizable trace languages by asynchronous automata. 91f:68056
- Zimyanin, L. F. *see* Buzs, M. K., 91f:68029

Items with secondary classifications in 68Q10

- Abadi, Martin. *see* Burrow, Michael; et al., 91a:68185
- America, Pierre (with Rutten, Jan J. M. M.) Solving reflexive domain equations in a category of complete metric spaces. 91f:68101
- Andrews, Gregory R. A method for solving synchronization problems. (Not in MR)
- Anisimov, A. V. Recursive information converters. (Russian) 91h:68075
- Arnold, André (with Dicky, Anne) An algebraic characterization of transition system equivalences. 91d:68076
- Arun-Kumar, S. *see* Koymans, Ronald Leo Christiaan; et al., 91a:68179
- Andreanu, Éric (with Enjalbert, Patrice; Fariñas del Cerro, Luis) ★ Logique temporelle. (French) [Temporal logic] 91f:68144
- Baeten, J. C. M. (with Bergstra, J. A.) Process algebra with a zero object. (see 91g:68003)
- (de Bakker, J. W.) *see* Stepwise refinement of distributed systems, 91g:68009 and Languages for parallel architectures, 91m:68021
- Barrett, Geoff The semantics of priority and fairness in Occam. (see 91e:68008)
- Bergstra, J. A. (with Klop, Jan Willem; Olderog, E.-R.) Readies and failures in the algebra of communicating processes. 91b:68025
- *see also* Baeten, J. C. M., (91g:68003)
- Boehm, Paul. *see* Ehrig, Hartmut; et al., 91m:68116
- de Boer, Frank S. (with Palamidessi, Catuscia) On the asynchronous nature of communication in concurrent logic languages: a fully abstract model based on sequences. (see 91g:68003)
- Boudol, Gérard (with Larsen, Kim Guldstrand) Graphical versus logical specifications. (see 91f:68005)
- Broy, Manfred Towards a design methodology for distributed systems. 91c:68087
- Bui, Marc Régule pour un fonctionnement optimal d'un réseau de processeurs en algorithme distribué. (English summary) [Control for the optimal operation of a processor network in distributed computing] (Not in MR)
- Burkhardt, Heinz-Jürgen (with Ochsenhäger, Peter; Prinoth, Rainer) ★ Produktnetze. (German) [Product nets] 91a:68207
- Burrow, Michael (with Abadi, Martin; Needham, R. M.) A logic of authentication. 91a:68185
- Card, Howard C. *see* Zarowski, Christopher J., 91i:11181
- Carpentieri, B. (with Mou, G.) A formal approach to divide-and-conquer parallel computation and its applications on the Connection Machine. 91f:68020
- Case, John (with Rajan, Dayanand S.; Shende, Anil M.) Optimally representing Euclidean space discretely for analogically simulating physical phenomena. 91f:68147
- Casley, Ross (with Crew, Roger F.; Meseguer, José; Pratt, Vaughan) Temporal structures. 91a:68177
- Ch'ın, Chien Hai. *see* Wang, Bing-Feng, 91h:68050

- Chen, Guan-Ing (with Lai, Ten Hwang) Scheduling independent jobs on partitionable hypercubes. (Not in MR)
- Cheriyán, Joseph (with Maheshwari, Sachindra Nath) Analysis of preflow push algorithms for maximum network flow. 91b:68081
- Chikayama, Takashi see Ueda, Kazumori, (Not in MR)
- Chlebus, Bogdan S. (with Kukawka, Maciej) A guide to sorting on the mesh-connected processor array. (Russian summary) 91b:68057
- (Church, A.) see Trakhtenbrot, Boris A., (91b:03004)
- Clark, K. L. Parallel logic programming. (Not in MR)
- Cleaveland, Rance (with Hennessy, Matthew) Priorities in process algebras. 91b:68111
- Clerbout, Mireille (with Roos, Yves) Semi-commutations and algebraic languages. 91b:68092
- Coan, Brian A. (with Dolev, Danny; Dwork, Cynthia; Stockmeyer, Larry) The distributed firing squad problem. 91a:68010
- Corradini, Andrea (with Montanari, Ugo) Towards a process semantics in the logic programming style. 91b:68104
- Craus, Mitică Systolic implementation of the topological sorting problem. (Romanian summary) (Not in MR)
- Crew, Roger F. see Casley, Ross; et al., 91a:68177
- Dahlhaus, Elias (with Makowsky, Johann A.) Gandy's principles for mechanisms as a model of parallel computation. (see 91b:03004)
- Dassow, Jürgen (with Hromkovič, Juraj; Karhumäki, Juhani; Rován, Branislav; Slobodová, Anna) On the power of synchronization in parallel computations. 91g:68056
- Degano, Pierpaolo (with De Nicola, Rocco; Montanari, Ugo) A partial ordering semantics for CCS. 91b:68092
- De Nicola, Rocco see Degano, Pierpaolo; et al., 91b:68092
- De Santis, Alfredo (with Micali, Silvio; Persiano, Giuseppe) Removing interaction from zero-knowledge proofs. 91b:68036
- Devillers, Raymond The semantics of capacities in P/T nets. 91b:68092
- Dicky, Anne see Arnold, André, 91d:68076
- Diekert, Volker On the Knuth-Bendix completion for concurrent processes. 91b:68082
- Dimitrović, Cristian see Ehrig, Hartmut; et al., 91b:68116
- Dolev, Danny see Coan, Brian A.; et al., 91a:68010
- (Dongarra, Jack) see Proceedings: Conference on Parallel Processing for Scientific Computing. 91b:00041
- Dwork, Cynthia see Coan, Brian A.; et al., 91a:68010
- Ehrig, Hartmut (with Parisi-Presicce, Francesco; Boehm, Paul; Rieckhoff, Catharina; Dimitrović, Cristian; Grosse-Rhode, Martin) Combining data type and recursive process specifications using projection algebras. 91b:68116
- see also Herrlich, Horst, 91b:68072
- Emerson, E. Allen (with Srinivasan, Jai) Branching time temporal logic. 91a:03030
- (Engeler, Erwin) see Andrusen, Éric; et al., 91f:68144
- Enjalbert, Patrice see Andrusen, Éric; et al., 91f:68144
- Fariñas del Cerro, Luis see Andrusen, Éric; et al., 91f:68144
- Feng, Yu Lin (with Liu, Junbo) A temporal approach to algebraic specifications. (see 91g:68003)
- Flé, Marie-Paule Serialization of concurrent programs. 91a:68186
- Fraignaud, Pierre (with Miguet, Serge; Robert, Yves) Scattering on a ring of processors. (Not in MR)
- Fredlund, Lars-Åke (with Jonsson, Bengt; Parrow, Joachim) An implementation of a translational semantics for an imperative language. (see 91g:68003)
- van Gasteren, Antonetta Johanna Maria (with Tel, Gerard) Comments on: "On the proof of a distributed algorithm" [Inform. Process. Lett. 25 (1987), no. 3, 145–147] by J. P. Verjus. Always-true is not invariant. (Not in MR)
- Gastin, Paul Un modèle asynchrone pour les systèmes distribués. (English summary) [An asynchronous model for distributed systems] 91b:68021
- Gerth, R. T. see Koymans, Ronald Leo Christiaan; et al., 91a:68179 and Stomp, F. A.; et al., 91b:68109
- Gomm, Dominik (with Walter, Rolf) The distributed termination problem: formal solution and correctness based on Petri nets. (see 91b:68006)
- Gorrieri, Roberto (with Montanari, Ugo) SCONE: a simple calculus of nets. (see 91g:68003)
- Gouda, Mohamed G. (with Herman, Ted) Stabilizing unison. (Not in MR)
- Gronning, Peter (with Nielsen, Thomas Qvist; Løvensgreen, Hans Henrik) Refinement and composition of transition-based rely-guarantee specifications with auxiliary variables. 91j:68085
- Grosse-Rhode, Martin see Ehrig, Hartmut; et al., 91b:68116
- Gruška, Jozef Synthesis, structure and power of systolic computations. 91b:68022
- (Guessarian, Irène) see Semantics of systems of concurrent processes, 91b:68016
- Halpern, Joseph Y. (with Moses, Yoram) Knowledge and common knowledge in a distributed environment. 91b:68158
- Hansen, Michael R. (with Zhou, Chao Chen) Specification and verification of higher order processes. (see 91b:68011)
- (Hartmanis, Juris) see Computational complexity theory, 91j:68004
- He, Xin see Sarnath, R., 91k:68093
- Hennessy, Matthew see Cleaveland, Rance, 91b:68111
- Herman, Ted see Gouda, Mohamed G., (Not in MR)
- Herrlich, Horst (with Ehrig, Hartmut) The construct PRO of projection spaces: its internal structure. 91b:68072
- Hromkovič, Juraj see Dassow, Jürgen; et al., 91g:68056
- Inverardi, P. (with Nesi, M.) A rewriting strategy to verify observational congruence. 91f:68103
- Iwata, Shigeki (with Kasai, Takumi) Simulations of Turing machines by 2NPDA and their applications to open problems. 91g:68057
- Jonsson, Bengt see Fredlund, Lars-Åke; et al., (91g:68003)
- Juang, Tony T.-Y. (with Venkatesan, Shankar M.) Efficient algorithms for crash recovery in distributed systems. 91j:68017
- Kaldewall, Anne (with Rem, Martin) The derivation of systolic computations. 91b:68108
- (with Zwaan, Gerard) A systolic design for acceptors of regular languages. 91b:68104
- Karhumäki, Juhani see Dassow, Jürgen; et al., 91g:68056
- Kasai, Takumi see Iwata, Shigeki, 91g:68057
- Katz, Shmuel see Taubenfeld, Gad; et al., (Not in MR)
- Klappholz, David see Paaris, Kleantes; et al., (Not in MR)
- Klop, Jan Willem see Bergstra, J. A.; et al., 91b:68025
- Kokosiński, Zbigniew On generation of permutations through decomposition of symmetric groups into cosets. (Not in MR)
- Kong, Xiangyun see Paaris, Kleantes; et al., (Not in MR)
- Koymans, Ronald Leo Christiaan (with Shyamasundar, R. K.; de Roover, W. P.; Gerth, R. T.; Arun-Kumar, S.) Compositional semantics for real-time distributed computing. 91a:68179
- Krajčák, Jan (with Pudlák, Pavel; Sgall, Jiří) Interactive computations of optimal solutions. 91b:68061
- Kruskal, Clyde P. (with Rudolph, Larry; Snir, Marc) A complexity theory of efficient parallel algorithms. 91b:68046
- Kuiper, Ruurd * Combining linear time temporal logic descriptions of concurrent computations. 91b:68077
- Kukawka, Maciej see Chlebus, Bogdan S., 91b:68057
- Kwiatkowska, Marta Z. Defining process fairness for noninterleaving concurrency. 91j:68080
- Lai, Ten Hwang see Chen, Guan-Ing, (Not in MR)
- Lallement, Gérard J. Programs over finite semigroups: an introduction. (see 91f:00030)
- Lange, Klaus-Jörn (with Rosmanith, Peter) Characterizing unambiguous augmented pushdown automata by circuits. (see 91b:68011)
- Larsen, Kim Guldstrand see Boudol, Gérard, (91c:68005)
- Li, Ming (with Yesha, Yaacov) New lower bounds for parallel computation. 91b:68051
- Li, Qiong Zhang see Liu, Yu Zhen, (Not in MR)
- Lipton, Richard J. (with Park, Arvin) The processor identity problem. (Not in MR)
- Liu, Junbo see Feng, Yu Lin, (91g:68003)
- Liu, Yu Zhen (with Li, Qiong Zhang) TDL—a logic for studying the concurrency control problem. (Chinese. English summary) (Not in MR)
- Løvensgreen, Hans Henrik see Gronning, Peter; et al., 91j:68085
- La, Wei Ming (with Merceron, Agathe) The meaning of frozen tokens in live nets. 91b:68097
- Lynch, Nancy A. (with Tuttle, Mark R.) An introduction to input/output automata. 91a:68059
- Maheshwari, Sachindra Nath see Cheriyán, Joseph, 91b:68081
- Makowsky, Johann A. see Dahlhaus, Elias, (91b:03004)
- Merceron, Agathe see La, Wei Ming, 91b:68097
- Meseguer, José see Casley, Ross; et al., 91a:68177
- (Messina, Paul) see Proceedings: Conference on Parallel Processing for Scientific Computing. 91b:00041
- Micali, Silvio see De Santis, Alfredo; et al., 91b:68036
- Miguet, Serge see Fraignaud, Pierre; et al., (Not in MR)
- Möhring, Rolf H. Computationally tractable classes of ordered sets. 91g:68129
- Montanari, Ugo (with Yankelevich, Daniel N.) An algebraic view of interleaving and distributed operational semantics for CCS. 91b:68073
- see also Corradini, Andrea, 91g:68104; Degano, Pierpaolo; et al., 91b:68092 and Gorrieri, Roberto, (91g:68003)
- Moran, Shlomo see Taubenfeld, Gad; et al., (Not in MR)
- Morris, Joseph M. Temporal predicate transformers and fair termination. 91b:68148
- Moschovakis, Yiannis N. A mathematical modeling of pure, recursive algorithms. 91b:03063
- Moses, Yoram see Halpern, Joseph Y., 91b:68158
- Mou, G. see Carpentier, B., 91j:68020
- Needham, R. M. see Burrow, Michael; et al., 91a:68185
- Neiger, Gil (with Toueg, Sam) Automatically increasing the fault-tolerance of distributed algorithms. 91g:68016
- Nesi, M. see Inverardi, P., 91f:68103
- Nielsen, Thomas Qvist see Gronning, Peter; et al., 91j:68085
- Ochsenschläger, Peter see Burkhardt, Heinz-Jürgen; et al., 91a:68207
- Olderog, E.-R. see Bergstra, J. A.; et al., 91b:68025
- Orevkov, V. P. Correctness of short proofs in theory with notions of feasibility. (see 91c:03004)
- Palamidessi, Catuscia see de Boer, Frank S., (91g:68003)
- Panagaden, Prakash (with Stark, Eugene W.) Computations, residuals, and the power of indeterminacy. 91b:68027
- Parberry, Ian (with Yan, Pei Yuan) Improved upper and lower time bounds for parallel random access machines without simultaneous writes. 91b:68044
- Parisi-Presicce, Francesco see Ehrig, Hartmut; et al., 91b:68116
- Park, Arvin see Lipton, Richard J., (Not in MR)
- Parrow, Joachim see Fredlund, Lars-Åke; et al., (91g:68003)
- Perrin, Dominique Partial commutations. 91a:68166
- Persiano, Giuseppe see De Santis, Alfredo; et al., 91b:68036
- Petermann, Uwe see Szalas, Andrzej, 91a:68192
- Pnueli, Amir (with Rosner, Roni) On the synthesis of an asynchronous reactive module. 91a:68190
- Pratt, Vaughan see Casley, Ross; et al., 91a:68177
- Prineth, Balner see Burkhardt, Heinz-Jürgen; et al., 91a:68207
- Paaris, Kleantes (with Klappholz, David; Kong, Xiangyun) On the accuracy of the Banerjee test. (Not in MR)
- Pudlák, Pavel see Krajčák, Jan; et al., 91b:68061
- Rajan, Dayanand S. see Case, John; et al., 91b:68147
- Reischuk, Rüdiger Karl * Einführung in die Komplexitätstheorie. (German) [Introduction to complexity theory] 91b:68002
- Rem, Martin see Kaldewall, Anne, 91b:68108
- Rieckhoff, Catharina see Ehrig, Hartmut; et al., 91b:68116
- Robert, Yves see Fraignaud, Pierre; et al., (Not in MR)
- de Roover, W. P. see Koymans, Ronald Leo Christiaan; et al., 91a:68179; Stomp, F. A.; et al., 91b:68109 and Stepwise refinement of distributed systems, 91g:68009
- Roos, Yves Virtually asynchronous automata. (see 91b:68004)

- see also Clerbout, Mireille, 91g:68092
 Rosner, Roni see Pnueli, Amir, 91a:68190
 Rossmann, Peter see Lange, Klaus-Jörn, (91h:68011)
 Rován, Branislav see Dassow, Jürgen; et al., 91g:68056
 (Rozenberg, Grzegorz) see Stepwise refinement of distributed systems, 91g:68009
 Rudolph, Larry see Kruskal, Clyde P.; et al., 91h:68046
 Rutten, Jan J. M. M. Semantic correctness for a parallel object-oriented language. 91g:68111
 — see also America, Pierre, 91e:68101
 Sarnath, R. (with He, Xin) A P-complete graph partition problem. 91k:68093
 Sgall, Jiří see Krájčík, Jan; et al., 91m:68061
 Shende, Anil M. see Case, John; et al., 91h:68147
 Shepherdson, John C. Mechanisms for computing over arbitrary structures. (see 91b:03004)
 Shyamamundar, R. K. see Koyman, Ronald Leo Christiaan; et al., 91a:68179
 Slobodan, Anna One-way globally deterministic synchronized alternating finite automata recognize exactly deterministic context-sensitive languages. 91h:68048
 — see also Dassow, Jürgen; et al., 91g:68056
 Smale, Stephen Some remarks on the foundations of numerical analysis. 91k:00007
 Snir, Marc see Kruskal, Clyde P.; et al., 91h:68046
 (Sørensen, Danny C.) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
 Srinivasan, Jai see Emerson, E. Allen, 91a:03030
 Stark, Eugene W. see Panagaden, Prakash, 91h:68027
 Stark, W. Richard A logic for distributed processes. 91f:68139
 Stockmeyer, Larry see Coan, Brian A.; et al., 91a:68010
 Stomp, F. A. (with de Roeper, W. P.; Gerth, R. T.) The μ -calculus as an assertion-language for fairness arguments. 91e:68109
 Szalas, Andrzej (with Petermann, Uwe) On temporal logic for distributed systems and its application to processes communicating by interrupts. 91a:68192
 Taubenfeld, Gadi (with Katz, Shmuel; Moran, Shlomo) Initial failures in distributed computations. (Not in MR)
 Tel, Gerard see van Gasteren, Antonetta Johanna Maria, (Not in MR)
 Toueg, Sam see Neiger, Gil, 91g:68016
 Trakhtenbrot, Boris A. Comparing the Church and Turing approaches: two prophetic messages. (see 91b:03004)
 (Turing, Alan M.) see Trakhtenbrot, Boris A., (91b:03004)
 Tuttle, Mark R. see Lynch, Nancy A., 91a:68059
 Ueda, Kazumori (with Chikayama, Takashi) Design of the kernel language for the parallel inference machine. (Not in MR)
 Vagis, A. G. Properties of languages of logical system simulation. (Russian. English summary) (Not in MR)
 Val'kovskii, V. A. ★ Распараллеливание алгоритмов в программах. (Russian) [Parallelization of algorithms and programs] 91a:68028
 Venkatesan, Shankar M. see Jiang, Tony T.-Y., 91j:68017
 (Verjus, J. Pierre) see van Gasteren, Antonetta Johanna Maria, (Not in MR)
 Vidyankar, K. Concurrent reading while writing revisited. (Not in MR)
 Vishkin, Uri Deterministic sampling—a new technique for fast pattern matching. (Not in MR)
 (Voigt, Robert G.) see Proceedings: Conference on Parallel Processing for Scientific Computing, 91k:00041
 Walter, Rolf see Gomm, Dominik, (91h:68006)
 Wang, Bing-Feng (with Ch'en, Chien Hui) Two-dimensional processor array with a reconfigurable bus system is at least as powerful as CRCW model. 91h:68050
 Yan, Pei Yuan see Parberry, Ian, 91k:68044
 Yankelevich, Daniel N. see Montazeri, Ugo, 91b:68073
 Yesha, Yaacov see Li, Ming, 91f:68051
 Zarowski, Christopher J. (with Card, Howard C.) On addition and multiplication with Hensel codes. 91k:11181
 Zhou, Chao Chen Specification of communication systems with temporal logic. (Not in MR)
 — see also Hansen, Michael R., (91h:68011)
 Zwaan, Gerard see Kaldewaij, Anne, 91m:68104
 Zwiers, J. ★ Compositionality, concurrency and partial correctness. 91f:68150
- Items listed otherwise than by author
 Atlanta, GA ★ Computational complexity theory. 91j:68004
 Chicago, IL ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing. 91k:00041
 Computational complexity theory ★ Computational complexity theory. 91j:68004
 Conference:
 Parallel Processing for Scientific Computing ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing. 91k:00041
 La Roche Pessy ★ Semantics of systems of concurrent processes. 91h:68016
 Languages for parallel architectures ★ Languages for parallel architectures. 91m:68021
 Lecture Notes in Computer Science ★ Stepwise refinement of distributed systems. 91g:68009
 — ★ Semantics of systems of concurrent processes. 91h:68016
 Mook ★ Stepwise refinement of distributed systems. 91g:68009
 Proceedings of Symposia in Applied Mathematics ★ Computational complexity theory. 91j:68004
 Proceedings:
 Conference on Parallel Processing for Scientific Computing ★ Proceedings of the Fourth SIAM Conference on Parallel Processing for Scientific Computing. 91k:00041
 School:
 Theoretical Computer Science ★ Semantics of systems of concurrent processes. 91h:68016
 Semantics of systems of concurrent processes ★ Semantics of systems of concurrent processes. 91h:68016
 Stepwise refinement of distributed systems ★ Stepwise refinement of distributed systems. 91g:68009

Workshop:

- Stepwise Refinement of Distributed Systems ★ Stepwise refinement of distributed systems. 91g:68009

68Q15 Complexity classes [see also 03D15]

- Abadi, Martin (with Allender, Eric W.; Broder, Andrei Z.; Feigenbaum, Joan; Hemachandra, Lane A.) On generating solved instances of computational problems. 91e:68049
 Aiello, William (with Goldwasser, Shafi; Håstad, Johan) On the power of interaction. 91f:68035
 Allender, Eric W. (with Wilson, Christopher Barrie) Width-bounded reducibility and binary search over complexity classes (extended abstract). (see 91k:68006)
 — P-uniform circuit complexity. 91g:68054
 — (with Hertrampf, Ulrich) On the power of uniform families of constant depth threshold circuits. 91f:68036
 — (with Beigel, Richard; Hertrampf, Ulrich; Homer, Steven) A note on the almost-everywhere hierarchy for nondeterministic time. 91f:68057
 — Limitations of the upward separation technique. 91k:68056
 — see also Abadi, Martin; et al., 91e:68049
 Álvarez, Carme (with Jenner, Birgit) A very hard log space counting class. (see 91k:68006)
 — (with Díaz, Josep; Torán, Jacobo) Complexity classes with complete problems between P and NP-C. 91h:68032
 Ambos-Spies, Klaus (with Kämper, Jürgen) On disjunctive self-reducibility. 91e:68050
 — (with Yang, Dong Ping) Honest polynomial-time degrees of elementary recursive sets. (see 91g:03006)
 — (with Homer, Steven; Soare, Robert I.) Minimal pairs and complete problems (extended abstract). (see 91h:68011)
 Amir, Amihod (with Beigel, Richard; Gasarch, William I.) Some connections between bounded query classes and nonuniform complexity. (see 91k:68006)
 Angluin, Dana Equivalence queries and approximate fingerprints. (see 91e:68014)
 Arvind, V. (with Biswas, Somenath) On some bandwidth restricted versions of the satisfiability problem of propositional CNF formulas. 91f:68037
 Ausiello, Giorgio (with Protasi, Marco) Limiting polynomial approximation of complexity classes. 91j:68040
 Babai, László (with Pudlák, Pavel; Rödl, Vojtěch; Szemerédi, Endre) Lower bounds to the complexity of symmetric Boolean functions. 91f:68038
 Balcar, José Luis (with Díaz, Josep; Gabarró, Joaquim) ★ Structural complexity. I. 91f:68058
 — (with Gabarró, Joaquim) Nonuniform complexity classes specified by lower and upper bounds. (French summary) 91d:68024
 — Self-reducibility structures and solutions of NP problems. 91d:68025
 — (with Díaz, Josep; Gabarró, Joaquim) ★ Structural complexity. II. 91k:68057
 — see also Gavaldà, Ricard, 91a:68090 and Lozano, Antonio, 91e:68059
 Barrington, David A. Mix (with Thérien, Denis) Finite monoids and the fine structure of NC¹. 91f:68039
 — (with Corbett, James) On the relative complexity of some languages in NC¹. 91h:68033
 — Bounded-width polynomial-size branching programs recognize exactly those languages in NC¹. 91f:68059
 — (with Immerman, Neil; Straubing, Howard) On uniformity within NC¹. 91h:68059
 — Extensions of an idea of McNaughton. 91g:68055
 Beaver, Donald (with Feigenbaum, Joan) Hiding instances in multioracle queries (extended abstract). (see 91b:68011)
 Bédard, François (with Lemieux, François; McKenzie, Pierre) Extensions to Barrington's M-program model (extended abstract). (see 91k:68006)
 Beigel, Richard (with Gill, John T., III; Hertrampf, Ulrich) Counting classes: thresholds, parity, mods, and fewness. 91f:68060
 — Relativized counting classes: relations among thresholds, parity, and mods. 91m:68055
 — see also Allender, Eric W.; et al., 91f:68057 and Amir, Amihod; et al., (91k:68006)
 Bellare, Mihir (with Goldwasser, Shafi) New paradigms for digital signatures and message authentication based on noninteractive zero knowledge proofs. (see 91b:94002)
 Ben-Or, Michael (with Goldreich, Oded; Goldwasser, Shafi; Håstad, Johan; Kilian, Joe; Micali, Silvio; Rogaway, Phillip) Everything provable is provable in zero-knowledge. 91d:68026
 Biswas, Somenath see Arvind, V., 91f:68037
 Bonamico, M. (with Crescenzi, Pierluigi; Silvestri, R.) Optimization, average cost and complexity classes. (see 91h:68005)
 Book, Ronald V. Restricted relativizations of complexity classes. (see 91j:68004)
 — (with Tang, Shou Wen) A note on sparse sets and the polynomial-time hierarchy. 91d:68027
 — (with Tang, Shou Wen) Characterizing polynomial complexity classes by reducibilities. 91f:68040
 Beyer, Joan F. (with Peralta, René) On the concrete complexity of zero-knowledge proofs. 91h:68060
 Brassard, Gilles (with Crépeau, Claude; Yung, Moti) Everything in NP can be argued in perfect zero-knowledge in a bounded number of rounds. 91e:68051
 Broder, Andrei Z. see Abadi, Martin; et al., 91e:68049
 Bruchi, Daniele Strong separations of the polynomial hierarchy with oracles: constructive separations by immune and simple sets. (see 91h:68005)
 Budach, Lothar Topological invariants of classification problems. 91k:68058
 Buntrock, Gerhard (with Hemachandra, Lane A.; Sieffkes, Dirk) Using inductive counting to simulate nondeterministic computation. (see 91h:68011)
 Cai, Jin-Yi (with Hemachandra, Lane A.) On the power of parity polynomial time. 91a:68088
 — A note on the determinant and permanent problem. 91d:68028
 — (with Hemachandra, Lane A.) On the power of parity polynomial time. 91j:68041
 Chandra, Ashok K. (with Tompa, Martin) The complexity of short two-person games. 91j:68042
 Chang, Richard (with Kadin, Jim) The Boolean hierarchy and the polynomial hierarchy: a closer connection. (see 91k:68006)
 — see also Hartmanis, Juris; et al., (91e:68016)

- Chen, Jian-er The difference between one tape and two tapes: with respect to reversal complexity. 91h:68061
- Chen, Zhi Zhong* (with Kasai, Takumi) Probabilistic automata push-down. 91d:68029
- Clebsch, Bogdan S. A hierarchy of propositional Horn formulas. 91c:68030
- Chung, Moon Jung (with Ravikumar, Bala) Strong nondeterministic Turing reduction—a technique for proving intractability. 91d:68030
- Clote, Peter G. Bounded arithmetic and computational complexity. (see 91k:68006)
- (with Kranakis, Evangelos) Boolean functions, invariance groups, and parallel complexity. 91m:68056
- Compton, Kevin J. (with Laflamme, Claude) An algebra and a logic for NC. 91k:68059
- Corbett, James see Barrington, David A. Mix, 91b:68033
- Crépeau, Claude see Brassard, Gilles; et al., 91c:68051
- Crescenzi, Pierluigi (with Panconesi, Alessandro) Completeness in approximation classes. 91b:68034
- (with Silvestri, R.) Relative complexity of evaluating the optimum cost and constructing the optimum for maximization problems. 91f:68061
- see also Bonamico, M.; et al., (91h:68005)
- Cutello, Vincenzo (with Policriti, Alberto) On the complexity of the satisfiability problem for an unquantified theory involving basic notions of real plane topology. 91m:68057
- Dahlhaus, Elias (with Makowsky, Johann A.) Gandy's principles for mechanisms as a model of parallel computation. (see 91b:68004)
- Damm, Carsten (with Meinel, Christoph) Separating complexity classes related to polynomial size Ω -decision trees. 91b:68035
- Problems complete for $\oplus L$. (see 91h:68006)
- The complexity of symmetric functions in parity normal forms. (see 91h:68011)
- Problems complete for $\oplus L$. 91h:68062
- Dang Huy Ruân Upper bounds on finite-automaton complexity for generalized regular expressions in a one-letter alphabet. (Russian) 91d:68031
- Dassow, Jürgen (with Hromkovič, Juraj; Karhumäki, Juhani; Rován, Branislav; Slobodová, Anna) On the power of synchronization in parallel computations. 91g:68056
- De Santis, Alfredo (with Micali, Silvio; Persiano, Giuseppe) Removing interaction from zero-knowledge proofs. 91h:68036
- Díaz, Josep (with Torán, Jacobo) Classes of bounded nondeterminism. 91c:68052
- see also Álvarez, Carme; et al., 91b:68032; Balczár, José Luis; et al., 91f:68058 and 91k:68057
- Dubois, Olivier On the r, s -SAT satisfiability problem and a conjecture of Tovey. 91k:68060
- El Gamal, Abbas see Orlitsky, Alon, 91b:68039
- Feige, U. (with Shamir, Adi) Zero knowledge proofs of knowledge in two rounds. 91f:68062
- Feigenbaum, Joan see Abadi, Martin; et al., 91c:68049 and Beaver, Donald, (91b:68011)
- Feldman, David (with Impagliazzo, Russell; Naor, Moni; Nisan, Noam; Rudich, Steven; Shamir, Adi) On dice and coins: models of computation for random generation. 91a:68089
- Fulk, Mark A. see Sanchis, Laura A., 91f:68067
- Gabarró, Joaquim see Balczár, José Luis, 91d:68024; 91f:68058 and 91k:68057
- Gasarch, William L. (with Pleszkoch, Mark B.) Learning via queries to an oracle. (see 91c:68014)
- (with Hemachandra, Lane A.; Hoene, Albrecht) On checking versus evaluation of multiple queries. (see 91h:68011)
- see also Amir, Amihoud; et al., (91k:68006)
- Gavaldà, Ricard (with Balczár, José Luis) Strong and robustly strong polynomial time reducibilities to sparse sets. 91a:68090
- Geffert, Vilim Nondeterministic computations in sublogarithmic space and space constructibility. (see 91c:68004)
- Geng, Su Yun see Zhang, Li Ang, 91f:68069
- Geske, John G. (with Kakihiara, Diane) Almost-everywhere complexity, bi-immunity and nondeterministic space. (see 91m:68002)
- Gill, John T., III see Beigel, Richard; et al., 91f:68060
- Goerdt, Andreas Characterizing complexity classes by general recursive definitions in higher types. 91d:68032
- Goldreich, Oded (with Kushilevitz, Eyal) A perfect zero-knowledge proof for a problem equivalent to discrete logarithm. 91d:68033
- see also Ben-Or, Michael; et al., 91d:68026
- Goldwasser, Shafi Interactive proof systems. (see 91j:68004)
- see also Ben-Or, Michael; et al., 91d:68026; Aiello, William; et al., 91b:68035 and Bellare, Mihir, (91b:94002)
- Grödel, Erich Domino games and complexity. 91m:68058
- Grandjean, Étienne A nontrivial lower bound for an NP problem on automata. 91c:68053
- Grape, Per Complete problems with L -sampleable distributions. (see 91c:68016)
- Green, Frederic An oracle separating $\oplus P$ from PP^{PH} . (see 91k:68006)
- An oracle separating $\oplus P$ from PP^{PH} . 91m:68059
- Greenlaw, Raymond Ordered vertex removal and subgraph problems. 91f:68063
- Gundermann, Thomas (with Nasser, Nasser Ali; Wechsung, Gerd) A survey on counting classes. (see 91k:68006)
- Gurevich, Yuri (with Shelah, Saharon) Nearly linear time. 91a:68091
- Halstenberg, Bernd (with Reischuk, Rüdiger Karl) Relations between communication complexity classes. 91k:68061
- Hartmanis, Juris New developments in structural complexity theory. 91a:68092
- (with Chang, Richard; Ranjan, Desh; Rohatgi, Pankaj) Structural complexity theory: recent surprises. (see 91c:68016)
- New developments in structural complexity theory. 91h:68063
- Håstad, Johan Tensor rank is NP-complete. 91a:68093
- see also Ben-Or, Michael; et al., 91d:68026 and Aiello, William; et al., 91b:68035
- Hemachandra, Lane A. (with Hoene, Albrecht) On sets with efficient implicit membership tests. (see 91k:68006)
- (with Rubinfeld, Roy S.) A note on relativizing complexity classes with tally oracles. (see 91k:68006)
- (with Jain, Sanjay) On the limitations of locally robust positive reductions. 91d:68034
- The strong exponential hierarchy collapses. 91d:68035
- Algorithms from complexity theory: polynomial-time operations for complex sets. (see 91g:68002)
- (with Rudich, Steven) On the complexity of ranking. 91h:68041
- see also Cai, Jin-Yi, 91a:68088; Abadi, Martin; et al., 91c:68049; Cai, Jin-Yi, 91j:68041; Buntrock, Gerhard; et al., (91h:68011) and Gasarch, William L.; et al., (91h:68011)
- Hemmerling, Armin \star Labyrinth problems. 91d:68036
- Hertrampf, Ulrich see Allender, Eric W.; et al., 91f:68057; Beigel, Richard; et al., 91f:68060 and Allender, Eric W., 91h:68036
- Hoene, Albrecht see Gasarch, William L.; et al., (91h:68011) and Hemachandra, Lane A., (91k:68006)
- Homer, Steven Structural properties of nondeterministic complete sets. (see 91k:68006)
- see also Allender, Eric W.; et al., 91f:68057 and Ambos-Spies, Klaus; et al., (91h:68011)
- Hromkovič, Juraj see Inoue, Katsushi; et al., 91a:68094 and Dassow, Jürgen; et al., 91g:68056
- Hunt, H. B., III (with Stearns, Richard E.) The complexity of very simple Boolean formulas with applications. 91f:68064
- Immerman, Neil Descriptive and computational complexity. (see 91j:68004)
- (with Mahaney, Stephen R.) Relativizing relativized computations. 91d:68037
- Complexity classes. 91h:68064
- see also Barrington, David A. Mix; et al., 91h:68059
- Impagliazzo, Russell see Feldman, David; et al., 91a:68089
- Inoue, Katsushi (with Takanami, Itsuo; Hromkovič, Juraj) A leaf-size hierarchy of two-dimensional alternating Turing machines. 91a:68094
- Iwata, Shigeki (with Kasai, Takumi) Simulations of Turing machines by 2NPDA and their applications to open problems. 91g:68057
- Jain, Sanjay see Hemachandra, Lane A., 91d:68034
- Jenner, Birgit see Álvarez, Carme, (91k:68006)
- Jirásková, Galina Chomsky hierarchy and communication complexity. 91a:68095
- Johnson, David Stiffler The NP-completeness column: an ongoing guide. 91c:68054
- Joseph, Deborah (with Sitharam, Meera) Kolmogorov complexity, restricted nondeterminism and generalized spectra. 91c:68055
- Just, Bettina (with Meyer auf der Heide, Friedhelm; Wigderson, Avi) On computations with integer division. (French summary) 91h:68065
- Kadin, Jim $P^{NP[O(\log n)]}$ and sparse Turing-complete sets for NP. 91c:68031
- see also Chang, Richard, (91k:68006)
- Kakihiara, Diane see Geske, John G., (91m:68002)
- Kämper, Jürgen see Ambos-Spies, Klaus, 91c:68050
- Karhumäki, Juhani see Dassow, Jürgen; et al., 91g:68056
- Kari, Jarkko A cryptosystem based on propositional logic. 91d:68038
- Karpinski, Marek (with Meyer auf der Heide, Friedhelm) On the complexity of genuinely polynomial computation. 91m:68060
- Kasai, Takumi see Chen, Zhi Zhong*, 91d:68029 and Iwata, Shigeki, 91g:68057
- Kilian, Joe see Ben-Or, Michael; et al., 91d:68026
- Kirchherr, Walter W. A hierarchy theorem for PRAM-based complexity classes. 91h:68042
- Ko, Ker-I A note on separating the relativized polynomial time hierarchy by immune sets. (French summary) 91h:68062
- Köbler, Johannes (with Thierauf, Thomas) Complexity classes with advice. (see 91k:68006)
- Kossovskii, N. K. Polynomial complexity of schemes, and alternation with polynomial time. (Russian) 91a:68096
- Krajčák, Jan (with Pudlák, Pavel; Šgall, Jiří) Interactive computations of optimal solutions. 91m:68061
- Kranakis, Evangelos see Clote, Peter G., 91m:68056
- Krause, Matthias Separating $\oplus L$ from L , NL, co-NL and AL (= P) for oblivious Turing machines of linear access time. (see 91h:68011)
- Kreinovich, V. Ya. Group-theoretic approach to intractable problems. (see 91c:83004)
- Krentel, Mark W. On finding and verifying locally optimal solutions. 91h:68066
- Kushilevitz, Eyal see Goldreich, Oded, 91d:68033
- Ladner, Richard E. Polynomial space counting problems. 91c:68056
- Laflamme, Claude see Compton, Kevin J., 91h:68059
- Lange, Klaus-Jörn Unambiguity of circuits. (see 91k:68006)
- Leivant, Daniel Descriptive characterizations of computational complexity. 91c:68057
- Lemieux, François see Bédard, François; et al., (91k:68006)
- Li, Hong Zhou The polynomial time hierarchy and oracles $A \in PH/poly$. (Chinese) (Not in MR)
- Li, Ming¹ Simulating two pushdown stores by one tape in $O(n^{1.5} \sqrt{\log n})$ time. 91c:68032
- Lipton, Richard J. Efficient checking of computations. 91f:68065
- Lischke, Gerhard The quality of separation between polynomial time and exponential time. (German and Russian summaries) 91a:68097
- Longpré, Luc (with Selman, Alan L.) Hard promise problems and nonuniform complexity. 91c:68058
- Luzzano, Antonio (with Balczár, José Luis) The complexity of graph problems for succinctly represented graphs. 91c:68059
- Lutz, Jack H. (with Schmidt, William J.) Circuit size relative to pseudorandom oracles. (see 91k:68006)
- Lynch, James F. The quantifier structure of sentences that characterize nondeterministic time complexity. (see 91k:68006)
- Mahaney, Stephen R. The isomorphism conjecture and sparse sets. (see 91j:68004)
- see also Immerman, Neil, 91d:68037
- Makowsky, Johann A. see Dahlhaus, Elias, (91h:68004)
- McAloon, Ken Hierarchy results for mixed-time. 91f:68066
- McKenzie, Pierre see Bédard, François; et al., (91k:68006)
- Meinel, Christoph The power of nondeterminism in polynomial-size bounded-width branching programs. 91a:68098
- Switching graphs and their complexity. 91a:68099
- Restricted branching programs and their computational power. 91j:68043
- Ω -branching programs of bounded width. (Russian summary) 91h:68067
- Polynomial size Ω -branching programs and their computational power. 91b:68037
- Logic vs. complexity theoretic properties of the graph accessibility problem for directed graphs of bounded degree. 91h:68068

- see also Damm, Carsten, 91b:68035
 Meyer auf der Heide, Friedhelm see Just, Bettina; et al., 91b:68065 and Karpínski, Marek, 91c:68060
 Micali, Silvio see De Santis, Alfredo; et al., 91b:68036 and Ben-Or, Michael; et al., 91d:68026
 Middendorf, Matthias (with Pfeiffer, Frank) On the complexity of recognizing perfectly orderable graphs. 91b:68038
 Mink, Michal A $\text{div}(n)$ depth Boolean circuit for smooth modular inverse. (see 91b:68006)
 Molnar, B. Expressibility and nonuniform complexity classes. 91g:68058
 Moriya, Etsuro A grammatical characterization of alternating pushdown automata. 91a:68106
 Naor, Moni see Feldman, David; et al., 91a:68089
 Nasser, Nasser Ali see Gundermann, Thomas; et al., (91b:68006)
 Niemelä, Ilkka On the complexity of the decision problem in propositional nonmonotonic logic. 91c:68033
 Nisan, Noam On read-once vs. multiple access to randomness in logspace. (see 91b:68006)
 — see also Feldman, David; et al., 91a:68089
 Orlitsky, Alon (with El Gamal, Abbas) Average and randomized communication complexity. 91b:68039
 Orponen, Pekka On the instance complexity of NP-hard problems. (see 91b:68006)
 Panconesi, Alessandro see Crescenzi, Pierluigi, 91b:68034
 Peralta, René see Boyar, Joan F., 91b:68060
 Persiano, Giuseppe see De Santis, Alfredo; et al., 91b:68036
 Pfeiffer, Frank see Middendorf, Matthias, 91b:68038
 Piotrows, Marek $\text{ATIME}(n)$ is closed under counting. (see 91b:68011)
 Pitt, Leonard (with Warmuth, Manfred K.) Prediction-preserving reducibility. 91b:68069
 Pleszkoch, Mark B. see Gasarch, William L., (91c:68014)
 Polzot, Bruno Genex strikes again. (French) 91b:68039
 Pulicriti, Alberto see Cutello, Vincenzo, 91b:68057
 Protasi, Marco see Ausiello, Giorgio, 91b:68040
 Pudlák, Pavel see Babai, László; et al., 91b:68038 and Krajčiek, Jan; et al., 91b:68061
 Ranjan, Dush see Hartmanis, Juris; et al., (91c:68016)
 Rappaport, David Computing simple circuits from a set of line segments is NP-complete. 91b:68063
 Ravikumar, Bala see Chung, Moon Jung, 91d:68030
 Razborov, A. A. On the distributional complexity of disjointness. (see 91c:68004)
 — Applications of matrix methods to the theory of lower bounds in computational complexity. 91b:68043
 Reischuk, Rüdiger Karl see Habtenberg, Bernd, 91b:68061
 Rich, Craig A. Positive relativizations of the $P = ?NP$ problem. 91b:68040
 Růžička, Vojtěch see Babai, László; et al., 91b:68038
 Rogaway, Phillip see Ben-Or, Michael; et al., 91b:68026
 Rohatgi, Pankaj see Hartmanis, Juris; et al., (91c:68016)
 Rowan, Branislav see Dassow, Jürgen; et al., 91b:68056
 Rubinfeld, Roy S. see Hemachandra, Lane A., (91b:68006)
 Rudich, Steven see Feldman, David; et al., 91a:68089 and Hemachandra, Lane A., 91b:68041
 Rytsov, I. K. A lower bound for the time of addition of two numbers. 91a:68101
 Sanchis, Laura A. On the complexity of test case generation for NP-hard problems. 91b:68064
 — (with Fulk, Mark A.) On the efficient generation of language instances. 91b:68067
 Schäffer, Alejandro A. (with Yannakakis, Mihalis) Simple local search problems that are hard to solve. 91b:68065
 Schmidt, William J. see Lutz, Jack H., (91b:68006)
 Schaltzlein, W. (with Stoss, Hans-Jörg) Linear-time simulation of multihead Turing machines. 91c:68034
 Schörr, C.-P. The multiplicative complexity of Boolean functions. 91a:68102
 Schöningh, Uwe Complexity theory and interaction. (see 91b:68004)
 — Probabilistic complexity classes and lowness. 91b:68041a
 — Complexity cores and hard problem instances. (see 91b:68002)
 Seidl, Helmut Deciding equivalence of finite tree automata. 91g:68059
 Selman, Alan L. see Longpré, Luc, 91c:68058
 Serna, Maria (with Spirakis, Paul G.) The approximability of problems complete for P. 91c:68035
 Sgall, Jiří see Krajčiek, Jan; et al., 91b:68061
 Shamir, Adi see Feldman, David; et al., 91a:68089 and Feige, U., 91b:68062
 Shelah, Saharon see Garey, Yuri, 91a:68091
 Siekkes, Dirk see Buntrock, Gerhard; et al., (91b:68011)
 Silvestri, R. see Crescenzi, Pierluigi, 91b:68061 and Bonamico, M.; et al., (91b:68005)
 Sitharam, Meera see Joseph, Deborah, 91c:68055
 Slobodová, Anna see Dassow, Jürgen; et al., 91b:68056
 Soare, Robert I. see Ambos-Spies, Klaus; et al., (91b:68011)
 Spirakis, Paul G. see Serna, Maria, 91c:68035
 Stearns, Richard E. see Hunt, H. B., III, 91b:68064
 Stewart, Iain A. Using the Hamiltonian path operator to capture NP. (see 91b:68002)
 Stoss, Hans-Jörg see Schaltzlein, W., 91c:68034
 Straubing, Howard (with Thérien, Denis) Finite automata and computational complexity. 91b:68044
 — see also Barrington, David A. Mix; et al., 91b:68059
 Szemerédi, Endre see Babai, László; et al., 91b:68038
 Szepietowski, Andrzej Some notes on strong and weak $\log \log n$ space complexity. 91a:68103
 — Some remarks on the alternating hierarchy and closure under complement for sublogarithmic space. 91c:68060
 — If deterministic and nondeterministic space complexities are equal for $\log \log n$, then they are also equal for $\log n$. 91b:68066
 Sawast, Wiesław Relativizations of the "Does Linspace = Exptime?" question. (Polish. English summary) 91a:68104
 Takamami, Itsoo see Inoue, Kazuhide; et al., 91a:68094
 Tang, Shou Wen (with Watanabe, Osamu) On tally relativizations of BP-complexity classes. 91b:68041b
 — see also Book, Ronald V., 91d:68027 and 91b:68040
 Tardos, G. Query complexity, or why is it difficult to separate $NP^d \cap co-NP^d$ from P^d by random oracles? 91b:68070
 Thérien, Denis see Barrington, David A. Mix, 91b:68039 and Straubing, Howard, 91b:68044
 Thierauf, Thomas see Köbler, Johannes, (91b:68006)
 Toda, Seinosuke Positive relativizations for log space computability. 91b:68062
 Tompa, Martin see Venkateswaran, H., 91a:68105 and Chandra, Ashok K., 91b:68042
 Torán, Jacobo A combinatorial technique for separating counting complexity classes. 91c:68036
 — Counting the number of solutions. A survey of recent inclusion results in the area of counting classes. 91b:68067
 — see also Alvarez, Carme; et al., 91b:68032 and Díaz, Josep, 91c:68052
 Veni Madhavan, C. E. see Vinay, V.; et al., (91b:68006)
 Venkateswaran, H. (with Tompa, Martin) A new pebble game that characterizes parallel complexity classes. 91a:68105
 — see also Vinay, V.; et al., (91b:68006)
 Vinay, V. (with Venkateswaran, H., Veni Madhavan, C. E.) Circuits, pebbling and expressibility (extended abstract). (see 91b:68006)
 Voigt, Bernd (with Wegener, Ingo) A remark on minimal polynomials of Boolean functions. 91c:68068
 — (with Wegener, Ingo) Minimal polynomials for the conjunction of functions on disjoint variables can be very simple. 91d:68040
 Wagner, Klaus W. Bounded query classes. 91b:68063
 Wang, Jie¹ P-productivity and polynomial time approximations. (see 91b:68006)
 — Some remarks on polynomial time isomorphisms. (see 91b:68002)
 Warmuth, Manfred K. see Pitt, Leonard, 91b:68069
 Watanabe, Osamu² A formal study of learning via queries. (see 91b:68004)
 — On intractability of the class UP. 91b:68064
 — see also Tang, Shou Wen, 91b:68041b
 Wechsung, Gerd see Gundermann, Thomas; et al., (91b:68006)
 Wegener, Ingo (with Zádori, László) A note on the relations between critical and sensitive complexity. (German and Russian summaries) 91a:68106
 — (with Wurm, Norbert; Yi, Sang-Zin) Symmetric functions in AC^0 can be computed in constant depth with very small size. (see 91b:68011)
 — see also Voigt, Bernd, 91d:68040 and 91b:68068
 Wiedemann, Jörn Fast simulation of nondeterministic Turing machines with application to the knapsack problem. (Russian summary) 91d:68041
 — On the power of synchronization. (German and Russian summaries) 91a:68107
 — Normalizing and accelerating RAM computations and the problem of reasonable space measures. (see 91c:68004)
 Wigderson, Avi see Just, Bettina; et al., 91b:68065
 Wilson, Christopher B. On the decomposability of NC and AC. 91b:68068
 Wilson, Christopher Barrie see Allender, Eric W., (91b:68006)
 Wurm, Norbert see Wegener, Ingo; et al., (91b:68011)
 Yang, Dong Ping see Ambos-Spies, Klaus, (91g:68006)
 Yannakakis, Mihalis see Schäffer, Alejandro A., 91b:68065
 Yi, Sang-Zin see Wegener, Ingo; et al., (91b:68011)
 Yang, Moti see Brassard, Gilles; et al., 91b:68051
 Zádori, László see Wegener, Ingo, 91a:68106
 Zhang, Li Ang (with Geng, Su Yun) Structure of the class P under the polynomial equivalence relation. (Chinese. English summary) 91b:68069
 Zurek, Wojciech Hubert Algorithmic information content, Church-Turing thesis, physical entropy, and Maxwell's demon. (see 91b:68034)
 Zwick, Uri A $4n$ lower bound on the combinatorial complexity of certain symmetric Boolean functions over the basis of unate dyadic Boolean functions. 91b:68065

Items with secondary classifications in 68Q15

- Abe, Naoki Polynomial learnability of semilinear sets. (see 91b:68014)
 Allender, Eric W. Oracles versus proof techniques that do not relativize. 91b:68101
 Ambos-Spies, Klaus Honest polynomial time reducibilities and the $P = ?NP$ problem. 91g:68087
 — (with Homer, Steven; Yang, Dong Ping) Honest polynomial reductions and expactly sets. 91g:68082
 Bennett, Charles H. Logical depth and physical complexity. (see 91b:68004)
 — Time/space trade-offs for reversible computation. 91g:68037
 Blanc, Georges see Blieuzen-Guenaëc, Noëlle, 91b:68056
 Blieuzen-Guenaëc, Noëlle (with Blanc, Georges) Production en temps réel et complexité de structure de suites infinies. (English summary) [Real-time production and structural complexity of infinite sequences] 91b:68056
 Book, Ronald V. On separating complexity classes (extended abstract). (see 91b:68006)
 Bouchitte, V. (with Habib, Michel) The calculation of invariants for ordered sets. 91c:68008
 Browne, I. A. see Clarke, Edmund M.; et al., (91b:68005)
 Bruck, Jehoshua Harmonic analysis of polynomial threshold functions. 91c:94040
 Buchholz, Wilfried (with Sieg, Wilfried) A note on polynomial time computable arithmetic. 91b:68081
 Cai, Jin-Yi Lower bounds for constant-depth circuits in the presence of help bits. 91b:68054
 Černá, Ivana Some properties of zero-testing bounded one-way multicounter machines. (see 91b:68011)
 Chandru, V. see Vinay, V., 91b:68095
 Chaudhri, N. S. (with Phatak, D. B.) On the isomorphism completeness of bipartite and tripartite graphs. 91b:68083
 Chen, Jian-er A new complete language for DSPACE($\log n$). 91b:68079
 Chen, Zhi Xiang see Huang, Wen Qi, 91a:68086; 91b:68088 and 91b:68081
 Chlebise, Bogdan S. (with Diks, Krzysztof; Hagerup, Torben; Radzik, Tomasz) New simulations between CRCW PRAMS. 91a:68055
 — Turing machines with access to history. 91b:68100
 Chmicki, Jan (with Subramanian, V. S.) Generalized closed world assumption is Π_2^P -complete. 91b:68147

- Clarke, Edmund M. (with Browne, I. A.; Kurshan, R. P.) A unified approach for showing language containment and equivalence between various types of ω -automata. (see 91e:68005)
- Clote, Peter G. A smash-based hierarchy between PTIME and PSPACE (preliminary version). (see 91a:03002)
- Cosmadakis, Stavros S. (with Kanellakis, Paris C.; Vardi, Moshe Y.) Polynomial-time implication problems for unary inclusion dependencies. 91h:68030
- Dietzfelbinger, Martin The speed of copying on one-tape off-line Turing machines. 91d:68012
- Diks, Krzysztof see Chlebus, Bogdan S.; et al., 91a:68055
- (Du, Ding Zhu) see Combinatorics, computing and complexity, 91h:68005
- Dwork, Cynthia (with Stockmeyer, Larry) A time complexity gap for two-way probabilistic finite-state automata. 91h:68148
- Feigenbaum, Joan (with Haddad, Ramsey W.) On factorable extensions and subgraphs of prime graphs. 91e:68120
- Ferreira, Fernando Polynomial time computable arithmetic. 91h:03082
- Freivalds, Rūsiņš see Kapepe, Jānis, 91h:68011
- Fulk, Mark A. (with Jain, Sanjay) Learning in the presence of inaccurate information. (see 91e:68014)
- A note on a.e. h -complex functions. 91e:03043
- von zur Gathen, Joachim Algebraic complexity theory. 91a:68150
- Geffert, Villam Speed-up theorem without tape compression. (see 91h:68011)
- Goldman, A. J. see Robinson, A. G., 91e:90150
- Griedel, Erich Size of models versus length of computations. On inseparability by nondeterministic time complexity classes. 91h:03068
- Complexity of formula classes in first order logic with functions. 91g:03020
- On logical descriptions of some concepts in structural complexity theory. (see 91g:03006)
- Simple interpretations among complicated theories. 91h:03080
- Grigorev, D. Yu. Complexity of quantifier elimination in the theory of ordinary differential equations. 91m:12009
- Grigorieff, Serge Every recursive linear ordering has a copy in DTIME-SPACE($n, \log(n)$). 91a:03093
- Habib, Michel see Bouchitte, V., 91e:06008
- Haddad, Ramsey W. see Feigenbaum, Joan, 91e:68120
- Hagerup, Torben see Chlebus, Bogdan S.; et al., 91a:68055
- Hartmanis, Juris Overview of computational complexity theory. (see 91j:68004)
- see also Computational complexity theory, 91j:68004
- Hentzel, Irvin Roy (with Jacobs, D. Pokrass) Complexity and unsolvability properties of nilpotency. 91e:68071
- Homer, Steven The isomorphism conjecture and its generalizations. 91m:03042
- see also Ambos-Spies, Klaus; et al., 91g:03082
- Howell, Rodney R. (with Rosier, Louis E.) Problems concerning fairness and temporal logic for conflict-free Petri nets. 91a:68208
- Hric, Jan see Ochazka, Vít; et al., 91a:68250
- Hromkovič, Juraj (with Kelemen, J.) How to define complex symbol systems? (A preliminary answer). 91e:68039
- (Hu, Guo Ding) see Combinatorics, computing and complexity, 91h:68005
- Huang, Wen Qi (with Chen, Zhi Xiang) Nondistributivity and noncomplementarity of the semilattice of k -1 degrees of recursive sets. (Chinese) 91f:03088
- (with Chen, Zhi Xiang) Set splitting of complexity classes. (Chinese) 91a:03086
- (with Chen, Zhi Xiang) The complete set problem in complexity classes. (Chinese. English summary) 91h:03081
- Huckenbeck, Ulrich An equivalence result for oracle sets. (German and Russian summaries) 91f:68043
- Ibarra, Oscar H. see Ravikumar, Bala, 91a:68063
- Immerman, Neil Expressibility and parallel complexity. 91h:68043
- Inoue, Katsushi see Itô, Akira; et al., 91a:68057 and 91a:68058
- Itô, Akira (with Inoue, Katsushi; Takanami, Ituo) The simulation of two-dimensional one-marker automata by three-way Turing machines. 91a:68057
- (with Inoue, Katsushi; Takanami, Ituo) Deterministic two-dimensional on-line tessellation acceptors are equivalent to two-way two-dimensional alternating finite automata through 180°-rotation. 91a:68058
- Jacobs, D. Pokrass see Hentzel, Irvin Roy, 91e:68071
- Jacopini, G. (with Mentrasti, P.; Sontacchi, G.) Reversible Turing machines and polynomial time reversibly computable functions. 91h:68041
- Jain, Sanjay see Fulk, Mark A., 91e:68014
- Jerrum, Mark Erratum: "Two-dimensional monomer-dimer systems are computationally intractable" [J. Statist. Phys. 48 (1987), no. 1-2, 121-134; MR 89d:82008]. 91h:82002
- Jiang, Tao¹ On the complexity of (off-line) 1-tape ATMs running in constant reversals. (see 91m:68002)
- On the complexity of 1-tape ATMs and off-line 1-tape ATMs running in constant reversals. 91h:68042
- Kadin, Jim Erratum: "The polynomial time hierarchy collapses if the Boolean hierarchy collapses" [SIAM J. Comput. 17 (1988), no. 6, 1263-1282; MR 90a:03060]. 91h:03102
- Kämper, Jürgen Nondeterministic oracle Turing machines with maximal computation paths. 91h:68044
- Kanellakis, Paris C. (with Revesz, Peter Z.) On the relationship of congruence closure and unification [MR 90g:68119]. (see 91j:68006)
- see also Cosmadakis, Stavros S.; et al., 91h:68030
- Kapepe, Jānis (with Freivalds, Rūsiņš) Minimal nontrivial space complexity of probabilistic one-way Turing machines. (see 91h:68011)
- Karchmer, Maurice (with Wigderson, Avi) Monotone circuits for connectivity require super-logarithmic depth. 91h:94061
- Kelemen, J. see Hromkovič, Juraj, 91e:68039
- Kelemenová, Alina Structural complexity measures on grammar forms. (see 91h:68004)
- Khachiyan, L. G. The problem of calculating the volume of a polyhedron is enumeratively hard. 91e:68073
- Kierstead, H. A. (with Penrice, S. G.) Computing the dimension of N -free ordered sets is NP-complete. 91e:06007
- Ko, Ker-I Separating and collapsing results on the relativized probabilistic polynomial-time hierarchy. 91h:03082
- Kowalczyk, Wojciech Complexity of decision problems under incomplete information. 91d:68115
- On time and space requirements for pushdown automata of higher order. 91e:68041
- (with Niwiński, Damian; Tiuryn, Jerzy) A generalization of Cook's auxiliary-pushdown-automata theorem. 91h:68023
- Kurshan, R. P. see Clarke, Edmund M.; et al., 91e:68005
- Kutyłowski, Mirosław Computational power of one-way multihead finite automata. (see 91h:68011)
- (with Liśkiewicz, Maciej; Loryś, Krzysztof) Reversal complexity classes for alternating Turing machines. 91g:68039
- Labhalla, Salah (with Lombardi, Henri) Comparaison des complexités des nombres réels dans différentes représentations (à la Cauchy, à la Dedekind, par fractions continues). (English summary) [Comparison of the complexities of real numbers in some representations (via Cauchy sequences, via Dedekind cuts, or by continued fractions)] 91h:03053
- Lange, Klaus-Jörn (with Rosmanith, Peter) Characterizing unambiguous augmented pushdown automata by circuits. (see 91h:68011)
- Latkin, E. I. Полномногочленная неавтоустойчивость: алгебраический подход. (Russian) [Polynomial nonautostability: an algebraic approach] 91h:93057
- Leivant, Daniel Inductive definitions over finite structures. 91h:03120
- Liśkiewicz, Gerhard Impossibilities and possibilities of weak separation between NP and exponential time. (see 91h:68006)
- Types of separations for relativized complexity classes. (German and Russian summaries) 91g:03083
- Liśkiewicz, Maciej (with Loryś, Krzysztof) Some time-space bounds for one-tape deterministic Turing machines. 91h:68026
- (with Loryś, Krzysztof) Fast simulations of time-bounded one-tape Turing machines by space-bounded ones. 91f:68044
- see also Kutyłowski, Mirosław; et al., 91g:68039
- Lombardi, Henri see Labhalla, Salah, 91h:03053
- Loryś, Krzysztof see Liśkiewicz, Maciej, 91h:68026; 91f:68044 and Kutyłowski, Mirosław; et al., 91g:68039
- Lutz, Jack H. Pseudorandom sources for BPP. 91h:68006
- Category and measure in complexity classes. 91h:68087
- Maass, Wolfgang (with Slaman, Theodore A.) On the relationship between the complexity, the degree, and the extension of a computable set. 91h:03103
- Marchetti-Spaccamela, A. (with Protasi, Marco) Learning under uniform distribution. 91a:68225
- Meinel, Christoph Ω -branching programs of bounded width. (see 91g:03006)
- Mentrasti, P. see Jacopini, G.; et al., 91h:68041
- Mundhenk, Martin (with Schuler, Rainer) Nonuniform complexity classes and random languages. (see 91h:68006)
- Nerode, A. (with Remmel, Jeffrey B.) Complexity-theoretic algebra. II. Boolean algebras. 91a:03114
- (with Remmel, Jeffrey B.) Polynomial time equivalence types. 91h:03061
- Niwiński, Damian see Kowalczyk, Wojciech; et al., 91h:68023
- Ochazka, Vít (with Štěpánková, Olga; Štěpánek, Petr; Hric, Jan) Normal forms and the complexity of computations of logic programs. 91a:68250
- Pacholski, Leszek Counting and the polynomial-time hierarchy. (see 91f:03008)
- Parberry, Ian A primer on the complexity theory of neural networks. 91h:68128
- Péladeau, Pierre Logically defined subsets of N^k . 91a:03079
- Penrice, S. G. see Kierstead, H. A., 91e:06007
- Phatak, D. B. see Chaudhari, N. S., 91e:05083
- Protasi, Marco see Marchetti-Spaccamela, A., 91a:68225
- Radzik, Tomasz see Chlebus, Bogdan S.; et al., 91a:68055
- Ravikumar, Bala (with Ibarra, Oscar H.) Relating the type of ambiguity of finite automata to the succinctness of their representation. 91a:68063
- Reif, John Henry (with Tate, Stephen R.) Optimal size integer division circuits. 91h:68092
- Reinhardt, Klaus Hierarchies over the context-free languages. 91j:03053
- Reischak, Rüdiger Karl Einführung in die Komplexitätstheorie. (German) [Introduction to complexity theory] 91h:68002
- Remmel, Jeffrey B. see Nerode, A., 91a:03114 and 91h:03061
- Revesz, Peter Z. see Kanellakis, Paris C., 91j:68006
- Rich, Craig A. (with Slutzki, Giora) The complexity of a counting finite state automaton. 91m:68131
- Robinson, A. G. (with Goldman, A. J.) The set coincidence game: complexity, attainability, and symmetric strategies. 91e:90150
- Rosier, Louis E. see Howell, Rodney R., 91a:68208
- Rosmanith, Peter see Lange, Klaus-Jörn, 91h:68011
- Rytter, Wojciech On parallel computations of expressions and straight-line programs. 91h:68057
- Sántean, Lila A hierarchy of unary primitive recursive string-functions. 91j:03054
- Satyanarayana, Appaioyulu see Suter, Klaus; et al., 91h:68073
- Sazonov, V. Yu. Equivalence of the polynomial constructivity of the Markov principle to the equality $P = NP$. (Russian) 91g:03118
- Schuler, Rainer see Mundhenk, Martin, 91h:68006
- Selman, Alan L. Complexity issues in cryptography. (see 91j:68004)
- Sherrington, David Complexity due to disorder and frustration. (see 91m:00034)
- Sieg, Wilfried see Buchholz, Wilfried, 91h:03081
- Slaman, Theodore A. see Maass, Wolfgang, 91h:03103
- Slutzki, Giora see Rich, Craig A., 91m:68131
- Sontacchi, G. see Jacopini, G.; et al., 91h:68041
- Štěpánek, Petr see Ochazka, Vít; et al., 91a:68250
- Štěpánková, Olga see Ochazka, Vít; et al., 91a:68250
- Stockmeyer, Larry see Dwork, Cynthia, 91h:68148
- Subrahmanian, V. S. see Chomicki, Jan, 91g:68147
- Suffel, C. see Suter, Klaus; et al., 91h:68073
- Suter, Klaus The computational complexity of cellular automata. 91a:68206

- (with Satyanarayana, Appajosyula; Suffel, C.) The complexity of the residual node connectedness reliability problem. **91i:68073**
- Takanami, Itsumi. *see* Ith, Akira; et al., **91a:68057** and **91a:68058**
- Takemi, Gaisi. S_1^2 and $P_1^2(BD)$. **91g:03085**
- Tate, Stephen R. *see* Reif, John Henry, **91h:68092**
- Tetruashvili, M. R. Decision complexity of the theory MLSC. (Russian. English and Georgian summaries) **91a:03018**
- Thurn, Jerzy *see* Kowalczyk, Wojciech; et al., **91i:68023**
- Townsend, Mike. Complexity for type-2 relations. **91k:03119**
- Turán, György. On restricted Boolean circuits. **91a:68066**
- Ugo'nikov, A. B. On the complexity of realization by formulas of a sequence of functions of many-valued logic. (Russian) **91b:94067**
- Vardi, Moshe Y. *see* Cosmadakis, Stavros S.; et al., **91h:68030**
- Vazirani, Vijay V. (with Yannakakis, Mihalis) Pfaffian orientations, 0-1 permanents, and even cycles in directed graphs. **91e:05080**
- Vinay, V. (with Chandru, V.) The expressibility of nondeterministic auxiliary stack automata and its relation to treesize bounded alternating auxiliary pushdown automata. **91j:68095**
- Waack, Stephan. The parallel complexity of some constructions in combinatorial group theory. (German and Russian summaries) **91k:20040**
- Wegener, Ingo. *Effiziente Algorithmen für grundlegende Funktionen.* (German) [Efficient algorithms for fundamental functions] **91i:68093**
- Wehrhahn, Klaus. Constructivity, computability, and computational complexity in analysis. **91h:03101**
- Wigderson, Avi. *see* Karchmer, Mauricio, **91b:94061**
- Yang, Dong Ping. *see* Ambrose-Spies, Klaus; et al., **91g:03082**
- Yannakakis, Mihalis. *see* Vazirani, Vijay V., **91e:05080**
- Yen, Hsu-Chen. Communicating processes, scheduling, and the complexity of nontermination. **91d:68023**
- Zippel, Richard. An explicit separation of relativised random polynomial time and relativised deterministic polynomial time. **91a:03087**
- Items listed otherwise than by author
- Atlanta, GA. *Computational complexity theory.* **91j:68004**
- Beijing. *Combinatorics, computing and complexity.* **91i:68005**
- Combinatorics, computing and complexity. *Combinatorics, computing and complexity.* **91i:68005**
- Complexity theory and related topics. *Keisanryō riron to sono shūhen.* (Japanese) [Complexity theory and related topics] **91i:68006**
- Computational complexity theory. *Computational complexity theory.* **91j:68004**
- Proceedings of Symposia in Applied Mathematics. *Computational complexity theory.* **91j:68004**
- Symposium:
- Combinatorial Optimization. *Combinatorics, computing and complexity.* **91i:68005**
- Complexity Theory and Related Topics. *Keisanryō riron to sono shūhen.* (Japanese) [Complexity theory and related topics] **91i:68006**
- Tianjing. *Combinatorics, computing and complexity.* **91i:68005**
- ### 68Q20 Nonnumerical algorithms {For numerical algorithms, see 65-XX; for combinatorics and graph theory, see 68Rxx.}
- Allouche, Jean-Paul (with Dress, F.) Tours de Hanoi et automates. (English summary) [Towers of Hanoi and automata] **91g:68060**
- Althöfer, Ingo (with Das, Gautam; Dobkin, David P.; Joseph, Deborah) Generating sparse spanners for weighted graphs. (see **91a:68016**)
- Asano, Tetsuo (with Tokuyama, Takeshi) Algorithms for projecting points to give the most uniform distribution with applications to hashing. (see **91g:68002**)
- Baeza-Yates, Ricardo A. *see* Gonnet, Gaston H., **91f:68071**
- Banolaugh, Bruce (with Ruskey, Frank) Generating alternating permutations lexicographically. **91a:68108**
- Bertossi, Alan A. (with Lodi, Elena; Luccio, Fabrizio; Pagli, Linda) Context-dependent string matching. **91c:68037**
- (with Moretti, Sabrina) Parallel algorithms on circular-arc graphs. **91a:68109**
- (with Luccio, Fabrizio; Lodi, Elena; Pagli, Linda) String matching with weighted errors. **91c:68069**
- Bienstock, Daniel. Linear-time test for small face covers in any fixed surface. **91e:68061**
- Bollaender, Hans L. (with Möhring, Rolf H.) The pathwidth and treewidth of cographs. (see **91c:68016**)
- Brady, Martin L. (with Brown, Donna J.) Optimal multilayer channel routing with overlap. **91i:68045**
- Brown, Donna J. *see* Brady, Martin L., **91i:68045**
- Brozovsky, Elben R. *see* Chen, Wen-Huei; et al., (Not in MR)
- Brzozowski, J. A. (with Jürgensen, H.) Probabilistic diagnosis of sequential machines (extended summary). (see **91h:68004**)
- Cancal, Didier. A fast algorithm to decide on simple grammars equivalence. **91c:68038**
- Chachanashvili, A. R. *see* Khatskevich, V. Kh., **91c:68040**
- Chang, Jui Hsiung. *see* Ko, M. T.; et al., **91f:68073**
- Chen, Wen-Huei (with Lu, Ching Sung; Brozovsky, Elben R.; Wang, Jin Tuu) An optimization technique for protocol conformance testing using multiple UIO sequences. (Not in MR)
- Chrobak, Marek (with Larmore, Lawrence L.) On fast algorithms for two servers. (see **91h:68011**)
- (with Larmore, Lawrence L.) An optimal on-line algorithm for k servers on trees. **91i:68046**
- (with Karloff, Howard J.; Payne, T. H.; Vishwanathan, S.) New results on server problems. **91h:68066**
- Crochemore, Maxime (with Rytter, Wojciech) Parallel computations on strings and arrays. **91g:68061**
- Csirik, J. An on-line algorithm for variable-sized bin packing. **91a:68110**
- Das, Gautam. *see* Althöfer, Ingo; et al., (91e:68016)
- Das, Sajal K. (with Deo, Narsingh; Prasad, Sushil) Parallel graph algorithms for hypercube computers. **91a:68111**
- Deo, Narsingh. *see* Das, Sajal K.; et al., **91a:68111**
- Dobkin, David P. *see* Althöfer, Ingo; et al., (91e:68016)
- Dress, F. *see* Allouche, Jean-Paul, **91g:68060**
- Eppstein, David. Reset sequences for monotonic automata. **91f:68070**
- Fateman, Richard J. *see* Klier, Peter, (Not in MR)
- Fournier, J.-C. Pour en finir avec la dérécursivation du problème des Tours de Hanoi. (English summary) [To conclude with the nonrecursive development of the Towers of Hanoi problem] (Not in MR)
- Friedman, Steven J. (with Supowit, Kenneth J.) Finding the optimal variable ordering for binary decision diagrams. (Not in MR)
- Friesen, Donald K. (with Langston, Michael A.) Analysis of a compound bin packing algorithm. **91k:68070**
- Gabow, Harold N. (with Tarjan, Robert Endre) Faster scaling algorithms for network problems. **91d:68042**
- Galamboos, G. Notes on Lee's harmonic fit algorithm. **91d:68043**
- Gambosi, Giorgio (with Italiano, Giuseppe F.; Talamo, Maurizio) Worst-case analysis of the set-union problem with extended backtracking. **91a:68112**
- Garmash, V. A. (with Shor, L. A.; Shor, O. L.) An algorithm for partitioning a bipartite graph on a matching of given cardinality. (Russian) (see **91e:68003**)
- van Gasteren, Antonetta Johanna Maria (with Tel, Gerard) Comments on: "On the proof of a distributed algorithm" [Inform. Process. Lett. 25 (1987), no. 3, 145-147] by J. P. Verjus. Always-true is not invariant. (Not in MR)
- Godlevskii, A. B. (with Krivot, S. L.) On an application of a minimization algorithm for finite acyclic automata. (Russian) (see **91e:68010**)
- Gonnet, Gaston H. (with Baeza-Yates, Ricardo A.) An analysis of the Karp-Rabin string matching algorithm. **91f:68071**
- Gonzalez, Teofilo F. (with Lee, Sing-Ling) A linear time algorithm for optimal routing around a rectangle. (Not in MR)
- Gries, David (with Martin, Alain J.; van de Snepcheut, Jan L. A.; Udding, Jan Tijen) An algorithm for transitive reduction of an acyclic graph. **91a:68113**
- Grigorev, D. Yu. The complexity of computations in commutative algebra. **91h:68042**
- Gusfield, Dan (with Irving, Robert W.) *The stable marriage problem: structure and algorithms.* **91e:68062**
- Hagihara, Ken'ichi. *see* Park, Jungho; et al., (Not in MR)
- Hassin, Refael. Simultaneous solution of families of problems. **91k:68071**
- Heimbold, David P. (with Mayr, Ernst W.) Applications of parallel scheduling algorithms to families of perfect graphs. (German summary) **91g:68062**
- Herman, Ted. Probabilistic self-stabilization. **91f:68072**
- Hsu, Wen-Lian. *see* Tsai, Kuo-Hui, (91g:68002)
- Isiopoulos, Costas S. (with Smyth, W. F.) A comparison of three optimal algorithms for the canonization of circular strings. (Not in MR)
- Irving, Robert W. *see* Gusfield, Dan, **91e:68062**
- Italiano, Giuseppe F. *see* Gambosi, Giorgio; et al., **91a:68112**
- Iyengar, Sitharama S. *see* Kumar, Devendra; et al., (Not in MR)
- Jamison, Beverly (with Olariu, Stephan) A linear-time recognition algorithm for P_4 -reducible graphs. **91c:68039**
- Joseph, Deborah. *see* Althöfer, Ingo; et al., (91e:68016)
- Jürgensen, H. *see* Brzozowski, J. A., (91h:68004)
- Kannan, Ravindran. The Frobenius problem. **91e:68063**
- Karloff, Howard J. *see* Chrobak, Marek; et al., **91h:68066**
- Kear, Alex (with Tsiknis, George) An incremental method for generating prime implicates/implicants. **91h:68071**
- Kenyon, Claire (with Yao, Andrew C.) On evaluating Boolean functions with unreliable tests. **91i:68047**
- Khatskevich, V. Kh. (with Chachanashvili, A. R.) High-speed digital filters on matrix elements. (Russian) **91c:68040**
- Klier, Peter (with Fateman, Richard J.) On finding the closest bitwise matches in a fixed set. (Not in MR)
- Ko, M. T. (with Lee, R. C. T.; Chang, Jui Hsiung) An optimal approximation algorithm for the rectilinear m -center problem. **91f:68073**
- Kramosil, I. Hierarchies of parallel probabilistic searching algorithms with possible data access conflicts. (Russian summary) **91a:68114**
- Křivánek, Miroslav. The use of graphs of elliptical influence in visual hierarchical clustering. (see **91h:68011**)
- Krivot, S. L. *see* Godlevskii, A. B., (91e:68010)
- Kruskal, Clyde P. (with Rudolph, Larry; Snir, Marc) Efficient parallel algorithms for graph problems. **91a:68115**
- Kumar, Devendra (with Iyengar, Sitharama S.; Sharma, Mohan B.) Corrections to a distributed depth-first search algorithm. Corrigenda: "An efficient distributed depth-first search algorithm" [Inform. Process. Lett. 32 (1989), no. 4, 183-186] by Sharma, Iyengar and N. K. Mandyam. (Not in MR)
- Kumar, P. Sreenivasa (with Veni Madhavan, C. E.) A new class of separators and planarity of chordal graphs. **91c:68041**
- Kuo, R. T. (with Tseng, S. S.) The necessary and sufficient condition for the worst-case male optimal stable matching. **91e:68064**
- Langston, Michael A. *see* Friesen, Donald K., **91k:68070**
- Larmore, Lawrence L. *see* Chrobak, Marek, **91f:68046** and (91h:68011)
- Lee, R. C. T. *see* Ko, M. T.; et al., **91f:68073**
- Lee, Sing-Ling. *see* Gonzalez, Teofilo F., (Not in MR)
- Leiserson, Charles E. (with Saxe, James B.) Retiming synchronous circuitry. **91i:68048**
- Lodi, Elena. *see* Bertossi, Alan A.; et al., **91c:68037** and **91c:68069**
- Loui, Michael C. *see* Wu, Michael M., **91e:68065**
- Lu, Ching Sung. *see* Chen, Wen-Huei; et al., (Not in MR)
- Luccio, Fabrizio. *see* Bertossi, Alan A.; et al., **91c:68037** and **91c:68069**
- Luganskaya, M. I. Almost optimal trees for computing logic functions. (Russian) **91k:68072**
- Maln, Michael G. Detecting leftmost maximal periodicities. **91h:68043**
- Manasse, Mark S. (with McGeoch, Lyle A.; Sleator, Daniel D.) Competitive algorithms for

- server problems. 91h:68072
- Manber, Udi. *see* Wu, Sun; et al., (Not in MR)
- Mandyan, N. K. *see* Kumar, Devendra; et al., (Not in MR)
- Martin, Alain J. *see* Gries, David; et al., 91a:68113
- Masuzawa, Toshimitsu *see* Park, Jungho; et al., (Not in MR)
- Mayr, Ernst W. Small proof trees and efficient parallel algorithms. 91f:68074
- *see also* Helmbold, David P., 91g:68062
- McGeoch, Lyle A. *see* Manasse, Mark S.; et al., 91h:68072
- Miller, Webb *see* Wu, Sun; et al., (Not in MR)
- Möhring, Rolf H. *see* Bodlaender, Hans L., 91c:68016
- Monma, Clyde L. (with Paterson, Michael; Suri, Subhash; Yao, Foong Frances) Computing Euclidean maximum spanning trees. 91f:68075
- Moretti, Sabrina *see* Bertossi, Alan A., 91a:68109
- Myers, Gene *see* Wu, Sun; et al., (Not in MR)
- Nesmith, Dan *see* Pfennig, Frank, 91g:68004
- Olariu, Stephan *see* Jamison, Beverly, 91c:68039
- Pagli, Linda *see* Bertossi, Alan A.; et al., 91c:68037 and 91h:68069
- Pandu Rangan, C. *see* Srinivasa Rao, Arikati, 91a:68117
- Park, Jungho (with Tokura, Nobuki; Masuzawa, Toshimitsu; Hagihara, Ken'ichi) An efficient distributed algorithm for constructing a breadth-first search tree. (Not in MR)
- Paterson, Michael *see* Monma, Clyde L.; et al., 91f:68075
- Payne, T. H. *see* Chrobak, Marek; et al., 91m:68066
- Pfennig, Frank (with Nesmith, Dan) Presenting intuitive deductions via symmetric simplification. (see 91g:68004)
- Prasad, Sushil *see* Das, Sajal K.; et al., 91a:68111
- Raghavan, Prabhakar (with Thompson, Clark D.) Multiterminal global routing: a deterministic approximation scheme. 91f:68049
- Richards, Dana S. (with Salowe, Jeffrey S.) A rectilinear Steiner minimal tree algorithm for convex point sets. (see 91c:68016)
- Rudolph, Larry *see* Kruskal, Clyde P.; et al., 91a:68115
- Ruskey, Frank *see* Bauslaugh, Bruce, 91a:68108
- Rytter, Wojciech *see* Crochemore, Maxime, 91g:68061
- Sakata, Shojiro Extension of the Berlekamp-Massey algorithm to N dimensions. 91g:68063
- Salowe, Jeffrey S. *see* Richards, Dana S., 91c:68016
- Sapir, M. V. A logic approach to combinatorial computations. 91h:68050
- Saxe, James B. *see* Leiserson, Charles E., 91h:68048
- Schiermeyer, Ingo A fast sequential and parallel algorithm for the computation of the k -closure of a graph. (see 91b:68006)
- Schwill, Andreas Nonblocking graphs: greedy algorithms to compute disjoint paths. 91g:68064
- Sharma, Mohan B. *see* Kumar, Devendra; et al., (Not in MR)
- Shor, L. A. *see* Garmash, V. A.; et al., 91c:68003
- Shor, O. L. *see* Garmash, V. A.; et al., 91c:68003
- Sleator, Daniel D. *see* Manasse, Mark S.; et al., 91h:68072
- Ślusarek, Maciej A coloring algorithm for interval graphs. 91a:68116
- Smyth, W. F. *see* Iliopoulos, Costas S., (Not in MR)
- van de Snoepcheut, Jan L. A. *see* Gries, David; et al., 91a:68113
- Spir, Marc *see* Kruskal, Clyde P.; et al., 91a:68115
- Srinivasa Rao, Arikati (with Pandu Rangan, C.) Linear algorithm for domatic number problem on interval graphs. 91a:68117
- Supowit, Kenneth J. *see* Friedman, Steven J., (Not in MR)
- Suri, Subhash *see* Monma, Clyde L.; et al., 91f:68075
- Talamo, Maurizio *see* Gambosi, Giorgio; et al., 91a:68112
- Tarjan, Robert Endre *see* Gabow, Harold N., 91d:68042
- Tel, Gerard Total algorithms. (see 91a:68006)
- *see also* van Gasteren, Antonetta Johanna Maria, (Not in MR)
- Thompson, Clark D. *see* Raghavan, Prabhakar, 91f:68049
- Tokura, Nobuki *see* Park, Jungho; et al., (Not in MR)
- Tokuyama, Takeshi *see* Asano, Tetsoo, 91g:68002
- Tsai, Kuo-Hui (with Hsu, Wen-Lian) Fast algorithms for the dominating set problem on permutation graphs. (see 91g:68002)
- Tseng, S. S. *see* Kuo, R. T., 91c:68064
- Tsiklis, George *see* Kean, Alex, 91h:68071
- Udding, Jan Tijmen *see* Gries, David; et al., 91a:68113
- Ukkonen, Esko A linear-time algorithm for finding approximate shortest common superstrings. 91g:68065
- Ullman, Jeffrey D. (with Yannakakis, Mihalis) High-probability parallel transitive-closure algorithms. 91m:68067
- Valdya, Pravin M. Geometry helps in matching. 91a:68118
- Veni Madhavan, C. E. *see* Kumar, P. Sreenivasa, 91c:68041
- Verjus, J. Pierre *see* van Gasteren, Antonetta Johanna Maria, (Not in MR)
- Vishwanathan, S. *see* Chrobak, Marek; et al., 91m:68066
- Wang, Jin Tuu *see* Chen, Wen-Huei; et al., (Not in MR)
- Wei, Wan Di On a personnel assignment problem. 91f:68076
- Woeginger, Gerhard A simple solution to the two paths problem in planar graphs. (Not in MR)
- Wu, Michael M. (with Loui, Michael C.) An efficient distributed algorithm for maximum matching in general graphs. 91c:68065
- Wu, Sun (with Manber, Udi; Myers, Gene; Miller, Webb) An $O(NP)$ sequence comparison algorithm. (Not in MR)
- Yannakakis, Mihalis *see* Ullman, Jeffrey D., 91m:68067
- Yao, Andrew C. *see* Kenyon, Claire, 91f:68047
- Yao, Foong Frances *see* Monma, Clyde L.; et al., 91f:68075
- Zhang, Yi Xia Parallel algorithms for minimal spanning trees of directed graphs. (Not in MR)
- Attiya, Hagit (with Bar-Noy, Amotz; Dolev, Danny; Peleg, David; Reischuk, Rüdiger Karl) Renaming in an asynchronous environment. 91c:68017
- Bar-Noy, Amotz (with Naor, Joseph) Sorting, minimal feedback sets, and Hamilton paths in tournaments. 91d:68007
- *see also* Attiya, Hagit; et al., 91c:68017
- Basin, David A. Equality of terms containing associative-commutative functions and commutative binding operators is isomorphism complete. (see 91g:68004)
- Beigel, Richard Unbounded searching algorithms. 91f:68021
- de Berg, Mark T. *see* van Kreveld, Marc J., 91f:68204
- Bugara, Khaled M. (with Pan, Youfang; Purdom, Paul Walton, Jr.) Exponential average time for the pure literal rule. 91f:68022
- Chalmovich, Mark (with Freiman, Gregory; Galil, Zvi) Solving dense subset-sum problems by using analytical number theory. 91c:11153
- Subset-sum problems with different summands: computation. 91h:11150
- Chang, Chén Hua *see* Lu, Tung Lin; et al., 91f:05107
- Chen, Ting Hui *see* Yao, Rong; et al., (Not in MR)
- Chernov, A. Yu. On a class of local algorithms. 91d:94031
- Colbourn, Charles J. *see* El-Mallah, Ehab S., 91h:05062
- Cornell, Derek G. *see* Everett, H. J., 91d:68125
- Dolev, Danny *see* Attiya, Hagit; et al., 91c:68017
- Eades, Peter (with Fogg, Iain; Kelly, David) SPREMB: a system for developing graph algorithms. 91b:05002
- El-Mallah, Ehab S. (with Colbourn, Charles J.) On two dual classes of planar graphs. 91h:05062
- Everett, H. J. (with Cornell, Derek G.) Recognizing visibility graphs of spiral polygons. 91d:68125
- Faigle, Ulrich (with Kern, Walter; Turán, György) On the performance of on-line algorithms for partition problems. 91b:05019
- Fang, Da Zhong A new algorithm for generating all spanning trees of a directed graph. (Chinese. English summary) (Not in MR)
- Fes, Thomas A. (with Khellaf, Mallek) A class of bounded approximation algorithms for graph partitioning. 91a:68212
- Fernandez, Jean-Claude An implementation of an efficient algorithm for bisimulation equivalence. 91g:68043
- Fernández-Baca, David (with Williams, Mark A.) On matroids and hierarchical graphs. (see 91f:68016)
- Fogg, Iain *see* Eades, Peter; et al., 91b:05002
- Freiman, Gregory *see* Chalmovich, Mark; et al., 91c:11153
- Fuller, Roy J. Formal derivation of interconnection schema for parallel computation. 91a:68039
- Galil, Zvi *see* Chalmovich, Mark; et al., 91c:11153
- Goodrich, Michael T. Triangulating a polygon in parallel. 91f:68202
- Gopinath, B. *see* Tsotras, Vassilis J.; et al., 91g:68002
- Gurvich, V. A. (with Libkin, L. O.) Quasilinear set functions and absolutely defined matrices. 91d:15063
- Hansen, Pierre (with Jaumard, Brigitte) Algorithms for the maximum satisfiability problem. (German summary) (Not in MR)
- Hart, George W. *see* Tsotras, Vassilis J.; et al., 91g:68002
- Hartmann, Juris Overview of computational complexity theory. (see 91j:68004)
- Hermann, Robert A "geometric" view of the dynamics of trajectories of computer programs. 91i:93036
- Hinz, Andreas M. An iterative algorithm for the Tower of Hanoi with four pegs. (German summary) 91h:05025
- Ho, Pei Hsin *see* Lu, Tung Lin; et al., 91f:05107
- Iwano, Kazuo (with Steiglitz, Kenneth) A semiring on convex polygons and zero-sum cycle problems. 91g:68132
- Jaumard, Brigitte *see* Hansen, Pierre, (Not in MR)
- Jerrum, Mark (with Sinclair, Alistair) Approximating the permanent. 91a:05075
- Kang, Tai *see* Yao, Rong; et al., (Not in MR)
- Kelly, David *see* Eades, Peter; et al., 91b:05002
- Kern, Walter *see* Faigle, Ulrich; et al., 91b:05019
- Khellaf, Mallek *see* Fes, Thomas A., 91a:68212
- Kou, Lawrence T. On efficient implementation of an approximation algorithm for the Steiner tree problem. (Not in MR)
- Krentel, Mark W. On finding and verifying locally optimal solutions. 91h:68066
- van Kreveld, Marc J. (with de Berg, Mark T.) Finding squares and rectangles in sets of points. 91f:68204
- Kulkarni, V. G. Generating random combinatorial objects. 91f:68167
- Libkin, L. O. *see* Gurvich, V. A., 91d:15063
- Loeb, Martin (with Nešetřil, Jaroslav) Postorder hierarchy for path compressions and set union. 91a:68209
- Lu, Tung Lin (with Ho, Pei Hsin; Chang, Chén Hua) The domatic number problem in interval graphs. 91f:05107
- Manshi, Ashfaq A. (with Simons, Barbara) Scheduling sequential loops on parallel processors. (Not in MR)
- Naor, Joseph *see* Bar-Noy, Amotz, 91d:68007
- Nešetřil, Jaroslav *see* Loeb, Martin, 91a:68209
- Pan, Youfang *see* Bugara, Khaled M.; et al., 91f:68022
- Pandu Rangan, C. *see* Ramalingam, G., (Not in MR)
- Parberry, Ian An optimal time bound for oblivious routing. 91f:68009
- (with Yan, Pei Yuan) Improved upper and lower time bounds for parallel random access machines without simultaneous writes. 91h:68044
- Peleg, David *see* Attiya, Hagit; et al., 91c:68017
- Pittel, Boris (with Rubin, Herman) How many random questions are necessary to identify n distinct objects? 91f:68031
- Purdom, Paul Walton, Jr. *see* Bugara, Khaled M.; et al., 91f:68022
- Ramalingam, G. (with Pandu Rangan, C.) New sequential and parallel algorithms for interval graph recognition. (Not in MR)
- Raynal, Michel Prime numbers as a tool to design distributed algorithms. 91a:68062

Items with secondary classifications in 68Q20

- Abdulrah, Habib Solving word equations. (French summary) 91g:68137
- Arnold, André An example of sequentialization of a parallel algorithm. (Not in MR)

- Reingold, Edward M. (with Shen, Xiao Jun) More nearly optimal algorithms for unbounded searching. I. The finite case. **91m:68091a**
- (with Shen, Xiao Jun) More nearly optimal algorithms for unbounded searching. II. The transfinite case. **91m:68091b**
- Reischuk, Rüdiger Karl see Attiya, Hagit; et al., **91e:68017**
- Rubin, Herman see Pittel, Boris, **91f:60031**
- Samuel, D. (with Toussaint, Godfried T.) Computing the external geodesic diameter of a simple polygon. (German summary) **91f:68211**
- Schäffer, Alejandro A. (with Yannakakis, Mihalis) Simple local search problems that are hard to solve. **91k:68065**
- Shasha, Dennis see Zhang, Kaizhong, **91c:68010**
- Shen, Xiao Jun see Reingold, Edward M., **91m:68091a** and **91m:68091b**
- Simone, Barbara see Munshi, Ashfaq A., (Not in MR)
- Sinclair, Alistair see Jerrum, Mark, **91a:05075**
- Steiglitz, Kenneth see Iwano, Kazuo, **91g:68132**
- Tinhofer, G. Generating graphs uniformly at random. (German summary) **91c:05175**
- Toussaint, Godfried T. see Samuel, D., **91f:68211**
- Tsotras, Vasilis J. (with Gopinath, B.; Hart, George W.) Optimally managing the history of an evolving forest. (see **91g:68002**)
- Turán, György see Fiala, Ulrich; et al., **91b:05019**
- Val'kovskii, V. A. ★ Параллелизация алгоритмов и программ. (Russian) [Parallelization of algorithms and programs] **91a:68028**
- Vishkin, Uzi Deterministic sampling—a new technique for fast pattern matching. (Not in MR)
- Williams, Mark A. see Fernández-Baca, David, **(91c:68016)**
- Winkler, Franz Solution of equations. I. Polynomial ideals and Gröbner bases. **91k:13013**
- Yan, Pei Yuan see Parberry, Ian, **91k:68044**
- Yannakakis, Mihalis see Schäffer, Alejandro A., **91k:68065**
- Yao, Rong (with Kang, Tai; Chen, Ting Hui) Algorithms for the determination of cutsets in a hypergraph. (Not in MR)
- Žerovnik, Janez A randomised heuristical algorithm for graph colouring. **91b:05084**
- Zhang, Kaizhong (with Shasha, Dennis) Simple fast algorithms for the editing distance between trees and related problems. **91c:68010**
- Zhou, Chen A permutation-generating algorithm. **91c:68104**
- 68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 68Y10.}**
- Akl, Selim G. (with Gries, David; Stojmenović, Ivan) An optimal parallel algorithm for generating combinations. **91f:68077**
- see also Osiakwan, Constantine N. K., **91c:68042**
- Al-Mouhammed, Mayes A. Lower bound on the number of processors and time for scheduling precedence graphs with communication costs. (Not in MR)
- Alonso, E. see Tarela, J. M.; et al., **91m:68070**
- Atallah, Mikhail J. A faster parallel algorithm for a matrix searching problem. (see **91c:68016**)
- Back, R. J. R. (with Sere, K.) Stepwise refinement of parallel algorithms. **91e:68066**
- Chen, Calvin Ching-Yuen (with Das, Sajal K.) Parallel algorithms for level-order traversals of general trees. **91g:68066**
- Coppersmith, Don (with Raghavan, Prabhakar; Tompa, Martin) Parallel graph algorithms that are efficient on average. **91h:68044**
- Das, Sajal K. (with Deo, Narsingh; Prasad, Sushil) Two minimum spanning forest algorithms on fixed-size hypercube computers. **91k:68073**
- see also Chen, Calvin Ching-Yuen, **91g:68066**
- Delparte-Gallet, C. (with Fauconnier, H.; Nivat, Maurice) Parallélisation d'algorithmes avec un nombre fixe de processeurs. (English summary) [Parallelization of algorithms with a fixed number of processors] **91h:68073**
- Deo, Narsingh see Das, Sajal K.; et al., **91k:68073**
- Du, Jianzhong (with Leung, Joseph Y.-T.; Young, Gilbert H.) Minimizing mean flow time with release time constraint. **91k:68074**
- Fauconnier, H. see Delparte-Gallet, C.; et al., **91h:68073**
- Gibbons, Alan (with Ziani, Ridha) The balanced binary tree technique on mesh-connected computers. (Not in MR)
- Gries, David see Akl, Selim G.; et al., **91f:68077**
- Hagerup, Torben Optimal parallel algorithms on planar graphs. **91d:68044**
- Han, Yijie (with Igarashi, Yoshihide) Derandomization by exploiting redundancy and mutual independence. (see **91g:68002**)
- Huang, Jao Hsiung (with Kleinrock, Leonard) Distributed selection sorting algorithms on broadcast communication networks. **91m:68068**
- Igarashi, Yoshihide see Han, Yijie, **(91g:68002)**
- Jiang, Zheng Z-tree structures and a parallel algorithm for updating minimum spanning trees. (Chinese. English summary) (Not in MR)
- Kalman, Dan Reading a bus-connected processor array. (Not in MR)
- Khuller, Samir Coloring algorithms for K_3 -minor free graphs. **91h:68074**
- Kirkpatrick, David G. (with Przytycka, T.) Parallel recognition of complement reducible graphs and cotree construction. **91j:68044**
- Kleinrock, Leonard see Huang, Jao Hsiung, **91m:68068**
- Leung, Joseph Y.-T. see Du, Jianzhong; et al., **91k:68074**
- Li, Ming¹ (with Yesha, Yaacov) New lower bounds for parallel computation. **91h:68051**
- (with Yesha, Yaacov) Resource bounds for parallel computation of threshold and symmetric functions. **91k:68075**
- Liu, Chao Chih Parallel algorithm for generating permutations on linear array. (Not in MR)
- Parallel generation of permutations on systolic arrays. **91m:68069**
- Liu, Feng Ch'ing see Lin, Yen Chun, **91j:68045**
- Lin, R. (with Olariu, Stephan) A fast parallel algorithm to recognize partitionable graphs. **91h:68052**
- Lin, Ya Ping A parallel merging sorting algorithm for hypercube architecture. (Chinese. English summary) (Not in MR)
- Lin, Yen Chun (with Liu, Feng Ch'ing) Parallel sorting with cooperating heaps in a linear array of processors. **91j:68045**
- Lingas, Andrzej (with Proskurowski, Andrzej) On parallel complexity of the subgraph homeomorphism and the subgraph isomorphism problem for classes of planar graphs. **91d:68045**
- Lipton, Richard J. (with Park, Arvin) The processor identity problem. (Not in MR)
- Loyens, L. D. J. C. (with van de Vorst, J. G. G.) Two small parallel programming exercises. **91k:68076**
- Marchiori, Paola (with Morgana, Aurora; Petreschi, Rossella) A parallel on-line algorithm for deriving all logical conclusions implied by a set of binary relations. **91g:68067**
- Martinez, M. V. see Tarela, J. M.; et al., **91m:68070**
- Morgana, Aurora see Marchiori, Paola; et al., **91g:68067**
- Nivat, Maurice see Delparte-Gallet, C.; et al., **91h:68073**
- Olariu, Stephan see Lin, R., **91h:68052**
- Osiakwan, Constantine N. K. (with Akl, Selim G.) Optimal parallel algorithms for b-matchings in trees. **91c:68042**
- Pan, Victor (with Reif, John Henry) Fast and efficient solution of path algebra problems. **91k:68077**
- Pandu Rangan, C. see Srinivasa Rao, Arikati, **91c:68044** and Ramalingam, G., (Not in MR)
- Pantziou, Grammati E. (with Spirakis, Paul G.; Zorilakis, Christos D.) Fast parallel approximations of the maximum weighted cut problem through derandomization. **91c:68043**
- (with Spirakis, Paul G.; Zorilakis, Christos D.) Efficient parallel algorithms for shortest paths in planar graphs. (see **91c:68016**)
- Park, Arvin see Lipton, Richard J., (Not in MR)
- Petreschi, Rossella see Marchiori, Paola; et al., **91g:68067**
- Prasad, Sushil see Das, Sajal K.; et al., **91k:68073**
- Proskurowski, Andrzej see Lingas, Andrzej, **91d:68045**
- Przytycka, T. see Kirkpatrick, David G., **91j:68044**
- Raghavan, Prabhakar see Coppersmith, Don; et al., **91h:68044**
- Ramalingam, G. (with Pandu Rangan, C.) New sequential and parallel algorithms for interval graph recognition. (Not in MR)
- Raman, Rajeev The power of collision: randomized parallel algorithms for chaining and integer sorting. **91j:68046**
- Reif, John Henry (with Tyagi, Akhilesh) Efficient parallel algorithms for optical computing with the DFT primitive. (see **91h:68009**)
- see also Pan, Victor, **91k:68077**
- Sen, Sandeep Finding an approximate median with high probability in constant parallel time. **91f:68078**
- Sere, K. see Back, R. J. R., **91e:68066**
- Spirakis, Paul G. see Pantziou, Grammati E.; et al., **91c:68043** and **(91c:68016)**
- Springsteel, Frederick N. (with Stojmenović, Ivan) Parallel general prefix computations with geometric, algebraic, and other applications. (Not in MR)
- Srinivasa Rao, Arikati (with Pandu Rangan, C.) Optimal parallel algorithms on circular-arc graphs. **91c:68044**
- Stojmenović, Ivan An optimal algorithm for generating equivalence relations on a linear array of processors. **91e:68067**
- see also Akl, Selim G.; et al., **91f:68077** and Springsteel, Frederick N., (Not in MR)
- Struik, P. A systematic design of a parallel program for Dirichlet convolution. **91k:68078**
- Tarela, J. M. (with Alonso, E.; Martinez, M. V.) A representation method for PWL functions oriented to parallel processing. **91m:68070**
- Tompa, Martin see Coppersmith, Don; et al., **91h:68044**
- Tyagi, Akhilesh see Reif, John Henry, **(91h:68009)**
- van de Vorst, J. G. G. see Loyens, L. D. J. C., **91k:68076**
- Yesha, Yaacov see Li, Ming¹, **91h:68051** and **91k:68075**
- Young, Gilbert H. see Du, Jianzhong; et al., **91k:68074**
- Zorilakis, Christos D. see Pantziou, Grammati E.; et al., **91c:68043** and **(91c:68016)**
- Ziani, Ridha see Gibbons, Alan, (Not in MR)
- Items with secondary classifications in 68Q22
- Adhar, Gur Saran (with Peng, Shietung) Parallel algorithms for cographs and parity graphs with applications. **91g:68068**
- Aggarwal, Alok (with Anderson, Richard John; Kao, Ming-Yang) Parallel depth-first search in general directed graphs. **91f:68027**
- Akl, Selim G. (with Dehne, Frank) The complexity of parallel search on coarse grained networks. (see **91a:68006**)
- Alauweiri, Hussein M. (with Prasanna Kumar, V. K.) Parallel convexity algorithms for digitized images on a linear array of processors. (see **91g:68002**)
- Anderson, Richard John (with Mayr, Ernst W.; Warmuth, Manfred K.) Parallel approximation algorithms for bin packing. **91c:68045**
- see also Aggarwal, Alok; et al., **91f:68027**
- Bagchi, Amitava (with Hakimi, S. Louis; Mitchem, J.; Schmeichel, Edward) Parallel algorithms for gossiping by mail. **91e:68018**
- Chan, Kwong-fai (with Lam, Tak-wah) Finding least-weight subsequences with fewer processors. (see **91g:68002**)
- Chang, Shing-Chong see Ja'Ja', Joseph, **91m:68099**
- Chandhuri, Pranay see Sen, Ranjan Kumar, **91g:68083**
- Crochemore, Maxime (with Rytter, Wojciech) Parallel computations on strings and arrays. **91e:68061**
- Dadoun, N. (with Kirkpatrick, David G.) Parallel algorithms for fractional and maximal independent sets in planar graphs. **91h:68146**
- Dehne, Frank see Akl, Selim G., **(91a:68006)**
- Demidenko, V. M. (with Shevchenko, L. I.) Efficiency of realizations of lexicographic sortings on vector-pipeline computers. (Russian) (Not in MR)
- Deng, Xiao Tie An optimal parallel algorithm for linear programming in the plane. **91e:90060**
- Ferreira, Afonso Gálvao A parallel time/hardware tradeoff $T \cdot H = O(2^{n/2})$ for the knapsack problem. **91m:68078**
- Fjällström, Per-Olof (with Katajainen, Jyrki; Levopoulos, Christos; Petersson, Ola) A sublogarithmic convex hull algorithm. **91e:68144**
- Franklin, M. A. ★ Систематические вычисления. (Russian) [Systolic computations] **91h:68003**

- Goldberg, Andrew V.** (with Tarjan, Robert Endre) A parallel algorithm for finding a blocking flow in an acyclic network. **91f:68085**
- Goldberg, Mark** (with Spencer, Thomas H.) Constructing a maximal independent set in parallel. **91d:68099**
- Grigor'ev, D. Yu.** (with Karpinski, Marek; Singer, Michael F.) Fast parallel algorithms for sparse multivariate polynomial interpolation over finite fields. **91h:11152**
- Hajnal, Péter** (with Szemerédi, Endre) Brooks coloring in parallel. **91c:68050**
- Hakimi, S. Louis** see Bagchi, Amitava; et al., **91c:68018**
- Herman, Gabor T.** (with Odhner, Dewey; Toennies, Klaus D.; Zenios, Stavros A.) A parallelized algorithm for image reconstruction from noisy projections. (see **91h:00029**)
- Hoare, C. A. R.** Fixed points of increasing functions. **91f:06003**
- Hsu, Wen-Jing** (with Lin, Xiaola) Parallel algorithms for labeling image components. (see **91g:68002**)
- Ja'Ja', Joseph** (with Chang, Shing-Chong) Parallel algorithms for channel routing in the knock-knee model. **91m:68099**
- Jeong, C.-S.** (with Lee, Der Tsai) Parallel geometric algorithms on a mesh-connected computer. **91c:68145**
- Kalderwall, Anne** (with Rem, Martin) The derivation of systolic computations. **91c:68108**
- Kaltofen, Erich** (with Krishnamoorthy, M. S.; Saunders, B. David) Mr. Smith goes to Las Vegas: randomized parallel computation of the Smith normal form of polynomial matrices. **91c:65166**
- Kao, Ming-Yang** see Aggarwal, Alok; et al., **91f:68027**
- Karpinski, Marek** (with Meyer auf der Heide, Friedhelm) On the complexity of genuinely polynomial computation. **91m:68060**
- see also Grigor'ev, D. Yu.; et al., **91h:11152**
- Katajainen, Jyrki** see Fjällström, Per-Olof; et al., **91c:68144**
- Kim, Sung Kwon** A parallel algorithm for finding a maximum clique of a set of circular arcs of a circle. **91f:68170**
- Kirkpatrick, David G.** see Dadoun, N., **91h:68146**
- Klein, Philip** (with Stein, Clifford) A parallel algorithm for eliminating cycles in undirected graphs. **91c:68121**
- Krishnamoorthy, M. S.** see Kaltofen, Erich; et al., **91c:65166**
- Lam, Tak-wah** see Chan, Kwong-fai, **(91g:68002)**
- Lee, Der Tsai** see Jeong, C.-S., **91c:68145**
- Lee, R. C. T.** see Shih, Z. C.; et al., **91f:68208**
- Levcopoulos, Christos** (with Lingas, Andrzej; Petersson, Ola; Rytter, Wojciech) Optimal parallel algorithms for testing isomorphism of trees and outerplanar graphs. **91f:68117**
- see also Fjällström, Per-Olof; et al., **91c:68144**
- Lin, Xiaola** see Hsu, Wen-Jing, **(91g:68002)**
- Lingas, Andrzej** Efficient parallel algorithms for path problems in planar directed graphs. (see **91g:68002**)
- see also Levcopoulos, Christos; et al., **91f:68117**
- Litow, Bruce E.** Parallel complexity of the regular code problem. **91f:68091**
- Mayr, Ernst W.** Basic parallel algorithms in graph theory. (German summary) **91c:68077**
- see also Anderson, Richard John; et al., **91c:68045**
- Meyer auf der Heide, Friedhelm** see Karpinski, Marek, **91m:68060**
- Miki, Nobuhiro** see Ohkama, Hiroshi; et al., (Not in MR)
- Mitchem, J.** see Bagchi, Amitava; et al., **91c:68018**
- Mink, Michel** A $\text{div}(n)$ depth Boolean circuit for smooth modular inverse. (see **91h:68006**)
- Nagai, Nobuo** see Ohkama, Hiroshi; et al., (Not in MR)
- Odhner, Dewey** see Herman, Gabor T.; et al., **(91h:00029)**
- Ohkama, Hiroshi** (with Miki, Nobuhiro; Nagai, Nobuo) A parallel processing for recursive least-squares using one-dimensional systolic arrays. (Not in MR)
- Pearson, David** (with Vazirani, Vijay V.) A fast parallel algorithm for finding a maximal bipartite set. **91j:68103**
- Peng, Shietung** see Adhar, Gur Saran, **91g:68068**
- Petersson, Ola** see Fjällström, Per-Olof; et al., **91c:68144** and **Levcopoulos, Christos; et al., 91f:68117**
- Prasanna Kumar, V. K.** see Alauweiri, Hussein M., **(91g:68002)**
- Reif, John Henry** see Willard, Dan E., **91c:68034**
- Rem, Martin** see Kalderwall, Anne, **91c:68108**
- Rytter, Wojciech** On parallel computations of expressions and straight-line programs. **91h:68057**
- see also Crochemore, Maxime, **91g:68061** and **Levcopoulos, Christos; et al., 91f:68117**
- Saunders, B. David** see Kaltofen, Erich; et al., **91c:65166**
- Schmeichel, Edward** see Bagchi, Amitava; et al., **91c:68018**
- Sen, Ranjan Kumar** (with Chaudhuri, Pranay) A parallel approximate algorithm for minimum edge deletion bipartite subgraph problem. **91g:68083**
- Sheu, Jang Ping** (with Tang, Jyh Shyan) Efficient parallel k selection algorithm. (Not in MR)
- Shevchenko, L. I.** Program methods for solving some problems of lexicographic ordering on vector-pipeline computers. (Russian) (Not in MR)
- see also Demidenko, V. M., (Not in MR)
- Shih, Z. C.** (with Lee, R. C. T.; Yang, S. N.) A parallel algorithm for finding congruent regions. **91f:68208**
- Singer, Michael F.** see Grigor'ev, D. Yu.; et al., **91h:11152**
- Spencer, Thomas H.** see Goldberg, Mark, **91d:68099**
- Stein, Clifford** see Klein, Philip, **91c:68121**
- Szemerédi, Endre** see Hajnal, Péter, **91c:68050**
- Tang, Jyh Shyan** see Sheu, Jang Ping, (Not in MR)
- Tarjan, Robert Endre** see Goldberg, Andrew V., **91f:68085**
- Toennies, Klaus D.** see Herman, Gabor T.; et al., **(91h:00029)**
- Vazirani, Vijay V.** see Pearson, David, **91j:68103**
- Warmuth, Manfred K.** see Anderson, Richard John; et al., **91c:68045**
- Wen, Zhaofang** Parallel multiple search. **91m:68029**
- Willard, Dan E.** (with Reif, John Henry) Parallel processing can be harmful: the unusual behavior of interpolation search. **91c:68034**
- Wilson, Christopher B.** On the decomposability of NC and AC. **91h:68068**
- Yang, S. N.** see Shih, Z. C.; et al., **91f:68208**
- Zenios, Stavros A.** see Herman, Gabor T.; et al., **(91h:00029)**
- Zeugmann, Thomas** Computing large polynomial powers very fast in parallel. **91m:68097**
- ### 68Q25 Analysis of algorithms and problem complexity
- Abadi, Martin** (with Feigenbaum, Joan) Secure circuit evaluation. A protocol based on hiding information from an oracle. **91f:68079**
- Adhar, Gur Saran** (with Peng, Shietung) Parallel algorithms for cographs and parity graphs with applications. **91g:68068**
- Aggarwal, Alok** (with Leighton, Frank Thomson) A tight lower bound for the train reversal problem. (Not in MR)
- (with Klawe, Maria; Lichtenstein, David; Linial, Nathan; Wigderson, Avi) A lower bound on the area of permutation layouts. **91m:68071**
- Ahja, Ravindra K.** (with Orlin, James B.; Tarjan, Robert Endre) Improved time bounds for the maximum flow problem. **91d:68046**
- Alon, Noga** Generating pseudo-random permutations and maximum flow algorithms. **91g:68069**
- Althöfer, Ingo** Tight lower bounds on the length of word chains. (Not in MR)
- The complexity of a simple stochastic OR-tree model in which "directional search" is bad. **91m:68072**
- Anderson, Richard John** (with Mayr, Ernst W.; Warmuth, Manfred K.) Parallel approximation algorithms for bin packing. **91c:68045**
- (with Mayr, Ernst W.; Warmuth, Manfred K.) Parallel approximation algorithms for bin packing. (see **91c:68045**)
- Anisimov, A. V.** Recursive information converters. (Russian) **91h:68075**
- Annexstein, Fred** (with Baumslag, Marc; Rosenberg, Arnold L.) Group action graphs and parallel architectures. **91g:68070**
- Apostolico, Alberto** (with Atallah, Mikhail J.; Larmore, Lawrence L.; McFadden, Scott) Efficient parallel algorithms for string editing and related problems. **91g:68071**
- Assad, Arjang A.** see Kelly, James P.; et al., **91h:68079** and (Not in MR)
- Atallah, Mikhail J.** see Apostolico, Alberto; et al., **91g:68071**
- Avis, David** On the complexity of isometric embedding in the hypercube. **91h:68079**
- Baker, Edward K.** see Kelly, James P.; et al., (Not in MR)
- Baumslag, Marc** see Annexstein, Fred; et al., **91g:68070**
- Beame, Paul** (with Hastad, Johan) Optimal bounds for decision problems on the CRCW PRAM. **91g:68072**
- Becker, Ronald I.** Inductive algorithms on finite trees. **91g:68073**
- van den Berg, Jacob** see Kranakis, Evangelos; et al., **(91c:68004)**
- Berger, Bonnie** (with Rompel, John) A better performance guarantee for approximate graph coloring. **91g:68074**
- Berman, A. Michael** (with Paull, Marvin C.; Ryder, Barbara G.) Proving relative lower bounds for incremental algorithms. **91h:68080**
- Berman, Fran** (with Johnson, David Stifter; Leighton, Frank Thomson; Shor, Peter W.; Snyder, Larry E.) Generalized planar matching. **91h:68053**
- Bertoni, Alberto** (with Goldwurm, M.; Massazza, P.) Counting problems and algebraic formal power series in noncommuting variables. **91c:68068**
- Bhatt, Sandeep N.** (with Chung, Fan R. K.; Rosenberg, Arnold L.) Partitioning circuits for improved testability. **91j:68047**
- Bienstock, Daniel** (with Monma, Clyde L.) On the complexity of embedding planar graphs to minimize certain distance measures. **91a:68119**
- Billardi, Gianfranco** (with Moitra, Abha) Time lower bounds for CREW-PRAM computation of monotone functions. **91a:68120**
- (with Preparata, Franco P.) Size-time complexity of Boolean networks for prefix computations. **91g:68075**
- (with Preparata, Franco P.) Characterization of associative operations with prefix circuits of constant depth and linear size. **91h:68076**
- Bodlaender, Hans L.** Chromatic number is NP-complete for cographs and interval graphs. **91a:68121**
- Improved self-reduction algorithms for graphs with bounded treewidth. (see **91h:68006**)
- Boppana, Ravi** (with Halldórsson, Magnús M.) Approximating maximum independent sets by excluding subgraphs. (see **91c:68016**)
- Boyar, Joan F.** (with Kurtz, Stuart A.; Krentel, Mark W.) A discrete logarithm implementation of perfect zero-knowledge blobs. **91m:68073**
- Brandenburg, Franz-Josef** On the complexity of optimal drawings of graphs. (see **91h:68006**)
- Brandstätt, Andreas** The jump number problem for biconvex graphs and rectangle covers of rectangular regions. **91h:68045**
- Breslauer, Dany** (with Galil, Zvi) An optimal $O(\log \log n)$ time parallel string matching algorithm. **91m:68074**
- Bruck, Jehoshua** (with Goodman, Joseph W.) On the power of neural networks for solving hard problems. **91f:68080**
- Ball, Mathias** (with Hemmerling, Armin) New results on lower bounds in labyrinth theory. (see **91m:68007**)
- Cai, Jiazhen** (with Paige, Robert; Tarjan, Robert Endre) More efficient bottom-up tree pattern matching. (see **91c:68005**)
- Cai, Jin-Yi** Lower bounds for constant-depth circuits in the presence of help bits. **91h:68054**
- Cai, Leizhen** (with Ellis, John A.) NP-completeness of edge-colouring some restricted graphs. **91g:68048**
- Chan, Kwong-fai** (with Lam, Tak-wah) Finding least-weight subsequences with fewer processors. (see **91g:68002**)
- Chandrasekharan, N.** Isomorphism testing of k -trees is in NC, for fixed k . (Not in MR)
- Chang, Kuo-En** (with Lai, Ting Hua; Feng, Wu Hsiung) A topological sorting algorithm for three-layer channel routing. (Chinese summary) (Not in MR)
- Chao, Ming-Te** (with Franco, John) Probabilistic analysis of a generalization of the unit-clause literal selection heuristics for the k -satisfiability problem. **91g:68076**
- Chaudhuri, Pranay** An adaptive parallel algorithm for analyzing activity networks. (Not in MR)
- see also Sen, Ranjan Kumar, **91g:68083**
- Chazelle, Bernard** Lower bounds on the complexity of polytope range searching. **91a:68122**
- Cheah, F.** (with Corneli, Derek G.) The complexity of regular subgraph recognition. **91f:68055**

- Cheng, Kam-Hoi *see* Li, Kogin, 91f:68090; 91f:68070 and Wang, Qingzhong, (91g:68002)
- Cheng, T. C. E. *see* Sin, C. C. S., 91a:68141
- Cheriyian, Joseph (with Maheshwari, Sachindra Nath) Analysis of preflow push algorithms for maximum network flow. 91k:68081
- (with Hagerup, Torben; Mehlhorn, Kurt) Can a maximum flow be computed in $O(nm)$ time? (see 91e:68004)
- Cheston, Grant A. (with Fricke, Gerd H.; Hedetniemi, Stephen T.; Jacobs, D. Pokrass) On the computational complexity of upper fractional domination. 91g:68077
- Chin, Andrew On the depth complexity of the counting functions. 91f:68056
- Chlebus, Bogdan S. (with Kukawka, Maciej) A guide to sorting on the mesh-connected processor array. (Russian summary) 91f:68057
- Chrétienne, Philippe Task scheduling over distributed memory machines. 91c:68046
- Chung, Fan R. K. *see* Bhatt, Sandeep N.; et al., 91j:68047
- Chung, Jen-Yao *see* Shih, Wei Kuan; et al., 91k:68094
- Chung, S. J. NP-completeness of the linear complementarity problem. 91b:68046
- Clausen, Michael Fast generalized Fourier transforms. 91f:68081
- Coffman, E. G., Jr. (with Leighton, Frank Thomson) A provably efficient algorithm for dynamic storage allocation. 91a:68123
- (with Fayolle, Guy; Jacquet, Philippe; Robert, Philippe) Largest-first sequential selection with a sum constraint. 91f:68082
- (with Flatto, Leopold; Leighton, Frank Thomson) First-fit allocation of queues: tight probabilistic bounds on wasted space. 91m:68075
- (with Shor, Peter W.) A simple proof of the $O(\sqrt{n} \log^{3/4} n)$ upright matching bound. 91m:68076
- Colbourn, Charles J. (with van Oorschot, Paul C.) Applications of combinatorial designs in computer science. 91g:68078
- Cole, Richard (with Salowe, Jeffrey S.; Steiger, W. L.; Szemerédi, Endre) An optimal-time algorithm for slope selection. 91a:68124
- Coppersmith, Don (with Winograd, Shmuel) Matrix multiplication via arithmetic progressions. 91f:68058
- Cornell, Derek G. *see* Cheah, F., 91f:68055
- Cosnard, Michel Yves (with Duprat, Jean; Ferreira, Afonso Galvão) Complexity of selection in $X + Y$. 91f:68083
- Calrık, J. (with Imreh, B.) On the worst-case performance of the NkF bin-packing heuristic. 91f:68084
- (with Frenk, J. B. G.; Labbé, Martine; Zhang, S.) On the multidimensional vector bin packing. 91k:68082
- Cai, Gao Hua The computing time of UNION-FIND sequences. (Chinese. English summary) 91g:68079
- Cull, Paul Analysis of algorithms. 91j:68049
- Dančik, Vladimír Lower bound for complexity of product of linear combinations. (Russian summary) 91m:68077
- Deogun, Jitender S. *see* Soumyanath, K., 91b:68082
- Dietmas, Valdas Realization of symmetric functions by restricted threshold element circuits. (Russian. English and Lithuanian summaries) (Not in MR)
- Dill, Jens M. A counterexample for: "A simpler construction for showing the intrinsically exponential complexity of the circularity problem for attribute grammars" [J. Assoc. Comput. Mach. 28 (1981), no. 4, 715–720; MR 83k:68030] by M. Jazayeri. 91f:68059
- Dowling, Michael L. A fast parallel Horner algorithm. 91d:68047
- Duprat, Jean *see* Cosnard, Michel Yves; et al., 91f:68083
- Duriš, Pavol (with Pudlák, Pavel) On the communication complexity of planarity. 91b:68047
- Eberly, Wayne Very fast parallel polynomial arithmetic. 91d:68048
- Ehrenfeucht, Andrzej (with Haussler, David; Kearns, Michael; Valiant, Leslie G.) A general lower bound on the number of examples needed for learning. 91b:68048
- Ellis, John A. *see* Cai, Leizhen, 91f:68048
- Eppstein, David (with Galil, Zvi; Giancarlo, Raffaele) Efficient algorithms with applications to molecular biology. 91a:68125
- Finding the k smallest spanning trees. (see 91e:68016)
- Faigle, Ulrich (with Turán, György) Communication complexity. (German summary) 91g:68080
- Fayolle, Guy *see* Coffman, E. G., Jr.; et al., 91f:68082
- Feigenbaum, Joan (with Kannan, Sampath; Nisan, Noam) Lower bounds on random-self-reducibility (extended abstract). (see 91k:68006)
- *see also* Abadi, Martin, 91f:68079
- Feng, Wu Hsiung *see* Chang, Kuo Ên; et al., (Not in MR)
- Fernández-Baca, David (with Slutzki, Giora) Solving parametric problems on trees. 91a:68126
- Ferreira, Afonso Galvão A parallel time/hardware tradeoff $T \cdot H = O(2^{n/2})$ for the knapsack problem. 91m:68078
- *see also* Cosnard, Michel Yves; et al., 91f:68083
- Fields, Malcolm C. (with Frederickson, Greg N.) A faster algorithm for the maximum weighted tardiness problem. (Not in MR)
- Flajolet, Philippe (with Gardy, Danièle; Thimonier, Loys) Random allocations and probabilistic languages. 91a:68127
- Flatto, Leopold *see* Coffman, E. G., Jr.; et al., 91m:68075
- Floyd, Sally (with Karp, Richard M.) FFD bin packing for item sizes with uniform distributions on $[0, \frac{1}{2}]$. 91m:68079
- Franco, John *see* Chao, Ming-Te, 91f:68076
- Françon, J. (with Randrianarimanana, B.; Schott, René) Analysis of dynamic algorithms in Knuth's model. 91m:68080
- Frederickson, Greg N. A distributed shortest path algorithm for a planar network. 91j:68058
- (with Johnson, Donald B.) Erratum: "Generalized selection and ranking: sorted matrices" [SIAM J. Comput. 13 (1984), no. 1, 14–30; MR 85c:68025]. 91a:68128
- *see also* Fields, Malcolm C., (Not in MR)
- Frenk, J. B. G. *see* Calrık, J.; et al., 91k:68082
- Fricke, Gerd H. *see* Cheston, Grant A.; et al., 91g:68077
- Frize, A. M. Probabilistic analysis of graph algorithms. (German summary) 91m:68081
- Fujiwara, Hideo Computational complexity of controllability/observability problems for combinational circuits. (Not in MR)
- Furnari, M. (with Massarotti, A.) Comparing notions of approximation. 91c:68047
- Fussell, Donald (with Thurimella, Ramakrishna) Successive approximation in parallel graph algorithms. 91f:68060
- Gabor, Csaba P. (with Supowit, Kenneth J.; Hsu, Wen-Lian) Recognizing circle graphs in polynomial time. 91e:68069
- Galil, Zvi (with Park, Kunsoo) A linear-time algorithm for concave one-dimensional dynamic programming. (Not in MR)
- *see also* Eppstein, David; et al., 91a:68125 and Breslauer, Dany, 91m:68074
- Gambosi, Giorgio (with Postiglione, Alberto; Talamo, Maurizio) New algorithms for on-line bin packing. 91j:68051
- Gao, Feng *see* Kirkpatrick, David G., (91g:68002)
- Garbuzov, B. Yu. *see* Vorontsov, N. B., 91d:68055
- Gardy, Danièle *see* Flajolet, Philippe; et al., 91a:68127
- van zur Gathen, Joachim Maximal bilinear complexity and codes. 91f:68061
- Gershuni, D. S. (with Sherstnyak, A. V.) Experimental comparison of two heuristic algorithms for a generalization of the traveling salesman problem on a plane of large dimension. 91j:68052
- Giancarlo, Raffaele *see* Eppstein, David; et al., 91a:68125
- Gibbons, Alan (with Rytter, Wojciech) Optimally edge-colouring outerplanar graphs is in NC. 91f:68062
- Goldberg, Andrew V. (with Tarjan, Robert Endre) A parallel algorithm for finding a blocking flow in an acyclic network. 91f:68085
- Goldberg, Mark (with Spencer, Thomas H.) A new parallel algorithm for the maximal independent set problem. 91c:68048
- Golden, Bruce L. *see* Kelly, James P.; et al., 91b:68079 and (Not in MR)
- Goldreich, Oded (with Krawczyk, Hugo; Luby, Michael) On the existence of pseudorandom generators. 91c:68049
- A note on computational indistinguishability. 91f:68086
- Goldwurm, M. *see* Bertoni, Alberto; et al., 91e:68068
- Goodman, Joseph W. *see* Bruck, Jehoshua, 91f:68060
- Grinstead, Dana L. (with Slater, Peter J.) On minimum dominating sets with minimum intersection. 91k:68083
- Gritsak, V. V. (with Tarasova, L. G.) Prerequisites for creating computing devices with qualitatively new algorithmic possibilities. (Russian. English summary) (Not in MR)
- Gu, Qian Ping (with Maruoka, Akira) Amplification of bounded depth monotone read-once Boolean formulae. 91k:68084
- Hagerup, Torben Planar depth-first search in $O(\log n)$ parallel time. 91g:68081
- *see also* Cheriyian, Joseph; et al., (91c:68004)
- Haglin, David J. (with Venkatesan, Shankar M.) Approximation and intractability results for the maximum cut problem and its variants. (Not in MR)
- Hains, Gaétan La complexité du filtrage associatif-commutatif. (English summary) [Complexity of associative-commutative matching] 91k:68085
- Hajnal, Péter On the power of randomness in the decision tree model. (see 91k:68006)
- (with Szemerédi, Endre) Brooks coloring in parallel. 91c:68050
- Hakimi, S. Louis *see* Tsao, Tai-Ching, 91g:68086
- Halfin, Shlomo Next-fit bin packing with random piece sizes. 91f:68087
- Halldórsson, Magnús M. *see* Boppana, Ravi, (91e:68016)
- Håstad, Johan Tensor rank is NP-complete. 91k:68086
- *see also* Beame, Paul, 91f:68072
- Haussler, David *see* Ehrenfeucht, Andrzej; et al., 91b:68048
- Hayward, Ryan B. (with Hoàng, Chinh T.; Maffray, Frédéric) Optimizing weakly triangulated graphs. 91c:68051a
- (with Hoàng, Chinh T.; Maffray, Frédéric) Erratum: "Optimizing weakly triangulated graphs". 91c:68051b
- He, Xin (with Yesha, Yaacov) Efficient parallel algorithms for r -dominating set and p -center problems on trees. 91a:68129
- Efficient parallel and sequential algorithms for 4-coloring perfect planar graphs. 91g:68082
- *see also* Sarnath, R., 91k:68093
- Heath, Lenwood S. Covering a set with arithmetic progressions is NP-complete. 91f:68088
- Hecker, Hans-Dietrich (with Herwig, Dietmar) Some NP-hard polygon cover problems. (German and Russian summaries) 91e:68070
- Hedetniemi, Stephen T. *see* Cheston, Grant A.; et al., 91g:68077
- Heiman, Rafi (with Newman, Ilan; Wigderson, Avi) On read-once threshold formulae and their randomized decision tree complexity. (see 91k:68006)
- Hell, Pavel (with Nešetřil, Jaroslav) On the complexity of H -coloring. 91m:68082
- Hellerstein, Lisa (with Klein, Philip; Wilber, Robert) On the time-space complexity of reachability queries for preprocessed graphs. 91f:68063
- Hemmerling, Armin *see* Bull, Mathias, (91m:68007)
- Hentzel, Irvin Roy (with Jacobs, D. Pokrass) Complexity and unsolvability properties of nilpotency. 91e:68071
- Herwig, Dietmar *see* Hecker, Hans-Dietrich, 91e:68070
- Higashi, Yasuhiko *see* Watanabe, Toshimasa; et al., (91g:68002)
- Hirschberg, Daniel S. *see* Ng, Cheng, 91f:68094 and 91m:68089
- Hokang, Chinh T. *see* Hayward, Ryan B.; et al., 91c:68051a and 91c:68051b
- Hromkovič, Juraj On problems for which no oracle can help. 91m:68083
- Hsu, Wen-Lian *see* Gabor, Csaba P.; et al., 91e:68069
- Huynh, Dũng T. The complexity of ranking simple languages. 91k:68087
- Imreh, B. *see* Calrık, J., 91k:68084
- Irving, Robert W. On approximating the minimum independent dominating set. 91m:68084
- Iwano, Kazuo An improvement of Goldberg, Plotkin and Vaidya's maximal node-disjoint paths algorithm. 91a:68130
- Izumoto, Hiroshi (with Wakabayashi, Shin'ichi; Miyao, Jun'ichi; Yoshida, Noriyoshi) A placement method for size-restricted blocks in VLSI layout design. (Not in MR)
- Jacobs, D. Pokrass *see* Hentzel, Irvin Roy, 91f:68071 and Cheston, Grant A.; et al., 91g:68077
- Jacquet, Philippe (with Szpankowski, Wojciech) Ultimate characterizations of the burst response of an interval searching algorithm: a study of a functional equation. 91f:68089
- *see also* Coffman, E. G., Jr.; et al., 91f:68082

- (Jazayeri, Mehdi) *see* Dill, Jens M., 91f:68059
- Jerrum, Mark (with Sinclair, Alistair) Fast uniform generation of regular graphs. 91h:68077
- *see also* Sinclair, Alistair, 91g:68084
- Johnson, David Stifler *see* Berman, Fran; et al., 91f:68053
- Johnson, Donald B. *see* Frederickson, Greg N., 91a:68128
- Jukna, Stasys P. The effect of null-chains on the complexity of contact schemes. 91d:68049
- Kaminski, Michael A note on probabilistically verifying integer and polynomial products. 91c:68072
- Kann, Viggo Maximum bounded 3-dimensional matching is MAX SNP-complete. 91m:68085
- Kannan, Sampath *see* Feigenbaum, Joan; et al., (91k:68006)
- Karloff, Howard J. An NC algorithm for Brooks' theorem. 91d:68050
- Karp, Richard M. *see* Floyd, Sally, 91m:68079
- Kasif, Simon On the parallel complexity of discrete relaxation in constraint satisfaction networks. 91h:68078
- Kearns, Michael *see* Ehrenfeucht, Andrzej; et al., 91h:68048
- Kelly, James P. (with Golden, Bruce L.; Assad, Arjang A.; Baker, Edward K.) Controlled rounding of tabular data. (Not in MR)
- (with Assad, Arjang A.; Golden, Bruce L.) The controlled rounding problem: relaxations and complexity issues. (German summary) 91h:68079
- Kemp, Rainer *see* Speckmeyer, Ewald, (91g:03006)
- Khachiyan, L. G. The problem of calculating the volume of a polyhedron is enumeratively hard. 91k:68073
- Khuller, Samir Extending planar graph algorithms to $K_{1,3}$ -free graphs. 91c:68052
- Kirkpatrick, David G. (with Gao, Feng) Finding extrema with unary predicates. (see 91g:68002)
- Klawe, Maria *see* Aggarwal, Alok; et al., 91m:68071
- Klein, Philip *see* Hellerstein, Lisa; et al., 91k:68063
- Kleine Büning, Hans Existence of simple propositional formulas. 91i:68064
- (with Löwen, Ulrich; Schmitgen, Stefan) Equivalence of propositional Prolog programs. 91i:68065
- Kohli, Rajeev (with Krishnamurti, Ramesh) Average performance of heuristics for satisfiability. 91a:68131
- Korobitsyn, D. V. On the complexity of determining the domination number in monogenic classes of graphs. (Russian) 91f:68066
- Kosaraju, S. Rao On the parallel evaluation of classes of circuits. 91f:68067
- Kranakis, Evangelos (with Krizanc, Danny; van den Berg, Jacob) Computing Boolean functions on anonymous networks. (see 91c:68004)
- Kratsch, Dieter Finding dominating cliques efficiently, in strongly chordal graphs and undirected path graphs. 91k:68088
- Krawczyk, Hugo *see* Goldreich, Oded; et al., 91c:68049
- Krentel, Mark W. *see* Boyar, Joan F.; et al., 91m:68073
- Krishnamurti, Ramesh *see* Kohli, Rajeev, 91a:68131
- Křivánek, Miro A note on the computational complexity of bracketing and related problems. 91a:68132
- Krizanc, Danny *see* Kranakis, Evangelos; et al., (91c:68004)
- Kukawka, Maciej *see* Chleb, Bogdan S., 91f:68057
- Kurtz, Stuart A. *see* Boyar, Joan F.; et al., 91m:68073
- Kuznetsov, S. E. *see* Nigmatullin, R. G., 91m:68090
- Labbe, Martine *see* Csirik, J.; et al., 91k:68082
- Lai, T'ing Hua *see* Chang, Kuo-En; et al., (Not in MR)
- Lam, Tak-wah *see* Chan, Kwong-fai, (91g:68002)
- Larmore, Lawrence L. An optimal algorithm with unknown time complexity for convex matrix searching. 91i:68068
- *see also* Apostolico, Alberto; et al., 91g:68071
- Lee, R. C. T. *see* Yen, Chain-Chin, 91h:68084
- Leighton, Frank Thomson *see* Coffman, E. G., Jr., 91a:68123; Berman, Fran; et al., 91f:68053; Coffman, E. G., Jr.; et al., 91m:68075 and Aggarwal, Alok, (Not in MR)
- Lengauer, Thomas Hierarchical planarity testing algorithms. 91i:68069
- (with Wagner, Klaus W.) The binary network flow problem is logspace complete for P. 91k:68089
- Leung, Joseph Y.-T. Bin packing with restricted piece sizes. 91a:68133
- Levine, Robert Y. (with Sherman, Alan T.) A note on Bennett's time-space tradeoff for reversible computation. 91j:68053
- Ll, Kegin (with Cheng, Kam-Hoi) Generalized first-fit algorithms in two and three dimensions. 91i:68070
- (with Cheng, Kam-Hoi) On three-dimensional packing. 91f:68090
- Ll, Zhiyuan (with Reingold, Edward M.) Solution of a divide-and-conquer maximin recurrence. 91m:68086
- Lichtenstein, David *see* Aggarwal, Alok; et al., 91m:68071
- Linial, Nathan *see* Aggarwal, Alok; et al., 91m:68071
- Litow, Bruce E. Parallel complexity of the regular code problem. 91f:68091
- Liu, Jane W. S. *see* Shih, Wei Kuan; et al., 91k:68094
- Liu, Zhen A note on Graham's bound. 91j:68054
- Lowchard, Guy (with Schott, René) Probabilistic analysis of some distributed algorithms. (see 91c:68005)
- Löwen, Ulrich *see* Kleine Büning, Hans; et al., 91i:68065
- Luby, Michael (with Rade, Prabhakar) A bidirectional shortest-path algorithm with good average-case behavior. 91c:68074
- *see also* Goldreich, Oded; et al., 91c:68049
- Luoker, George S. (with Megiddo, Nimrod; Ramachandran, Vijaya) Linear programming with two variables per inequality in poly-log time. 91h:68090
- Luo, Zhi-Quan Communication complexity of computing a collection of rational functions. (see 91m:68002)
- Madhavapeddy, Seshu (with Sudborough, Ivan Hal) Disjoint paths in the hypercube. (see 91k:68006)
- Maffray, Frédéric *see* Hayward, Ryan B.; et al., 91c:68051a and 91c:68051b
- Maheshwari, Sachindra Nath *see* Cheriyan, Joseph, 91k:68081
- Mainashev, S. M. *see* Nechipurenko, M. I.; et al., 91j:68056
- Mäkinen, Erkki A note on the median heuristic for drawing bipartite graphs. 91c:68075
- Manacher, Glenn K. (with Mankus, Terrance A.; Smith, Carol Joan) An optimum $\Theta(n \log n)$ algorithm for finding a canonical Hamiltonian path and a canonical Hamiltonian circuit in a set of intervals. (Not in MR)
- Manber, Udi Recognizing breadth-first search trees in linear time. 91f:68092
- *see also* Pruhs, Kirk, 91a:68135
- Mangasarian, O. L. (with Setton, R.; Wolberg, W. H.) Pattern recognition via linear programming: theory and application to medical diagnosis. (see 91h:00029)
- Mankus, Terrance A. *see* Manacher, Glenn K.; et al., (Not in MR)
- Mannila, Heikki (with Ukkonen, Eiko) Unifications, deunifications, and their complexity. 91j:68055
- Manoussakis, Yannis (with Tuza, Zolt) Polynomial algorithms for finding cycles and paths in bipartite tournaments. 91h:68080
- Mansour, Yishay (with Schieber, Baruch; Tiwari, Prasoon) Lower bounds for computations with the floor operation. 91c:68076
- (with Schieber, Baruch; Tiwari, Prasoon) Lower bounds for computations with the floor operation. 91m:68087
- Marcotte, Odile (with Suri, Subhash) Fast matching algorithms for points on a polygon. 91m:68088
- Martynov, S. S. Complexity of some problems in editing words. (Russian) 91c:68053
- Maruoka, Akira *see* Gu, Qian Ping, 91k:68084
- Massarotti, A. *see* Furnari, M., 91c:68047
- Massazza, P. *see* Bertoni, Alberto; et al., 91c:68068
- Mattern, Friedemann Virtual time and global states of distributed systems. (see 91a:68006)
- Mayr, Ernst W. Basic parallel algorithms in graph theory. (German summary) 91c:68077
- *see also* Anderson, Richard John; et al., 91c:68045 and (91f:00006)
- McFadden, Scott *see* Apostolico, Alberto; et al., 91g:68071
- Megiddo, Nimrod Extending NC and RNC algorithms. 91c:68054
- *see also* Luoker, George S.; et al., 91h:68090
- Mehlhorn, Kurt (with Näher, Stefan; Rauch, M.) On the complexity of a game related to the dictionary problem. 91f:68093
- *see also* Cheriyan, Joseph; et al., (91c:68004)
- Micali, Silvio (with Schnorr, C.-P.) Efficient, perfect random number generators. 91d:68051
- Miyao, Jun'ichi *see* Izumoto, Hiroshi; et al., (Not in MR)
- Moltra, Abba *see* Bilardi, Gianfranco, 91a:68120
- Monma, Clyde L. *see* Blensstock, Daniel, 91a:68119
- Munch, Niels Juel Orthogonally invariant measures and best approximation of linear operators. 91c:68055
- Mundhenk, Martin (with Schuler, Rainer) Nonuniform complexity classes and random languages. (see 91k:68006)
- Näher, Stefan *see* Mehlhorn, Kurt; et al., 91f:68093
- Nakamura, Akira *see* Watanabe, Toshimasa; et al., (91g:68002)
- Naor, Joseph (with Novick, Mark B.) An efficient reconstruction of a graph from its line graph in parallel. 91d:68052
- Narasimhan, Giri A note on the Hamiltonian circuit problem on directed path graphs. 91a:68134
- Nechipurenko, M. I. (with Popkov, V. K.; Mainashev, S. M.; et al.) ★ Алгоритмы и программы решения задач на графах и сетях. (Russian) [Algorithms and programs for solving problems on graphs and networks] 91j:68056
- Nešetřil, Jaroslav *see* Hell, Pavel, 91m:68082
- Newman, Ian *see* Heiman, Rafi; et al., (91k:68006)
- Ng, Cheng (with Hirschberg, Daniel S.) Lower bounds for the stable marriage problem and its variants. 91f:68094
- (with Hirschberg, Daniel S.) Three-dimensional stable matching problems. 91m:68089
- Nigmatullin, R. G. ★ Нижние оценки сложности и сложности универсальных схем. (Russian) [Lower bounds on complexity and the complexity of universal schemes] 91m:68090
- Nisan, Noam *see* Feigenbaum, Joan; et al., (91k:68006)
- Norton, Graham A shift-remainder GCD algorithm. 91d:68053
- Novick, Mark B. *see* Naor, Joseph, 91d:68052
- (Nurmeev, N.) *see* Nigmatullin, R. G., 91m:68090
- van Oorschot, Paul C. *see* Colbourn, Charles J., 91g:68078
- Orlin, James B. *see* Ahuja, Ravindra K.; et al., 91d:68046
- Paige, Robert *see* Cai, Jiazhen; et al., (91c:68005)
- Pandu Rangan, C. *see* Srinivasa Rao, Arikati, 91g:68085
- Papadimitriou, Christos H. (with Yannakakis, Mihalis) On recognizing integer polyhedra. 91i:68071
- (with Yannakakis, Mihalis) Towards an architecture-independent analysis of parallel algorithms. 91f:68095
- Park, Kunsoo *see* Galil, Zvi, (Not in MR)
- Paull, Marvin C. *see* Berman, A. Michael; et al., 91k:68080
- Peng, Shietang *see* Adhar, Gur Saran, 91g:68068
- Peng, Yun Approximation algorithms for some postman problems over mixed graphs. (Chinese) (Not in MR)
- Pitt, Leonard (with Valiant, Leslie G.) Computational limitations on learning from examples. 91f:68096
- Popkov, V. K. *see* Nechipurenko, M. I.; et al., 91j:68056
- Postiglione, Alberto *see* Gambosi, Giorgio; et al., 91j:68051
- Preparata, Franco P. *see* Bilardi, Gianfranco, 91g:68075 and 91h:68076
- Prodinger, Helmut Further results on a problem of Knödel concerning the analysis of bin-packing. 91j:68057
- Pruhs, Kirk (with Manber, Udi) The complexity of controlled selection. 91a:68135
- Padlak, Pavel *see* Duric, Pavel, 91h:68047
- Pugh, William Probabilistic analysis of set operations with constant-time set equality test. (see 91m:68002)
- Rade, Prabhakar The parallel simplicity of compaction and chaining. (see 91c:68004)
- *see also* Luby, Michael, 91c:68074
- Rajasekaran, Sanguthevar (with Reif, John Henry) Optimal and sublogarithmic time randomized parallel sorting algorithms. 91a:68136

- Ramachandran, Vijaya. *see* Lueker, George S.; et al., 91k:68090
- Ramanna, Prakash (with Tsuga, Kazuhiro) Average-case analysis of the modified harmonic algorithm. 91a:68137
- Randrianarimanana, B. *see* Françon, J.; et al., 91m:68080
- Rauch, M. *see* Mehlhorn, Kurt; et al., 91f:68093
- Ravi, S. S. On the orderability problem for PLA folding. 91c:68056
- Reif, John Henry *see* Rajasekaran, Sanguthevar, 91a:68136
- Reingold, Edward M. (with Shen, Xiao Jun) More nearly optimal algorithms for unbounded searching. I. The finite case. 91m:68091a
- (with Shen, Xiao Jun) More nearly optimal algorithms for unbounded searching. II. The transfinite case. 91m:68091b
- *see also* Li, Zhiyuan, 91m:68086
- Rhee, WanSoo T. (with Talgrand, Michel) The complete convergence of best fit decreasing. 91a:68138
- (with Talgrand, Michel) The complete convergence of first fit decreasing. 91a:68139
- Rimney Kan, Alexander H. G. (with Stougie, L.) Probabilistic analysis of algorithms. 91c:68057
- Robert, Philippe *see* Coffman, E. G., Jr.; et al., 91f:68082
- Rockmers, Daniel Fast Fourier analysis for abelian group extensions. 91k:68091
- Rollin, José D. P. On the polynomial IO-complexity. 91k:68092
- Römpel, John *see* Berger, Bonnie, 91g:68074
- Rosenberg, Arnold L. *see* Annexstein, Fred; et al., 91g:68070 and Bhatt, Sandeep N.; et al., 91g:68047
- Rubinfeld, Ronitt The cover time of a regular expander is $O(n \log n)$. 91k:68072
- Ryder, Barbara G. *see* Berman, A. Michael; et al., 91k:68080
- Rytter, Wojciech *see* Gibbons, Alan, 91k:68062
- Sakkalis, Takis The Euclidean algorithm and the degree of the Gauss map. 91m:68092
- Salowe, Jeffrey S. *see* Cole, Richard; et al., 91a:68124
- Sarnath, R. (with He, Xin) A P-complete graph partition problem. 91k:68093
- Sasaki, Golen The effect of the density of states on the Metropolis algorithm. 91m:68093
- Satyanarayana, Appajosyula *see* Suter, Klaus; et al., 91f:68073
- Schieber, Baruch *see* Mansour, Yishay; et al., 91f:68076 and 91m:68087
- Schmüder, Manfred (with Starke, Christoph) A correction network for N -sorters. 91k:68049
- Schmitges, Stefan *see* Kleinsch, Hans; et al., 91f:68065
- Schnorr, C.-P. *see* Micale, Silvio, 91d:68051
- Schott, René *see* Françon, J.; et al., 91m:68080 and Louchard, Guy, (91e:68005)
- Schuler, Rainer *see* Mundhenk, Martin, (91k:68066)
- Sen, Rajan Kumar (with Chaudhuri, Pranay) A parallel approximate algorithm for minimum edge deletion bipartite subgraph problem. 91g:68083
- An approximate algorithm for minimum edge deletion bipartite subgraph problem. 91k:68081
- Serna, María Approximating linear programming is log-space complete for P. 91m:68094
- Setiono, R. *see* Mangasarian, O. L.; et al., (91h:00029)
- Shakhovich, N. V. *see* Setakov, Yu. N., 91k:68096
- Shen, Xiao Jun *see* Reingold, Edward M., 91m:68091a and 91m:68091b
- Sherman, Alan T. *see* Levine, Robert Y., 91f:68053
- Sherstnyak, A. V. *see* Gerasim, D. S., 91g:68052
- Shih, Wei Kuan (with Liu, Jane W. S.; Chung, Jen-Yao) Algorithms for scheduling imprecise computations with timing constraints. 91k:68094
- Shor, Peter W. *see* Berman, Fran; et al., 91f:68053 and Coffman, E. G., Jr., 91m:68076
- Shyu, Chih Hsueh A parallel algorithm for finding a maximum weight clique of an interval graph. 91a:68140
- Simon, Hans-Ulrich On approximate solutions for combinatorial optimization problems. 91c:68058
- Simon, Klaus Finding a minimal transitive reduction in a strongly connected digraph within linear time. (see 91k:68096)
- Sin, C. C. S. (with Cheng, T. C. E.) On the NP-completeness of the n/m parallel $\sum_{i \in m} (\sum_j w_j \sum_t t_j)$ scheduling problem. 91a:68141
- Sinclair, Alastair (with Jerrum, Mark) Approximate counting, uniform generation and rapidly mixing Markov chains. 91g:68084
- *see also* Jerrum, Mark, 91h:68077
- Slater, Peter J. *see* Grinstead, Dana L., 91k:68083
- Slutzki, Gloria *see* Fernandez-Baca, David, 91a:68126
- Smith, Carol Joan *see* Manaster, Glenn K.; et al., (Not in MR)
- Snyder, Larry E. *see* Berman, Fran; et al., 91f:68053
- Sorek, Danny Optimal parallel construction of prescribed tournaments. 91k:68095
- Sotnikov, E. A. Computational complexity of problems of optimal redistribution of indivisible resources. 91g:68058
- Setakov, Yu. N. (with Shakhovich, N. V.) NP-hardness of problems of optimal service of three customers. (Russian. English summary) 91k:68096
- Soumyanath, K. (with Deogun, Jitender S.) On the bisection width of partial k -trees. 91k:68082
- Specknmeyer, Ewald Is average superlinear speedup possible? 91a:68142
- (with Kemp, Rainer) On the average time complexity of set partitioning. (see 91g:68066)
- On feedback problems in digraphs. (see 91k:68066)
- Spencer, Thomas H. *see* Goldberg, Mark, 91k:68048
- Srinivasa Rao, Arakati (with Pandu Rangan, C.) Linear algorithm for optimal path cover problem on interval graphs. 91g:68085
- Starke, Christoph *see* Schmüder, Manfred, 91h:68049
- Steiger, W. L. *see* Cole, Richard; et al., 91a:68124
- Stetsenko, V. A. One more method for proving lower bounds on the formula complexity of Boolean functions. 91c:68059
- Stinson, Douglas R. Some observations on parallel algorithms for fast exponentiation in $GF(2^n)$. 91k:68097
- Stoss, Hans-Jörg On the representation of rational functions of bounded complexity. 91k:68050
- Lower bounds for the complexity of polynomials. 91k:68051
- Stougie, L. *see* Rimney Kan, Alexander H. G., 91c:68057
- Sudborough, Ivan Hal *see* Madhavadepdy, Seshu, (91h:68066)
- Suffel, C. *see* Suter, Klaus; et al., 91f:68073
- Sugihara, Kōichi On finite-precision representations of geometric objects. 91c:68060
- Sapowit, Kenneth J. *see* Gabor, Csaba P.; et al., 91e:68069
- Suri, Subhash *see* Marcotte, Odile, 91m:68088
- Suter, Klaus (with Satyanarayana, Appajosyula; Suffel, C.) The complexity of the residual node connectedness reliability problem. 91f:68073
- Szemerédi, Endre *see* Cole, Richard; et al., 91a:68124 and Hajnal, Péter, 91c:68050
- Szpankowski, Wojciech *see* Jacquet, Philippe, 91f:68089
- Talagrand, Michel *see* Rhee, WanSoo T., 91a:68138 and 91a:68139
- Talamo, Maurizio *see* Gambosi, Giorgio; et al., 91j:68051
- Tarasova, L. G. *see* Gritsak, V. V., (Not in MR)
- Tarjan, Robert Endre *see* Ahuja, Ravindra K.; et al., 91d:68046; Goldberg, Andrew V., 91f:68085 and Cai, Jianzhong; et al., (91e:68005)
- Teng, Shang-Hua Space efficient processor identity protocol. (Not in MR)
- Teo, Kim-Heng (with Tuan, Tai-Ching) Performance analysis of greedy heuristic to find a minimum total-jogs layout for river routing. (Not in MR)
- Thimomier, Loys *see* Flajolet, Philippe; et al., 91a:68127
- Thomassen, Carsten The graph genus problem is NP-complete. 91d:68054
- Thurimella, Ramakrishna *see* Fussell, Donald, 91f:68060
- Tiwari, Prasoos *see* Mansour, Yishay; et al., 91f:68076 and 91m:68087
- Traub, Joseph F. (with Woźniakowski, H.) Information-based complexity: new questions for mathematicians. (Not in MR)
- Tsang, S. S. The average performance of a parallel stable marriage algorithm. 91a:68143
- Tsuga, Kazuhiro *see* Ramanna, Prakash, 91a:68137
- Tuan, Tai-Ching (with Hakimi, S. Louis) River routing with a small number of jogs. 91f:68086
- *see also* Teo, Kim-Heng, (Not in MR)
- Turán, György *see* Faigle, Ulrich, 91g:68080
- Tuza, Zolt *see* Manoussakis, Yannis, 91h:68060
- Ukkonen, Esko *see* Mannila, Heikki, 91j:68055
- Ushakov, I. B. *see* Vefitskii, I. V., 91k:68083
- Valiant, Leslie G. *see* Ehrenfeucht, Andrzej; et al., 91h:68048 and Pitt, Leonard, 91f:68096
- Vasil'ev, V. A. Topological complexity of algorithms for the approximate solution of systems of polynomial equations. 91c:68061
- Vavasis, Stephen A. Quadratic programming is in NP. 91m:68095
- Vazirani, Umesh V. (with Vazirani, Vijay V.) The two-processor scheduling problem is in random NC. 91c:68062
- Vazirani, Vijay V. *see* Vazirani, Umesh V., 91c:68062
- Vefitskii, I. V. (with Ushakov, I. B.) ★ Классификация P -схем на основе автоматической интерпретации и эквивалентные преобразования P -схем. (Russian) [Classification of P -schemes on the basis of automatic interpretation, and equivalent transformations of P -schemes] 91h:68083
- Venkatesan, Shankar M. *see* Haglin, David J., (Not in MR)
- Vorontsov, N. B. (with Garbuzov, B. Yu.) Maximal realizability of CNF of finite predicates. An approximate solution of predicate equations. (Russian) 91d:68055
- Vyskoč, Jozef Descriptive complexity and cryptography. (see 91h:68004)
- Corrigendum: "An $O(n^{k/2} \cdot 2^{n/2})$ time and $O(k \cdot 2^{n/k})$ space algorithm for certain NP-complete problems" [Theoret. Comput. Sci. 51 (1987), no. 1-2, 221-227; MR 88k:68040]. 91a:68144
- Wagner, Klaus W. *see* Lengauer, Thomas, 91k:68089
- Wakabayashi, Shin'ichi *see* Izmoto, Hiroshi; et al., (Not in MR)
- Wang, Qingzhou (with Cheng, Kam-Hoi) A heuristic algorithm for the k -center problem with vertex weight. (see 91g:68002)
- Warmuth, Manfred K. *see* Anderson, Richard John; et al., 91c:68045 and (91f:90006)
- Watanabe, Toshimasa (with Higashi, Yasuhiko; Nakamura, Akira) Graph augmentation problems for a specified set of vertices. (see 91g:68002)
- Wiedemann, Jiri Complexity issues in discrete neurocomputing. 91m:68096
- Wigderson, Avi *see* Aggarwal, Alek; et al., 91m:68071 and Helman, Rafi; et al., (91k:68066)
- Wilber, Robert *see* Hellerstein, Lisa; et al., 91f:68063
- Winograd, Shmuel *see* Coppersmith, Don, 91f:68058
- Wolberg, W. H. *see* Mangasarian, O. L.; et al., (91h:00029)
- Woźniakowski, H. *see* Traub, Joseph F., (Not in MR)
- Yannakakis, Mihalis *see* Papadimitriou, Christos H., 91f:68095 and 91f:68071
- Yanov, Yu. I. Lower bounds on computation time. (Russian) 91g:68087
- Yen, Chai-Chia (with Lee, R. C. T.) The weighted perfect domination problem. 91h:68084
- Yehya, Yacov *see* He, Xia, 91a:68129
- Yoshida, Noriyoshi *see* Izmoto, Hiroshi; et al., (Not in MR)
- Zeugmann, Thomas Improved parallel computations in the ring \mathbb{Z}/p^n . (German and Russian summaries) 91a:68145
- Computing large polynomial powers very fast in parallel. 91m:68097
- Zhang, S. *see* Cairik, J.; et al., 91k:68082
- Zubair, M. An optimal speedup algorithm for the measure problem. 91a:68146
- Zwick, Uri An extension of Khrapchenko's theorem. 91m:68098

Items with secondary classifications in 68Q25

- Abelaziz, Mokhtar A. (with Wah, Benjamin W.) Complexities of layouts in three-dimensional VLSI circuits. 91f:68074
- (Abu-Mostafa, Yaser S.) *see* Complexity in information theory, 91g:68088
- Aggarwal, Alek (with Booth, Heather; O'Rourke, Joseph; Suri, Subhash; Yap, Chee-Keng) Finding minimal convex nested polygons. 91a:68258
- (with Anderson, Richard John; Kao, Ming-Yang) Parallel depth-first search in general directed graphs. 91f:68077
- Agarwal, Rakesh (with Dar, Shaul; Jagadish, H. V.) Direct transitive closure algorithms: design and performance evaluation. 91h:68029
- Ajtai, Miklós (with Karabeg, D.; Komlós, János; Szemerédi, Endre) Sorting in average time $o(\log n)$. 91a:68038
- Akl, Selim G. (with Gries, David; Stojmenović, Ivan) An optimal parallel algorithm for generating combinations. 91f:68077
- *see also* Orlowski, Constantine N. K., 91c:68042

- Alon, Noga (with Seymour, Paul D.; Thomas, Robin) A separator theorem for nonplanar graphs. 91h:05076
- (with Karchmer, Mauricio; Wigderson, Avi) Linear circuits over GF(2). 91f:05024
- Alt, Helmut (with Blum, N.; Mehlhorn, Kurt; Paul, Manfred) Computing a maximum cardinality matching in a bipartite graph in time $O(n^{1.5} \sqrt{m} / \log n)$. 91m:68141
- Amir, Amihood (with Beigel, Richard; Gasarch, William I.) Some connections between bounded query classes and nonuniform complexity. (see 91k:68006)
- Anderson, A. P. see Steier, D. M., 91a:68027
- Anderson, Richard John (with Miller, Gary L.) A simple randomized parallel algorithm for list-ranking. (Not in MR)
- see also Aggarwal, Alok; et al., 91f:68027
- Andersson, Arne (with Lai, Tony W.) Fast updating of well-balanced trees. (see 91e:68016)
- (with Carlsson, Svante) Construction of a tree from its traversals in optimal time and space. 91c:68008
- Anily, S. (with Federgruen, Avi) A class of Euclidean routing problems with general route cost functions. 91b:90073
- Archdeacon, Dan The complexity of the graph embedding problem. 91m:68142
- Aspnes, James (with Herlihy, Maurice) Fast randomized consensus using shared memory. 91g:68010
- Atallah, Mikhail J. A faster parallel algorithm for a matrix searching problem. (see 91e:68016)
- Ausiello, Giorgio (with Italiano, Giuseppe F.) On-line algorithms for polynomially solvable satisfiability problems. 91f:03028
- Azar, Yossi (with Pippenger, Nicholas) Parallel selection. 91m:68022
- Babel, L. (with Tinhofer, G.) A branch and bound algorithm for the maximum clique problem. (German summary) 91g:05120
- Bach, Eric Number-theoretic algorithms. 91j:11112
- (with Shoup, Victor) Factoring polynomials using fewer random bits. 91h:11149
- Baeza-Yates, Ricardo A. (with Gonnet, Gaston H.) Average case analysis of algorithms using matrix recurrences. (see 91m:68002)
- Searching subsequences. 91k:68028
- see also Manber, Uri, 91m:68025
- Bajaj, Chandrjit L. see Johnstone, John K., 91i:68149
- Balcázar, José Luis see Lozano, Antonio, 91e:68059
- Baranov, G. G. (with Zakharov, V. M.; Kuznetsov, E. G.) Rational approximation of stochastic indecomposable matrices. (Russian) 91k:15041
- Barakot, K. see Minoux, M., 91m:68140
- Barrington, David A. Mix Bounded-width polynomial-size branching programs recognize exactly those languages in NC¹. 91f:68059
- Bartholdi, John J., III see Platzman, Loren K., 91k:90124
- Baserni, Frank A parallel dictionary with good amortized behavior. (German and Russian summaries) 91a:68032
- Beigel, Richard (with Gasarch, William I.) On the complexity of finding the chromatic number of a recursive graph. I. The bounded case. 91h:03076
- (with Gasarch, William I.) On the complexity of finding the chromatic number of a recursive graph. II. The unbounded case. 91f:03093
- see also Amir, Amihood; et al., (91k:68006)
- Ben-Porath, Elchanan The complexity of computing a best response automaton in repeated games with mixed strategies. 91b:90222
- de Berg, Mark T. see van Kreveld, Marc J., 91f:68204 and Overmars, Mark H.; et al., 91g:68029
- Bienstock, Daniel (with Marcotte, Odile) On a network design problem that is intractable on trees. 91e:90123
- Biró, Miklós Characterization of the binary decompositions of bounded integer variables. (Hungarian. English summary) 91k:90119
- Blum, N. see Alt, Helmut; et al., 91m:68141
- Bodlaender, Hans L. The complexity of finding uniform emulations on paths and ring networks. 91i:68115
- Polynomial algorithms for graph isomorphism and chromatic index on partial k -trees. 91k:68160
- Some lower bound results for decentralized extrema-finding in rings of processors. 91m:68046
- Boissonnat, Jean-Daniel (with Devillers, Olivier; Schott, René; Teillaud, Monique; Yvinec, Mariette) On-line geometric algorithms with good expected behaviours (extended abstract). (see 91k:68005)
- (with Devillers, Olivier; Teillaud, Monique) An on-line construction of higher order Voronoi diagrams and its randomized analysis. (see 91k:68005)
- Bollabas, Béla (with Broder, Andrei Z.; Simon, Istvan) The cost distribution of clustering in random probing. 91f:68017
- Booth, Heather see Aggarwal, Alok; et al., 91a:68258
- Boyer, Joan F. Inferring results produced by pseudo-random number generators. 91g:68035
- Bradford, Phillip G. The Fibonacci sequence and the time complexity of generating the Conway polynomial and related topological invariants. 91e:57008
- Broder, Andrei Z. see Bollabas, Béla; et al., 91f:68017
- Brucker, Peter (with Burkard, Rainer E.; Hurink, Johann) Cyclic schedules for r irregularly occurring events. 91e:90049
- Bryant, Randal E. On the complexity of VLSI implementations and graph representations of Boolean functions with application to integer multiplication. (Not in MR)
- Buhouty, Nader H. see Kaminski, Michael, 91g:11159
- Bugara, Khaled M. (with Pan, Youfang; Purdom, Paul Walton, Jr.) Exponential average time for the pure literal rule. 91f:68022
- Burkard, Rainer E. see Brucker, Peter; et al., 91e:90049
- Camerini, P. M. (with Galbati, Giulia; Maffioli, F.) Combinatorial optimization through algorithms for exact problems and scaling. 91j:68098
- Caulfield, E. R. (with Williamson, S. Gill) The two basic linear time planarity algorithms: are they the same? 91d:05042
- Carlsson, Svante see Andersson, Arne, 91c:68008
- Čapek, O. see Tege, M., 91a:90094
- Chalmovich, Mark Subset-sum problems with different summands: computation. 91h:11150
- Chandra, Ashok K. (with Tompa, Martin) The complexity of short two-person games. 91j:68042
- Chang, Chen Hua see La, Tung Lin; et al., 91f:05107
- Chang, Ruei Chuan see Chen, Chiu Yuan, 91j:68126
- Chang, Shing-Chong see Ja'Ja', Joseph, 91m:68099
- Chandhuri, Pranay Finding and updating depth-first spanning trees of acyclic digraphs in parallel. 91g:68131
- Chazelle, Bernard Lower bounds for orthogonal range searching. II. The arithmetic model. 91h:68163
- Chen, Calvin Ching-Yuen (with Das, Sajal K.) Parallel breadth-first and breadth-depth traversals of general trees. (see 91m:68002)
- Chen, Chiu Yuan (with Chang, Ruei Chuan) On the minimality of polygon triangulation. 91j:68126
- Chen, Lin² Efficient deterministic parallel algorithms for integer sorting. (see 91m:68002)
- Chen, Wen Tsuen see Yang, Ch'ang Piao; et al., (Not in MR)
- Cheng, Siu Wing (with Janardan, Ravi) Efficient dynamic algorithms for some geometric intersection problems. 91h:68164
- Cheng, T. C. E. On the NP-completeness of a single-processor sequencing problem to minimize flowtime and missed due-dates. (Not in MR)
- Childs, Bart see McGuire, Tim, (Not in MR)
- Chin, Francis Y. L. (with Ting, H. F.) Improving the time complexity of message-optimal distributed algorithms for minimum-weight spanning trees. 91g:68014
- see also Leung, Joseph Y.-T.; et al., 91h:68142
- Chou, Ching-Tsun (with Gopal, Inder S.) Linear broadcast routing. 91h:68017
- Chrobak, Marek (with Nishizeki, Takao) Improved edge-coloring algorithms for planar graphs. 91c:05077
- Chvátal, Václav (with Szemerédi, Endre) Many hard examples for resolution. 91f:68182
- Clarkson, Kenneth L. (with Tarjan, Robert Endre; Van Wyk, Christopher J.) A fast Las Vegas algorithm for triangulating a simple polygon. 91d:68123
- (with Shor, Peter W.) Applications of random sampling in computational geometry. II. 91e:68141
- (with Edelsbrunner, Herbert; Guibas, Leonidas J.; Sharir, Micha; Weisz, Emo) Combinatorial complexity bounds for arrangements of curves and spheres. 91f:52021
- Clote, Peter G. (with Kranakis, Evangelos) Boolean functions, invariance groups, and parallel complexity. 91m:68056
- Colbourn, Charles J. see Nel, Louis Daniel², 91h:90097
- Cook, Stephen (with Pittasi, Toniann) A feasibly constructive lower bound for resolution proofs. 91j:68110
- Coppersmith, Don (with Raghavan, Prabhakar; Tompa, Martin) Parallel graph algorithms that are efficient on average. 91b:68044
- Cormen, Thomas H. (with Leiserson, Charles E.; Rivest, Ronald L.) ★ Introduction to algorithms. 91i:68001
- Cornell, Derek G. see Everett, H. J., 91d:68125
- Crescenzi, Pierluigi (with Panconesi, Alessandro) Completeness in approximation classes. 91b:68034
- Cunningham, William H. Computing the binding number of a graph. 91m:05175
- Cunto, Walter (with Munro, J. Ian) Average case selection. 91f:68024
- Cutello, Vincenzo (with Policriti, Alberto) On the complexity of the satisfiability problem for an unquantified theory involving basic notions of real plane topology. 91m:68057
- Cybenko, G. Complexity theory of neural networks and classification problems. (see 91e:68011)
- Dadoun, N. (with Kirkpatrick, David G.) Parallel construction of subdivision hierarchies. 91f:68143
- Dar, Shael see Agrawal, Rakesh; et al., 91h:68029
- Das, Sajal K. (with Deo, Narsingh) Notes on: "Divide-and-conquer-based optimal parallel algorithms for some graph problems on EREW PRAM model" [IEEE Trans. Circuits and Systems 35 (1988), no. 3, 312–322; MR 89d:68017]. 91g:68041
- see also Chen, Calvin Ching-Yuen, (91m:68002)
- Davis, Henry W. Cost-error relationships in A^* tree-searching. 91f:68187
- De Agostino, Sergio (with Petreschi, Rossella) Parallel recognition algorithms for graphs with restricted neighbourhoods. 91h:68030
- Deo, Narsingh see Das, Sajal K., 91g:68041
- De Simone, Caterina (with Lucertini, Mario; Pallottino, Stefano; Simeone, Bruno) Fair dissections of spiders, worms, and caterpillars. 91c:05169
- Devillers, Olivier Simultaneous containment of several polygons: analysis of the contact configurations. (see 91k:68005)
- see also Boissonnat, Jean-Daniel; et al., (91k:68005) and (91k:68005)
- Devroye, Luc (with Laforest, Louise) An analysis of random d -dimensional quad trees. 91f:68018
- Dhall, S. K. see Liang, Y.; et al., 91m:68145
- Dietz, Paul F. (with Zhang, Ju) Lower bounds for monotonic list labeling. (see 91e:68016)
- Dietzfelbinger, Martin Lower bounds for sorting of sums. 91d:68008
- Dillencourt, Michael B. Toughness and Delaunay triangulations. 91j:05068
- Dehkin, David P. (with Friedman, Steven J.; Supowit, Kenneth J.) Delaunay graphs are almost as good as complete graphs. 91e:52025
- Donald, Bruce R. The complexity of planar compliant motion planning under uncertainty. 91g:68161
- Du, Jianzhong (with Leung, Joseph Y.-T.) Minimizing total tardiness on one machine is NP-hard. 91h:90048
- Dubish, Pratal Some comments on: "On the subtree isomorphism problem for ordered trees" [Inform. Process. Lett. 32 (1989), no. 5, 271–273; MR 90k:68139] by E. Mäkinen. 91m:68143
- Dunne, Paul E. Comment on M. Kochol's paper: "Efficient monotone circuits for threshold functions" [Inform. Process. Lett. 32 (1989), no. 3, 121–122; MR 90h:68061]. 91f:68025
- Dyer, Martin E. (with Frieze, A. M.; Kannan, Ravindran) A random polynomial-time algorithm for approximating the volume of convex bodies. 91m:68162
- Edelsbrunner, Herbert (with Guibas, Leonidas J.; Hershberger, John; Pach, János; Pollack, Richard M.; Seidel, Raimund; Sharir, Micha; Snoeyink, Jack) On arrangements of Jordan arcs with three intersections per pair. 91a:68265

- (with Guibas, Leonidas J.; Sharir, Micha) The complexity and construction of many faces in arrangements of lines and of segments. **91f:68201**
- (with Guibas, Leonidas J.; Sharir, Micha) The complexity of many cells in arrangements of planes and related problems. **91h:68165**
- see also Clarkson, Kenneth L.; et al. **91f:52021**
- Elia, M. (with Neri, Fabio) A note on addition chains and some related conjectures. **91h:11022**
- van Emde Boas, Peter see Smid, Michiel H. M.; et al. **91d:68005**
- Emelyanov, N. R. Complexity of the solution of the problem of α -expressibility in k -valued logic. (Russian) **91h:03036**
- Everett, H. J. (with Corneli, Derek G.) Recognizing visibility graphs of spiral polygons. **91d:68125**
- Fagin, Ronald (with Halpern, Joseph Y.; Megiddo, Nimrod) A logic for reasoning about probabilities. **91f:03038**
- Federgruen, Avi see Anly, S. **91h:90073**
- Fellows, Michael R. Transversals of vertex partitions in graphs. **91h:05099**
- Fischer, Thomas R. M. Lower bound proofs via Voronoi diagrams. (German and Russian summaries) **91g:68162**
- Fitchas, Noël (with Galligo, André; Morgenstern, Jacques) Precise sequential and parallel complexity bounds for quantifier elimination over algebraically closed fields. **91j:03010**
- Fjällström, Per-Olof (with Katajainen, Jyrki; Levopoulos, Christos; Petersson, Ola) A sublogarithmic convex hull algorithm. **91e:68144**
- Flagg, R. C. see Friedman, Harvey M. **91f:03111**
- Flajolet, Philippe (with Sipala, Paolo; Steyaert, Jean-Marc) Analytic variations on the common subexpression problem. (see **91e:68004**)
- Fomin, S. V. A duality theorem for partially ordered sets: algorithms. (Russian) **91m:06004**
- Fraigniaud, Pierre (with Miquet, Serge; Robert, Yves) Scattering on a ring of processors. (Not in MR)
- Frederickson, Greg N. (with Janardan, Ravi) Efficient message routing in planar networks. **91e:68019a**
- (with Janardan, Ravi) Space-efficient message routing in c -decomposable networks. **91e:68019b**
- Friedman, Harvey M. (with Flagg, R. C.) A framework for measuring the complexity of mathematical concepts. **91f:03111**
- Friedman, Joel On the convergence of Newton's method. **91a:30005**
- Friedman, Steven J. see Dobkin, David P.; et al. **91e:52025**
- Friesen, Donald K. (with Langston, Michael A.) Analysis of a compound bin packing algorithm. **91k:68070**
- Frieze, A. M. see Dyer, Martin E.; et al. **91m:68162**
- Franklin, M. A. * Систолические вычисления. (Russian) [Systolic computations] **91h:68003**
- Füßig, Zoltán (with Vágvolgyi, Sándor) The emptiness problem is undecidable for domains of partial monadic 2-modular tree transformations. **91k:03098**
- Gabow, Harold N. (with Galil, Zvi; Spencer, Thomas H.) Efficient implementation of graph algorithms using contraction. **91f:68013**
- (with Tarjan, Robert Endre) Faster scaling algorithms for network problems. **91d:68042**
- Galliani, Giulia On the asymptotic probabilistic analysis of scheduling problems in the presence of precedence constraints. **91f:90060**
- see also Camerini, P. M.; et al. **91j:68098**
- Galil, Zvi (with Kannan, Ravindran; Szemerédi, Endre) On 3-pushdown graphs with large separators. **91c:05101**
- see also Gabow, Harold N.; et al. **91f:68013**
- Galligo, André see Fitchas, Noël; et al. **91j:03010**
- Gambosi, Giorgio (with Italiano, Giuseppe F.; Talamo, Maurizio) Worst-case analysis of the set-union problem with extended backtracking. **91a:68112**
- Ganarch, William I. see Beigel, Richard, **91b:03076**; **91f:03093** and Amir, Amir; et al. **(91k:68006)**
- van zur Gathen, Joachim Algebraic complexity theory. **91a:68150**
- Inversion in finite fields using logarithmic depth. **91g:68009**
- see also Ma, Keju, **91j:11113**
- Georgakopoulos, George (with Kavadias, Dimitris) The banker's problem with precedences. **91a:68031**
- Gilmore, Robert see Hou, Xin-Jun; et al. (Not in MR)
- Goldfarb, Donald (with Hao, Jianxiu) A primal simplex algorithm that solves the maximum flow problem in at most nm pivots and $O(n^2m)$ time. **91k:90209**
- Goldman, Sally A. A space efficient greedy triangulation algorithm. **91a:68266**
- Goldreich, Oded (with Krawczyk, Hugo) Sparse pseudorandom distributions (extended abstract). **91g:94015**
- Gonnet, Gaston H. see Baeza-Yates, Ricardo A. **(91m:68002)**
- Goodrich, Michael T. Triangulating a polygon in parallel. **91f:68202**
- Gopal, Inder S. see Chou, Ching-Tsun, **91h:68017**
- Gordeev, E. N. Stability of a solution in a problem on the shortest path on a graph. (Russian) **91f:05060**
- Gries, David (with Martin, Alain J.; van de Snepscheut, Jan L. A.; Udding, Jan Tijmen) An algorithm for transitive reduction of an acyclic graph. **91a:68113**
- see also Akl, Selim G.; et al. **91f:68077**
- Grigoriev, D. Yu. Complexity of computing the characters and the genre of a system of exterior differential equations. **91f:58007**
- The complexity of computations in commutative algebra. **91h:68042**
- The complexity of computing the genus of a system of exterior differential equations. **91e:14051**
- Gu, Qian Ping (with Takaoka, Tadao) A sharper analysis of a parallel algorithm for the all pairs shortest path problem. **91f:90210**
- Guibas, Leonidas J. see Edelsbrunner, Herbert; et al. **91a:68265**; Clarkson, Kenneth L.; et al. **91f:52021**; Edelsbrunner, Herbert; et al. **91f:68201** and **91h:68165**
- Gurwitz, Chaya Weighted median algorithms for L_1 approximation. **91d:65030**
- Gusfield, Dan (with Irving, Robert W.) * The stable marriage problem: structure and algorithms. **91e:68062**
- Haidar, Chandan (with Patnaik, L. M.) Oracle complexities for computational geometry of semi-algebraic sets and Voronoi diagrams. (Not in MR)
- Halpern, Joseph Y. see Fagin, Ronald; et al. **91f:03038**
- Han, Yijie (with Igarashi, Yoshihide) Time lower bounds for sorting on multi-dimensional mesh-connected processor arrays. **91g:68027**
- Hao, Jianxiu see Goldfarb, Donald, **91k:90209**
- Harn, Lein (with Kiesler, Thomas) An efficient probabilistic encryption scheme. **91h:94025**
- Hassin, Refael (with Megiddo, Nimrod) Approximation algorithms for hitting objects with straight lines. **91k:90224**
- Håstad, Johan Tensor rank is NP-complete. **91a:68093**
- Heinz, Alois P. Finding two-tree-factor elements of tableau-defined monoids in time $O(n^3)$. (see **91m:68002**)
- Hellerstein, Lisa (with Karpiński, Marek) Learning read-once formulas using membership queries. (see **91e:68014**)
- Hemig, Mordechai I. (with Simchi-Levi, David) Scheduling tasks with failure probabilities to minimize expected cost. **91g:90081**
- Herlihy, Maurice see Aspnes, James, **91g:68010**
- Hershberger, John see Edelsbrunner, Herbert; et al. **91a:68265**
- Hirsch, Michael D. (with Papadimitriou, Christos H.; Vavasis, Stephen A.) Exponential lower bounds for finding Brouwer fixed points. **91c:90021**
- Ho, Ching-Tien (with Johnson, S. Lennart) Optimizing tridiagonal solvers for alternating direction methods on Boolean cube multiprocessors. **91a:65070**
- Ho, Pei Hsin see Lu, Tung Lin; et al. **91f:05107**
- Hoover, H. James Feasible real functions and arithmetic circuits. **91g:68038**
- Horváth, Ákos G. On a polynomial algorithm for selecting a lattice-basis containing a given primitive system. **91f:11047**
- Hou, Xin-Jun (with Gilmore, Robert; Mindlin, Gabriel B.; Solari, Hernán G.) An efficient algorithm for fast $O(N \cdot \ln(N))$ box counting. (Not in MR)
- Hromkovič, Juraj Branching programs versus oblivious branching programs. (Russian summary) **91m:68050**
- Huang, Jan Hsiung (with Kleinrock, Leonard) Optimal parallel merging and sorting algorithms using \sqrt{N} processors without memory contention. (Not in MR)
- Hurink, Johann see Brucker, Peter; et al. **91e:90049**
- Ibaraki, Yoshihide see Nagamochi, Hiroshi, **91j:68102**
- Igarashi, Yoshihide see Han, Yijie, **91g:68027**
- Iliopoulos, Costas S. Worst-case complexity bounds on algorithms for computing the canonical structure of finite abelian groups and the Hermite and Smith normal forms of an integer matrix. **91a:20065**
- Worst-case complexity bounds on algorithms for computing the canonical structure of infinite abelian groups and solving systems of linear Diophantine equations. **91a:20066**
- Imai, Hiroshi see Rappaport, David; et al. **91f:68207**
- Irving, Robert W. see Gusfield, Dan, **91e:68062**
- Italiano, Giuseppe F. see Gambosi, Giorgio; et al. **91a:68112** and Ausiello, Giorgio, **91i:03028**
- Jacobs, D. Pokrass Probabilistic checking of associativity in algebras. **91m:68102**
- Jager, François (with Vertigan, D. L.; Welsh, D. J. A.) On the computational complexity of the Jones and Tutte polynomials. **91h:05038**
- Jagadeish, H. V. see Agrawal, Rakesh; et al. **91h:68029**
- Ja'Ja', Joseph (with Chang, Shing-Chong) Parallel algorithms for channel routing in the knock-knee model. **91m:68099**
- Janardan, Ravi see Frederickson, Greg N., **91e:68019a**; **91e:68019b** and Cheng, Sin Wing, **91h:68164**
- (Jen, Erica) see Lectures in complex systems, **91m:00034**
- Johnsson, S. Lennart see Ho, Ching-Tien, **91a:65070**
- Johnstone, John K. (with Bajaj, Chanderjit L.) Sorting points along an algebraic curve. **91f:68149**
- Jukna, Stasys P. Functional approximations in the theory of lower bounds for circuit complexity. (Russian) **91k:94046**
- Kaminski, Michael (with Bshouty, Nader H.) Multiplicative complexity of polynomial multiplication over finite fields. **91g:11159**
- Kannan, Ravindran The Frobenius problem. **91e:68063**
- see also Galil, Zvi; et al. **91c:05101** and Dyer, Martin E.; et al. **91m:68162**
- Kao, Ming-Yang see Aggarwal, Alok; et al. **91f:68027**
- Kapoor, Sanjiv (with Raman, Prakash) Lower bounds for maximal and convex layers problems. **91c:68118**
- Kapur, Deepak (with Narendran, Paliath; Otto, Friedrich) On ground-confluence of term rewriting systems. **91h:68099**
- Karabeg, D. see Ajtai, Miklós; et al. **91a:68038**
- Karchmer, Mauricio see Alon, Noga; et al. **91f:05024**
- Karlin, Anna R. (with Upfal, Eli) Parallel hashing: an efficient implementation of shared memory. (Not in MR)
- Karp, Richard M. The transitive closure of a random digraph. **91j:05093**
- Karpiński, Marek Boolean circuit complexity of algebraic interpolation problems. **91d:11162**
- see also Hellerstein, Lisa, **(91e:68014)**
- Kashiwagi, Kenichi see Nishizeki, Takao, **91f:05055**
- Kasim-Zade, O. M. Complexity of realization of Boolean functions in a model of electronic circuits. (Russian) **91d:94026**
- Katajainen, Jyrki see Fjällström, Per-Olof; et al. **91e:68144**
- Kavadias, Dimitris see Georgakopoulos, George, **91a:68031**
- Keerthi, S. S. (with Sridharan, K.) Solution of parametric linear inequalities by Fourier elimination and its applications. **91f:15041**
- Kelly, Jerry S. see Prasad, Kislaya, **91m:90042**
- Kenyon, Claire The average complexity of an axial view of a parallelepipedic scene. (see **91k:68005**)
- (with Yao, Andrew C.) On evaluating Boolean functions with unreliable tests. **91f:68047**
- Kenyon, Richard Tiling a polygon with parallelograms. (see **91k:68005**)
- Kern, Walter On the rate of convergence of some stochastic processes. **91d:60056**
- Kierstead, H. A. (with Trotter, W. T.) The number of depth-first searches of an ordered set. **91d:06005**
- Kiesler, Thomas see Harn, Lein, **91h:94025**

- Kim, Sung Kwon A parallel algorithm for path-min queries in trees. (see 91m:68002)
- Parallel algorithms for the segment dragging problem. 91m:68150
- Kirkpatrick, David G. see Dadoun, N., 91c:68143
- Kirschenhofer, Peter (with Prodinger, Helmut) *b*-tries: a paradigm for the use of number-theoretic methods in the analysis of algorithms. 91m:68023
- (with Prodinger, Helmut) Eine Anwendung der Theorie der Modulfunktionen in der Informatik. [Application of the theory of modular functions in information science] 91c:68014
- (with Prodinger, Helmut; Szpankowski, Wojciech) On the balance property of Patricia tries: external path length viewpoint. 91a:68036
- Klawe, Maria (with Leighton, Frank Thomson) A tight lower bound on the size of planar permutation networks. (see 91g:68002)
- Kleinrock, Leonard see Huang, Jen Hsiung, (Not in MR)
- (Kochol, Martin) see Dunne, Paul E., 91f:68025
- Kollias, John G. (with Manolopoulos, Yannis; Papadimitriou, Christos H.) The optimum execution order of queries in linear storage. 91m:68019
- Komlós, János see Ajtai, Miklós; et al., 91a:68038
- Koshleva, O. M. see Kreinovich, V. Ya.; et al., 91m:81015
- Kostochka, A. V. A lower bound for the product of the Hadwiger numbers of a graph and its complement. (Russian) 91h:05067
- Kranakis, Evangelos see Cote, Peter G., 91m:68056
- Kratochvíl, Jan (with Matoušek, Jiří) NP-hardness results for intersection graphs. 91c:05156
- (with Nešetřil, Jaroslav) INDEPENDENT SET and CLIQUE problems in intersection-defined classes of graphs. 91g:05125
- Krawczyk, Hugo see Goldreich, Oded, 91g:94015
- Kreinovich, V. Ya. Group-theoretic approach to intractable problems. (see 91c:03004)
- (with Vazquez, Alejandro; Koshleva, O. M.) Prediction problem in quantum mechanics is intractable (NP-hard). 91m:81015
- Krentel, Mark W. On finding and verifying locally optimal solutions. 91h:68066
- van Kreveld, Marc J. (with de Berg, Mark T.) Finding squares and rectangles in sets of points. 91f:68204
- see also Overmars, Mark H.; et al., 91g:68029
- Kruskal, Clyde P. (with Rudolph, Larry; Snir, Marc) A complexity theory of efficient parallel algorithms. 91h:68046
- Kuznetsov, E. G. see Baranov, G. G.; et al., 91k:15041
- Lafont, Louise see Devroye, Luc, 91f:68018
- Lai, Chi Sheng (with Yu, Xin Guo) A hard example for the bifurcation method. (Chinese. English summary) 91i:03029
- see also Yu, Xin Guo, 91i:03030
- Lai, Tony W. see Andersson, Arne, (91c:68016)
- Lakshminarayanan, S. see Liang, Y.; et al., 91m:68145
- Lallement, Gérard J. Programs over finite semigroups: an introduction. (see 91h:00030)
- Langston, Michael A. (with Morford, Michael P.) Resource allocation under limited sharing. 91m:90053
- see also Friesen, Donald K., 91k:68070
- Larsen, H. Legind (with Yager, Ronald R.) Efficient computation of transitive closures. 91a:94005
- Latkin, E. I. ★ Полиномиальная неавтоустойчивость: алгебраический подход. (Russian) [Polynomial nonautostability: an algebraic approach] 91h:03057
- Lee, Der Tsai (with Sarrafzadeh, M.; Wu, Y. F.) Minimum cuts for circular-arc graphs. 91j:68100
- Lee, R. C. T. see Shih, Z. C.; et al., 91f:68208 and Yang, Ch'ang Piao; et al., (Not in MR)
- Lehmkuhl, Thomas (with Lickteig, Thomas) On the order of approximation in approximate triadic decompositions of tensors. 91f:68099
- Leighton, Frank Thomson see Klawe, Maria, (91g:68002)
- Leiserson, Charles E. see Cormen, Thomas H.; et al., 91f:68001
- Leung, Joseph Y.-T. (with Young, Gilbert H.) Preemptive scheduling to minimize mean weighted flow time. 91h:90105
- (with Tam, Tommy W.; Wong, Chin Siong; Young, Gilbert H.; Chin, Francis Y. L.) Packing squares into a square. 91h:68142
- see also Du, Jianzhong, 91h:90048
- Lecopoulos, Christos (with Lingas, Andrzej; Petersson, Ola; Rytter, Wojciech) Optimal parallel algorithms for testing isomorphism of trees and outerplanar graphs. 91h:68117
- see also Fjällström, Per-Olof; et al., 91c:68144
- Li, Chung-Lun (with McCormick, Thomas; Simchi-Levi, David) The complexity of finding two disjoint paths with min-max objective function. 91d:05061
- Li, Ker-Chau (with Ylvisaker, Donald) Another look at adaptation on the average. 91c:62245
- Li, Ming (with Yesha, Yaacov) New lower bounds for parallel computation. 91f:68051
- Li, Yuan A fast algorithm for global iteration of multidimensional NTT and DFT. (Chinese. English summary) 91i:11186
- Liang, Y. (with Rhee, C.; Dhall, S. K.; Lakshminarayanan, S.) A new approach for the domination problem on permutation graphs. 91m:68145
- Lickteig, Thomas see Lehmkuhl, Thomas, 91f:68099
- Lin, Feng Ch'ing (with Shieh, Jiann Cherng) Space and time complexities of balanced sorting on processor arrays. 91f:68024
- Lingas, Andrzej (with Proskurovski, Andrzej) On parallel complexity of the subgraph homeomorphism and the subgraph isomorphism problem for classes of planar graphs. 91d:68045
- see also Lecopoulos, Christos; et al., 91f:68117
- Liu, Hai-Ning (with Wrathall, C.; Zeger, Kenneth) Efficient solution of some problems in free partially commutative monoids. 91h:68122
- Lodi, Elena (with Luccio, Fabrizio; Pagli, Linda) A preliminary study of a diagonal channel-routing model. 91f:68168
- Lomonosov, M. V. Cycles through prescribed elements in a graph. 91m:05119
- Louchard, Guy (with Randrianarimana, B.; Schott, René) Dynamic algorithms in D. E. Knuth's model: a probabilistic analysis. 91d:68004
- Lozano, Antonio (with Balcázar, José Luis) The complexity of graph problems for succinctly represented graphs. 91c:68059
- Lu, Hao On computational complexity for the multiplication of generalized Hilbert matrices with vectors and solution of certain generalized Hilbert linear systems. 91k:65169
- Lu, Tung Lin (with Ho, Pei Hsin; Chang, Chên Hua) The domatic number problem in interval graphs. 91f:05107
- Luby, Michael (with Rackoff, Charles) A study of password security. 91a:68053
- Luccio, Fabrizio see Lodi, Elena; et al., 91f:68168
- Lucertini, Mario see De Simone, Caterina; et al., 91c:05169
- Ma, Keju (with von zur Gathen, Joachim) Analysis of Euclidean algorithms for polynomials over finite fields. 91j:11113
- Ma, Shao Han (with Wallis, Walter D.; Wu, Ju Lin) Clique covering of chordal graphs. 91d:05076
- Maes, Maurice On a cyclic string-to-string correction problem. 91h:68123
- Maffioli, F. see Camerini, P. M.; et al., 91f:68098
- (Mäkinen, Erkki) see Dublisch, Pratal, 91m:68143
- Manber, Uri (with Baeza-Yates, Ricardo A.) An algorithm for string matching with a sequence of don't cares. 91m:68025
- Manolopoulos, Yannis see Kollias, John G.; et al., 91m:68019
- Marcotte, Odile see Bienstock, Daniel, 91c:90123
- Martello, Silvano (with Toth, Paolo) Lower bounds and reduction procedures for the bin packing problem. 91c:90057
- Martin, Alain J. see Gries, David; et al., 91a:68113
- Matoušek, Jiří see Kratochvíl, Jan, 91c:05156
- Matsuoka, Hirofumi Cyclic sequencing problems in the two-machine permutation flow shop: complexity, worst-case, and average-case analysis. 91m:90087
- McCormick, Thomas see Li, Chung-Lun; et al., 91d:05061
- McDiarmid, C. J. H. Probabilistic analysis of tree search. 91m:68026
- McGuire, Tim (with Childs, Bart) An analysis of power series operators. (Not in MR)
- Megiddo, Nimrod see Fagin, Ronald; et al., 91f:03038 and Hassin, Refael, 91k:90224
- Mehlhorn, Kurt (with Näher, Stefan) Bounded ordered dictionaries in $O(\log N)$ time and $O(n)$ space. (Not in MR)
- see also Alt, Helmut; et al., 91m:68141
- Miguet, Serge see Fraignaud, Pierre; et al., (Not in MR)
- Mikhailuk, M. V. Complexity of calculating a polynomial at two opposite points. (Russian) 91a:68151
- Miller, Gary L. see Anderson, Richard John, (Not in MR)
- Miller, Zvi (with Sudborough, Ivan Hal) A polynomial algorithm for recognizing bounded cutwidth in hypergraphs. 91f:68118
- Mindlin, Gabriel B. see Hou, Xin-Jun; et al., (Not in MR)
- Minoux, M. (with Barkaoui, K.) Deadlocks and traps in Petri nets as Horn-satisfiability solutions and some related polynomially solvable problems. 91m:68140
- Mitchell, Joseph S. B. (with Papadimitriou, Christos H.) The weighted region problem: finding shortest paths through a weighted planar subdivision. 91m:68166
- Miyano, Satoru The lexicographically first maximal subgraph problems: P-completeness and NC algorithms. 91c:68105
- Misk, Michal A $\text{div}(n)$ depth Boolean circuit for smooth modular inverse. (see 91h:68006)
- Moema, Clyde L. (with Paterson, Michael; Suri, Subhash; Yao, Foong Frances) Computing Euclidean maximum spanning trees. 91f:68075
- Moore, James C. (with Richmond, William B.; Whinston, Andrew B.) Optimal decision processes and algorithms. 91f:90010
- Morain, François (with Olivos, Jorge) Speeding up the computations on an elliptic curve using addition-subtraction chains. (French summary) 91h:11189
- Moran, Shlomo Message complexity versus space complexity in fault tolerant broadcast protocols. 91a:68013
- Morford, Michael P. see Langston, Michael A., 91m:90053
- Morgenstern, Jacques see Fitchas, Noël; et al., 91j:03010
- Morozenko, V. V. Complexity of self-correcting algorithms for two sorting problems. (Russian) 91d:68009
- Mount, David M. (with Silverman, Ruth) Packing and covering the plane with translates of a convex polygon. 91h:52008
- Muller, John H. (with Spinrad, Jeremy) Incremental modular decomposition. 91h:68119
- Munro, J. Ian see Cunto, Walter, 91f:68024
- Nagamochi, Hiroshi (with Ibaraki, Toshihide) Computing edge-connectivity in multiple and capacitated graphs. 91j:68102
- Näher, Stefan see Mehlhorn, Kurt, (Not in MR)
- Narendran, Pallath see Kapur, Deepak; et al., 91h:68099
- Nebel, Bernhard Terminological reasoning is inherently intractable. 91f:68194
- Nel, Louis Daniel (with Colbourn, Charles J.) Combining Monte Carlo estimates and bounds for network reliability. 91h:90097
- Neri, Fabio see Elia, M., 91h:11022
- Nešetřil, Jaroslav see Kratochvíl, Jan, 91c:05125
- Newman, Ilan (with Ragde, Prabhakar; Wigderson, Avi) Perfect hashing, graph entropy, and circuit complexity (preliminary version). (see 91k:68006)
- Nishizeki, Takao Planar graph problems. (German summary) 91g:05128
- (with Kashiwagi, Kenichi) On the 1,1 edge-coloring of multigraphs. 91f:05055
- see also Chrobak, Marek, 91c:05077
- Norton, Graham On the asymptotic analysis of the Euclidean algorithm. 91k:11088
- Olivos, Jorge see Morain, François, 91h:11189
- Omicinski, Edward (with Scheuermann, Peter) A parallel algorithm for record clustering. (Not in MR)
- Orda, Ariel (with Rom, Raphael) Shortest-path and minimum-delay algorithms in networks with time-dependent edge-length. 91m:90063
- O'Rourke, Joseph see Aggarwal, Alok; et al., 91a:68258
- Orponen, Pekka Dempster's rule of combination is #P-complete. 91h:68161
- Osakwan, Constantine N. K. (with Akl, Selim G.) Optimal parallel algorithms for b -matchings in trees. 91c:68042
- Otto, Friedrich see Kapur, Deepak; et al., 91h:68099
- Overmars, Mark H. (with Smid, Michiel H. M.; de Berg, Mark T.; van Kreveld, Marc J.) Maintaining range trees in secondary memory. I. Partitions. 91g:68029
- (with Schipper, Hajjo; Sharir, Micha) Storing line segments in partition trees. 91e:68147

- see also Smid, Michiel H. M.; et al., 91d:68005 and 91g:68030
 Pach, János *see* Edelsbrunner, Herbert; et al., 91a:68265
 Pagli, Linda *see* Lodi, Elena; et al., 91f:68168
 Pallottino, Stefano *see* De Simone, Caterina; et al., 91c:05169
 Pan, Youfang *see* Bugara, Khaled M.; et al., 91f:68022
 Panayiotopoulos, J.-C. Using fifth generation tools for solving the clique number problem. 91h:68089
 Panconesi, Alessandro *see* Crescenzi, Pierluigi, 91h:68034
 Papadimitriou, Christos H. *see* Hirsch, Michael D.; et al., 91c:90021; Kollias, John G.; et al., 91f:68019 and Mitchell, Joseph S. B., 91m:68166
 Parberry, Ian Single-exception sorting networks and the computational complexity of optimal sorting network verification. 91h:68028
 — (with Yan, Pei Yuan) Improved upper and lower time bounds for parallel random access machines without simultaneous writes. 91k:68044
 Paterson, Michael *see* Monma, Clyde L.; et al., 91f:68075
 Patnaik, L. M. *see* Haldar, Chandan, (Not in MR)
 Paul, Manfred *see* Alt, Helmut; et al., 91m:68141
 Pearson, David (with Vazirani, Vijay V.) A fast parallel algorithm for finding a maximal bipartite set. 91j:68103
 Perry, Jo Ellen *see* Savage, Carla D.; et al., 91a:68211
 Petersson, Ola *see* Fjällström, Per-Olof; et al., 91d:68144 and Levcopoulos, Christos; et al., 91f:68117
 Petreschi, Rossella *see* De Agostino, Sergio, 91h:68030
 Pippenger, Nicholas Selection networks. (see 91g:68002)
 — see also Azar, Yossi, 91m:68022
 Pitts, Toniann *see* Cook, Stephen, 91j:68110
 Platzman, Loren K. (with Bartholdi, John J., III) Spacefilling curves and the planar travelling salesman problem. 91k:90124
 Policriti, Alberto *see* Cutello, Vincenzo, 91m:68057
 Pollack, Richard M. *see* Edelsbrunner, Herbert; et al., 91a:68265
 Posner, Marc E. Reducibility among single machine weighted completion time scheduling problems. 91k:90075
 Prasad, Kishori (with Kelly, Jerry S.) NP-completeness of some problems concerning voting games. 91m:90042
 Prodinger, Helmut *see* Kirichenhofer, Peter; et al., 91a:68036; 91c:68014 and 91m:68023
 Proskurowski, Andrzej (with Sytlo, Maciej M.) Efficient computations in tree-like graphs. (German summary) 91g:05129
 — see also Lingas, Andrzej, 91d:68045
 Purdom, Paul Walton, Jr. *see* Bugara, Khaled M.; et al., 91f:68022
 Rackoff, Charles *see* Luby, Michael, 91a:68053
 Ragde, Prabhakar *see* Newman, Ian; et al., (91k:68006)
 Raghavan, Prabhakar *see* Coppersmith, Don; et al., 91b:68044
 Rajčani, Peter Optimal parallel 3-colouring algorithm for rooted trees and its application. 91k:68165
 Ramana, Prakash *see* Kapoor, Sanjit, 91c:68118
 Randrianarimananana, B. *see* Loucard, Guy; et al., 91d:68004
 Rappaport, David (with Imai, Hiroshi; Toussaint, Godfried T.) Computing simple circuits from a set of line segments. 91f:68207
 Ratner, Daniel (with Warmuth, Manfred K.) The $(n^2 - 1)$ -puzzle and related relocation problems. 91f:68138
 Reif, John Henry (with Tate, Stephen R.) Optimal size integer division circuits. 91k:68092
 Rhee, C. *see* Liang, Y.; et al., 91m:68145
 Richmond, William B. *see* Moore, James C.; et al., 91f:90010
 Rivest, Ronald L. *see* Cormen, Thomas H.; et al., 91f:68001
 Robert, Yves *see* Fraigniaud, Pierre; et al., (Not in MR)
 Roß, José D. P. On the formal aspects of approximation algorithms. (see 91m:68002)
 Rolletschek, Heinrich Shortest division chains in imaginary quadratic number fields. 91g:11162
 Rom, Raphael *see* Orda, Ariel, 91m:90063
 Ron, Eytan NP-complete stable matching problems. 91k:90088
 Rudolph, Larry *see* Kruskal, Clyde P.; et al., 91b:68046
 Rytter, Wojciech *see* Levcopoulos, Christos; et al., 91f:68117
 Samuel, D. (with Toussaint, Godfried T.) Computing the external geodesic diameter of a simple polygon. (German summary) 91f:68211
 Sánchez-Arroyo, Abdon Determining the total colouring number is NP-hard. 91g:05049
 Sanchis, Laura A. On the complexity of test case generation for NP-hard problems. 91k:68064
 Sarrafzadeh, M. *see* Lee, Der Tsai; et al., 91j:68100
 Savage, Carla D. (with Stallmann, Matthias; Perry, Jo Ellen) Solving some combinatorial problems on arrays with one-way dataflow. 91a:68211
 Schäffer, Alejandro A. (with Yannakakis, Mihalis) Simple local search problems that are hard to solve. 91k:68065
 Scheuermann, Peter *see* Omiecinski, Edward, (Not in MR)
 Schipper, Haljo *see* Overmars, Mark H.; et al., 91a:68147
 Schmidt, Jeanette P. (with Siegel, Alan) The spatial complexity of oblivious k -probe hash functions. 91f:68032
 Schmidt-Schauss, Manfred Unification in permutative equational theories is undecidable. 91f:03091
 — Unification in permutative equational theories is undecidable [MR 91f:03091]. (see 91j:68006)
 Schöenage, A. Numerik analytischer Funktionen und Komplexität. [Numerics of analytic functions and complexity] 91h:68094
 Schott, René Combinatorial techniques in computer science. 91f:68016
 — see also Loucard, Guy; et al., 91d:68004 and Boissonnat, Jean-Daniel; et al., (91k:68005)
 Segall, Adrian *see* Wolfson, Omi, 91k:68037
 Seidel, Raimund *see* Edelsbrunner, Herbert; et al., 91a:68265
 Seiferas, Joel I. (with Vitányi, Paul M. B.) Counting is easy. 91f:68046
 Seymour, Paul D. *see* Alon, Noga; et al., 91h:05076
 Shallit, Jeffrey On the worst case of three algorithms for computing the Jacobi symbol. 91m:11112
 Sharir, Micha *see* Edelsbrunner, Herbert; et al., 91a:68265; Overmars, Mark H.; et al., 91c:68147; Clarkson, Kenneth L.; et al., 91f:52021; Edelsbrunner, Herbert; et al., 91f:68201 and 91h:68165
 Shasha, Dennis *see* Zhang, Kaizhong, 91c:68010
 Shermer, T. Hiding people in polygons. (German summary) 91c:68149
 Shieh, Jiann Cherng *see* Lin, Feng Ch'ing, 91j:68024
 Shih, Z. C. (with Lee, R. C. T.; Yang, S. N.) A parallel algorithm for finding congruent regions. 91f:68208
 Shindo, Mikio (with Tomita, Etsuji) A simple algorithm for finding a maximum clique and its worst-case time complexity. 91g:68134
 Shor, Peter W. *see* Clarkson, Kenneth L., 91c:68141
 Shoup, Victor On the deterministic complexity of factoring polynomials over finite fields. 91f:11088
 — see also Bach, Eric, 91h:11149
 Siegel, Alan *see* Schmidt, Jeanette P., 91f:68032
 Silverman, Ruth *see* Mount, David M., 91h:52008
 Simchi-Levi, David *see* Li, Chung-Lun; et al., 91d:05061 and Henig, Mordechai I., 91g:90081
 Simeone, Bruno *see* De Simone, Caterina; et al., 91c:05169
 Simon, Hans-Ulrich Approximation algorithms for channel assignment in cellular radio networks. 91a:68024
 Simon, Istvan *see* Bollobás, Béla; et al., 91f:68017
 Sipala, Sven *see* Flajolet, Philippe; et al., (91c:68004)
 Skym, Sven A simple algorithm for computing the smallest enclosing circle. 91k:68186
 Smale, Stephen ③ Complexity aspects of numerical analysis. 91j:65091
 Smid, Michiel H. M. (with Overmars, Mark H.; Torenvliet, Leen; van Emde Boas, Peter) Maintaining multiple representations of dynamic data structures. 91d:68005
 — (with Overmars, Mark H.) Maintaining range trees in secondary memory. II. Lower bounds. 91g:68030
 — see also Overmars, Mark H.; et al., 91j:68029
 van de Snepscheut, Jan L. A. *see* Gries, David; et al., 91a:68113
 Snir, Marc *see* Kruskal, Clyde P.; et al., 91b:68046
 Snoeyink, Jack *see* Edelsbrunner, Herbert; et al., 91a:68265
 Snyder, Wayne Efficient ground completion: an $O(n \log n)$ algorithm for generating reduced sets of ground rewrite rules equivalent to a set of ground equations E . (see 91f:68006)
 Solari, Hernán G. *see* Hou, Xin-Jun; et al., (Not in MR)
 Sol-skor, Yu. N. Complexity of problems of optimal servicing of three customers. 91k:90076
 Spencer, Thomas H. *see* Gabow, Harold N.; et al., 91f:68013
 Spinrad, Jeremy *see* Muller, John H., 91f:68119
 Sridharan, K. *see* Koerthi, S. S., 91f:15041
 Stallmann, Matthias *see* Savage, Carla D.; et al., 91a:68211
 Steele, J. Michael Seedlings in the theory of shortest paths. 91m:60025
 Steier, D. M. (with Anderson, A. P.) ★ Algorithm synthesis: a comparative study. 91a:68027
 Steyaert, Jean-Marc *see* Flajolet, Philippe; et al., (91c:68004)
 Stojmenović, Ivan *see* Akl, Selim G.; et al., 91f:68077
 Subrahmanyam, Ramesh Complexity of algebraic specifications. 91k:68139
 Sudborough, Ivan Hal *see* Miller, Zvi, 91f:68118
 Supowit, Kenneth J. *see* Dobkin, David P.; et al., 91c:52025
 Suri, Subhash *see* Aggarwal, Alok; et al., 91a:68258 and Monma, Clyde L.; et al., 91f:68075
 Syslo, Maciej M. *see* Proskurowski, Andrzej, 91g:05129
 Szemerédi, Endre *see* Ajtai, Miklós; et al., 91a:68038; Galil, Zvi; et al., 91c:05101 and Chvátal, Václav, 91f:68182
 Szpankowski, Wojciech *see* Kirichenhofer, Peter; et al., 91a:68036
 Szynalski, Jerzy On the complexity of algorithms on recursive trees. 91m:05174
 Takaoka, Tadao *see* Gu, Qian Ping, 91k:90210
 Talamo, Maurizio *see* Gambosi, Giorgio; et al., 91a:68112
 Tam, Tommy W. *see* Leung, Joseph Y.-T.; et al., 91h:68142
 Tarjan, Robert Endre *see* Gabow, Harold N., 91d:68042 and Clarkson, Kenneth L.; et al., 91d:68123
 Tate, Stephen R. *see* Reif, John Henry, 91h:68092
 Tege, M. (with Čepok, O.) Minimizing the number of Grab's changes in a single machine scheduling problem. 91a:90094
 Teillaud, Monique *see* Boissonnat, Jean-Daniel; et al., (91k:68005) and (91k:68005)
 Teitelbaum, Jeremy T. On the computational complexity of the resolution of plane curve singularities. 91g:14061
 Tetruashvili, M. R. Computational complexity of the decidability of a class of formulas in unquantified set theory with the power set operator. (Russian. English and Georgian summaries) 91g:03022
 Thomas, Robin *see* Alon, Noga; et al., 91h:05076
 Ting, H. F. *see* Chin, Francis Y. L., 91g:68014
 Tinhofer, G. *see* Babel, L., 91g:05120
 Tomita, Etsuji *see* Shindo, Mikio, 91g:68134
 Tompa, Martin *see* Coppersmith, Don; et al., 91b:68044 and Chandra, Ashok K., 91f:68042
 Torenvliet, Leen *see* Smid, Michiel H. M.; et al., 91d:68005
 Torosyan, B. E. Complexity of polynomial separation of subsets in finite sets. (Russian. Armenian summary) (Not in MR)
 Toth, Paolo *see* Martello, Silvano, 91c:90057
 Toussaint, Godfried T. *see* Rappaport, David; et al., 91f:68207 and Samuel, D., 91f:68211
 Traub, Joseph F. *see* Smale, Stephen, 91j:65091
 Triesch, Eberhard On a search problem in graph theory. 91k:90249
 Trotter, W. T. *see* Kierstead, H. A., 91d:06005
 Tung, Shih Ping Complexity of sentences over number rings. 91k:03020
 Udding, Jan Tijmen *see* Gries, David; et al., 91a:68113
 Ullman, Jeffrey D. (with Yannakakis, Mihalis) High-probability parallel transitive-closure algorithms. 91m:68067
 Unguryanu, V. A. NP-hardness of the problem of testing the embeddability of a k -dimensional unit cube in an orthogonal projection of a convex polyhedral set. (Russian) 91j:90084
 Uptal, Eli *see* Karlin, Anna R., (Not in MR)

- Vágvölgyi, Sándor *see* Filipp, Zoltán, 91k:03098
- Vaidya, Pravin M. Geometry helps in matching. 91a:68118
- Space-time trade-offs for orthogonal range queries. 91d:68006
- Vallée, Brigitte Generation of elements with small modular squares and provably fast integer factoring algorithms. 91i:11183
- Valtorta, Marco Some results on the computational complexity of refining confidence factors. (Not in MR)
- Van Wyk, Christopher J. *see* Clarkson, Kenneth L.; et al., 91d:68123
- Vardi, Moshe Y. Endmarkers can make a difference. 91g:68123
- Vavasis, Stephen A. *see* Hirsch, Michael D.; et al., 91c:90021
- Vazirani, Vijay V. *see* Pearson, David, 91j:68103
- Vazquez, Alejandro *see* Kreinovich, V. Ya.; et al., 91m:81015
- Verdú, Sergio Computational complexity of optimum multiuser detection. 91a:94009
- Vertigan, D. L. *see* Jaeger, François; et al., 91h:05038
- Vitányi, Paul M. B. *see* Seiferas, Joel L., 91f:68046
- Wah, Benjamin W. *see* Abolaze, Mokhtar A., 91i:68074
- Walsh, Gary R. A new $O(n^2)$ shortest chain algorithm. 91e:90126
- Wallis, Walter D. *see* Ma, Shao Han; et al., 91d:95076
- Wang, Jie Sheng Crane scheduling problems with precedence constraints and their NP-completeness. 91h:90051
- Warmuth, Manfred K. *see* Ratner, Daniel, 91i:68138
- Wasilowski, G. W. Randomization for continuous problems. 91a:65006
- (with Woźniakowski, H.) Mixed settings for linear problems. 91b:65065
- Waterman, Michael S. Sequence alignments. (see 91i:92005)
- Wegener, Ingo ★ Effiziente Algorithmen für grundlegende Funktionen. (German) [Efficient algorithms for fundamental functions] 91h:68003
- Welsh, D. J. A. *see* Jaeger, François; et al., 91h:05038
- Weitz, Emo *see* Clarkson, Kenneth L.; et al., 91f:52021
- Wen, Zhaofang Parallel multiple search. 91m:68029
- de Werra, Dominique Heuristics for graph coloring. (German summary) 91g:05052
- Whinston, Andrew B. *see* Moore, James C.; et al., 91f:90010
- Wiegner, Manfred The k -section of treewidth restricted graphs. (see 91h:68011)
- Wigderson, Avi *see* Alon, Noga; et al., 91f:05024 and Newman, Ilan; et al., (91k:68006)
- Williamson, S. Gill *see* Canfield, E. R., 91d:05042
- Winters, Vincent G. Minimal perfect hashing in polynomial time. 91a:68044
- Wolfson, Orit (with Segall, Adrian) The communication complexity of atomic commitment and of gossiping. 91k:68037
- Wong, Chin Siong *see* Leung, Joseph Y.-T.; et al., 91i:68142
- Woźniakowski, H. Average case complexity of multivariate integration. 91f:65224
- *see also* Wasilowski, G. W., 91b:65065
- Wrathall, C. *see* Liu, Hai-Ning; et al., 91f:68122
- Wu, Ju Lin *see* Ma, Shao Han; et al., 91d:95076
- Wu, Y. F. *see* Lee, Der Tsai; et al., 91f:68100
- Xu, Jie Feng A study on the traveling salesman problem in operations research. (Chinese. English summary) (Not in MR)
- Yager, Ronald R. *see* Larsen, H. Legind, 91i:04005
- Yan, Pei Yuan *see* Parberry, Ian, 91k:68044
- Yang, Chang Piao (with Lee, R. C. T.; Chen, Wen Tsuen) Parallel graph algorithms based upon broadcast communications. (Not in MR)
- Yang, S. N. *see* Shih, Z. C.; et al., 91f:68208
- Yannakakis, Mihalis *see* Schäffer, Alejandro A., 91k:68065 and Ullman, Jeffrey D., 91m:68067
- Yao, Andrew C. *see* Kenyon, Claire, 91i:68047
- Yao, Foong Frances *see* Monma, Clyde L.; et al., 91f:68075
- Yap, Chee-Keng *see* Aggarwal, Alok; et al., 91e:68258
- Yeh, Yacov *see* Li, Ming, 91f:68051
- Ylvisaker, Donald *see* Li, Ker-Chan, 91e:62245
- Young, Gilbert H. *see* Leung, Joseph Y.-T., 91h:90105 and 91h:68142
- Yu, Xin Gao (with Lai, Chu Sheng) A hard example for the method of counterterms. (Chinese. English summary) 91f:63030
- *see also* Lai, Chu Sheng, 91i:03029
- Yvinec, Mariette *see* Boissonnat, Jean-Daniel; et al., (91k:68005)
- Zakharov, V. M. *see* Baranov, G. G.; et al., 91k:15041
- Zabonov, S. V. Complexity of realizing code functions in a class of switching circuits without zero chains. (Russian) 91f:94034
- Zeger, Kenneth *see* Liu, Hai-Ning; et al., 91i:68122
- Zhang, Ju *see* Dietz, Paul F., (91e:68016)
- Zhang, Kaizhong (with Shasha, Dennis) Simple fast algorithms for the editing distance between trees and related problems. 91c:68010
- Zhitova, L. P. Algorithmic complexity of problems of optimal alphabetical coding for context-free languages. (Russian) 91f:68126

Items listed otherwise than by author

- Complexity in information theory ★ Complexity in information theory. 91g:68088
- Complexity theory and related topics ★ Keisanryō riron to sono shūhen. (Japanese) [Complexity theory and related topics] 91e:68006
- Lectures in complex systems ★ 1989 lectures in complex systems. 91m:00034
- Santa Fe, NM ★ 1989 lectures in complex systems. 91m:00034
- School:
- Complex Systems ★ 1989 lectures in complex systems. 91m:00034
- Symposium:
- Complexity Theory and Related Topics ★ Keisanryō riron to sono shūhen. (Japanese) [Complexity theory and related topics] 91e:68006

68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)

- (Abu-Mostafa, Yaser S.) *see* Complexity in information theory, 91g:68088
- Asarin, E. A. Individual random continuous functions. (see 91j:68003)

Beth, Thomas (with Dai, Zong Duo) On the complexity of pseudo-random sequences—or: If you can describe a sequence it can't be random. (see 91h:94003)

Calude, Cristian (with Chitescu, Ion) Upper limitation of Kolmogorov complexity and universal P. Martin-Löf tests. 91a:68147

Chaitin, Gregory J. A random walk in arithmetic. (Catalan) (Not in MR)

Chitescu, Ion *see* Calude, Cristian, 91a:68147

Cover, Thomas M. (with Gács, Péter; Gray, Robert M.) Kolmogorov's contributions to information theory and algorithmic complexity. 91h:68085

Dai, Zong Duo *see* Beth, Thomas, (91h:94003)

Gács, Péter *see* Cover, Thomas M.; et al., 91h:68085

Gray, Robert M. *see* Cover, Thomas M.; et al., 91h:68085

Kolmogorov, A. N. (with Uspenskii, V. A.) Algorithms and randomness. (see 91j:68003)

— *see also* Cover, Thomas M.; et al., 91h:68085

Krusek, V. N. Efficiency of coding approximations of real numbers. 91c:68063

Lutz, Jack H. Pseudorandom sources for BPP. 91h:68086

— Category and measure in complexity classes. 91h:68087

Staiger, Ludwig Kolmogorov complexity and Hausdorff dimension. 91h:68052

Uspenskii, V. A. *see* Kolmogorov, A. N., (91j:68003)

Vovk, V. G. Prediction of stochastic sequences. 91f:68097

Vyugin, V. V. Some estimates for nonstochastic sequences. (see 91j:68003)

Items listed otherwise than by author

Complexity in information theory ★ Complexity in information theory. 91g:68088

Items with secondary classifications in 68Q30

- Allender, Eric W. Limitations of the upward separation technique. 91k:68056
- Asperti, Andrea Stability and computability in coherent domains. 91j:03030
- Coffey, John T. (with Goodman, Rodney M.) Any code of which we cannot think is good. 91k:94034
- Dietzelbinger, Martin The speed of copying on one-tape off-line Turing machines. 91d:68012
- Feldman, Frank A. A new spectral test for nonrandomness and the DES. 91d:94011
- Goodman, Rodney M. *see* Coffey, John T., 91k:94034
- Inagaki, Yasuyoshi *see* Naoi, Tohru, (91f:68006)
- Ivanenko, V. I. (with Labkovskii, V. A.) A model of nonstochastic randomness. 91k:68005
- Joseph, Deborah (with Sitharam, Meera) Kolmogorov complexity, restricted nondeterminism and generalized spectra. 91e:68055
- Kravtsov, Yu. A. Randomness, determinateness, and predictability. 91a:82004
- Labkovskii, V. A. *see* Ivanenko, V. I., 91k:68005
- Magliveras, Spyros S. (with Memon, Nasir D.) The linear complexity profile of cryptosystem PGM. 91d:94013
- Mehlhorn, Kurt (with Paul, W. J.) Two versus one index register and modifiable versus nonmodifiable programs. 91a:68060
- Memon, Nasir D. *see* Magliveras, Spyros S., 91d:94013
- Naoi, Tohru (with Inagaki, Yasuyoshi) Algebraic semantics and complexity of term rewriting systems. (see 91f:68006)
- Paul, W. J. *see* Mehlhorn, Kurt, 91a:68060
- Reichel, Bernd A remark on some classifications of Indian parallel languages. 91a:68168
- Rustem, Berc (with Velupillai, Kumaraswamy) Rationality, computability, and complexity. 91f:90015
- Schöningh, Uwe Probabilistic complexity classes and lowness. 91h:68041a
- Semenov, A. L. *see* Uspenskii, V. A.; et al., 91f:03043
- Shen, A. Kh. *see* Uspenskii, V. A.; et al., 91f:03043
- Sitharam, Meera *see* Joseph, Deborah, 91e:68055
- Tang, Shou Wen (with Watanabe, Osamu) On tally relativizations of BP-complexity classes. 91h:68041b
- Uspenskii, V. A. (with Semenov, A. L.; Shen, A. Kh.) Can an (individual) sequence of zeros and ones be random? 91f:03043
- Velupillai, Kumaraswamy *see* Rustem, Berc, 91f:90015
- Watanabe, Osamu *see* Tang, Shou Wen, 91h:68041b

68Q35 VLSI algorithms

- Aarts, Emile H. L. (with Korst, Jan; Lenstra, Jan Karel) Constrained scheduling of VLSI algorithms. (see 91f:90006)
- Abolaze, Mokhtar A. (with Wah, Benjamin W.) Complexities of layouts in three-dimensional VLSI circuits. 91b:68074
- Aggarwal, Alok (with Carter, J. Lawrence; Kosaraju, S. Rao) Optimal tradeoffs for addition on systolic arrays. 91h:68088
- (with Klawe, Maria; Shor, Peter W.) Multilayer grid embeddings for VLSI. 91h:68075
- Alnuweiri, Hussein M. (with Prasanna Kumar, V. K.) Optimal VLSI sorting with reduced number of processors. (Not in MR)
- Bryant, Randal E. On the complexity of VLSI implementations and graph representations of Boolean functions with application to integer multiplication. (Not in MR)
- Carter, J. Lawrence *see* Aggarwal, Alok; et al., 91h:68088
- Chang, Shing-Chong *see* Ja'Ja', Joseph, 91m:68099
- Cole, Richard (with Siegel, Alan) Optimal VLSI circuits for sorting. (Not in MR)
- Droste, Manfred Event structures and domains. 91e:68078
- Đurić, Pavol (with Vito, Imrich) Semeleactivity is not sufficient. (Not in MR)
- Fischer, Thomas R. M. *see* Teetz, Ingo; et al., (Not in MR)
- Gait, Jason Speedup and optimality in pipeline programs. (Not in MR)
- Geiselman, W. (with Gollmann, D.) VLSI design for exponentiation in $GF(2^n)$. (see 91h:94002)
- Gollmann, D. *see* Geiselman, W., (91h:94002)
- Idzikowska, E. Functional approach to modelling and testing of logical LSI-VLSI systems. (Not in MR)
- Isaev, Walter *see* Teetz, Ingo; et al., (Not in MR)
- Itoh, Toshiya (with Tsujii, Shigeo) Structure of parallel multipliers for a class of fields $GF(2^n)$. 91c:68064

- Ja'Ja', Joseph (with Chang, Shing-Chong) Parallel algorithms for channel routing in the knock-knee model. 91m:68099
- Jover, J. M. (with Kailath, Thomas; Lev-Ari, Hanoch; Rao, Sailesh K.) On the analysis of synchronous computing systems. 91d:68056
- Kailath, Thomas see Jover, J. M.; et al., 91d:68056
- Kaufmann, Michael (with Mehlhorn, Kurt) Routing problems in grid graphs. 91k:68098
- Kissin, Gloria Upper and lower bounds on switching energy in VLSI. (Not in MR)
- Klawe, Maria see Aggarwal, Alok; et al., 91f:68075
- Korst, Jan see Aarts, Emile H. L.; et al., (91f:90006)
- Kosaraju, S. Rao see Aggarwal, Alok; et al., 91h:68088
- Lengauer, Thomas ★ Combinatorial algorithms for integrated circuit layout. 91h:68089
- Lenstra, Jan Karel see Aarts, Emile H. L.; et al., (91f:90006)
- Lev-Ari, Hanoch see Jover, J. M.; et al., 91d:68056
- Likhoded, N. A. (with Sobolevskii, P. I.) Matching of base systolic calculators. (Russian. English summary) 91a:68148
- Liu, Xiao Lin see Xu, Mei Rui; et al., (91h:68005)
- Lopresti, Daniel P. see Nodine, Mark H.; et al., (91m:68002)
- Malay, F. Miller A generic algorithm for one-dimensional homotopic compaction. 91f:68076
- Mehlhorn, Kurt see Kaufmann, Michael, 91k:68098
- Moran, Shlomo (with Wolfstahl, Yaron) One-page book embedding under vertex-neighborhood constraints. 91h:68090
- Neaderhouser Purdy, Carla C. (with Purdy, George B.) The area-time complexity of the greatest common divisor problem: a lower bound. 91c:68065
- Nodine, Mark H. (with Lopresti, Daniel P.; Vitter, Jeffrey S.) I/O overhead and parallel VLSI architectures for lattice computations (extended abstract). (see 91m:68002)
- Palko, Vladimir (with Šýkora, Ondřej; Vřto, Imrich) Area complexity of merging. 91c:68079
- Prasanna Kumar, V. K. see Alnuweiri, Hussein M., (Not in MR)
- Prasanna, Bryan see Lengauer, Thomas, 91h:68089
- Procházka, Jura Systolic systems for polynomial GCD computation. (German and Russian summaries) 91c:68080
- Purdy, George B. see Neaderhouser Purdy, Carla C., 91c:68065
- Radhakrishnan, Damu (with Yuan, Yong) Fast and highly compact RNS multipliers. (Not in MR)
- Rao, Sailesh K. see Jover, J. M.; et al., 91d:68056
- Sedukhin, S. G. Design of systolic and wave-matrix structures for solving the algebraic problem of path determination. (Not in MR)
- Sherlekar, Deepak D. Optimality of gauge and degree-sensitive VLSI layouts of planar graphs. (see 91m:68002)
- Shor, Peter W. see Aggarwal, Alok; et al., 91f:68075
- Siegel, Alan see Cole, Richard. (Not in MR)
- van de Snepscheut, Jan L. A. (with Swenker, Johan B.) On the design of some systolic algorithms. (Not in MR)
- Sobolevskii, P. I. see Likhoded, N. A., 91a:68148
- Swenker, Johan B. see van de Snepscheut, Jan L. A., (Not in MR)
- Šýkora, Ondřej see Palko, Vladimir; et al., 91c:68079
- Tetz, Ingo (with Fischer, Thomas R. M.; Issel, Walter) ★ Die Sprache NBSF für die strukturelle Beschreibung von Schaltkreisen. (German) [The language NBSF for the structural description of circuits] (Not in MR)
- Tsujii, Shigeo see Itoh, Toshiya, 91c:68064
- Vitter, Jeffrey S. see Nodine, Mark H.; et al., (91m:68002)
- Vřto, Imrich see Palko, Vladimir; et al., 91c:68079 and Ďuriš, Pavel, (Not in MR)
- Waczulik, Jura Area time squared and area complexity of VLSI computations is strongly unclosed under union and intersection. (see 91h:68006)
- Wah, Benjamin W. see Abuelaze, Mokhtar A., 91f:68074
- Wolfstahl, Yaron see Moran, Shlomo, 91h:68090
- Xu, Mei Rui (with Zhao, Dong Yue; Liu, Xiao Lin) Some results on VLSI parallel algorithms. (see 91h:68005)
- Yuan, Yong see Radhakrishnan, Damu, (Not in MR)
- Zhao, Dong Yue see Xu, Mei Rui; et al., (91h:68005)
- Items with secondary classifications in 68Q35
- Bilardi, Gianfranco (with Preparata, Franco P.) Size-time complexity of Boolean networks for prefix computations. 91g:68075
- Chung, Moon Jung (with Ravikumar, Bala) Bounds on the size of test sets for sorting and related networks. 91g:68026
- Cypher, R. E. (with Sanz, J. L. C.; Snyder, Lawrence) The Hough transform has $O(N)$ complexity on $N \times N$ mesh connected computers. 91f:68209
- Das, Sajal K. (with Deo, Narsingh; Prasad, Sushil) Parallel graph algorithms for hypercube computers. 91a:68111
- Deo, Narsingh see Das, Sajal K.; et al., 91a:68111
- Deprettere, E. F. see Jainandansing, K., 91d:65050
- Eades, Peter (with Wormald, Nicholas C.) Fixed edge-length graph drawing is NP-hard. 91j:68128
- Frank, András Packing paths, circuits, and cuts—a survey. 91h:68116
- Franklin, M. A. ★ Систематические вычисления. (Russian) [Systolic computations] 91h:68003
- Fujimoto, Richard M. see Rajopadhye, Sanjay V., 91f:65223
- Han, Yijie (with Igarashi, Yoshihide) Time lower bounds for parallel sorting on a mesh-connected processor array. 91f:68164
- Igarashi, Yoshihide see Han, Yijie, 91f:68164
- Jainandansing, K. (with Deprettere, E. F.) A new class of parallel algorithms for solving systems of linear equations. 91d:65050
- Jirásková, Galina Chomsky hierarchy and communication complexity. 91a:68095
- Kaldewall, Anne (with Rem, Martin) The derivation of systolic computations. 91f:68108
- Kissin, Gloria Models of multiwire energy. 91g:94037
- Miller, Zevi (with Sudborough, Ivan Hal) A polynomial algorithm for recognizing bounded cutwidth in hypergraphs. 91h:68118
- Möhring, Rolf H. Graph problems related to gate matrix layout and PLA folding. (German summary) (see 91a:68002)
- Neaderhouser Purdy, Carla C. (with Purdy, George B.) Networks for greatest common divisor computations. 91h:11153
- Prasad, Sushil see Das, Sajal K.; et al., 91a:68111
- Preparata, Franco P. see Bilardi, Gianfranco, 91g:68075
- Purdy, George B. see Neaderhouser Purdy, Carla C., 91h:11153
- Rajopadhye, Sanjay V. (with Fujimoto, Richard M.) Synthesizing systolic arrays from recurrence equations. 91f:65223
- Ravikumar, Bala see Chung, Moon Jung, 91g:68026
- Rem, Martin see Kaldewall, Anne, 91f:68108
- Sanz, J. L. C. see Cypher, R. E.; et al., 91f:68209
- Siu, Wan-Chi (with Wong, Kar-Lik) Realization of discrete Fourier transforms using a nesting algorithm. 91k:65163
- Snyder, Lawrence see Cypher, R. E.; et al., 91f:68209
- Sudborough, Ivan Hal see Miller, Zevi, 91h:68118
- Turdaliev, N. I. Self-correction of schemes for some sequences of Boolean functions. 91h:94066
- Wong, Kar-Lik see Siu, Wan-Chi, 91k:65163
- Wormald, Nicholas C. see Eades, Peter, 91j:68128
- Zabair, M. An optimal speedup algorithm for the measure problem. 91a:68146
- 68Q40 Symbolic computation, algebraic computation**
[see also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16–08, 17–08]
- Akratis, Alkiviadis G. ★ Elements of computer algebra with applications. 91k:68099
- Apsalyamova, E. R. (with Khomich, V. N.) Reduction of algebraic and transcendental expressions to canonical form on a computer. (Russian) 91j:68059
- Arnborg, Stefan Experiments with a projection operator for algebraic decomposition. 91f:68098
- Babai, László (with Rónyai, Lajos) Computing irreducible representations of finite groups. 91f:68057
- Baum, Ulrich (with Clausen, Michael) Some lower and upper complexity bounds for generalized Fourier transforms and their inverses. 91m:68100
- Burav, G. A. Symbolic combinatorial methods of analytic calculations and their application in problems of linear algebra. (Russian. English summary) 91j:68077
- Casas, Rafael (with Fernández-Camacho, María-Inés; Steyaert, Jean-Marc) Algebraic simplification in computer algebra: an analysis of bottom-up algorithms. (Catalan summary) 91j:68060
- Chor, Benny (with Goldreich, Oded) An improved parallel algorithm for integer gcd. 91a:68149
- Clausen, Michael see Baum, Ulrich, 91m:68100
- Cohen, Arjeh M. Computer algebra, theory and practice. 91e:68081
- (Davenport, A.) see Davenport, J. H.; et al., 91j:68061
- Davenport, J. H. (with Siret, Y.; Tournier, E.) ★ Computer algebra. 91j:68061
- Delest, M.-P. (with Fedou, J. M.) Counting polyominoes using attribute grammars. 91m:68101
- Dichev, Christo see Markov, Zdravko, (91k:68012)
- Fedou, J. M. see Delest, M.-P., 91m:68101
- Fernández-Camacho, María-Inés see Casas, Rafael; et al., 91j:68060
- Gataeva-Ivanova, Tatiana Algorithmic determination of the Jacobson radical of monomial algebras. 91d:68058
- von zur Gathen, Joachim Algebraic complexity theory. 91a:68150
- Inversion in finite fields using logarithmic depth. 91g:68089
- Giuma, Tayeb A. see Tapia, M. A.; et al., (Not in MR)
- Goel, Narendra S. (with Goodwin, Mark D.) Symbolic computation using L -systems. (Not in MR)
- Goguen, Joseph A. Proving and rewriting. 91j:68062
- Goldreich, Oded see Chor, Benny, 91a:68149
- Goodwin, Mark D. see Goel, Narendra S., (Not in MR)
- (Hearn, Anthony C.) see Davenport, J. H.; et al., 91j:68061
- Hughes, D. I. Symbolic computation with fermions. 91j:68063
- Huynh, Tien (with Laszez, Catherine; Laszez, Jean-Louis) Fourier algorithm revisited. (see 91g:68001)
- Jacobs, D. Pokrass Probabilistic checking of associativity in algebras. 91m:68102
- Kaltofen, Erich (with Trager, Barry M.) Computing with polynomials given by black boxes for their evaluations: greatest common divisors, factorization, separation of numerators and denominators. 91k:68100
- Kathab, A. see Tapia, M. A.; et al., (Not in MR)
- Khomich, V. N. see Apsalyamova, E. R., 91j:68059
- Lankford, Dallas Generalized Gröbner bases: theory and applications. A condensation. (see 91f:68006)
- Laszez, Catherine see Huynh, Tien; et al., (91g:68001)
- Laszez, Jean-Louis see Huynh, Tien; et al., (91g:68001)
- Lazard, Daniel (with Rioboo, R.) Integration of rational functions: rational computation of the logarithmic part. 91h:68091
- see also Davenport, J. H.; et al., 91j:68061
- Lehmkuhl, Thomas (with Lickteig, Thomas) On the order of approximation in approximative triadic decompositions of tensors. 91f:68099
- Li, Lian see Li, Yong Li, (Not in MR)
- Li, Yong Li (with Li, Lian) Solutions to systems of algebraic equations in Prolog. (Chinese. English summary) (Not in MR)
- Lickteig, Thomas see Lehmkuhl, Thomas, 91f:68099
- Markov, Zdravko (with Dichev, Christo) The net-clause language—a tool for data-driven inference. (see 91k:68012)
- McLinden, Mark O. see Nielson, Glen C.; et al., (Not in MR)
- Mikhailuk, M. V. Complexity of calculating a polynomial at two opposite points. (Russian) 91a:68151
- Morrison, Graham see Nielson, Glen C.; et al., (Not in MR)

- Neff, C. Andrew Decomposing algebraic sets using Gröbner bases. 91f:68100
- Nielson, Glen C. (with McLinden, Mark O.; Morrison, Graham) Use of computer algebra to locate critical loci in fluid mixtures. (Not in MR)
- Paige, Robert Symbolic finite differencing. I. (see 91a:68003)
- Reif, John Henry (with Tate, Stephen R.) Optimal size integer division circuits. 91h:68092
- Riebo, R. see Lazard, Daniel, 91h:68091
- Rényai, Lajos Computing the structure of finite algebras. 91h:68093
- see also Babai, László, 91d:68057
- Sasaki, Tetsuki Some algebraic algorithms based on head term elimination over polynomial rings. 91f:68101
- Schönhage, A. Numerik analytischer Funktionen und Komplexität. [Numerics of analytic functions and complexity] 91h:68094
- Siret, Y. see Davenport, J. H.; et al., 91j:68061
- Steyaert, Jean-Marc see Casas, Rafael; et al., 91j:68060
- Tapia, M. A. (with Giuma, Tayeb A.; Katbab, A.) Calculus for a multivalued-logic algebraic system. (Not in MR)
- Tate, Stephen R. see Reif, John Henry, 91h:68092
- Tournier, E. see Davenport, J. H.; et al., 91j:68061
- Trager, Barry M. see Kaltofen, Erich, 91k:68100
- Zippel, Richard Interpolating polynomials from their values. 91g:68090
- Items with secondary classifications in 68Q40
- Abdulrah, Habib (with Pécuchet, Jean-Pierre) On word equations and Makanin's algorithm. 91b:68091
- (with Pécuchet, Jean-Pierre) Solving word equations. 91b:68092
- (with Pécuchet, Jean-Pierre) Solving word equations [MR 91b:68092]. (see 91j:68006)
- Abe, Ken-ichi see Umeno, Takaji; et al., (Not in MR)
- Abramov, S. A. Problems in computer algebra that are connected with a search for polynomial solutions of linear differential and difference equations. 91e:65109
- Aiba, Akira¹ see Sakai, Kō, 91b:68108
- Apel, J. (with Lassner, W.) An extension of Buchberger's algorithm and calculations in enveloping fields of Lie algebras. 91j:17002
- Askey, Richard Integration and computers. 91k:33014
- Bach, Eric (with Shoup, Victor) Factoring polynomials using fewer random bits. 91h:11149
- Becker, Thomas Standard bases and some computations in rings of power series. 91k:13031
- (Brockett, Roger W.) see Robotics, 91i:70003
- Bronstein, Manuel Integration of elementary functions. 91h:12017
- Buchberger, B. (with Collins, G. E.; Kutzler, B.) Algebraic methods for geometric reasoning. 91g:68156
- Cai, Jin-Yi A note on the determinant and permanent problem. 91d:68028
- Canny, John Generalised characteristic polynomials. 91i:13030
- Chou, Shang-Ching (with Schelter, William F.; Yang, Jin Gen) An algorithm for constructing Gröbner bases from characteristic sets and its application to geometry. 91e:13022
- Collins, G. E. see Buchberger, B.; et al., 91g:68156
- Dedieu, Jean-Pierre (with Roy, Marie-Françoise) Factorisation équivariante des polynômes à coefficients réels et calcul formel. (English summary) [Equimodular factorization of real polynomials and computer algebra] 91d:12021
- Despain, Alvin M. see Fagin, Barry S., (Not in MR)
- Dubé, Thomas W. The structure of polynomial ideals and Gröbner bases. 91h:13021
- Dubois, Michel see Üresin, Aydin, 91i:65222
- Ekhad, Shalosh B. (with Tre, Sol) A purely verification proof of the first Rogers-Ramanujan identity. 91m:11011
- Fagin, Barry S. (with Despain, Alvin M.) The performance of parallel Prolog programs. (Not in MR)
- Fil', B. N. see Mitropol'skii, Yu. A.; et al., 91m:58077
- Gambosi, Giorgio (with Nešetřil, Jaroslav; Talamo, Maurizio) On locally presented posets. 91g:06003
- Garavelli, John S. An algorithm for the multiplication of symmetric polynomials. 91f:50002
- Gebauer, Rüdiger (with Möller, H. Michael) On an installation of Buchberger's algorithm. 91a:13014
- Gianni, Patrizia Properties of Gröbner bases under specializations. 91g:13032
- Grager, P. K. H. Lie algebra computations. 91i:17002
- Grigor'ev, D. Yu. The complexity of computations in commutative algebra. 91h:68042
- (Grossman, Robert) see Symbolic computation, 91f:00012
- Hearn, Anthony C. Equation solving by symbolic computation. (see 91k:00034)
- Iliopoulos, Costas S. Worst-case complexity bounds on algorithms for computing the canonical structure of finite abelian groups and the Hermite and Smith normal forms of an integer matrix. 91a:20065
- Worst-case complexity bounds on algorithms for computing the canonical structure of infinite abelian groups and solving systems of linear Diophantine equations. 91a:20066
- Jouannaud, Jean-Pierre (with Kounalis, Emmanuel) Automatic proofs by induction in theories without constructors. 91a:68236
- Kalkbrener, Michael Solving systems of algebraic equations by using Gröbner bases. 91f:13031
- Kaltofen, Erich (with Krishnamoorthy, M. S.; Saunders, B. David) Mr. Smith goes to Las Vegas: randomized parallel computation of the Smith normal form of polynomial matrices. 91e:65166
- Errata to: "Fast parallel absolute irreducibility testing" [J. Symbolic Comput. 1 (1985), no. 1, 57–67; MR 87b:12002]. 91b:12013
- Kandri-Rody, A. (with Weispfenning, Volker) Noncommutative Gröbner bases in algebras of solvable type. 91i:13025
- Karpinski, Marek Boolean circuit complexity of algebraic interpolation problems. 91d:11162
- Kondrat'eva, M. V. (with Pankrat'ev, E. V.) A recursive algorithm for the computation of the Hilbert polynomial. 91h:13023
- Kounalis, Emmanuel see Jouannaud, Jean-Pierre, 91a:68236
- Kozen, Dexter (with Landau, Susan) Polynomial decomposition algorithms. 91c:13022
- (with Landau, Susan) Errata: "Polynomial decomposition algorithms" [J. Symbolic Comput. 7 (1989), no. 5, 445–456; MR 91c:13022]. (Not in MR)
- Kredel, Heinz Primary ideal decomposition. 91g:13033
- Krishnamoorthy, M. S. see Kaltofen, Erich; et al., 91e:65166
- Kutzler, B. see Buchberger, B.; et al., 91g:68156
- Landau, Susan see Kozen, Dexter, 91c:13022 and (Not in MR)
- Lassner, W. see Apel, J., 91j:17002
- Mansour, Yishay (with Schieber, Baruch; Tiwari, Prason) Lower bounds for computations with the floor operation. 91m:68087
- Martin, Bernd (with Pfister, Gerhard) The kernel of the Kodaira-Spencer map of the versal μ -constant deformation of an irreducible plane curve singularity with C^* -action. 91c:14005
- Michler, Gerhard O. Some problems in computational representation theory. 91k:20022
- Mignotte, Maurice ★ Mathématiques pour le calcul formel. (French) [Mathematics for computer algebra] 91a:68001
- Mishra, Bud (with Yap, Chee-Keng) Notes on Gröbner bases. 91e:13026
- Mitropol'skii, Yu. A. (with Prikarpat'skii, A. K.; Fil', B. N.) Some aspects of a gradient-holonomic algorithm in the theory of integrability of nonlinear dynamical systems, and problems in computer algebra. (Ukrainian. Russian summary) 91m:58077
- Möller, H. Michael see Gebauer, Rüdiger, 91a:13014
- Nef, Walter (with Schmidt, Peter-Michael) Computing a sweeping-plane in regular ("general") position: a numerical and a symbolic solution. 91m:68168
- Nelson, G. C. Other logics for (equational) theories. 91j:03033
- Nešetřil, Jaroslav see Gambosi, Giorgio; et al., 91g:06003
- Noro, Masayuki see Yokoyama, Kazuhiko; et al., 91b:11147
- Nutt, Werner (with Réty, Pierre; Smolka, Gert) Basic narrowing revisited [MR 90g:68120]. (see 91j:68006)
- Pankrat'ev, E. V. Computations in differential and difference modules. 91g:12008
- see also Kondrat'eva, M. V., 91h:13023
- Pardo, Luis M. see Recio Muñoz, Tomás J., 91c:14066
- Pécuchet, Jean-Pierre see Abdulrah, Habib, 91b:68091; 91b:68092 and (91j:68006)
- Pfister, Gerhard see Martin, Bernd, 91c:14005
- Piquette, Jean C. Uncoupling the differential equations arising from a technique for evaluating indefinite integrals containing special functions or their products. 91g:33017
- Postl, Helmut Fast evaluation of Dickson polynomials. 91k:11116
- Prikarpat'skii, A. K. see Mitropol'skii, Yu. A.; et al., 91m:58077
- Recio Muñoz, Tomás J. (with Pardo, Luis M.) Rabin's width of a complete proof and the width of a semialgebraic set. 91c:14066
- Réty, Pierre see Nutt, Werner; et al., (91j:68006)
- Risler, Jean-Jacques (with Ronga, Felice) Testing polynomials. 91k:12010
- Robson, J. M. Strong time bounds: noncomputable bounds and a hierarchy theorem. 91f:68045
- Ronga, Felice see Risler, Jean-Jacques, 91k:12010
- Roy, Marie-Françoise (with Szpirglas, Aviva) Complexity of the computation of cylindrical decomposition and topology of real algebraic curves using Thom's lemma. 91a:14048
- (with Szpirglas, Aviva) Complexity of computation on real algebraic numbers. 91k:11114
- see also Dedieu, Jean-Pierre, 91d:12021
- Saito, Osami see Umeno, Takaji; et al., (Not in MR)
- Sakai, Kō (with Aiba, Akira¹) CAL: a theoretical background of constraint logic programming and its applications. 91h:68108
- Sasaki, Tetsuki (with Takeshima, Taku) A modular method for Gröbner-basis construction over \mathbb{Q} and solving system of algebraic equations. 91c:13027
- Saunders, B. David see Kaltofen, Erich; et al., 91e:65166
- Schelter, William F. see Chou, Shang-Ching; et al., 91e:13022
- Schemmel, Klaus-Peter An extension of Buchberger's algorithm to compute all reduced Gröbner bases of a polynomial ideal. 91i:13032
- Schieber, Baruch see Mansour, Yishay; et al., 91m:68087
- Schmidt, Peter-Michael see Nef, Walter, 91m:68168
- Schneider, Gerhard J. A. Dixon's character table algorithm revisited. 91j:20036
- Sergersert, Francis Free loop spaces and computability in algebraic topology. 91a:55029
- Shoup, Victor see Bach, Eric, 91h:11149
- Siekmann, Jörg H. An introduction to unification theory. 91b:68135
- Singer, Michael F. Formal solutions of differential equations. 91m:12011
- Smolka, Gert see Nutt, Werner; et al., (91j:68006)
- Stokes, Timothy E. Gröbner bases in exterior algebra. 91m:15043a
- Errata: "Gröbner bases in exterior algebra". 91m:15043b
- Sturmfels, Bernd (with White, Neil L.) All 11_1 and 12_2 -configurations are rational. 91f:51003
- Gröbner bases and Stanley decompositions of determinantal rings. 91m:14076
- Szpirglas, Aviva see Roy, Marie-Françoise, 91a:14048 and 91k:11114
- Takeshima, Taku see Yokoyama, Kazuhiko; et al., 91b:11147 and Sasaki, Tetsuki, 91c:13027
- Talamo, Maurizio see Gambosi, Giorgio; et al., 91g:06003
- Teitelbaum, Jeremy T. On the computational complexity of the resolution of plane curve singularities. 91g:14061
- Tiwari, Prason see Mansour, Yishay; et al., 91m:68087
- Tre, Sol see Ekhad, Shalosh B., 91m:11011
- Ufnarovskyi, V. A. On the use of graphs for calculating the basis, growth and Hilbert series of associative algebras. 91d:16053
- Umeno, Takaji (with Yamashita, Syuichi; Saito, Osami; Abe, Ken-ichi) Symbolic computation application for the design of linear multivariable control systems. (Not in MR)
- Üresin, Aydin (with Dubois, Michel) Parallel asynchronous algorithms for discrete data. 91i:65222
- Wegener, Ingo ★ Effiziente Algorithmen für grundlegende Funktionen. (German) [Efficient algorithms for fundamental functions] 91i:68003
- Weispfenning, Volker Gröbner bases for polynomial ideals over commutative regular rings. 91h:13036
- see also Kandri-Rody, A., 91i:13025
- White, Neil L. see Sturmfels, Bernd, 91f:51003

- Witt, Herbert S. (with Zeilberger, Doron) Towards computerized proofs of identities. 91a:33003
 — (with Zeilberger, Doron) Rational functions certify combinatorial identities. 91a:05006
 Winkler, Franz Solution of equations. I. Polynomial ideals and Gröbner bases. 91k:13013
 Yamashita, Syuichi *see* Umemo, Takaji; et al. (Not in MR)
 Yang, Jin Gen *see* Chou, Shang-Ching; et al. 91e:13022
 Yap, Chee-Keng Symbolic treatment of geometric degeneracies. 91k:68188
 — *see also* Mishra, Bud, 91e:13026
 Yokoyama, Kazuhiro (with Noro, Masayuki; Takeshima, Taku) Computing primitive elements of extension fields. 91h:11147
 Zeilberger, Doron *see* Witt, Herbert S., 91a:05006 and 91a:33003
 Zeugmann, Thomas Improved parallel computations in the ring \mathbb{Z}/p^n . (German and Russian summaries) 91a:68145
 — Computing large polynomial powers very fast in parallel. 91m:68097

Items listed otherwise than by author

- Investigations on formula manipulation systems for differential equations ★ Bibun hōteishiki no sushikishōri shisutemu no kenkyū. (Japanese) [Investigations on formula manipulation systems for differential equations] 91k:00014
 Proceedings of Symposia in Applied Mathematics ★ Robotics. 91k:70003
 Robotics ★ Robotics. 91k:70003
 Symbolic computation ★ Symbolic computation. 91f:00012
 Symposium:
 Investigations on Formula Manipulation Systems for Differential Equations ★ Bibun hōteishiki no sushikishōri shisutemu no kenkyū. (Japanese) [Investigations on formula manipulation systems for differential equations] 91k:00014

68Q42 Rewriting systems

- Avenhaus, J. (with Madlener, Klaus) Term rewriting and equational reasoning. 91h:68095
 Baader, Franz Unification properties of commutative theories: a categorical treatment. 91a:68152
 — Rewrite systems for varieties of semigroups. (see 91g:68004)
 Bachmair, Leo (with Dershowitz, Nachum) Completion for rewriting modulo a congruence. 91d:68059
 Basin, David A. Equality of terms containing associative-commutative functions and commutative binding operators is isomorphism complete. (see 91g:68004)
 Boudet, Alexandre Unification in a combination of equational theories: an efficient algorithm. (see 91g:68004)
 Breazu-Tannen, Val (with Gallier, Jean H.) Polymorphic rewriting conserves algebraic strong normalization and confluence. 91d:68060
 Carpi, Arturo (with de Luca, Aldo) Nonrepetitive words relative to a rewriting system. 91h:68096
 Causal, Didier On the regular structure of prefix rewriting. (see 91e:68005)
 Choppy, Christine (with Kaplan, Stéphane; Soria, Michèle) Complexity analysis of term-rewriting systems. 91k:68101
 Christian, Jim *see* Lincoln, Patrick, 91d:68061 and (91j:68006)
 Coquidé, Jean-Luc (with Gilleron, R.) Proofs and reachability problem for ground rewrite systems. (see 91h:68006)
 Dassow, Jürgen (with Păun, Gheorghe) ★ Regulated rewriting in formal language theory. 91h:68078
 Dershowitz, Nachum Completion and its applications. 91h:68097
 — (with Sivakumar, G.) Equation solving in conditional AC-theories. (see 91g:68001)
 — (with Lindenstrauss, Naomi) An abstract concurrent machine for rewriting. (see 91g:68001)
 — *see also* Bachmair, Leo, 91d:68059
 Dick, Jeremy (with Kalmus, John; Martin, Ursula) Automating the Knuth-Bendix ordering. 91k:68102
 Diekert, Volker On the Knuth-Bendix completion for concurrent processes. 91e:68082
 — Combinatorial rewriting on traces. 91f:68102
 Gallier, Jean H. *see* Breazu-Tannen, Val, 91d:68060
 Gilleron, R. *see* Coquidé, Jean-Luc, 91h:68006
 Hofbauer, Dieter Termination proofs by multiset path orderings imply primitive recursive derivation lengths. (see 91g:68001)
 Inverardi, P. (with Nesi, M.) A rewriting strategy to verify observational congruence. 91f:68103
 Jantke, Klaus P. *see* Thomas, Muffy, 91h:68054
 Jouannaud, Jean-Pierre (with Marché, Claude) Completion modulo associativity, commutativity and identity (ACI). 91h:68098
 Jucan, T. (with Maslugin, C.; Tiplea, F.) Sufficient conditions for the decidability of $s \dot{\rightarrow} t$. 91f:68104
 Kaji, Ikko *see* Kurihara, Masahito, (Not in MR)
 Kalmus, John *see* Dick, Jeremy; et al., 91k:68102
 Kaplan, Stéphane *see* Choppy, Christine; et al., 91k:68101
 Kapur, Deepak (with Sivakumar, G.; Zhang, Hantao) A new method for proving termination of AC-rewrite systems. 91j:68064
 — (with Narendran, Paliath; Otto, Friedrich) On ground-confluence of term rewriting systems. 91h:68099
 Kirchner, Hélène Schematization of infinite sets of rewrite rules generated by divergent completion processes. 91f:68105
 Klop, Jan Willem Term rewriting systems from Church-Rosser to Knuth-Bendix and beyond. (see 91e:68004)
 Kounalis, Emmanuel Testing for inductive (co)-reducibility. (see 91e:68005)
 Kudlek, Manfred Comparison of basic language generating devices (nondeterministic systems). (French summary) 91d:68079
 Kurihara, Masahito (with Kaji, Ikko) Modular term rewriting systems and the termination. (Not in MR)
 Leiss, Hans Polymorphic recursion and semi-unification. (see 91g:68006)
 Lescanne, Pierre On the recursive decomposition ordering with lexicographical status and other related orderings. 91e:68083
 Li, Ke Optimization of rewriting and complexity of rewriting. (see 91g:68001)
 Lincoln, Patrick (with Christian, Jim) Adventures in associative-commutative unification. 91d:68061
 — (with Christian, Jim) Adventures in associative-commutative unification [MR 91d:68061]. (see 91j:68006)
 Lindenstrauss, Naomi *see* Dershowitz, Nachum, (91g:68001)
 de Luca, Aldo *see* Carpi, Arturo, 91h:68096
 Madlener, Klaus (with Otto, Friedrich) About the descriptive power of certain classes of finite string-rewriting systems. 91k:68103
 — *see also* Avenhaus, J., 91h:68095
 Marché, Claude *see* Jouannaud, Jean-Pierre, 91h:68098
 Marcus, Monica (with Păun, Gheorghe) Regulated Galiukshov semicontextual grammars. 91k:68104
 Martin, Ursula (with Nipkow, Tobias) Ordered rewriting and confluence. (see 91g:68004)
 — *see also* Dick, Jeremy; et al., 91k:68102
 Maslugin, C. *see* Jucan, T.; et al., 91f:68104
 (Mitra, Subrata) *see* Dershowitz, Nachum, (91g:68001)
 Narendran, Paliath (with Otto, Friedrich) Some polynomial-time algorithms for finite monadic Church-Rosser Thue systems. 91k:68105
 — (with Otto, Friedrich) Some results on equational unification. (see 91g:68004)
 — *see also* Kapur, Deepak; et al., 91h:68099
 Nesi, M. *see* Inverardi, P., 91f:68103
 Nipkow, Tobias *see* Martin, Ursula, (91g:68004)
 Nutt, Werner Unification in monoidal theories. (see 91g:68004)
 Otto, Friedrich On deciding confluence of finite string-rewriting systems modulo partial commutativity. 91h:68100
 — *see also* Kapur, Deepak; et al., 91h:68099; Madlener, Klaus, 91k:68103; Narendran, Paliath, 91k:68105 and (91g:68004)
 Oyamauchi, Michio The reachability and joinability problems for right-ground term-rewriting systems. 91j:68065
 Păun, Gheorghe *see* Dassow, Jürgen, 91h:68078 and Marcus, Monica, 91k:68104
 Peterson, Gerald E. Complete sets of reductions with constraints. (see 91g:68004)
 Power, A. J. An abstract formulation for rewrite systems. 91a:68153
 Puel, Laurence Using unavoidable set of trees to generalize Kruskal's theorem. 91h:68053
 Ramakrishnan, I. V. *see* Verma, Rakesh M., (91e:68004)
 Reddy, Uday S. Term rewriting induction. (see 91g:68004)
 Sivakumar, G. *see* Kapur, Deepak; et al., 91j:68064 and Dershowitz, Nachum, (91g:68001)
 Soria, Michèle *see* Choppy, Christine; et al., 91k:68101
 Steinbach, Joachim Improving associative path orderings. (see 91g:68004)
 — AC-termination of rewrite systems: a modified Knuth-Bendix ordering. (see 91g:68001)
 Thomas, Muffy (with Jantke, Klaus P.) Inductive inference for solving divergence in Knuth-Bendix completion. 91h:68054
 Tiplea, F. *see* Jucan, T.; et al., 91f:68104
 Toyama, Yoshihito Commutativity of term rewriting systems. 91e:68084
 Verma, Rakesh M. (with Ramakrishnan, I. V.) Nonoblivious normalization algorithms for nonlinear rewrite systems. (see 91e:68004)
 Vorobev, S. G. A structural completeness theorem for a class of conditional rewrite rule systems. 91f:68106
 Wätjen, Dietmar On k -uniformly-limited TOL systems and languages. (German and Russian summaries) 91h:68101
 Zhang, Hantao *see* Kapur, Deepak; et al., 91j:68064
 Zhang, Luo Xin An efficient algorithm to decide whether a monoid presented by a regular Church-Rosser Thue system is a group. 91d:68062
 Zhang, Xubo Overlap closures do not suffice for termination of general term rewriting systems. 91j:68066

Items with secondary classifications in 68Q42

- Bachmair, Leo (with Ganzinger, Harald) On restrictions of ordered paramodulation with simplification. (see 91g:68004)
 Bellegarde, Françoise A matching process modulo a theory of categorical products. (see 91g:68001)
 Benasur, Dan Simultaneous paramodulation. (see 91g:68004)
 Cai, Jiazhen (with Paige, Robert; Tarjan, Robert Endre) More efficient bottom-up tree pattern matching. (see 91e:68005)
 Dougherty, Daniel J. (with Johann, Patricia) An improved general E -unification method. (see 91g:68004)
 Fülöp, Zoltán (with Vágölygi, Sándor) A complete rewriting system for a monoid of tree transformation classes. 91h:68131
 Ganzinger, Harald *see* Bachmair, Leo, (91g:68004)
 Goguen, Joseph A. Semantic specifications for the rewrite rule machine. (see 91k:68004)
 — *see also* Meseguer, José; et al., 91e:68106 and (91j:68006)
 Johann, Patricia *see* Dougherty, Daniel J., (91g:68004)
 Jouannaud, Jean-Pierre (with Kounalis, Emmanuel) Automatic proofs by induction in theories without constructors. 91a:68236
 Kaplan, Stéphane (with Rémy, Jean-Luc) Completion algorithms for conditional rewriting systems. 91j:68076
 Kounalis, Emmanuel *see* Jouannaud, Jean-Pierre, 91a:68236
 Krowinski, Hans-Jörg (with Rozenberg, Grzegorz) On structured graph grammars. II. 91f:68086
 Meseguer, José (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification. 91e:68106
 — Rewriting as a unified model of concurrency. (see 91g:68003)
 — (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification [MR 91e:68106]. (see 91j:68006)
 Narendran, Paliath It is decidable whether a monadic Thue system is canonical over a regular set. 91m:68114
 Paige, Robert *see* Cai, Jiazhen; et al., (91e:68005)
 Rémy, Jean-Luc *see* Kaplan, Stéphane, 91j:68076
 Rozenberg, Grzegorz *see* Krowinski, Hans-Jörg, 91f:68086

- Sénizergues, G. Church-Rosser controlled rewriting systems and equivalence problems for deterministic context-free languages. 91f:68121
- Smolka, Gert see Meseguer, José; et al., 91e:68106 and (91j:68006)
- Snyder, Wayne Higher order E-unification. (see 91g:68004)
- Tarjan, Robert Endre see Cai, Jianzhong; et al., (91e:68005)
- Vágölygi, Sándor see Fülöp, Zoltán, 91h:68131

68Q45 Formal languages [see also 03D05, 20M35, 94A45]

- Abtaev, F. M. On comparing probabilistic and deterministic automata complexity of languages. 91f:68107
- Alexandakis, Athanasios see Bozapalidis, Symeon, 91f:68111
- Allouche, Jean-Paul (with Betrema, J.; Shallit, Jeffrey) Sur des points fixes de morphismes d'un monoïde libre. (English summary) [On the fixed points of morphisms of a free monoid] 91a:68154
- (with Shallit, Jeffrey) The ring of k -regular sequences (extended abstract). (see 91h:68011)
- Anselmo, M. Two-way reading on words. (see 91h:68006)
- Sur les codes zigzag et leur décidabilité. (English summary) [On zigzag codes and their decidability] 91h:68102
- Ash, C. J. (with Hall, T. E.; Pin, Jean-Eric) On the varieties of languages associated with some varieties of finite monoids with commuting idempotents. 91f:68080
- Autebert, Jean-Michel (with Gabarró, Joaquim) Iterated gsm's and co-cl. 91c:68066
- (with Boasson, Luc; Latteux, Michel) Motifs et bases de langages. (English summary) [Motifs and bases of languages] 91c:68083
- Baeten, J. C. M. (with Bergstra, J. A.) Process algebra with a zero object. (see 91g:68003)
- Bagyinszki, János Connections between k -valued logics and formal languages. 91f:68108
- Baker, Kirby A. (with McNulty, George F.; Taylor, Walter) Growth problems for avoidable words. 91f:68109
- Bălănescu, Tudor (with Gheorghe, Marian; Păun, Gheorghe) On fully initial grammars with regulated rewriting. 91d:68063
- Baron, Gerd (with Urbanek, Friedrich) Factorial languages with quadratically upper bounded growth functions and nonlinearly upper bounded subword complexities. 91h:68053
- Beauquier, Danièle Minimal automaton for a factorial, transitive, and rational language. 91a:68155
- Bergstra, J. A. see Baeten, J. C. M., (91g:68003)
- Berstel, Jean (with Reutenauer, Christophe) Zeta functions of formal languages. 91f:68110
- Bertoni, Alberto (with Mauri, Giancarlo; Sabadini, N.) Membership problems for regular and context-free trace languages. 91a:68156
- Betrema, J. see Allouche, Jean-Paul; et al., 91a:68154
- Birget, Jean-Camille Concatenation of inputs in a two-way automaton. 91d:68064
- Two-way automaton computations. (French summary) 91g:68091
- Blanc, Georges see Bluzen-Guermalec, Noëlle, 91b:68056
- Blanchard, F. Codes engendrant certains systèmes sofiques. (English summary) [Codes generating certain sofic systems] 91c:68067
- Bluzen-Guermalec, Noëlle (with Blanc, Georges) Production en temps réel et complexité de structure de suites infinies. (English summary) [Real-time production and structural complexity of infinite sequences] 91h:68056
- On a possible classification of real-time constructed sequences. 91a:68157
- Boasson, Luc see Autebert, Jean-Michel; et al., 91c:68083
- Bozapalidis, Symeon (with Alexandakis, Athanasios) Représentations matricielles des séries d'arbre reconnaissables. (English summary) [Matrix representations of recognizable series on trees] 91f:68111
- Brockett, Roger W. Formal languages for motion description and map making. (see 91i:70003)
- Bruyère, Véronique Completion of finite codes with finite deciphering delay. 91c:68068
- Factorisation des ensembles préfixiels. (English summary) [Factorization of prefix-closed subsets] 91c:68066
- Büchi, J. Richard ★ Finite automata, their algebras and grammars. 91b:68057
- Choffrut, Christian Iterated substitutions and locally catenative systems: a decidability result in the binary case. (see 91e:68004)
- Chytil, Michal P. (with Monien, Burkhard) Caterpillars and context-free languages. 91f:68112
- Clerbout, Mireille Compositions de fonctions de commutation partielle. (English summary) [Compositions of partial commutation functions] 91d:68065
- (with Latteux, Michel; Roos, Yves) Decomposition of partial commutations. (see 91c:68004)
- (with Gonzalez, D.) Decomposition of semicommutations. 91j:68067
- (with Roos, Yves) Semi-commutations and algebraic languages. 91g:68092
- Crochemore, Maxime (with Néraud, Jean) Unitary monoid with two generators: an algorithmic point of view. (see 91c:68005)
- (with Rytter, Wojciech) Parallel construction of minimal suffix and factor automata. 91h:68103
- Csuhaj-Varjú, Erzsébet Some remarks on descriptorial complexity domains of context-free language classes. 91h:68106
- Cucker, Felipe (with Gabarró, Joaquim) Nonrecursive functions have transcendental generating series. (French summary) 91f:68113
- Culik, Karel, II (with Karhumäki, Juhani) Matching computations in (equivalent) automata. (see 91b:68004)
- New techniques for proving the decidability of equivalence problems. 91g:68093
- Dassow, Jürgen On fully initial context-free languages. 91h:68107
- Graph-theoretical properties and chain code picture languages. (German and Russian summaries) 91c:68087
- (with Hinz, Friedhelm) Kettencode-Bildsprachen. Theorie und Anwendungen. [Chain code picture languages. Theory and applications] (Not in MR)
- Dô Long Vân (with Thomas, Donald G.; Subramanian, K. G.; Siromoney, Rani) Bi-infinite codes. (French summary) 91h:68108
- Dulacq, S. (with Gouyou-Beauchamps, D.) Sur les facteurs des suites de Sturm. (English summary) [On the factors of Sturm sequences] 91h:68104
- Duske, Jürgen (with Parchmann, Rainer) On index sets of regulated rewriting. (see 91b:68004)
- Engelfriet, Joost (with Vogler, Heiko) Modular tree transducers: a formal model for specifying syntax-directed semantics in a modular way. (see 91b:68004)
- (Frachia, F. David) see Prusinkiewicz, Przemysław, 91c:68075
- Fujii, Mamoru see Kasami, Tadao; et al., 91c:68073 and (Not in MR)
- Fülöp, Zoltán (with Vágölygi, Sándor) On domains of 2-modular tree transducers. 91d:68067
- (with Vágölygi, Sándor) A finite presentation for a monoid of tree transformation classes. (see 91b:68004)
- (with Vágölygi, Sándor) Iterated deterministic top-down look-ahead. 91h:68058
- (with Vágölygi, Sándor) Top-down tree transducers with deterministic top-down look-ahead. 91d:68066
- Gabarró, Joaquim see Autebert, Jean-Michel, 91c:68066 and Cucker, Felipe, 91f:68113
- Gheorghe, Marian see Bălănescu, Tudor; et al., 91d:68063
- Goldstone, Jonathan (with Kintala, C. M. R.; Wotschke, Detlef) On measuring nondeterminism in regular languages. 91h:68081
- Gonczarowski, Jakob (with Warmuth, Manfred K.) Scattered versus context-sensitive rewriting. 91a:68158
- Gonzalez, D. see Clerbout, Mireille, 91j:68067
- Gornikov, P. V. (with Stavrovskii, A. B.) A subclass of deterministic context-free languages with a decidable inclusion problem. 91g:68094
- Gouyou-Beauchamps, D. see Dulacq, S., 91h:68104
- Guthrod, Roger A transformation system for generating description languages of chain code pictures. 91c:68069
- Habel, Annegret (with Kreowski, Hans-Jörg) Filtering hyperedge-replacement languages through compatible properties. 91c:68088
- Hall, T. E. see Ash, C. J.; et al., 91h:68080
- Hanan, James S. see Prusinkiewicz, Przemysław, 91c:68075
- Hansel, G. (with Perrin, Dominique) Rational probability measures. 91c:68070
- Harjo, Tero (with Kleijn, H. C. M.) Cardinality problems of compositions of morphisms and inverse morphisms. 91a:68159
- Hashiguchi, Kosaburo Algorithms for determining relative star height and star height. 91f:68114
- Hausser, Roland ★ Computation of language. 91h:68109
- Head, Tom (with Lando, Barbara) Eigenwords and periodic behaviors. 91h:68110
- Hinz, Friedhelm The membership problem for context-free chain code picture languages. (see 91h:68011)
- see also Dassow, Jürgen, (Not in MR)
- Honkala, Juha A necessary condition for the rationality of the zeta function of a regular language. 91a:68160
- Hotz, Günter (with Kretschmer, Thomas) The power of the Greibach normal form. (German and Russian summaries) 91a:68161
- Hurd, Lyman P. Nonrecursive cellular automata invariant sets. 91d:68068
- Ibarra, Oscar H. (with Jiang, Tao) Optimal simulation of tree arrays by linear arrays. 91c:68071
- Ito, Masami (with Reis, C. M.) Rees congruences and their generalizations. (see 91b:68004)
- (with Jürgensen, H.; Shih, Hui Jan; Thierrin, Gabriel) Anti-commutative languages and n -codes. 91c:68072
- (with Shih, Hui Jan; Thierrin, Gabriel) Disjunctive languages and compatible orders. (French summary) 91a:68162
- (with Shih, Hui Jan) p -languages and p -representations. (German and Russian summaries) 91h:68111
- Jaffar, Joxan Minimal and complete word unification. 91g:68095
- Jantzen, Matthias (with Kudlek, Manfred; Petersen, Holger; Lange, Klaus-Jörn) Dyck-reductions of context-free languages. (Russian summary) 91m:68103
- Jędrzejowicz, Joanna Infinite hierarchy of shuffle expressions over a finite alphabet. 91j:68068
- Jiang, Tao¹ see Ibarra, Oscar H., 91c:68071
- Jiang, Zhong Hao Strongly dense languages and an equivalent statement of the G.R.T. problem. (Chinese) 91c:68089
- Quasi- f -disjunctive languages and regular ideals. (Chinese. English summary) 91f:68115
- Jürgensen, H. see Ito, Masami¹; et al., 91c:68072
- Kaldewall, Anne (with Zwaan, Gerard) A systolic design for acceptors of regular languages. 91m:68104
- Kandowski, Maciej Stratifiability of product-functorial languages. (Russian summary) 91m:68105
- Karhumäki, Juhani see Culik, Karel, II, (91b:68004)
- Karl, Jarkko Observations concerning a public-key cryptosystem based on iterated morphisms. 91a:68163
- Kasami, Tadao (with Seki, Hiroyuki; Fujii, Mamoru) Generalized context-free grammars and multiple context-free grammars. 91c:68073
- (with Seki, Hiroyuki; Fujii, Mamoru) Membership problem for head languages and multiple context-free languages. (Not in MR)
- Kelemenová, Alice Structural complexity measures on grammar forms. (see 91b:68004)
- Kim, Changwook Picture iteration and picture ambiguity. 91f:68116
- Kim, Sam (with McNaughton, Robert; McCloskey, Robert) An upper bound on the order of locally testable deterministic finite automata. 91d:68069
- Kintala, C. M. R. see Goldstone, Jonathan; et al., 91h:68081
- Kleijn, H. C. M. see Harjo, Tero, 91a:68159
- Kolyada, K. V. Relatively universal regular mappings. (Russian) (see 91h:68013)
- Kortelainen, Juha The conjecture of Fliess on commutative context-free languages. (Not in MR)
- Kounalis, Emmanuel Pumping lemmas for tree languages generated by rewrite systems. (see 91h:68011)
- Kovács, Tibor Inducibility of the composition of frontier-to-root tree transformations. 91h:68059
- Kreowski, Hans-Jörg see Habel, Annegret, 91c:68088
- Kretschmer, Thomas see Hotz, Günter, 91a:68161

- (Krithivasan, Kamala) *see* Prusinkiewicz, Przemysław, 91c:68075
- Krob, Daniel A complete system of β -rational identities. (see 91c:68004)
- Kudlek, Manfred *see* Jantzen, Matthias; et al., 91m:68103
- Kučik, Werner Polynomalgebren, algebraische Systeme und Kellerautomaten. [Polynomial algebras, algebraic systems and Keller automata] 91k:68112
- Labonté, Gilles An algorithm for the construction of matrix representations for finitely presented noncommutative algebras. 91c:68090
- Lafortune, Stéphane (with Yoo, Hyuck) Some results on Petri net languages. 91g:68096
- Lampérth, Gyula Matrix grammars and programmed grammars producing the closures of languages. (see 91b:68004)
- Lando, Barbara *see* Head, Tom, 91k:68110
- Lange, Klaus-Jörn *see* Jantzen, Matthias; et al., 91m:68103
- Lattaux, Michel Rational cones and commutations. 91a:68164
- (with Timmerman, E.) Rational ω -transductions. (see 91b:68011)
- (with Turakainen, Paavo) On characterizations of recursively enumerable languages. 91j:68069
- *see also* Aubert, Jean-Michel; et al., 91c:68085 and Clerbout, Mireille; et al., (91c:68004)
- Li, Lian *see* Wang, Shui Ting, 91f:68125
- (Lindenmayer, Aristid) *see* Prusinkiewicz, Przemysław, 91c:68075
- Litvsky, Igor Rank of rational finitely generated ω -languages. 91a:68165
- Long, Dong Yang k -outfix codes. (Chinese) 91b:68060
- de Luca, Aldo (with Varricchio, Stefano) On noncounting regular classes. (see 91c:68004)
- Ma, Shi Hua Universal ω -context-free grammars and one of their applications. (Chinese) 91d:68070
- Mäkinen, Erkki The grammatical inference problem for the Szilard languages of linear grammars. (Not in MR)
- (Marcus, Solomon) *see* Mateescu, Alexandru, 91c:68091
- Mateescu, Alexandru (with Vaida, Dragos) ★ Structuri matematice discrete. (Romanian) [Discrete mathematical structures] 91c:68091
- (with Păun, Gheorghe) Further remarks on fully initial grammars. 91c:68092
- Mauri, Giancarlo *see* Bertoni, Alberto; et al., 91a:68156
- McCloskey, Robert *see* Kim, Sam; et al., 91d:68069
- McNaughton, Robert *see* Kim, Sam; et al., 91d:68069
- McNulty, George F. *see* Baker, Kirby A.; et al., 91f:68109
- Monies, Burkhard *see* Chytil, Michal P., 91f:68112
- Moulin Ollagnier, Jean Sur quelques classes d'applications de \mathbb{N}^2 dans les ensembles finis. (English summary) [On some classes of mappings of \mathbb{N}^2 into finite sets] 91k:68113
- Nérand, Jean *see* Crochemore, Maxime, (91c:68005)
- Novotný, Miroslav Any linear language is weakly grammaticalizable by means of categories. (Russian summary) 91m:68106
- Constructions of grammars by means of reducing operators. 91d:68071
- Ohrschak, V. A. Codes defined by Church-Rosser systems. (Russian) 91h:68105
- Pachmann, Rainer *see* Duske, Jürgen, (91b:68004)
- Păun, Gheorghe A note on fully initial context-free languages. 91f:68117
- *see also* Balănescu, Tudor; et al., 91d:68063 and Mateescu, Alexandru, 91c:68092
- Pelletier, Maryse Boolean closure and unambiguity of rational sets. (see 91c:68004)
- Perrin, Dominique Partial commutations. 91a:68166
- Arbres et séries rationnelles. (English summary) [Trees and rational power series] 91g:68097
- A conjecture on rational sequences. 91f:68118
- *see also* Hansel, G., 91c:68070
- Petersen, Holger *see* Jantzen, Matthias; et al., 91m:68103
- Petrich, Mario (with Thierrin, Gabriel) The syntactic monoid of an infix code. 91c:68074
- Pierre, Laurent (with Schwer, Sylvianne R.) Rational index of vector addition systems languages. 91a:68167
- Pin, Jean-Eric *see* Ash, C. J.; et al., 91l:68080
- Prusinkiewicz, Przemysław (with Hanan, James S.) ★ Lindenmayer systems, fractals, and plants. 91c:68075
- Ratodromanana, Budonirina Codes et motifs. (English summary) [Codes and motifs] 91f:68119
- Reichel, Bernd A remark on some classifications of Indian parallel languages. 91a:68168
- Some classifications of Indian parallel languages. (German and Russian summaries) 91f:68120
- Reis, C. M. *see* Ito, Masami¹, (91b:68004)
- Restivo, Antonio (with Salemi, S.; Sportelli, T.) Completing codes. (French summary) 91a:68169
- Reutenauer, Christophe *see* Berstel, Jean, 91f:68110
- Roos, Yves Virtually asynchronous automata. (see 91b:68004)
- *see also* Clerbout, Mireille, 91g:68092 and (91c:68004)
- Rytter, Wojciech *see* Crochemore, Maxime, 91h:68103
- Sabadini, N. *see* Bertoni, Alberto; et al., 91a:68156
- Salemi, S. *see* Restivo, Antonio; et al., 91a:68169
- Salomaa, Kai Yield-languages recognized by alternating tree recognizers. (French summary) 91d:68072
- k -parallel context-free grammars. (Finnish. English summary) 91b:68061
- Schwer, Sylvianne R. *see* Pierre, Laurent, 91a:68167
- (Scott, Dana) *see* Hanser, Roland, 91k:68109
- Sébeid, Patrice About a family of binary morphisms which stationary words are Sturmian. (French summary) 91d:68073
- Seki, Hiroyuki *see* Kasami, Tadao; et al., 91c:68073 and (Not in MR)
- Sénizergues, G. Church-Rosser controlled rewriting systems and equivalence problems for deterministic context-free languages. 91f:68121
- Shallit, Jeffrey *see* Allouche, Jean-Paul; et al., 91a:68154 and (91b:68011)
- Shih, Hui Jan (with Yü, Shih Sheng) Solid codes and disjunctive domains. 91g:68098
- *see also* Ito, Masami¹; et al., 91a:68162; 91c:68072 and 91k:68111
- (Siefkes, Dirk) *see* Büchi, J. Richard, 91b:68057
- Siromoney, Rani *see* Đỗ Long Vân; et al., 91k:68108
- Spehner, Jean-Claude Sur les automates qui reconnaissent une famille de langages. (English summary) [Automata that recognize a family of languages] 91a:68170
- Sportelli, T. *see* Restivo, Antonio; et al., 91a:68169
- Stanevichene, L. I. A method for studying context-free languages. (Russian. English summary) 91c:68076
- Starovskii, A. B. *see* Gershkov, P. V., 91g:68094
- Steinby, Magnus A formal theory of errors in tree representations of patterns. (German and Russian summaries) 91f:68122
- Straubing, Howard (with Thierrin, Denis; Thomas, Wolfgang) Regular languages defined with generalized quantifiers. 91h:68106
- Stroganov, A. S. Regular languages with polynomial growth in the number of words. (Russian) 91j:68070
- Subramanian, K. G. *see* Đỗ Long Vân; et al., 91k:68108
- Tanaka, Genjro Alternating product of prefix codes. 91c:68093
- Taylor, Walter *see* Baker, Kirby A.; et al., 91f:68109
- Terlutte, Alain On the rational cone generated by EDTOL. 91g:68099
- Cyclic rational transductions and polynomials of rational functions. 91c:68077
- Thierrin, Denis *see* Straubing, Howard; et al., 91h:68106
- Thierrin, Gabriel *see* Ito, Masami¹; et al., 91a:68162; 91c:68072 and Petrigh, Mario, 91c:68074
- Thomas, Donald G. *see* Đỗ Long Vân; et al., 91k:68108
- Thomas, Wolfgang Computation tree logic and regular ω -languages. 91f:68123
- *see also* Straubing, Howard; et al., 91h:68106
- Timmerman, E. The three subfamilies of rational ω -languages closed under ω -transduction. (French summary) 91j:68071
- *see also* Lattaux, Michel, (91b:68011)
- Tirri, Seppo The congruence theory of closure properties of regular tree languages. 91j:68072
- Turakainen, Paavo The equivalence of DGSN replications of Q -rational languages is decidable. 91a:68171
- *see also* Lattaux, Michel, 91j:68069
- Tura, Zolt Periodic string division generated by deterministic L systems. 91f:68124
- Unruh, Erwin *see* Wäjen, Dietmar, 91m:68108
- Urbanek, Friedrich Sprachgleichungen und ein Spiel mit Wörtern. [Language equations and a game with words] 91m:68107
- *see also* Baron, Gerd, 91h:68055
- Uyen, Pham Hsu A stronger version of Parikh theorem. (see 91b:68011)
- Vágvölgyi, Sándor *see* Fülöp, Zoltán, 91b:68058; 91d:68066; 91d:68067 and (91b:68004)
- Vaida, Dragos *see* Mateescu, Alexandru, 91c:68091
- Varricchio, Stefano *see* de Luca, Aldo, (91c:68004)
- Vogler, Heiko *see* Engelfriet, Joost, (91b:68004)
- Walters, R. F. C. A note on context-free languages. 91c:68094
- Wang, Shui Ting (with Li, Lian) Minimum finite branching automata. (Chinese. English summary) 91f:68125
- Wanke, Egon (with Wieggers, Manfred) Undecidability of the bandwidth problem on linear graph languages. 91c:68078
- Warmuth, Manfred K. *see* Gonczarowski, Jakob, 91a:68158
- Wäjen, Dietmar (with Unruh, Erwin) On extended k -uniformly-limited TOL systems and languages. (German and Russian summaries) 91m:68108
- Weil, Pascal On varieties of languages closed under products with counter. (French summary) 91b:68062
- Inverse monoids of dot-depth two. (French summary) 91a:68172
- Wieggers, Manfred *see* Wanke, Egon, 91c:68078
- Wotschke, Detlef *see* Goldstone, Jonathan; et al., 91c:68081
- Yoo, Hyuck *see* Lafortune, Stéphane, 91g:68096
- Yu, Sheng A pumping lemma for deterministic context-free languages. 91a:68173
- Yü, Shih Sheng Quasi-completely right disjunctive languages. 91b:68082
- *see also* Shih, Hui Jan, 91g:68098
- Zhif'tsova, L. P. Complexity of algorithmic problems of coding languages for various classes of coding mappings. (Russian) (see 91g:68032)
- Algorithmic complexity of problems of optimal alphabetical coding for context-free languages. (Russian) 91f:68126
- Zwaan, Gerard *see* Kaldewaij, Anne, 91m:68104

Items listed otherwise than by author

Obituary:

Büchi, J. Richard *see* Büchi, J. Richard, 91b:68057

Items with secondary classifications in 68Q45

- Abramson, Harvey (with Dahl, Verónica) ★ Logic grammars. 91b:68084
- Alberts, Märis Interrogative complexity of ω -languages' recognition. (see 91h:68011)
- Almeida, Jorge Equations for pseudovarieties. 91c:00015
- Anselmo, M. Two-way automata with multiplicity. (see 91c:68004)
- Babcsányi, István Maximal prefix codes and strongly connected automata. (see 91b:68004)
- Bagyinszki, János (with Bagyinszkiné-Orosz, Anna) On a hierarchy of super-net languages. 91f:68048
- Bagyinszkiné-Orosz, Anna *see* Bagyinszki, János, 91f:68048
- Barrington, David A. Mix (with Corbett, James) On the relative complexity of some languages in NC^1 . 91b:68033
- Bauderon, Michel Graphs defined by expressions and graphs defined by equations. (see 91j:68004)
- Bergstra, J. A. (with Klop, Jan Willem; Olderog, E.-R.) Readies and failures in the algebra of communicating processes. 91b:68025
- Causal, Didier On the regular structure of prefix rewriting. (see 91c:68005)
- Chandra, Ashok K. (with Tompa, Martin) The complexity of short two-person games. 91j:68042
- Chen, Enke *see* Lafortune, Stéphane, 91g:68049
- Clote, Peter G. (with Kranakis, Evangelos) Boolean functions, invariance groups, and parallel complexity. 91m:68056
- Corbett, James *see* Barrington, David A. Mix, 91b:68033
- Courcelle, Bruno The definability of equational graphs in monadic second-order logic. 91a:03059

- Csuhaj-Varjú, Erzsébet (with Dassow, Jürgen) On cooperating/distributed grammar systems. (German and Russian summaries) **91g:68101**
- Culik, Karel, II (with Harju, Tero) Dominoes and the regularity of DNA splicing languages. **91h:92016**
- Dahl, Verónica see Abramson, Harvey, **91h:68084**
- Damm, Carsten Problems complete for $\oplus L$. (see **91h:68006**)
- Dang Huy Ruân Upper bounds on finite-automaton complexity for generalized regular expressions in a one-letter alphabet. (Russian) **91d:68031**
- Dassow, Jürgen see Csuhaj-Varjú, Erzsébet, **91g:68101**
- Dwork, Cynthia (with Stockmeyer, Larry) A time complexity gap for two-way probabilistic finite-state automata. **91k:68148**
- Flé, Marie-Paule Serialization of concurrent programs. **91a:68186**
- Fülöp, Zoltán (with Vágvolgyi, Sándor) A complete rewriting system for a monoid of tree transformation classes. **91h:68131**
- (with Vágvolgyi, Sándor) The emptiness problem is undecidable for domains of partial monadic 2-modular tree transformations. **91k:03098**
- Gastin, Paul Infinite traces. **91k:68048**
- Un modèle asynchrone pour les systèmes distribués. (English summary) [An asynchronous model for distributed systems] **91h:68021**
- Geniet, Dominique (with Thimonier, Loys) Using generating functions to compute concurrency. **91c:68026**
- Gruska, Jozef Synthesis, structure and power of systolic computations. **91i:68022**
- Gualana, G. (with Restivo, Antonio; Salemi, S.) Complete subgraphs of bipartite graphs and applications to trace languages. (French summary) **91i:68032**
- Guessarian, Irène A characterization of fair computations of finite state SCCS processes. **91c:68027**
- (with Niar-Dinedane, Wafaa) Fairness and regularity for SCCS processes. (French summary) **91d:68018**
- Harju, Tero see Culik, Karel, II, **91h:92016**
- Heibisch, Udo The Kleene theorem in countably complete semirings. **91i:68104**
- Hsu, S. C. (with Ito, Masami; Shih, Hui Jan) Some properties of overlapping order and related languages. **91g:20096**
- Hurd, Lyman P. Recursive cellular automata invariant sets. **91g:68126**
- Ishizaka, Hiroki Learning simple deterministic languages. (see **91e:68014**)
- Ito, Masami¹ see Hsu, S. C.; et al., **91g:20096**
- Iványi, Antal (with Tóth, Zoltán) Existence of de Bruijn words. **91k:05016**
- Jirásková, Galina Chomsky hierarchy and communication complexity. **91a:68095**
- Kelemenová, Allica Size of position restricted grammars. **91h:68107**
- Klop, Jan Willem see Bergstra, J. A.; et al., **91h:68025**
- Korec, Ivan Pascal triangles modulo n and modular trellises. (Russian summary) **91f:68129**
- Kranakis, Evangelos see Clote, Peter G., **91m:68056**
- Kudlek, Manfred Comparison of basic language generating devices (nondeterministic systems). (French summary) **91i:68079**
- Kulch, Werner ω -continuous semirings, algebraic systems and pushdown automata. (see **91c:68004**)
- Kutylowski, Mirosław Computational power of one-way multihead finite automata. (see **91h:68011**)
- One-way multihead finite automata and 2-bounded languages. **91h:68134**
- (with Lisiewicz, Maciej; Loryś, Krzysztof) Reversal complexity classes for alternating Turing machines. **91g:68039**
- Lafont, Stéphane (with Chen, Enke) The informal closed controllable superlanguage and its application in supervisory control. **91c:93049**
- Lallement, Gérard J. (with McFadden, Robert B.) On the determination of Green's relations in finite transformation semigroups. **91i:20076**
- Lambek, J. On a connection between algebra, logic and linguistics. (French summary) **91m:03030**
- Latch, Dana May An application of minimal context-free intersection partitions to rewrite rule consistency checking. **91c:68097**
- Lippert, D. Interval temporal logic and star-free expressions. **91c:68091**
- Lisiewicz, Maciej see Kutylowski, Mirosław; et al., **91g:68039**
- Litov, Bruce E. Parallel complexity of the regular code problem. **91f:68091**
- Loryś, Krzysztof see Kutylowski, Mirosław; et al., **91g:68039**
- de Luca, Aldo (with Varricchio, Stefano) Some combinatorial properties of factorial languages. **91f:20073**
- Marcus, Monica (with Păun, Gheorghe) Regulated Galiukschov semicontextual grammars. **91k:68104**
- McFadden, Robert B. see Lallement, Gérard J., **91i:20076**
- Monti, A. (with Parente, D.) Comparison results for particular systolic tree automata. **91m:68053**
- Moriya, Etsuro A grammatical characterization of alternating pushdown automata. **91a:68100**
- Mundhenk, Martin (with Schuler, Rainer) Nonuniform complexity classes and random languages. (see **91k:68006**)
- Niar-Dinedane, Wafaa see Guessarian, Irène, **91d:68018**
- Nivat, Maurice see Priese, Lutz, **91a:68081**
- Nordahl, Mats G. Formal languages and finite cellular automata. (Not in MR)
- Olderogge, E.-R. see Bergstra, J. A.; et al., **91h:68025**
- Orman, Gabriel V. Alternating generation of the words by a phrase-structure grammar—conceptual aspects. (Romanian summary) (Not in MR)
- Parente, D. see Monti, A., **91m:68053**
- Păun, Gheorghe see Marcus, Monica, **91k:68104**
- Piperno, Adolfo Abstraction problems in combinatory logic: a compositional approach. **91k:03031**
- Priese, Lutz (with Nivat, Maurice) On the existence of fair schedulers. **91a:68081**
- Prusinkiewicz, Przemysław (with Sandness, Glen) Attractors and repellers of Koch curves. (French summary) **91h:58114**
- Rauzy, G. Sequences defined by iterated morphisms. **91d:28038**
- Reinhardt, Klaus Hierarchies over the context-free languages. **91j:03053**
- Restivo, Antonio Codes and automata. **91k:94024**
- see also Gualana, G.; et al., **91i:68032**
- Rudeanu, Sergiu Behaviouristic automata. I. Minimal automata. **91m:68132**
- Rupert, C. P. Equidivisible Kleene monoids and the Elgot-Mezzi theorem. **91c:20048**
- Safarov, S. S. ★ Ограниченные контекстно-свободные языки и сети Петри. (Russian) [Bounded context-free languages and Petri nets] **91c:68098**
- Sahab, N. Concurrency measure in commutation monoids. (French summary) **91a:68083**
- Salemi, S. see Gualana, G.; et al., **91i:68032**
- Salomaa, Arto Many aspects of formal languages. (Not in MR)
- Sandness, Glen see Prusinkiewicz, Przemysław, **91h:58114**
- Săntean, Lila A hierarchy of unary primitive recursive string-functions. **91j:03054**
- Saadati, A. Pushdown automata on infinite trees and omega-Kleene closure of context-free tree sets. **91i:68013**
- Schuler, Rainer see Mundhenk, Martin, **(91k:68006)**
- Seidl, Helmut On the finite degree of ambiguity of finite tree automata. **91a:68064**
- Equivalence of finite-valued bottom-up finite state tree transducers is decidable. (see **91c:68005**)
- Shih, Hui Jan see Hsu, S. C.; et al., **91g:20096**
- Simion, Rodica E. Finite automata for languages of combinatorial interest: an order theoretical point of view. **91c:05009**
- Simon, Imre Properties of factorization forests. **91f:20074**
- Slobodová, Anna One-way globally deterministic synchronized alternating finite automata recognize exactly deterministic context-sensitive languages. **91h:68048**
- Staiger, Ludwig Kolmogorov complexity and Hausdorff dimension. **91h:68052**
- Combinatorial properties of the Hausdorff dimension. **91f:11056**
- Steinhilber, Magnus Towards a formal theory of errors in pattern trees. (see **91h:68004**)
- Stockmeyer, Larry see Dwork, Cynthia, **91k:68148**
- Stranberg, Howard The wreath product and its applications. **91h:20090**
- (Studer, R.) see Natural language and logic, **91h:68012**
- (Thayse, André) see From modal logic to deductive databases, **91h:68113**
- Thimonier, Loys see Geniet, Dominique, **91c:68026**
- Thomas, Wolfgang Automata and quantifier hierarchies. **91f:03082**
- Tompa, Martin see Chandra, Ashok K., **91j:68042**
- Tóth, Zoltán see Iványi, Antal, **91k:05016**
- Vágvolgyi, Sándor see Fülöp, Zoltán, **91h:68131** and **91k:03098**
- Varricchio, Stefano see de Luca, Aldo, **91f:20073**
- Vazhenin, Yu. M. Language-based and abstract hierarchies. **91m:03047**
- Wäjen, Dietmar On k -uniformly-limited TOL systems and languages. (German and Russian summaries) **91h:68101**
- Weil, Pascal An extension of the Schützenberger product. (see **91h:00030**)
- Yamasaki, Hideki Language-theoretical representations of ω -languages. **91a:68204**
- Yokomori, Takashi Learning context-free languages efficiently. A report on recent results in Japan. **91a:68228**
- Zielonka, Wiesław Safe executions of recognizable trace languages by asynchronous automata. **91f:68056**

Items listed otherwise than by author

Complexity theory and related topics ★ Keisanryō riron to sono shūhen. (Japanese)

[Complexity theory and related topics] **91c:68006**

From modal logic to deductive databases ★ From modal logic to deductive databases.

91h:68113

Hamburg ★ Natural language and logic. **91h:68012**

Lecture Notes in Computer Science ★ Natural language and logic. **91h:68012**

Natural language and logic ★ Natural language and logic. **91h:68012**

Symposium:

Complexity Theory and Related Topics ★ Keisanryō riron to sono shūhen. (Japanese)

[Complexity theory and related topics] **91c:68006**

Natural Language and Logic ★ Natural language and logic. **91h:68012**

68Q50 Grammars [see also 03D05]

Aalbersberg, Ljbrand Jan (with Engelfriet, Joost; Rozenberg, Grzegorz) The complexity of

regular DNLC graph languages. **91h:68083**

Abramson, Harvey (with Dahl, Verónica) ★ Logic grammars. **91h:68084**

op den Akker, Rieks On LC(0) grammars and languages. **91f:68127**

— (with Melichar, Bořivoj; Tärhio, Jorma) The hierarchy of LR-attributed grammars. (see

91h:68007)

Altman, Tom (with Logothetis, George) A note on ambiguity in context-free grammars.

91g:68100

Baeten, J. C. M. (with Bergstra, J. A.; Klop, Jan Willem; Weijland, W. P.) Term-rewriting

systems with rule priorities. **91h:68063**

Bauderon, Michel Graphs defined by expressions and graphs defined by equations. (see

91h:68004)

Bergstra, J. A. see Baeten, J. C. M.; et al., **91h:68063**

Billard, Michel (with Lafon, Pierre; Métivier, Yves; Sopena, Eric) Graph rewriting systems

with priorities. (see **91h:68006**)

Bryant, Barrett R. see Dey, Pradipt; et al., (Not in MR)

Bündgen, Reinhard (with Küchlin, Wolfgang) Computing ground reducibility and

inductively complete positions. (see **91f:68006**)

Buszukowski, Wojciech On generative capacity of the Lambek calculus. **91m:68109**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

Casacuberta Nolla, Francisco see García Forner, Ana; et al., **91m:68111**

- Das Nam An'** Convergence of a parallel context-controllable analyzer. (Russian) (Not in MR)
- Darlington, John** (with Guo, Yi Ke) Narrowing and unification in functional programming—an evaluation mechanism for absolute set abstraction. (see 91f:68006)
- Dassow, Jürgen** (with Păun, Gheorghe) On some variants of cooperating/distributed grammar systems. 91h:68114
— see also Csanaj-Varij, Erzsébet, 91f:68128 and 91g:68101
- Dauchet, Max** see Coquidé, Jean-Luc; et al., 91b:68064
- Dey, Pradip** (with Bryant, Barrett R.; Takaoka, Tadao) Lexical ambiguity in tree adjoining grammars. (Not in MR)
- Duske, Jürgen** see Parchmann, Rainer, 91c:68098
- Engelfriet, Joost** Context-free NCE graph grammars. 91b:68065
— (with Filé, Gilberto) Passes, sweeps, and visits in attribute grammars. (Not in MR)
— (with de Jong, Willem) Attribute storage optimization by stacks. (Not in MR)
— (with Rozenberg, Grzegorz) A comparison of boundary graph grammars and context-free hypergraph grammars. 91h:68115
— (with Leih, George; Weitz, Emo) Boundary graph grammars with dynamic edge relabeling. 91b:68085
— see also Aalbersberg, Ljbrand Jan; et al., 91f:68083
- Fang, Ding Yi** (with Gu, Yuan Xiang) Design of two-level attribute grammars. (Chinese. English summary) (Not in MR)
- Filé, Gilberto** see Engelfriet, Joost, (Not in MR)
- Fribourg, Laurent** A strong restriction of the inductive completion procedure. 91b:68066
- Gallier, Jean H.** (with Snyder, Wayne) Complete sets of transformations for general E -unification. 91c:68116
- García Fornes, Ana** (with Ruiz Calomarde, Antonio; Casacuberta Nolla, Francisco; Vidal Ruiz, Enrique) Discriminant grammars and generalized linear discriminant functions. (Spanish) 91m:68111
- Giegerich, Robert** Code selection by inversion of order-sorted derivors. 91m:68112
- Glushkova, V. N.** A-coverings for context-free grammars. 91j:68073
- Goguen, Joseph A.** What is unification? A categorical view of substitution, equation and solution. 91j:68074
- Gorodetskiĭ, V. I.** (with Tarakanov, A. O.) Planning computations on the basis of a deduction in attributive context-free grammar. (Russian) (see 91h:00024)
- Gu, Yuan Xiang** see Fang, Ding Yi, (Not in MR)
- Guo, Yi Ke** see Darlington, John, (91f:68006)
- Gyimóthy, T.** (with Kocsis, F.) Incremental generation of the LL(1) parsing table. (see 91b:68004)
- Habel, Annegret** (with Kreowski, Hans-Jörg; Vogler, Walter) Metatheorems for decision problems on hyperedge replacement graph languages. 91c:68079
- Hemerik, C.** (with Katoen, J. P.) Bottom-up tree acceptors. 91b:68067
- Hoffmann, Jochen** (with Main, Michael G.) Results on NLC grammars with one-letter terminal alphabets. 91j:68075
- Janssens, Dirk Marcel** (with Rozenberg, Grzegorz) Actor grammars. 91c:68095
- de Jong, Willem** see Engelfriet, Joost, (Not in MR)
- Kaplan, Stéphane** (with Rémy, Jean-Luc) Completion algorithms for conditional rewriting systems. 91j:68076
— (with Choppy, Christine) Abstract rewriting with concrete operators. (see 91f:68006)
- Karner, Georg** A note on terminal balancing of algebraic systems. 91j:68077
- Katoen, J. P.** see Hemerik, C., 91b:68067
- Kawahara, Yasuo** Pushout-complements and basic concepts of grammars in toposes. 91b:68013
- Klemenová, Alica** Size of position restricted grammars. 91h:68107
- Klop, Jan Willem** see Baeten, J. C. M.; et al., 91b:68063
- Kocsis, F.** see Gyimóthy, T., (91b:68004)
- Korec, Ivan** Pascal triangles modulo n and modular trellises. (Russian summary) 91f:68129
- Kreowski, Hans-Jörg** (with Rozenberg, Grzegorz) On structured graph grammars. I. 91c:68096
— (with Rozenberg, Grzegorz) On structured graph grammars. II. 91b:68086
— see also Habel, Annegret; et al., 91c:68079
- Kružík, František** Reducibility and correspondences of pure generalized grammars. (Russian and Czech summaries) 91c:68080
- Küchlin, Wolfgang** see Bändgen, Reinhard, (91f:68006)
- Lafon, Pierre** see Billand, Michel; et al., (91b:68006)
- Lai, Mike** On how to move mountains "associatively and commutatively". (see 91f:68006)
- Latch, Dana May** An application of minimal context-free intersection partitions to rewrite rule consistency checking. 91c:68097
— (with Sigal, Ron) A local termination property for term rewriting systems. (see 91f:68006)
- Leih, George** see Engelfriet, Joost; et al., 91b:68085
- Lagoutetis, George** see Altman, Tom, 91g:68100
- Main, Michael G.** (with Rozenberg, Grzegorz) Edge-label controlled graph grammars. 91g:68102
— see also Hoffmann, Jochen, 91j:68075
- Mäkinen, Erkki** On breadth-first context-free grammars. (German and Russian summaries) 91d:68087
- Márkus, Tibor** On the parsing of reduced LC(1) grammars. (see 91a:68005)
- Martelli, Alberto** (with Rossi, Gianfranco; Moiso, C.) Lazy unification algorithms for canonical rewrite systems. (see 91b:68010)
- Meduna, Alexander** Context free derivations on word monoids. 91b:68088
- Melicher, Botivo** see op den Akker, Rieks; et al., (91b:68007)
- Métivier, Yves** see Billand, Michel; et al., (91b:68006)
- Middelburg, Aart** Modular aspects of properties of term rewriting systems related to normal forms. (see 91f:68006)
- Mohan, Chikuri K.** Priority rewriting: semantics, confluence, and conditionals. (see 91f:68006)
- (with Srivas, Mandayam K.) Negation with logical variables in conditional rewriting. (see 91f:68006)
- Moiso, C.** see Martelli, Alberto; et al., (91b:68010)
- Narendran, Paliath** It is decidable whether a monadic Thue system is canonical over a regular set. 91m:68114
- Orman, Gabriel V.** Alternating generation of the words by a phrase-structure grammar—conceptual aspects. (Romanian summary) (Not in MR)
- Otto, Friedrich** Restrictions of congruences generated by finite canonical string-rewriting systems. (see 91f:68006)
- Pan, Pei Chen** A parsing algorithm for general context-free grammars. (Chinese. English summary) (Not in MR)
- Parchmann, Rainer** (with Duske, Jürgen) The structure of index sets and reduced indexed grammars. (French summary) 91c:68098
- Păun, Gheorghe** Some further remarks on regular controlled apical growth filamentous systems. 91b:68108
— Parallel communicating grammar systems: the context-free case. 91d:68074
— On a class of valence grammars. 91h:68109
— see also Dassow, Jürgen, 91k:68114
- Pawagi, Shaunak** see Sekar, R. C.; et al., (91f:68006)
- Penjam, Jaan** Computational and attribute models of formal languages. 91d:68075
- Puel, Laurence** Embedding with patterns and associated recursive path ordering. (see 91f:68006)
- Ramakrishnan, I. V.** see Sekar, R. C.; et al., (91f:68006)
- Reddy, Uday S.** Rewriting techniques for program synthesis. (see 91f:68006)
- Rémy, Jean-Luc** see Kaplan, Stéphane, 91j:68076
- Rossi, Gianfranco** see Martelli, Alberto; et al., (91b:68010)
- Rozenberg, Grzegorz** see Janssens, Dirk Marcel, 91c:68095; Kreowski, Hans-Jörg, 91c:68096; Main, Michael G., 91g:68102; Aalbersberg, Ljbrand Jan; et al., 91f:68083; Kreowski, Hans-Jörg, 91b:68086 and Engelfriet, Joost, 91b:68115
- Ruiz Calomarde, Antonio** see García Fornes, Ana; et al., 91m:68111
- Sakakibara, Yasubumi** Learning context-free grammars from structural data in polynomial time. 91f:68089
- Sekar, R. C.** (with Pawagi, Shaunak; Ramakrishnan, I. V.) Transforming strongly sequential rewrite systems with constructors for efficient parallel execution. (see 91f:68006)
- Sideris, Martha** On attribute grammars without attribute synthesis. 91f:68130
- Sigal, Ron** see Latch, Dana May, (91f:68006)
- Snyder, Wayne** see Gallier, Jean H., 91b:68116
- Sopena, Eric** see Billand, Michel; et al., (91b:68006)
- Srivas, Mandayam K.** see Mohan, Chikuri K., (91f:68006)
- Steinbach, Joachim** Extensions and comparison of simplification orderings. (see 91f:68006)
- Strandh, Robert I.** Classes of equational programs that compile into efficient machine code. (see 91f:68006)
- Takaoka, Tadao** see Dey, Pradip; et al., (Not in MR)
- Takashi, Takushi** Definite-clause set grammars: a formalism for problem solving. (Not in MR)
- Tarakanov, A. O.** see Gorodetskiĭ, V. I., (91h:00024)
- Tarhio, Jorma** Uncle-attributed grammars. 91c:68099
— see also op den Akker, Rieks; et al., (91b:68007)
- Tison, Sophie** Fair termination is decidable for ground systems. (see 91f:68006)
— see also Coquidé, Jean-Luc; et al., 91b:68064
- Todorova, Magdalena** Determination of classes of reduction sequences in generalized subtree replacement systems. (Russian summary) 91b:68068
- Vidal Ruiz, Enrique** see García Fornes, Ana; et al., 91m:68111
- Vogler, Walter** On hyperedge replacement and BNLC graph grammars. 91c:68100
— see also Habel, Annegret; et al., 91c:68079
- Vorob'ev, S. G.** Conditional rewrite rule systems with built-in arithmetic and induction. (see 91f:68006)
- Weijland, W. P.** see Baeten, J. C. M.; et al., 91b:68063
- Weitz, Emo** see Engelfriet, Joost; et al., 91b:68085
- You, Jia-Huai** Enumerating outer narrowing derivations for constructor-based term rewriting systems [MR 90d:68046]. (see 91j:68006)

Items with secondary classifications in 68Q50

- Abdulah, Habib** (with Pécuchet, Jean-Pierre) On word equations and Makanin's algorithm. 91b:68091
— (with Pécuchet, Jean-Pierre) Solving word equations. 91b:68092
— (with Pécuchet, Jean-Pierre) Solving word equations [MR 91b:68092]. (see 91j:68006)
- Baeten, J. C. M.** (with Bergstra, J. A.) Process algebra with a zero object. (see 91g:68003)
- Baird, Timothy B.** (with Peterson, Gerald E.; Wilkerson, Ralph W.) Complete sets of reductions modulo associativity, commutativity and identity. (see 91f:68006)
- Bălanescu, Tudor** (with Gheorghe, Marian; Păun, Gheorghe) On fully initial grammars with regulated rewriting. 91d:68063
- van Benthem, Johan** Categorical grammar and type theory. 91b:63053
- Bergstra, J. A.** see Baeten, J. C. M., (91g:68003)
- Bertling, Hubert** (with Ganzinger, Harald) Completion-time optimization of rewrite-time goal solving. (see 91f:68006)
- Birget, Jean-Camille** Two-way automaton computations. (French summary) 91g:68091
- Bürckert, Hans-Jürgen** (with Herold, Alexander; Schmidt-Schauss, Manfred) On equational theories, unification, and (un)decidability [MR 90j:03022]. (see 91j:68006)
- Causal, Didier** A fast algorithm to decide on simple grammars equivalence. 91c:68038
- Clérbois, Mireille** Compositions de fonctions de commutation partielle. (English summary) [Compositions of partial commutation functions] 91d:68065
- Comon, Hubert** Inductive proofs by specification transformations. (see 91f:68006)
- Courcelle, Bruno** The monadic second-order logic of graphs. I. Recognizable sets of finite graphs. 91g:05107
- Dauchet, Max** Simulation of Turing machines by a left-linear rewrite rule. (see 91f:68006)
- Dershowitz, Nachum** see Rewriting techniques and applications, 91f:68006
- Dill, Jens M.** A counterexample for "A simpler construction for showing the intrinsically exponential complexity of the circularity problem for attribute grammars" [J. Assoc. Comput. Mach. 28 (1981), no. 4, 715–720; MR 83k:68030] by M. Jazayeri. 91b:68059
- Duske, Jürgen** (with Parchmann, Rainer) On index sets of regulated rewriting. (see 91b:68004)

- Engelfriet, Joost (with Vogler, Heiko) Modular tree transducers: a formal model for specifying syntax-directed semantics in a modular way. (see 91b:68004)
- Fujii, Mamoru see Kasami, Tadao; et al., 91c:68073
- Fülöp, Zoltán (with Vágölyi, Sándor) A complete rewriting system for a monoid of tree transformation classes. 91h:68131
- Ganzinger, Harald see Bertling, Hubert, (91f:68006)
- Gardarin, Georges (with Guessarian, Irène; de Maindreville, Christophe) Translation of logic programs into functional fixpoint equations. 91d:68111
- Garland, Stephen J. (with Gutttag, John V.) An overview of LP, the Larch prover. (see 91f:68006)
- Gheorghe, Marian see Bălanescu, Tudor; et al., 91d:68063
- Guessarian, Irène see Gardarin, Georges; et al., 91d:68111
- Gutttag, John V. see Garland, Stephen J., (91f:68006)
- Habel, Annegret (with Kreowski, Hans-Jörg) Filtering hyperedge-replacement languages through compatible properties. 91c:68088
- Hausser, Roland ★ Computation of language. 91k:68109
- Herold, Alexander see Bärkert, Hans-Jürgen; et al., (91j:68006)
- (Jazayeri, Mehdi) see Dill, Jens M., 91c:68059
- Jebelen, Tudor Bilinear automata. 91h:68133
- Jucan, T. see Tiplea, F.; et al., 91c:68099
- Kapur, Deepak see Zhang, Hantao, (91f:68006)
- Kasami, Tadao (with Seki, Hiroyuki; Fujii, Mamoru) Generalized context-free grammars and multiple context-free grammars. 91c:68073
- Kreowski, Hans-Jörg see Habel, Annegret, 91c:68088
- Kudlek, Manfred Comparison of basic language generating devices (nondeterministic systems). (French summary) 91b:68079
- Kulch, Werner Polynomalgebren, algebraische Systeme und Kellerautomaten. [Polynomial algebras, algebraic systems and Keller automata] 91k:68112
- de Maindreville, Christophe see Gardarin, Georges; et al., 91d:68111
- Marcus, Monica (with Păun, Gheorghe) Regulated Galiuschov semicontextual grammars. 91k:68104
- Martin, Ursula A geometrical approach to multiset orderings. 91b:68006
- Maslagiu, C. see Tiplea, F.; et al., 91c:68099
- Mateescu, Alexandru (with Păun, Gheorghe) Further remarks on fully initial grammars. 91c:68092
- McNulty, George F. An equational logic sampler. (see 91f:68006)
- Moriya, Etsuro A grammatical characterization of alternating pushdown automata. 91a:68100
- Moulin Ollaguer, Jean Sur quelques classes d'applications de N^2 dans les ensembles finis. (English summary) [On some classes of mappings of N^2 into finite sets] 91k:68113
- Narain, Sanjal Optimization by nondeterministic lazy rewriting. (see 91f:68006)
- Nipkow, Tobias Combining matching algorithms: the regular case. (see 91f:68006)
- Novotný, Miroslav Any linear language is weakly grammarizable by means of categories. (Russian summary) 91m:68106
- Parchmann, Rainer see Dunke, Jürgen, (91b:68004)
- Păun, Gheorghe see Bălanescu, Tudor; et al., 91d:68063; Mateescu, Alexandru, 91c:68092 and Marcus, Monica, 91k:68104
- Pécuchet, Jean-Pierre see Abdulrah, Habib, 91b:68091; 91b:68092 and (91j:68006)
- Peterson, Gerald E. see Baird, Timothy B.; et al., (91f:68006)
- Reichel, Bernd Some classifications of Indian parallel languages. (German and Russian summaries) 91f:68120
- Salomaa, Kai Yield-languages recognized by alternating tree recognizers. (French summary) 91d:68072
- k -parallel context-free grammars. (Finnish. English summary) 91b:68061
- Sarni, Djamil Lambda-calculus on occurrence. The theory and its combinatorial counterpart. (German and Russian summaries) 91c:68043
- Schmidt-Schauss, Manfred see Bärkert, Hans-Jürgen; et al., (91j:68006)
- (Scott, Dana) see Hausser, Roland, 91k:68109
- Seki, Hiroyuki see Kasami, Tadao; et al., 91c:68073
- Siekman, Jörg H. Unification theory [MR 90j:03024]. (see 91j:68006)
- Snyder, Wayne Efficient ground completion: an $O(n \log n)$ algorithm for generating reduced sets of ground rewrite rules equivalent to a set of ground equations E . (see 91f:68006)
- Tiplea, F. (with Jucan, T.; Maslagiu, C.) Term rewriting systems and P/T-nets. 91c:68099
- Tirri, Seppo The congruence theory of closure properties of regular tree languages. 91j:68072
- Unruh, Erwin see Wätjen, Dietmar, 91m:68108
- Vágölyi, Sándor see Fülöp, Zoltán, 91h:68131
- Vogler, Heiko see Engelfriet, Joost, (91b:68004)
- Verob'ev, S. G. Use of conditional term rewriting systems in automatic theorem proving. I. (Not in MR)
- Walters, R. F. C. A note on context-free languages. 91c:68094
- Wätjen, Dietmar (with Unruh, Erwin) On extended k -uniformly-limited TOL systems and languages. (German and Russian summaries) 91m:68108
- Wilkinson, Ralph W. see Baird, Timothy B.; et al., (91f:68006)
- Wissmann, Dieter Applying rewriting techniques to groups with power-commutation-presentations. 91b:20042
- Yokouchi, Hirofumi Church-Rosser theorem for a rewriting system on categorical combinatorics. 91a:68067
- Zhang, Hantao (with Kapur, Deepak) Consider only general superpositions in completion procedures. (see 91f:68006)

Items listed otherwise than by author

Chapel Hill, NC ★ Rewriting techniques and applications. 91f:68006

Conference:

Rewriting Techniques and Applications ★ Rewriting techniques and applications. 91f:68006

Lecture Notes in Computer Science ★ Rewriting techniques and applications. 91f:68006

Rewriting techniques and applications ★ Rewriting techniques and applications. 91f:68006

68Q52 Parsing [see also 68N20]

- Bermudez, Mannel E. (with Schimpf, Karl M.) Practical arbitrary lookahead LR parsing. (Not in MR)
- Feischer, Walter A linear parsing algorithm for parenthesis terms. 91m:68115
- Heering, Jan (with Klint, Paul; Rekers, Jan) Incremental generation of parsers. (Not in MR)
- Klint, Paul see Heering, Jan; et al., (Not in MR)
- Kruseman Aretz, F. E. J. A new approach to Earley's parsing algorithm. 91a:68174
- Numazaki, Hiroaki (with Tamura, Naoyoshi; Tanaka, Hozumi) Parallel generalized LR parser based on logic programming. (see 91k:68011)
- Palis, Michael A. (with Shende, Sunil; Wei, David S. L.) An optimal linear-time parallel parser for tree adjoining languages. 91f:68131
- Rekers, Jan see Heering, Jan; et al., (Not in MR)
- Schimpf, Karl M. see Bermudez, Mannel E., (Not in MR)
- Shende, Sunil see Palis, Michael A.; et al., 91f:68131
- Tamura, Naoyoshi see Numazaki, Hiroaki; et al., (91k:68011)
- Tanaka, Hozumi see Numazaki, Hiroaki; et al., (91k:68011)
- Wei, David S. L. see Palis, Michael A.; et al., 91f:68131

Items with secondary classifications in 68Q52

- op den Akker, Riëks (with Melichar, Bořivoj; Tarhio, Jorma) The hierarchy of LR-attributed grammars. (see 91h:68007)
- Arcangel, Jean-Paul (with Pomian, Christian) Principles of plasma pattern and alternative structure compilation. (Not in MR)
- Buřňok, M. A. Mixed computation and compilation: new approaches to old problems. 91c:68024
- Márkus, Tibor On the parsing of reduced LC(1) grammars. (see 91a:68005)
- Melichar, Bořivoj see op den Akker, Riëks; et al., (91h:68007)
- Pomian, Christian see Arcangel, Jean-Paul, (Not in MR)
- Tarhio, Jorma see op den Akker, Riëks; et al., (91h:68007)

68Q55 Semantics [see also 03B70, 06B35]

- Alt-Kaci, Hassan see Smolka, Gert, (91j:68006)
- Americas, Pierre (with Rutten, Jan J. M. M.) Solving reflexive domain equations in a category of complete metric spaces. 91c:68101
- (with Rutten, Jan J. M. M.) A layered semantics for a parallel object-oriented language. (see 91m:68006)
- Arnold, André (with Dicky, Anne) An algebraic characterization of transition system equivalences. 91d:68076
- Arun-Kumar, S. see Koymans, Ronald Leo Christiaan; et al., 91a:68179
- Asperti, Andrea (with Martini, Simone) Projections instead of variables: a category-theoretic interpretation of logic programs. 91f:68069
- Backhouse, Roland C. Constructive type theory—an introduction. 91b:68090
- Bahamonde Rionda, Antonio see Gonzalez Rodriguez, Fernando, 91h:68113
- Baker-Finch, Clement A. The (algebraic) congruence of two programming language definitions. 91f:68091
- de Bakker, J. W. (with Kok, Joost N.) Comparative metric semantics for concurrent Prolog. 91k:68117
- Bălanescu, Tudor (with Gheorghe, Marian) A generalized new while loop and its formal definition. (Not in MR)
- Barendregt, Henk (with Hemerik, Kees) Types in lambda calculi and programming languages. (see 91a:68003)
- Barr, Michael Fixed points in Cartesian closed categories. 91g:68103
- Barrett, Geoff The semantics of priority and fairness in Occam. (see 91c:68008)
- see also Roscoe, A. W., 91g:68110
- Bellegarde, Françoise A matching process modulo a theory of categorical products. (see 91g:68001)
- Bellot, Patrick (with Sarni, Djamil) Proposal for a natural formalization of functional programming concepts. (French summary) 91a:68175
- Ben-Jacob, Marion see Fitting, Melvin, 91h:68112
- Berghammer, Rudolf see Schmidt, Gunther W.; et al., 91f:68138
- Billard, Michel Simple operational and denotational semantics for Prolog with cut. 91c:68102
- Black, David L. see Main, Michael G., 91h:68117
- Blikle, Andrzej Denotational engineering. 91f:68132
- Bloom, Bard Can LCF be topped? Flat lattice models of typed λ -calculus. 91h:68110
- Bloom, Stephen L. The equational logic of iterative processes. 91a:68176
- Boehm, Paul see Ehrig, Hartmut; et al., 91m:68116
- de Boer, Frank S. (with Palamidessi, Catuscia) On the asynchronous nature of communication in concurrent logic languages: a fully abstract model based on sequences. (see 91g:68003)
- Börger, Egon A logical operational semantics of full Prolog. I. Selection core and control. (see 91g:68006)
- A logical operational semantics of full Prolog. II. Built-in predicates for database manipulations. (see 91h:68011)
- Böttger, Claudia On Scott's thesis for domains of information and well-quasi-orderings. 91c:68103
- Bracho, Felipe Continuously generated fixed points. 91k:68118
- Camilleri, Juanito An operational semantics for occam. (Not in MR)
- Cardelli, Luca (with Mitchell, John C.) Operations on records (summary). (see 91c:68008)
- Casley, Ross (with Crew, Roger F.; Meseguer, José; Pratt, Vaughan) Temporal structures. 91a:68177
- Căzănescu, Virgil Emil (with Ungureanu, C.) The free algebraic structure of flowcharts. 91c:68081
- (with Stăfănescu, Gheorghe) A formal representation of flowchart schemes. II. 91f:68133
- (with Stăfănescu, Gheorghe) Towards a new algebraic foundation of flowchart scheme theory. (Not in MR)
- Chen, T. Y. On the consistency of multi-valued functions. 91j:68078

- Cleveland, Rance (with Hennessy, Matthew) Priorities in process algebras. 91h:68111
- Coleson, Lolic About primitive recursive algorithms. 91d:68077
- Constable, Robert L. Assigning meaning to proofs: a semantic basis for problem solving environments. 91d:68078
- Coquand, Thierry (with Gunter, Carl A.; Winskel, Glynn) Domain theoretic models of polymorphism. 91d:68079
- Categories of embeddings. 91c:68082
- Corradini, Andrea (with Montanari, Ugo) Towards a process semantics in the logic programming style. 91g:68104
- Crew, Roger F. see Casley, Ross; et al., 91a:68177
- Darondeau, Philippe (with Gamatie, Boubakar) Infinitary behaviours and infinitary observations. 91h:68119
- Degano, Pierpaolo (with De Nicola, Rocco; Montanari, Ugo) A partial ordering semantics for CCS. 91f:68092
- De Nicola, Rocco see Degano, Pierpaolo; et al., 91f:68092
- Dicky, Anne see Arnold, André; et al., 91d:68076
- Dimitrović, Cristian see Ehrig, Hartmut; et al., 91c:68116
- Droste, Manfred Recursive domain equations for concrete data structures. 91c:68083
- (with Göbel, Rüdiger) Effectively given information systems and domains. (see 91g:03006)
- Eberbach, Eugeniusz Selected aspects of the calculus of self-modifiable algorithms theory. (see 91m:68002)
- Ehrhard, Thomas Dialectes. 91h:68070
- Ehrig, Hartmut A categorical concept of constraints for algebraic specifications. 91e:68104
- (with Parisi-Presicce, Francesco; Boehm, Paul; Rieckhoff, Catharina; Dimitrović, Cristian; Grosse-Rhode, Martin) Combining data type and recursive process specifications using projection algebras. 91m:68116
- see also Herrlich, Horst, 91h:68072
- Ésik, Zoltán A note on the axiomatization of iteration theories. 91k:68120
- Falaschi, Moreno (with Levi, Giorgio) Finite failures and partial computations in concurrent logic languages. 91h:68121
- Felleisen, Matthias On the expressive power of programming languages. (see 91a:68003)
- Felty, Amy (with Miller, Dale A.) Encoding a dependent-type λ -calculus in a logic programming language. (see 91g:68004)
- Fiadere, J. (with Maibaum, T.) Describing, structuring and implementing objects. (see 91m:68006)
- Fitting, Melvin (with Ben-Jacob, Marion) Stratified, weak stratified, and three-valued semantics. 91h:68112
- Flannery, Kevin E. (with Martin, Johannes J.) The Hoare and Smyth power domain constructors commute under composition. 91c:68084
- Francez, Nissim see Rahat, Amir; et al., (91k:68012)
- Fredlund, Lars-Åke (with Jonsson, Bengt; Parrow, Joachim) An implementation of a translational semantics for an imperative language. (see 91g:68003)
- Frutos Escrig, David (with Indermark, Klaus) Equivalence relations of nondeterministic lanov-schemes. 91j:68079
- Gamatie, Boubakar see Darondeau, Philippe, 91h:68119
- Gavrilas, Yu. V. Recursion and iteration on Cooper algebras. 91g:68105
- Applications of Cooper algebras to the theory of tail recursion in logic programming. 91h:68106
- Gerth, R. T. see Koymans, Ronald Leo Christiaan; et al., 91a:68179
- Ghelli, Giorgio A class abstraction for a hierarchical type system. 91k:68122
- Gheorghe, Marian see Balănescu, Tudor, (Not in MR)
- Göbel, Rüdiger see Droste, Manfred, (91g:03006)
- Goguen, Joseph A. see Meseguer, José; et al., 91e:68106 and (91j:68006)
- Gonzalez Rodriguez, Fernando (with Bahamonde Rionda, Antonio) The topology of continuous partially additive monoids. (French summary) 91h:68113
- Grabowski, Michał Open problems related to axiomatic descriptions of programs. (German and Russian summaries) 91f:68134
- Gray, John W. The integration of logical and algebraic types. 91f:68135
- Initial algebra semantics for lambda calculi. 91h:68114
- Grosse-Rhode, Martin see Ehrig, Hartmut; et al., 91m:68116
- Guaesarian, Irine Some fixpoint techniques in algebraic structures and applications to computer science. 91h:68115
- About fixpoints for concurrency. 91k:68123
- Gumb, Raymond D. ★ Programming logics. 91c:68085
- Gunter, Carl A. (with Jung, Achim) Coherence and consistency in domains. 91f:68136
- see also Coquand, Thierry; et al., 91d:68079
- Gurevich, Yuri (with Moss, Lawrence S.) Algebraic operational semantics and Occam. (see 91g:03006)
- Habasiński, Zdzisław Propositional logics of programs: a guide to the satisfiability problem. (Polish summary) 91a:68178
- Hagiya, Masami Meta-circular interpreter for a strongly typed language. (Not in MR)
- Halpern, Joseph Y. (with Williams, John H.; Wimmers, Edward L.) Completeness of rewrite rules and rewrite strategies for FP. 91g:68107
- Haxthausen, Anne Elisabeth Parameterized algebraic domain equations. 91h:68071
- He, Jifeng (with Hoare, C. A. R.) Categorical semantics for programming languages. (see 91e:68008)
- Heckmann, Reinhold Set domains. (see 91a:68003)
- Hemerik, Kees see Barendregt, Henk, (91a:68003)
- Hennessy, Matthew see Cleveland, Rance, 91h:68111
- Herrlich, Horst (with Ehrig, Hartmut) The construct PRO of projection spaces: its internal structure. 91h:68072
- Hoare, C. A. R. Notes on an approach to category theory for computer scientists. 91f:68137
- see also He, Jifeng, (91e:68008)
- Inagaki, Yasuyoshi see Naoi, Tohru, (91f:68006)
- Indermark, Klaus see Frutos Escrig, David, 91j:68079
- Jagadeesan, Radhakrishnan L -domains and lossless powerdomains. 91h:68116
- Jiang, Ming De (with Liu, Jian Fu) γ -calculus semantics of functional programming language FFP. (Not in MR)
- Jonsson, Bengt see Fredlund, Lars-Åke; et al., (91g:68003)
- Jung, Achim Cartesian closed categories of algebraic cpo's. 91g:68108
- see also Gunter, Carl A., 91f:68136
- Kanovich, M. I. Logical foundations of the synthesis of program schemes for solving computational problems. 91e:68105
- Kok, Joost N. see de Bakker, J. W., 91k:68117
- Koymans, Ronald Leo Christiaan (with Shyamasundar, R. K.; de Roeper, W. P.; Gerth, R. T.; Arun-Kumar, S.) Compositional semantics for real-time distributed computing. 91a:68179
- Kwiatkowska, Marta Z. Defining process fairness for noninterleaving concurrency. 91j:68080
- Larsen, Kim Guldstrand (with Liu, Xin Xin) Compositionality through an operational semantics of contexts. (see 91e:68004)
- Lazrek, Azeddine (with Lescanne, Pierre; Thiel, Jean-Jacques) Tools for proving inductive equalities, relative completeness, and ω -completeness. 91k:68124
- Lescanne, Pierre see Lazrek, Azeddine; et al., 91k:68124
- Levi, Giorgio see Falaschi, Moreno, 91h:68121
- Lipitskii, S. F. A mathematical model for the semantic analysis and design of communication in an intelligent information system. (Russian. English summary) (Not in MR)
- Liovik, L. P. Algebras for semilinear transducers over marked trees. (Russian) 91a:68180
- Standard schemes with stacks. (Russian. English summary) 91d:68080
- Liu, Jian Fu see Jiang, Ming De, (Not in MR)
- Liu, Xin Xin see Zhou, Chao Chen, 91h:68125 and Larsen, Kim Guldstrand, (91e:68004)
- Lobo, Jorge (with Minker, Jack; Rajasekar, Arcot) Extending the semantics of logic programs to disjunctive logic programs. 91a:68181
- Maibaum, T. see Fiadere, J., (91m:68006)
- Main, Michael G. (with Black, David L.) Semantic models for total correctness and fairness. 91h:68117
- Malecki, Sophie Generic terms having no polymorphic types. 91h:68118
- Malmkjær, Karoline On some semantic issues in the reflective tower. (see 91e:68008)
- Manes, Ernest G. A transformational characterization of if-then-else. 91h:68119
- Martin, Johannes J. see Flannery, Kevin E., 91c:68084
- Martini, Simone see Asperti, Andrea, 91h:68069
- Masersoni, M. (with Tolls, C.; Vauzeilles, J.) Generating plans in linear logic. 91j:68081
- Meseguer, José (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification. 91e:68106
- (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification [MR 91e:68106]. (see 91j:68006)
- see also Casley, Ross; et al., 91a:68177
- Miller, Dale A. see Felty, Amy, (91g:68004)
- Minker, Jack see Lobo, Jorge; et al., 91a:68181
- Mitchell, John C. see Cardelli, Luca, (91e:68008)
- Moggi, Eugenio A category-theoretic account of program modules. 91a:68182
- Montanari, Ugo (with Yankelevich, Daniel N.) An algebraic view of interleaving and distributed operational semantics for CCS. 91h:68073
- see also Corradini, Andrea, 91h:68104 and Degano, Pierpaolo; et al., 91f:68092
- Moss, Lawrence S. (with Thatté, Satish R.) Generalization of final algebra semantics by relativization. 91h:68120
- see also Gurevich, Yuri, (91g:03006)
- Murakami, Masaki A declarative semantics of flat guarded Horn clauses for programs with perpetual processes. 91k:68125
- Naoi, Tohru (with Inagaki, Yasuyoshi) Algebraic semantics and complexity of term rewriting systems. (see 91f:68006)
- Nielson, Flemming Two-level semantics and abstract interpretation. 91d:68081
- see also Nielson, Hanne Riis, 91f:68109
- Nielson, Hanne Riis (with Nielson, Flemming) Functional completeness of the mixed λ -calculus and combinatory logic. 91g:68109
- Okulicka, Felicja On priority in COSY. 91h:68093
- Palamidessi, Catuscia On the declarative semantics of Horn clause logic-based languages. 91e:68107
- see also de Boer, Frank S., (91g:68003)
- Panagaden, Prakash (with Russell, James R.) A category-theoretic semantics for unbounded indeterminacy. 91h:68121
- Parisi-Presicce, Francesco see Ehrig, Hartmut; et al., 91m:68116
- Parrow, Joachim see Fredlund, Lars-Åke; et al., (91g:68003)
- Pasziro, Ana Recursive programs and denotational semantics in absolute logics of programs. 91h:68122
- Pettorossi, Alberto (with Skowron, Andrzej) The lambda abstraction strategy for program derivation. 91e:68108
- Power, A. J. An algebraic formulation for data refinement. (see 91e:68008)
- Pratt, Vaughan see Casley, Ross; et al., 91a:68177
- Proszynski, Piotr W. The core concurrency (revised version). (see 91m:68002)
- Przymusiński, Halina (with Przymusiński, Teodor C.) Weakly stratified logic programs. 91h:68123
- Przymusiński, Teodor C. see Przymusińska, Halina, 91h:68123
- Rahat, Amir (with Francez, Nissim; Shmueli, Oded) On the equivalence of deferred substitution and immediate substitution semantics for logic programs. (see 91k:68012)
- Rajasekar, Arcot see Lobo, Jorge; et al., 91a:68181
- Reggio, Gianni A nonstandard inductive semantics. (see 91h:68009)
- Rieckhoff, Catharina see Ehrig, Hartmut; et al., 91m:68116
- Rittri, Mikael Retrieving library identifiers via equational matching of types. (see 91g:68004)
- de Roeper, W. P. see Koymans, Ronald Leo Christiaan; et al., 91a:68179
- Romanowska, Anna B. (with Smith, Jonathan D. H.) Communicating processes and entropic algebras. 91k:68126
- Roscoe, A. W. (with Barrett, Geoff) Unbounded nondeterminism in CSP. 91g:68110
- Russell, James R. see Panagaden, Prakash, 91h:68121
- Rutten, Jan J. M. M. Semantic correctness for a parallel object-oriented language. 91g:68111
- see also America, Pierre, 91e:68101 and (91m:68006)
- Sarni, Djamil see Bellot, Patrick, 91a:68175

- Schmidt, Gunther W. (with Berghammer, Rudolf; Zierer, Hans) Describing semantic domains with sprouts. 91f:68138
- Schmitt, William Hopf algebras and identities in free partially commutative monoids. 91f:68094
- Schwartzbach, Michael I. Infinite values in hierarchical imperative types. (see 91e:68005)
- Shapiro, Ehud. *see* Yardeni, Eyal. (Not in MR)
- Shmueli, Oded. *see* Rahat, Amir; et al. (91k:68012)
- Shyamasundar, R. K. *see* Koymans, Ronald Leo Christiaan; et al. 91a:68179
- Sleber, Kurt Relating full abstraction results for different programming languages. 91j:68082
- Skowron, Andrzej. *see* Pettorossi, Alberto. 91e:68108
- Smith, Jonathan D. H. *see* Romanowska, Anna B. 91k:68126
- Smolka, Gert (with Ait-Kaci, Hassan) Inheritance hierarchies: semantics and unification [MR 90g:68086]. (see 91j:68006)
- *see also* Meseguer, José; et al. 91e:68106 and (91j:68006)
- Stark, Eugene W. Compositional relational semantics for indeterminate dataflow networks. 91a:68183
- Stark, W. Richard A logic for distributed processes. 91f:68139
- Stefănescu, Gheorghe Feedback theories (a calculus for isomorphism classes of flowchart schemes). 91k:68127
- *see also* Căzănescu, Virgil Emil. 91f:68133 and (Not in MR)
- Streicher, Thomas Independence results for calculi of dependent types. 91a:68184
- Surzsko, S. V. Some classes of algorithmic algebras. 91f:68095
- Taylor, Paul Quantitative domains, groupoids and linear logic. 91f:68140
- Tennent, R. D. Elementary data structures in ALGOL-like languages. (Not in MR)
- Semantical analysis of specification logic. 91f:68096
- Thattai, Satish R. Full abstraction and limiting completeness in equational languages. 91f:68141
- *see also* Moss, Lawrence S. 91h:68120
- Thick, Jean-Jacques. *see* Lazrek, Azeddine; et al. 91k:68124
- Tofte, Mads Type inference for polymorphic references. (Not in MR)
- Tollu, C. *see* Masseron, M.; et al. 91j:68001
- Ungureanu, C. *see* Căzănescu, Virgil Emil. 91c:68081
- Vauzeilles, J. *see* Masseron, M.; et al. 91j:68001
- Venturini Zilli, Marisa Net algebras on process algebras. (German and Russian summaries) 91h:68124
- Vree, Willem G. Implementations of parallel graph reduction by explicit annotation and program transformation. (see 91h:68011)
- Wagner, Eric G. Semantics of block structured languages with pointers. 91b:68074
- On declarations. 91b:68075
- Algebras, polynomials and programs. 91c:68086
- Wand, Mitchell A short proof of the lexical addressing algorithm. 91f:68142
- Wechler, Wolfgang Iterative nondeterministic algebras. (Polish summary) 91f:68143
- Weijland, W. P. Semantics for logic programs without occur check. 91m:68117
- Wells, Charles F. A generalization of the concept of sketch. 91d:68082
- Williams, John H. *see* Halpern, Joseph Y.; et al. 91g:68107
- Wimmers, Edward L. *see* Halpern, Joseph Y.; et al. 91g:68107
- Winkel, Glynn. *see* Coquand, Thierry; et al. 91d:68079
- Yankelovich, Daniel N. *see* Montanari, Ugo. 91b:68073
- Yardeni, Eyal (with Shapiro, Ehud) A type system for logic programs. (Not in MR)
- Yoccoz, S. Effective solutions to domain equations: an approach to effective denotational semantics. (see 91g:68003)
- Zhou, Chao Chen (with Liu, Xin Xin) Denote CSP with temporal formulas. 91h:68125
- Zierer, Hans. *see* Schmidt, Gunther W.; et al. 91f:68138
- Items with secondary classifications in 68Q55
- Abadi, Martin An axiomatization of Lamport's temporal logic of actions. (see 91g:68003)
- Aceto, L. (with Hennessy, Matthew) Termination, deadlock and divergence. (see 91e:68008)
- Andrews, James H. Predicates as parameters in logic programming: a set-theoretic basis. (see 91h:68007)
- Astesiano, Egidio (with Giovini, Alessandro; Reggio, Gianna) Processes as data types: observational semantics and logic (extended abstract). (see 91h:68016)
- Baeten, J. C. M. (with Bergstra, J. A.) Process algebra with a zero object. (see 91g:68003)
- Bainbridge, E. S. (with Freyd, Peter J.; Scedrov, A.; Scott, Philip J.) Functorial polymorphism. 91g:03129a
- (with Freyd, Peter J.; Scedrov, A.; Scott, Philip J.) Corrigendum: "Functorial polymorphism". 91g:03129b
- de Bakker, J. W. (with Warmerdam, J. H. A.) Metric pomset semantics for a concurrent language with recursion. 91j:68034
- Baral, Chitta (with Lobo, Jorge; Minker, Jack) Generalized disjunctive well-founded semantics for logic programs: procedural semantics. (see 91k:68014)
- (with Lobo, Jorge; Minker, Jack) Generalized disjunctive well-founded semantics for logic programs: declarative semantics. (see 91k:68014)
- Barendregt, Henk Self-interpretation in lambda calculus. (Not in MR)
- Bartha, Miklós Interpretations of synchronous flowchart schemes. 91d:68015
- Batarekh, Aida Fixpoint techniques for nonmonotone maps. (see 91g:68001)
- Benson, David B. Bialgebras: some foundations for distributed and concurrent computation. 91e:68044
- *see also* Tiuryn, Jerzy. 91c:68029
- van Benthem, Johan Time, logic and computation. 91f:03028
- Bergstra, J. A. (with Klop, Jan Willem; Olderog, E.-R.) Readies and failures in the algebra of communicating processes. 91b:68025
- *see also* Baeten, J. C. M. (91g:68003)
- Best, Elke ★ Kausale Semantik nichtsequentieller Programme. (German) [Causal semantics of nonsequential programs] 91f:68028
- Böhm, Corrado Subduing self-application. 91a:03025
- (with Tronci, Enrico) About systems of equations, X -separability, and left-invertibility in the λ -calculus. 91m:03031
- Bougé, Luc (with Garda, Patrick) Towards a semantic approach to SIMD architectures and their languages. 91m:68042
- (Brauer, Wilfried) *see* Taubner, Dirk. 91a:68085
- Brogli, Antonio (with Lamma, Evelina; Mello, Paola) Hypothetical reasoning in logic programming: a semantic approach. 91f:68012
- Buda, Anatoli O. A free information model. (Russian) 91m:68043
- Bunder, M. W. Some improvements to Turner's algorithm for bracket abstraction. 91g:03033
- Cherkasova, L. A. (with Kotov, V. E.) Descriptive and analytical process algebras. 91d:68016
- Constable, Robert L. Themes in the development of programming logics circa 1963–1987. 91g:03064
- Coquand, Thierry (with Paulin-Mohring, Christine) Inductively defined types. 91h:03012
- Curien, Pierre-Louis (with Ghelli, Giorgio) Coherence of subsumption. 91g:03034
- Darlington, John (with Guo, Yi Ke) Narrowing and unification in functional programming—an evaluation mechanism for absolute set abstraction. (see 91f:68006)
- Davey, B. A. (with Priestley, H. A.) ★ Introduction to lattices and order. 91h:06001
- De Nicola, Rocco (with Ferrari, Gian Luigi) Observational logics and concurrency models. 91j:68036
- Devillers, Raymond The semantics of capacities in P/T nets. 91d:68092
- Dijkstra, Edsger W. (with Scholten, Carel S.) ★ Predicate calculus and program semantics. 91c:68089
- Dulz, Marie (with Materna, Pavel) Attributes: distinguishing capability versus informational capability. (Russian summary) 91f:68032
- Ehrlich, Hans-Dieter (with Sernadas, Amílcar; Sernadas, Cristina) From data types to object types. (German and Russian summaries) 91e:68110
- Ehrig, Hartmut. *see* Orejas, F.; et al. 91b:68003
- Engberg, Uffe. *see* Nielsen, Mogens; et al. 91h:68031
- Falaschi, Moreno (with Levi, Giorgio; Palamidessi, Catuscia; Martelli, Maurizio) Declarative modeling of the operational behavior of logic languages. 91e:68130
- Farmer, William M. A partial functions version of Church's simple theory of types. 91k:03017
- Feng, Yu Lin (with Liu, Junbo) A temporal approach to algebraic specifications. (see 91g:68003)
- Ferrari, Gian Luigi. *see* De Nicola, Rocco. 91j:68036
- Forman, Ira R. *see* Francez, Nissim. (91g:68003)
- Francez, Nissim (with Forman, Ira R.) Superimposition for interacting processes. (see 91g:68003)
- Freyd, Peter J. *see* Bainbridge, E. S.; et al. 91g:03129a and 91g:03129b
- Gabbay, D. M. Modal provability foundations for negation by failure. (see 91k:68007)
- Gabbriellini, Maurizio (with Levi, Giorgio) Unfolding and fixpoint semantics of concurrent constraint logic programs. (see 91g:68001)
- Gaisaryan, S. S. (with Lastovetskiĭ, A. L.) Calculus of propositional properties of programs. 91k:68132
- Galmiche, Didier Constructive system for automatic program synthesis. 91d:68083
- Garda, Patrick. *see* Bougé, Luc. 91m:68042
- Gastin, Paul Infinite traces. 91k:68048
- Gerber, Richard (with Lee, Insup) CCSR: a calculus for communicating shared resources. (see 91g:68003)
- Ghelli, Giorgio Modelling features of object-oriented languages in second order functional languages with subtypes. (see 91m:68006)
- *see also* Curien, Pierre-Louis. 91g:03034
- Giovini, Alessandro. *see* Astesiano, Egidio; et al. (91h:68016)
- Girard, Jean-Yves Geometry of interaction. I. Interpretation of system F. 91f:03054
- Geometry of interaction. II. Deadlock-free algorithms. 91k:03076
- Goeman, Henk Towards a theory of (self) applicative communicating processes: a short note. (Not in MR)
- Goltz, Ursula CCS and Petri nets. 91m:68048
- Grabowski, Michał Arithmetical completeness versus relative completeness. 91e:03029
- Guessarian, Irène (with Niar-Dinedane, Faïza) Fairness and regularity for SCCS processes. (French summary) 91d:68018
- *see also* Semantics of systems of concurrent processes. 91h:68016
- Guo, Yi Ke. *see* Darlington, John. (91f:68006)
- Halpern, Joseph Y. (with Vardi, Moshe Y.) The complexity of reasoning about knowledge and time. I. Lower bounds. 91f:68146
- Haniuda, Hiromi. *see* Miyazaki, Nobuyoshi; et al. 91h:68105
- Hardin, Thérèse Confluence results for the pure strong categorical logic CCL. λ -calculus as subsystems of CCL. 91h:03021
- Hennessy, Matthew (with Ingólfssdóttir, A.) A theory of communicating processes with value-passing. (see 91e:68004)
- *see also* Aceto, L. (91e:68008)
- Huwig, Hagen (with Poigné, Axel) A note on inconsistencies caused by fixpoints in a Cartesian closed category. 91g:18007
- Hyland, J. M. E. (with Robinson, Edmund; Rosolini, Giuseppe) Algebraic types in PER models. 91h:68128
- Ingólfssdóttir, A. *see* Hennessy, Matthew. (91e:68004)
- Itoh, Hidenori. *see* Miyazaki, Nobuyoshi; et al. 91h:68105
- Jacobs, Bart On the semantics of second order lambda calculus: from Bruce-Meyer-Mitchell models to hyperdoctrine models and vice-versa. 91h:03029
- Jagadeesan, Radhakrishnan (with Panangaden, Prakash) A domain-theoretic model for a higher-order process calculus. (see 91e:68004)
- Kanchanasut, Kanchana. *see* Phan Minh Dung. 91d:68113
- Kanovich, M. I. Semantics and logic of computational problems. 91f:68197
- Kaplan, Stéphane Algebraic specification of concurrent systems. 91b:68030
- Karavaev, E. F. Problems in the semantics of tense logic. (Russian) 91h:03029
- Keeton-Williams, James G. On the formalization of semantic conventions. 91j:03031
- Kikyo, Hirotsuka (with Yamada, Shinichi) A graph model for probabilistic computation. 91c:68020
- Klop, Jan Willem. *see* Bergstra, J. A.; et al. 91b:68025

- Kak, Joost N. (with Rutten, Jan J. M. M.) Contractions in comparing concurrency semantics. 91g:68038
- Kamori, Yuichi λ -calculus with simultaneous substitution as a primitive symbol. 91m:03007
- Kotor, V. E. *see* Cherkasova, L. A., 91d:68016
- Koymans, Ronald Leo Christian \star Specifying message passing and time-critical systems with temporal logic. 91a:03036
- Kozen, Dexter On Kleene algebras and closed semirings. 91m:68130
- Kunen, Kenneth Signed data dependencies in logic programs. 91f:68190
- Kwiatkowska, Marta Z. A metric for traces. 91g:68047
- Lamarche, François A simple model of the theory of constructions. 91b:03030
- Lamma, Evelina *see* Brugi, Antonio; et al., 91f:68012
- Lampson, Butler W. Specifying distributed systems. 91a:68077
- Larsen, Kim S. *see* Nielsen, Mogens; et al., 91b:68031
- Lastovetski, A. L. *see* Gatsaryan, S. S., 91b:68132
- Lauchbury, John Strictness analysis aids inductive proofs. (Not in MR)
- Lee, Insup *see* Gerber, Richard, (91g:68003)
- Levi, Giorgio *see* Falaschi, Moreno; et al., 91f:68130 and Gabbriellini, Maurizio, (91g:68001)
- Lin, Hui Min (with Pang, Min Zhi) A categorical semantics of multiple inheritance. (Not in MR)
- Liu, Junbo *see* Feng, Yu Lin, (91g:68003)
- Liu, Zhi Ming A continuous algebraic semantics of CSP. (Not in MR)
- Lobo, Jorge *see* Baral, Chitta; et al., (91k:68014) and (91k:68014)
- Longo, Giuseppe (with Moggi, Eugenio) A category-theoretic characterization of functional completeness. 91g:03036
- Mahr, Bernd Empty carriers: the categorical burden on logic. 91f:03059
- Majster-Cederbaum, Milla E. The contraction property is sufficient to guarantee the uniqueness of fixed points of endofunctors in a category of complete metric spaces. 91a:68078
- (Marcus, Solomon) *see* Mateescu, Alexandru, 91f:68091
- Martelli, Maurizio *see* Falaschi, Moreno; et al., 91f:68130
- Martin-Löf, Per Mathematics of infinity. 91b:03014
- Mateescu, Alexandru (with Vaida, Dragoș) \star Structuri matematice discrete. (Romanian) [Discrete mathematical structures] 91c:68091
- Materna, Pavel *see* Dužić, Marje, 91f:68032
- Mazurkiewicz, Antoni (with Ochmański, Edward; Penczek, Wojciech) Concurrent systems and inevitability. 91a:68000
- Mello, Paola *see* Brugi, Antonio; et al., 91f:68012
- Melton, Austin Topological spaces for Cpos. 91f:54018
- Meyer, J.-J. Ch. (with Olderog, E.-R.) Hiding in stream semantics of uniform concurrency. 91m:68052
- Milner, Robin Functions as processes. (see 91f:68004)
- Interpreting one concurrent calculus in another. 91k:68054
- Minker, Jack (with Rajasekar, Arcot) A fixpoint semantics for disjunctive logic programs. 91c:68132
- *see also* Baral, Chitta; et al., (91k:68014); (91k:68014) and Sabrahmanian, V. S., (91k:68014)
- Mitchell, John C. Polymorphic type inference and containment. 91c:68021
- Miyazaki, Nobuyoshi (with Yokota, Kazumasa; Haniuda, Hiromi; Itoh, Hidenori) Horn clause transformation by restriction in deductive databases. 91b:68105
- Moggi, Eugenio *see* Longo, Giuseppe, 91g:03036
- Mohan, Chinkuri K. Priority rewriting: semantics, confluence, and conditionals. (see 91f:68006)
- (with Srivas, Mandayam K.) Negation with logical variables in conditional rewriting. (see 91f:68006)
- Montanari, Ugo (with Sgammà, Marcello) Canonical representatives for observational equivalence classes. 91b:68055
- Morris, Joseph M. Temporal predicate transformers and fair termination. 91f:68148
- Moss, Lawrence S. (with Thattai, Satish R.) Optimal semantics of data type extensions. 91c:68137
- Mukund, Madhavan (with Thiagarajan, P. S.) An axiomatization of event structures. 91c:68028
- Mulry, Philip S. Some connections between models of computation. 91a:68061
- Categorical fixed point semantics. 91c:03049
- Niar-Dinodan, Wafik *see* Guesarian, Irène, 91f:68018
- Nielsen, Mogens (with Engberg, Uffe; Larsen, Kim S.) Fully abstract models for a process language with refinement. 91b:68031
- Nivela, Ma. P. *see* Orejas, F.; et al., 91b:68083
- Nolte, Doris *see* Priese, Lutz, (91g:03006)
- Novitzka, Valeria Formal semantics of Anna packages. (Not in MR)
- Ochmański, Edward *see* Mazurkiewicz, Antoni; et al., 91a:68000
- Olderog, E.-R. *see* Bergstra, J. A.; et al., 91b:68025 and Meyer, J.-J. Ch., 91m:68052
- Orejas, F. (with Nivela, Ma. P.; Ehrig, Hartmut) Semantical constructions for categories of behavioural specifications. 91b:68083
- Orłowska, Ewa Interpretation of dynamic logic and its extensions in the relational calculus. 91f:03055
- de Paiva, Valeria C. V. A Dialectica-like model of linear logic. 91a:03061
- Palamides, Catucica *see* Falaschi, Moreno; et al., 91f:68130
- Panangaden, Prakash (with Stark, Eugene W.) Computations, residuals, and the power of indeterminacy. 91b:68027
- *see also* Jagdeesan, Radhakrishnan, (91f:68004)
- Pang, Min Zhi *see* Lin, Hui Min, (Not in MR)
- Papalaskari, Mary-Angela (with Weinstein, Scott) Minimal consequence in sentential logic. 91g:03017
- Parigot, Michel On the representation of data in lambda-calculus. (see 91g:03006)
- Parrow, Joachim Submodule construction as equation solving in CCS. 91f:68052
- Paulin-Mohring, Christine *see* Pfenning, Frank, (91f:68008)
- *see also* Coquand, Thierry, 91k:03012
- Peled, Doron (with Pnueli, Amir) Proving partial order liveness properties. (see 91f:68004)
- Penczek, Wojciech *see* Mazurkiewicz, Antoni; et al., 91a:68000
- Petersmann, Uwe *see* Szalas, Andrzej, 91a:68192
- Pfenning, Frank (with Paulin-Mohring, Christine) Inductively defined types in the calculus of constructions. (see 91f:68008)
- Phan Minh Dung (with Kanchanasut, Kanchana) A natural semantics for logic programs with negation. 91d:68113
- Pnueli, Amir *see* Peled, Doron, (91f:68004)
- Priese, Lutz (with Nolte, Doris) Semantic for abstract fairness using metric spaces. (see 91g:03006)
- Priestley, H. A. *see* Davey, B. A., 91h:06001
- Przymusińska, Halina (with Przymusiński, Teodor C.) Semantic issues in deductive databases and logic programs. (see 91g:68007)
- Przymusiński, Teodor C. *see* Przymusińska, Halina, (91g:68007)
- Rajasekar, Arcot *see* Minker, Jack, 91c:68132
- Ramanujam, R. Semantics of distributed definite clause programs. 91f:68053
- Reed, G. M. A hierarchy of domains for real-time distributed computing. (see 91f:68008)
- Reggio, Gianna *see* Astesiano, Egidio; et al., (91h:68016)
- Rittri, Mikael Using types as search keys in function libraries. (Not in MR)
- Robinson, Edmund *see* Hyland, J. M. E.; et al., 91h:68128
- Rosolini, Giuseppe *see* Hyland, J. M. E.; et al., 91h:68128
- Runciman, Colin (with Toyn, Ian) Retrieving reusable software components by polymorphic type. (Not in MR)
- Rutten, Jan J. M. M. *see* Kak, Joost N., 91g:68038
- Sain, Ildiko Computer science temporal logics need their clocks. 91f:03064
- Sasadi, A. Pushdown automata on infinite trees and omega-Kleene closure of context-free tree sets. 91d:68013
- Scedrov, A. *see* Bainbridge, E. S.; et al., 91g:03129a and 91g:03129b
- Scholten, Carel S. *see* Dijkstra, Edsger W., 91c:68089
- Scott, Philip J. *see* Bainbridge, E. S.; et al., 91g:03129a and 91g:03129b
- Sernadas, Amílcar *see* Ehrlich, Hans-Dieter; et al., 91c:68110
- Sernadas, Cristina *see* Ehrlich, Hans-Dieter; et al., 91c:68110
- Sgammà, Marcello *see* Montanari, Ugo, 91b:68055
- Shepherdson, John C. A sound and complete semantics for a version of negation as failure. 91f:68177
- Shkiryak, S. S. A study of program algebras of functions of natural variables and values. (Russian) 91b:68028
- Simons, Peter M. Combinators and categorical grammar. 91j:03029
- Sofroniciu, I. On the synchronising algebras. 91a:68084
- Spreen, Dieter A characterization of effective topological spaces. 91f:03091
- Computable one-to-one enumerations of effective domains. 91c:03048
- Srivas, Mandayam K. *see* Mohan, Chinkuri K., (91f:68006)
- Starichenko, S. S. (with Voronkov, A. A.) On connections between classical and constructive semantics. 91k:03090
- Stark, Eugene W. Concurrent transition systems. 91c:68047
- *see also* Panangaden, Prakash, 91b:68027
- Statman, Rick Some models of Scott's theory LCF based on a notion of rate of convergence. 91f:03034
- Stirling, Collin Temporal logics for CCS. 91d:68022
- Stolbouhkin, A. P. Flow-diagrams with sets. 91f:68149
- Sabrahmanian, V. S. (with Minker, Jack) Completion semantics for general and disjunctive logic programs. (see 91k:68014)
- Szalas, Andrzej (with Petersmann, Uwe) On temporal logic for distributed systems and its application to processes communicating by interrupts. 91a:68192
- Taubner, Dirk \star Finite representations of CCS and TCSP programs by automata and Petri nets. 91a:68085
- (with Vogler, Walter) Step failures semantics and a complete proof system. 91a:68086
- Thattai, Satish R. *see* Moss, Lawrence S., 91c:68137
- Thiagarajan, P. S. Some behavioural aspects of net theory. 91f:68033
- *see also* Mukund, Madhavan, 91c:68028
- Tieryn, Jerry (with Benson, David B.) Fixed points in free process algebras. II. 91c:68029
- Toyn, Ian *see* Runciman, Colin, (Not in MR)
- Trosci, Enrico *see* Böhm, Corrado, 91m:03031
- Vaida, Dragoș *see* Mateescu, Alexandru, 91f:68091
- Vardi, Moshe Y. *see* Halpern, Joseph Y., 91f:68146
- de Vink, E. P. Comparative semantics for PROLOG with cut. 91f:68016
- Vogler, Walter Failures semantics based on interval semiwords is a congruence for refinement. (see 91b:68011)
- *see also* Taubner, Dirk, 91a:68086
- Voronkov, A. A. *see* Starichenko, S. S., 91k:03090
- Walker, David James Bisimulation and divergence. 91g:68052
- Warmerdam, J. H. A. *see* de Bakker, J. W., 91j:68034
- Weljand, W. P. The algebra of synchronous processes. 91a:68087
- Weinstein, Scott *see* Papalaskari, Mary-Angela, 91g:03017
- Yamada, Shinichi *see* Kikyo, Hirotsuka, 91c:68020
- Yokota, Kazumasa *see* Miyazaki, Nobuyoshi; et al., 91b:68105
- Yokouchi, Hirofumi Church-Rosser theorem for a rewriting system on categorical combinators. 91a:68067
- Zalcow, Marek How to define functionals on free structures in typed λ calculus. 91f:03026
- On the λ definable higher order Boolean operations. 91f:03027

Items listed otherwise than by author

- La Roche Posay \star Semantics of systems of concurrent processes. 91h:68016
- Lecture Notes in Computer Science \star Semantics of systems of concurrent processes. 91h:68016
- School:
- Theoretical Computer Science \star Semantics of systems of concurrent processes. 91h:68016
- Semantics of systems of concurrent processes \star Semantics of systems of concurrent processes. 91h:68016

68Q60 Specification and verification of programs [see also 03B70]

- Abadi, Martin *see* Burrow, Michael; et al., 91a:68185
- America, Pierre (with de Boer, Frank S.) Proving total correctness of recursive procedures. 91k:68128
- Antonios, Grigoris (with Sperschneider, V.) On the verification of modules. (see 91g:03006)
- Apt, Krzysztof R. *see* Bol, Roland N.; et al., 91g:68112
- Audureau, Éric (with Enjalbert, Patrice; Fariñas del Cerro, Luis) ★ Logique temporelle. (French) [Temporal logic] 91f:68144
- Back, R. J. R. (with von Wright, J.) Duality in specification languages: a lattice-theoretical approach. 91m:68118
- Banâtre, Jean-Pierre (with Le Métayer, Daniel) The gamma model and its discipline of programming. 91m:68119
- (Bergstra, J. A.) *see* Algebraic specification, 91a:68193
- de Boer, Frank S. A proof system for the language POOL. (see 91m:68006)
- *see also* America, Pierre, 91k:68128
- Bol, Roland N. (with Apt, Krzysztof R.; Klop, Jan Willem) On the power of subsumption and context checks. 91g:68112
- Boudol, Gérard (with Larsen, Kim Guldstrand) Graphical versus logical specifications. (see 91e:68005)
- Broy, Manfred Towards a design methodology for distributed systems. 91c:68087
- Burrow, Michael (with Abadi, Martin; Needham, R. M.) A logic of authentication. 91a:68185
- Căzănescu, Virgil Emil (with Ștefănescu, Gheorghe) A note on axiomatizing flowchart schemes. 91k:68129
- Chandy, K. Mani Reasoning about continuous systems. 91j:68083
- Clarke, Edmund M. *see* German, Steven M.; et al., 91f:68145
- Cleveland, Rance Tableau-based model checking in the propositional mu-calculus. 91k:68130
- Cisrnaz, László Stability of weak second-order semantics. 91c:68088
- Despland, Annie (with Mazaud, Monique; Rakotozafy, Raymond) Using rewriting techniques to produce code generators and proving them correct. 91k:68131
- Dijkstra, Edsger W. (with Scholten, Carel S.) ★ Predicate calculus and program semantics. 91c:68089
- Droboshevich, G. A. (with Zubovich, K. A.) Automation of the proof of the correctness of functional programs. (Not in MR)
- Dybjer, Peter Comparing integrated and external logics of functional programs. 91g:68113
- Ehrig, Hartmut (with Fey, W.; Hansen, Horst; Löwe, Michael; Parisi-Presicce, Francesco) Categories for the development of algebraic module specifications. 91b:68076
- Emerson, E. Allen *see* Streett, Robert S., 91c:68092
- (Engeler, Erwin) *see* Audureau, Éric; et al., 91f:68144
- Enjalbert, Patrice *see* Audureau, Éric; et al., 91f:68144
- Erdogmus, M. Hakan (with Johnston, Robert) On the specification and synthesis of communicating processes. (Not in MR)
- Fariñas del Cerro, Luis *see* Audureau, Éric; et al., 91f:68144
- Farrés-Casals, Jordi Proving correctness w.r.t. specifications with hidden parts. (see 91g:68001)
- Feng, Yu Lin (with Liu, Junbo) A temporal approach to algebraic specifications. (see 91g:68003)
- Fernando, Tim *see* Leivant, Daniel, 91f:68147
- Fey, W. *see* Ehrig, Hartmut; et al., 91b:68076
- Flé, Marie-Paule Serialization of concurrent programs. 91a:68186
- Galsaryan, S. S. (with Lastovetski, A. L.) Calculus of propositional properties of programs. 91k:68132
- Galmiche, Didier Constructive system for automatic program synthesis. 91d:68083
- German, Steven M. (with Clarke, Edmund M.; Halpern, Joseph Y.) Reasoning about procedures as parameters in the language LA. 91f:68145
- Gerth, R. T. *see* Stomp, F. A.; et al., 91f:68109
- Gerlach, S. P. Generation of parallel programs from nonprocedural specifications. (Not in MR)
- Gribomont, E. Pascal Stepwise refinement and concurrency: the finite-state case. 91j:68084
- Grünberg, Peter (with Nielsen, Thomas Qvist; Løwengreen, Hans Henrik) Refinement and composition of transition-based rely-guarantee specifications with auxiliary variables. 91j:68085
- Grünberg, Orna *see* Shurek, Gil, (91m:68004)
- Hale, Roger Using temporal logic for prototyping: the design of a lift controller. (see 91k:68018)
- Halpern, Joseph Y. (with Vardi, Moshe Y.) The complexity of reasoning about knowledge and time. I. Lower bounds. 91f:68146
- *see also* German, Steven M.; et al., 91f:68145
- Hansen, Horst *see* Ehrig, Hartmut; et al., 91b:68076
- Hansen, Michael R. (with Zhou, Chao Chen) Specification and verification of higher order processes. (see 91h:68011)
- Hayashi, Susumu (with Nakano, Hiroshi) ★ PX: a computational logic. 91d:68084
- (Heering, Jan) *see* Algebraic specification, 91a:68193
- Hehner, Eric C. R. A practical theory of programming. 91m:68120
- Hennicker, Rolf Observational implementation of algebraic specifications. 91m:68121
- Hirani, Anil (with Subrahmanian, V. S.) Algebraic foundations of logic programming. I. The distributive lattice of logic programs. 91k:68133
- Hoogerwoord, Robert Richard ★ The design of functional programs: a calculational approach. 91h:68126
- Hortal-González, M. Teresa (with Rodríguez Artalejo, Mario) Hoare's logic for nondeterministic regular programs: a nonstandard approach. 91c:68090
- Jacob, Jeremy Separability and the detection of hidden channels. (Not in MR)
- Johnston, Robert *see* Erdogmus, M. Hakan, (Not in MR)
- Joseph, Mathai *see* Moltra, Abha, (91k:68018)
- (Klint, Paul) *see* Algebraic specification, 91a:68193
- Klop, Jan Willem *see* Bol, Roland N.; et al., 91g:68112
- Krivine, Jean-Louis (with Parigot, Michel) Programming with proofs. (German and Russian summaries) 91j:68086
- Kalper, Ruard ★ Combining linear time temporal logic descriptions of concurrent computations. 91h:68077
- Laenens, E. (with Vermeir, Dirk) A logical basis for object oriented programming. (see 91k:68012)
- Larsen, Kim Guldstrand Proof systems for satisfiability in Hennessy-Milner logic with recursion. 91m:68122
- *see also* Boudol, Gérard, (91e:68005)
- Lastovetski, A. L. *see* Galsaryan, S. S., 91k:68132
- Leivant, Daniel (with Fernando, Tim) Meager and replete failures of relative completeness. 91f:68147
- Le Métayer, Daniel *see* Banâtre, Jean-Pierre, 91m:68119
- Lewington, Christopher P. Towards constructive program derivation in VDM. 91j:68087
- Li, Qiong Zhang *see* Liu, Yu Zhen, (Not in MR)
- Lippert, D. Interval temporal logic and star-free expressions. 91c:68091
- Liu, Junbo *see* Feng, Yu Lin, (91g:68003)
- Liu, Yu Zhen (with Li, Qiong Zhang) TDL—a logic for studying the concurrency control problem. (Chinese. English summary) (Not in MR)
- Løwengreen, Hans Henrik *see* Grünberg, Peter; et al., 91j:68085
- Löwe, Michael *see* Ehrig, Hartmut; et al., 91b:68076
- Lowry, Michael R. *see* Smith, Douglas R., 91b:68098
- Makowsky, Johann A. (with Sain, Ildikó) Weak second order characterizations of various program verification systems. 91b:68078
- Manna, Zohar (with Pnueli, Amir) Completing the temporal picture. 91d:68086
- (with Pnueli, Amir) The anchored version of the temporal framework. 91d:68085
- Martí-Ollet, Narciso (with Meseguer, José) From Petri nets to linear logic. 91a:68187
- Mazaud, Monique *see* Despland, Annie; et al., 91k:68131
- Meseguer, José *see* Martí-Ollet, Narciso, 91a:68187
- Moltra, Abha (with Joseph, Mathai) Implementing real-time systems by transformation. (see 91k:68018)
- Morasca, Sandro (with Pezzè, Mauro) Using high-level Petri nets for testing concurrent and real-time systems. (see 91k:68018)
- Morris, Joseph M. Well-founded induction and the invariance theorem for loops. 91a:68188
- Temporal predicate transformers and fair termination. 91f:68148
- Nakahara, Hayao Proofs and programs: a naive approach to program extraction. 91k:68134
- Nakano, Hiroshi *see* Hayashi, Susumu, 91d:68084
- Needham, R. M. *see* Burrow, Michael; et al., 91a:68185
- Nielsen, Thomas Qvist *see* Grünberg, Peter; et al., 91j:68085
- Parigot, Michel *see* Krivine, Jean-Louis, 91j:68086
- Parisi-Presicce, Francesco *see* Ehrig, Hartmut; et al., 91b:68076
- Pasztor, Ana (with Sain, Ildikó) A streamlined temporal completeness theorem. (see 91g:03006)
- Does "N + 1 times" prove more programs correct than "N times"? 91f:68097
- Peled, Doron (with Pnueli, Amir) Proving partial order liveness properties. (see 91e:68004)
- Penczek, Wojciech A concurrent branching time temporal logic. (see 91g:03006)
- A temporal logic for event structures. (see 91h:03007)
- Petermann, Uwe *see* Szalas, Andrzej, 91a:68192
- Pettorossi, Alberto (with Skowron, Andrzej) The power of the lambda abstraction strategy for program derivation. (German and Russian summaries) 91a:68189
- Pezzè, Mauro *see* Morasca, Sandro, (91k:68018)
- Platek, Richard A. Making computers safe for the world: an introduction to proofs of programs. I. (see 91e:03006)
- Pnueli, Amir (with Rosner, Roni) On the synthesis of an asynchronous reactive module. 91a:68190
- *see also* Manna, Zohar, 91d:68085; 91d:68086 and Peled, Doron, (91e:68004)
- Rakotozafy, Raymond *see* Despland, Annie; et al., 91k:68131
- Rastvetsky, A. L. Propositional logic of Boolean recursive programs with predicate variables in the conditions. (Not in MR)
- Rodríguez Artalejo, Mario *see* Hortal-González, M. Teresa, 91c:68090
- de Roeper, W. P. *see* Stomp, F. A.; et al., 91f:68109
- Rosner, Roni *see* Pnueli, Amir, 91a:68190
- Sabel'fel'd, V. K. An algorithm deciding functional equivalence in a new class of program schemes. 91g:68114
- Sain, Ildikó Is "some-other-time" sometimes better than "sometime" for proving partial correctness of programs? 91g:68115
- Results on the glory of the past. 91m:68123
- *see also* Makowsky, Johann A., 91b:68078 and Pasztor, Ana, (91g:03006)
- Scholten, Carel S. *see* Dijkstra, Edsger W., 91c:68089
- Seely, R. A. G. Graded multicategories of polynomial-time realizers. 91a:68191
- Shurek, Gil (with Grünberg, Orna) The modular framework of computer-aided verification: motivation, solutions, and evaluation criteria. (see 91m:68004)
- Skowron, Andrzej *see* Pettorossi, Alberto, 91a:68189
- Smith, Douglas R. (with Lowry, Michael R.) Algorithm theories and design tactics. 91l:68098
- Sperschneider, V. *see* Antonios, Grigoris, (91g:03006)
- Ștefănescu, Gheorghe *see* Căzănescu, Virgil Emil, 91k:68129
- Stolbomskii, A. P. Flow-diagrams with sets. 91f:68149
- Stomp, F. A. (with de Roeper, W. P.; Gerth, R. T.) The μ -calculus as an assertion-language for fairness arguments. 91k:68109
- Stoughton, Allen Equationally fully abstract models of PCF. 91m:68124
- Streett, Robert S. (with Emerson, E. Allen) An automata theoretic decision procedure for the propositional mu-calculus. 91c:68092
- Subrahmanian, V. S. Y-logic: a framework for reasoning about chameleonic programs with inconsistent completions. 91m:68125
- *see also* Hirani, Anil, 91k:68133
- Szalas, Andrzej (with Petermann, Uwe) On temporal logic for distributed systems and its application to processes communicating by interrupts. 91a:68192
- Thompson, Simon Lawful functions and program verification in Miranda. 91g:68116

- Thurn, Jerzy A simplified proof of $DDL < DL$. 91d:68067
- Vagis, A. G. Properties of languages of logical system simulation. (Russian. English summary) (Not in MR)
- Vardi, Moshe Y. *see Halpern, Joseph Y.*, 91f:68146
- Vermeir, Dirk *see Lasens, E.*, (91k:68012)
- Wahkiewicz, Igor Gentzen type axiomatization for PAL. 91i:68099
- von Wright, J. Program inversion in the refinement calculus. 91m:68126
- *see also* Back, R. J. R., 91m:68118
- Yodaiken, Victor A logic-free method for modular composition of specifications. (see 91m:68062)
- Zhou, Chao Chen Specification of communication systems with temporal logic. (Not in MR)
- *see also* Hansen, Michael R., (91h:68011)
- Zubovich, K. A. *see Drobushchik, G. A.*, (Not in MR)
- Zwiers, J. ★ Compositionality, concurrency and partial correctness. 91f:68150
- Items listed otherwise than by author
- Algebraic specification** ★ Algebraic specification. 91a:68193
- Items with secondary classifications in 68Q60
- Abadi, Martin An axiomatization of Lamport's temporal logic of actions. (see 91g:68003)
- (with Manna, Zohar) Nonclausal deduction in first-order temporal logic. 91m:03010
- Corrigendum: "The power of temporal proofs" [Theoret. Comput. Sci. 65 (1989), no. 1, 35–43; MR 90f:03058]. 91c:03024
- Achassova, S. M. Parallel microprograms as formal systems. 91i:68026
- Backhouse, Roland C. Constructive type theory—an introduction. 91i:68090
- (de Bakker, J. W.) *see Stepwise refinement of distributed systems*, 91g:68009
- van Benthem, Johan Time, logic and computation. 91f:03028
- Best, Elke ★ Kausale Semantik nichtsequentieller Programme. (German) [Causal semantics of nonsequential programs] 91i:68028
- Bird, Richard S. Lectures on constructive functional programming. 91c:68006
- Bradfield, Julian (with Stirling, Colin) Verifying temporal properties of processes. (see 91g:68003)
- Browne, M. C. (with Clarke, Edmund M.; Grumberg, Orna) Reasoning about networks with many identical finite state processes. 91a:68071
- Broy, Manfred Requirement and design specification for distributed systems. 91a:68072
- Cantone, Domenico (with Ferro, Alfredo; Omodeo, Eugenio) ★ Computable set theory. Vol. 1. 91i:03002
- Căzănescu, Virgil Emil (with Ștefănescu, Gheorghe) A formal representation of flowchart schemes. II. 91f:68133
- Clarke, Edmund M. *see Browne, M. C.*; et al., 91a:68071
- Cleaveland, Rance (with Steffen, Bernhard) A preorder for partial process specifications. (see 91g:68003)
- Constable, Robert L. Assigning meaning to proofs: a semantic basis for problem solving environments. 91d:68078
- Danelutto, M. (with Masini, A.) A temporal logic approach to specify and to prove properties of finite state concurrent systems. 91a:68075
- Davies, Jim (with Schneider, Steve) Factorizing proofs in timed CSP. (see 91e:68008)
- Dederichs, Frank (with Weber, Rainer) Safety and liveness from a methodological point of view. 91h:68053
- Dezani-Ciancaglini, M. (with Venneri, B.) Partial types and intervals. 91g:03035
- Emerson, E. Allen (with Srinivasan, Jai) Branching time temporal logic. 91a:03030
- Ferro, Alfredo *see Cantone, Domenico*; et al., 91i:03002
- Francez, Nissim Corrigenda: "Cooperating proofs for distributed programs with multiparty interactions" [Inform. Process. Lett. 32 (1989), no. 5, 235–242; MR 90m:68034a]. (Not in MR)
- Fribourg, Laurent A strong restriction of the inductive completion procedure. 91h:68066
- Fujita, Masahiro *see Nakamura, Hiroshi*; et al., (91k:68011)
- Gamm, Dominik (with Walter, Rolf) The distributed termination problem: formal solution and correctness based on Petri nets. (see 91h:68006)
- Gribomont, E. Pascal A programming logic for formal concurrent systems. (see 91g:68003)
- Grumberg, Orna *see Browne, M. C.*; et al., 91a:68071
- Gumb, Raymond D. ★ Programming logics. 91c:68085
- Habasiński, Zdzisław Propositional logics of programs: a guide to the satisfiability problem. (Polish summary) 91a:68178
- Hennessy, Matthew (with Ingólfadóttir, A.) A theory of communicating processes with value-passing. (see 91e:68004)
- Hennicker, Rolf Context induction: a proof principle for behavioural abstractions. (see 91e:68097)
- Hüttel, Hans SnS can be modally characterized. 91h:03050
- Ingólfadóttir, A. *see Hennessy, Matthew*, (91e:68004)
- Inverardi, P. (with Nesi, M.) A rewriting strategy to verify observational congruence. 91f:68103
- Janicki, Ryszard (with Müldner, Tomasz) Transformations of sequential specifications into concurrent specifications by synchronization guards. 91k:68050
- Kinber, Efm B. Inductive synthesis of programs for recursive functions from sample computations. (German and Russian summaries) 91k:03105
- Kono, Shinji *see Nakamura, Hiroshi*; et al., (91k:68011)
- Keymans, Ronald Leo Christiaan ★ Specifying message passing and time-critical systems with temporal logic. 91a:03036
- Lafont, Yves Primitive recursive categories and machines. (French summary) 91k:03106
- Larsen, Kim Gulstrand Ideal specification formalism = expressivity + compositionality + decidability + testability + ... (see 91g:68003)
- Manes, Ernest G. A transformational characterization of if-then-else. 91h:68119
- Manna, Zohar *see Abadi, Martin*, 91m:03010
- Masini, A. *see Danelutto, M.*, 91a:68075
- Misra, Jayadev A foundation of parallel programming. 91d:68020
- Müldner, Tomasz *see Janicki, Ryszard*, 91k:68050
- Nakai, Masaya *see Nakamura, Hiroshi*; et al., (91k:68011)
- Nakamura, Hiroshi (with Fujita, Masahiro; Nakai, Masaya; Kono, Shinji; Tanaka, Hidehiko) Logic design assistance using temporal logic based language Tokio. (see 91k:68011)
- Nesi, M. *see Inverardi, P.*, 91f:68103
- Nguyen Huu Chien (with Varga, László) Algebraic specification of an abstract high-level debugger. (Not in MR)
- Omodeo, Eugenio *see Cantone, Domenico*; et al., 91i:03002
- Paczowski, Paweł Proving termination of communicating programs. (see 91g:68003)
- Paeck, Barbara Gentzen-systems for propositional temporal logics. 91a:03024
- de Paiva, Valeria C. V. A Dialectica-like model of linear logic. 91a:03061
- Partsch, Helmut A. ★ Specification and transformation of programs. 91m:68019
- Passtor, Ana Recursive programs and denotational semantics in absolute logics of programs. 91h:68122
- Pfenning, Frank Program development through proof transformation. 91g:68019
- Piukiewicz, Regimantas Investigation of finitary calculi for the temporal logics by means of infinitary calculi. 91k:03048
- Plümer, Lotz Predicate inequalities as a basis for automated termination proofs for Prolog programs. 91a:68251
- ★ Termination proofs for logic programs. 91k:68026
- Przymusińska, Halina (with Przymusiński, Teodor C.) Weakly stratified logic programs. 91h:68123
- Przymusiński, Teodor C. *see Przymusińska, Halina*, 91h:68123
- Relf, John Henry (with Smolka, Scott A.) Data flow analysis of distributed communicating processes. 91h:68056
- (de Roeper, W. P.) *see Stepwise refinement of distributed systems*, 91g:68009
- (Rozenberg, Grzegorz) *see Stepwise refinement of distributed systems*, 91g:68009
- Schneider, Steve *see Davies, Jim*, (91e:68008)
- (Schwartz, Jacob T.) *see Cantone, Domenico*; et al., 91i:03002
- Smith, Jan M. Propositional functions and families of types. 91a:03016
- Smolka, Scott A. *see Relf, John Henry*, 91h:68056
- Song, Fang Min Relational logic of programs. (Chinese. English summary) (Not in MR)
- Srinivasan, Jai *see Emerson, E. Allen*, 91a:03030
- Stark, W. Richard A logic for distributed processes. 91f:68139
- Ștefănescu, Gheorghe *see Căzănescu, Virgil Emil*, 91f:68133
- Steffen, Bernhard *see Cleaveland, Rance*, (91g:68003)
- Stirling, Colin *see Bradfield, Julian*, (91g:68003)
- Tanaka, Hidehiko *see Nakamura, Hiroshi*; et al., (91k:68011)
- Taubner, Dirk (with Vogler, Walter) Step failures semantics and a complete proof system. 91a:68086
- Varga, László *see Nguyen Huu Chien*, (Not in MR)
- Venneri, B. *see Dezani-Ciancaglini, M.*, 91g:03035
- Vogler, Walter *see Taubner, Dirk*, 91a:68086
- Walter, Rolf *see Gamm, Dominik*, (91h:68006)
- Wahkiewicz, Igor Decision procedure for checking validity of PAL formulas. 91j:03032
- Weber, Rainer *see Dederichs, Frank*, 91h:68053
- Winskel, Glynn A note on model checking the modal ν -calculus. 91f:68055
- Items listed otherwise than by author
- Lecture Notes in Computer Science** ★ Stepwise refinement of distributed systems. 91g:68009
- Mook** ★ Stepwise refinement of distributed systems. 91g:68009
- Stepwise refinement of distributed systems** ★ Stepwise refinement of distributed systems. 91g:68009
- Workshop**
- Stepwise Refinement of Distributed Systems** ★ Stepwise refinement of distributed systems. 91g:68009

68Q65 Abstract data types; algebraic specification

- Astesiano, Egidio (with Wirsing, Martin) Bisimulation in algebraic specifications. 91f:68106
- Beer, Catriel (with Kornatzky, Yoram) Algebraic optimization of object-oriented query languages. 91k:68135
- Bergstra, J. A. (with Heering, Jan; Klint, Paul) Module algebra. 91g:68117
- Crutis, Janis Correction: "Abstract description of data types and varieties of data algebras" [in *Algebra and discrete mathematics: the theoretical foundations of software* (Russian), 131–144, Latv. Gos. Univ., Riga, 1986; MR 88i:68072]. (Russian. English summary) 91h:68079
- Coburn, Neil *see Weddell, G. E.*, (91h:68010)
- Dutta, Diptendu *see McCrosky, Carl*, 91a:68195
- Ehrlich, Hans-Dieter (with Sernadas, Amílcar; Sernadas, Cristina) Objects, object types, and object identification. 91h:68080
- (with Sernadas, Amílcar; Sernadas, Cristina) From data types to object types. (German and Russian summaries) 91c:68110
- Ehrig, Hartmut (with Mahr, Bernd) ★ Fundamentals of algebraic specification. 2. 91f:68151
- *see also* Orejas, F.; et al., 91h:68083
- Feh, You-Chin (with Mishra, Prateek) Type inference with subtypes. 91h:68127
- Gagliardi, G. (with Tulipani, S.) On algebraic specifications of computable algebras with the discriminator technique. (French summary) 91k:68136
- Gardiner, P. H. B. *see Morgan, C. Carroll*, 91e:68111
- Ghelli, Giorgio Modelling features of object-oriented languages in second order functional languages with subtypes. (see 91m:68006)
- Grosse-Rhode, Martin Parameterized data type and process specifications using projection algebras. 91c:68093
- Hagino, Tatsuya Codatatypes in ML. (Not in MR)
- Heering, Jan *see Bergstra, J. A.*; et al., 91g:68117
- Hennicker, Rolf Context induction: a proof principle for behavioural abstractions. (see 91e:68097)

- Hiroyuki, Sato e-coc: between coc and topos—its expressive power from the viewpoint of data type theory. (Not in MR)
- Hyland, J. M. E. (with Robinson, Edmund; Rosolini, Giuseppe) Algebraic types in PER models. 91b:68128
- Kasymov, N. Kh. (with Morozov, A. S.) Logic aspects of the theory of abstract data types. (Russian) 91b:68081
- Klint, Paul see Bergstra, J. A.; et al., 91b:68117
- Kornatzky, Yoram see Beerl, Catriel, 91b:68135
- Kreowski, Hans-Jörg Colimits as parameterized data types. 91b:68082
- (with Qian, Zhenyu) Relation-sorted algebraic specifications with built-in coercers: basic notions and results. (see 91b:68011)
- Lellahi, S. K. Categorical abstract data type (CADT). 91a:68194
- Mahr, Bernd see Ehrig, Hartmut, 91b:68151
- Manca, Vincenzo (with Salibra, Antonino) Equational calculi for many-sorted algebras with empty carrier sets. 91j:68089
- (with Salibra, Antonino; Scollo, G.) Equational type logic. 91j:68088
- Marongiu, G. (with Tulipani, S.) On a conjecture of Bergstra and Tucker. 91b:68152
- McCroskey, Carl (with Dutta, Diptendu) A type-theoretic semantics of arrays. 91a:68195
- Mishra, Prateek see Feh, You-Chin, 91b:68127
- Morgan, C. Carroll (with Gardiner, P. H. B.) Data refinement by calculation. 91b:68111
- Morozov, A. S. see Kasymov, N. Kh., 91b:68081
- Moss, Lawrence S. (with Thattai, Satish R.) Optimal semantics of data type extensions. 91b:68137
- Nguyen Hui Chien (with Varga, László) Algebraic specification of an abstract high-level debugger. (Not in MR)
- Nivela, M. P. see Orejas, F.; et al., 91b:68083
- Orejas, F. (with Nivela, M. P.; Ehrig, Hartmut) Semantical constructions for categories of behavioural specifications. 91b:68083
- Pasztor, Ana A sup-preserving completion of ordered partial algebras. 91b:68138
- Paulin-Mohring, Christine see Pfennig, Frank, (91b:68008)
- Pfennig, Frank (with Paulin-Mohring, Christine) Inductively defined types in the calculus of constructions. (see 91b:68008)
- Poigné, Axel Parametrization for order-sorted algebraic specification. 91j:68090
- Qian, Zhenyu Relation-sorted algebraic specifications with built-in coercers: parameterization and parameter passing. 91b:68084
- Higher-order order-sorted algebras. 91j:68091
- see also Kreowski, Hans-Jörg, (91b:68011)
- Reynaud, Jean-Claude Putting algebraic components together: a dependent type approach. (see 91b:68007)
- Rittri, Mikael Using types as search keys in function libraries. (Not in MR)
- Robinson, Edmund see Hyland, J. M. E.; et al., 91b:68128
- Rosolini, Giuseppe see Hyland, J. M. E.; et al., 91b:68128
- Runciman, Colin (with Toyn, Ian) Retrieving reusable software components by polymorphic type. (Not in MR)
- Salibra, Antonino see Manca, Vincenzo; et al., 91b:68088 and 91j:68089
- Schmidt, Erik M. (with Schwartzbach, Michael I.) An imperative type hierarchy with partial products. 91b:68094
- Schoett, Oliver Behavioural correctness of data representations. 91b:68118
- Schwartzbach, Michael I. see Schmidt, Erik M., 91b:68094
- Scollo, G. see Manca, Vincenzo; et al., 91j:68088
- Sernadas, Amílcar see Ehrlich, Hans-Dieter; et al., 91b:68080 and 91b:68110
- Sernadas, Cristina see Ehrlich, Hans-Dieter; et al., 91b:68080 and 91b:68110
- Subrahmanyam, Ramesh Complexity of algebraic specifications. 91b:68139
- Thattai, Satish R. see Moss, Lawrence S., 91b:68137
- Toyn, Ian see Runciman, Colin, (Not in MR)
- Tucker, J. V. (with Zucker, J. I.) Toward a general theory of computation and specification over abstract data types. (see 91m:68002)
- (with Wainer, S. S.; Zucker, J. I.) Provable computable functions on abstract data types. (see 91b:68004)
- Tulipani, S. see Marongiu, G., 91b:68152 and Gagliardi, G., 91b:68136
- Varga, László see Nguyen Hui Chien, (Not in MR)
- Wagner, Eric G. All recursive types defined using products and sums can be implemented using pointers. 91m:68127
- Wainer, S. S. see Tucker, J. V.; et al., (91b:68004)
- Weddell, G. E. (with Coburn, Neil) A theory of specialization constraints for complex objects. (see 91b:68010)
- Wirsing, Martin see Astesiano, Egidio, 91b:68100
- Wraith, G. C. A note on categorical datatypes. 91a:68196
- Zucker, J. I. see Tucker, J. V.; et al., (91b:68004) and (91m:68002)
- Items with secondary classifications in 68Q65
- Baeten, J. C. M. (with Bergstra, J. A.) Process algebra with a zero object. (see 91b:68003)
- Bergstra, J. A. see Baeten, J. C. M., (91b:68003) and Algebraic specification, 91a:68193
- Boehm, Paul see Ehrig, Hartmut; et al., 91b:68116
- Dimitrović, Cristian see Ehrig, Hartmut; et al., 91b:68116
- Debritis, V. P. Data types and enumerable classes of constructive models. (Russian) 91j:68025
- Ehrig, Hartmut A categorical concept of constraints for algebraic specifications. 91b:68104
- (with Parisi-Presicce, Francesco; Boehm, Paul; Rieckhoff, Catharina; Dimitrović, Cristian; Grosse-Rhode, Martin) Combining data type and recursive process specifications using projection algebras. 91m:68116
- Gigerich, Robert Code selection by inversion of order-sorted derivors. 91m:68112
- Goguen, Joseph A. see Meseguer, José; et al., 91b:68106 and (91j:68006)
- Grosse-Rhode, Martin see Ehrig, Hartmut; et al., 91b:68116
- (Heering, Jan) see Algebraic specification, 91a:68193
- Herlihy, Maurice Apologizing versus asking permission: optimistic concurrency control for abstract data types. (Not in MR)
- Kalinichenko, L. A. (with Manukyan, M. G.) Language tools of a time-oriented data model. (Not in MR)
- (Klint, Paul) see Algebraic specification, 91a:68193

- Krivine, Jean-Louis Opérateurs de mise en mémoire et traduction de Gödel. (English summary) [Storage operators and the Gödel translation] 91j:03011
- Manukyan, M. G. see Kalinichenko, L. A., (Not in MR)
- Meseguer, José (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification. 91b:68106
- (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification [MR 91b:68106]. (see 91j:68006)
- Parisi-Presicce, Francesco see Ehrig, Hartmut; et al., 91m:68116
- Paulson, Lawrence C. A formulation of the simple theory of types (for Isabelle). (see 91b:03004)
- Pfenning, Frank Program development through proof transformation. 91b:68019
- Rieckhoff, Catharina see Ehrig, Hartmut; et al., 91b:68116
- Smolka, Gert see Meseguer, José; et al., 91b:68106 and (91j:68006)

Items listed otherwise than by author

Algebraic specification ★ Algebraic specification. 91a:68193

68Q68 Automata theory, general [see also 03D05]

- Bogomolov, S. A. Reconstruction of an automaton from experiments. 91b:68129
- Mostowski, A. W. Alternating automata with start formulas. 91b:68140
- Nivat, Maurice (with Podelski, Andreas) Tree monoids and recognizability of sets of finite trees. 91b:68141
- Podelski, Andreas see Nivat, Maurice, 91b:68141
- Podkolzin, A. S. (with Ush-chumlich, Sh. M.) Solution of systems of automaton equations. (Russian) 91m:68128
- Ush-chumlich, Sh. M. see Podkolzin, A. S., 91m:68128
- Items with secondary classifications in 68Q68
- Bull, Mathias (with Hemmerling, Armin) New results on lower bounds in labyrinth theory. (see 91m:68007)
- Derrida, Bernard Dynamical phase transitions in spin models and automata. (see 91k:82003)
- Hemmerling, Armin see Bull, Mathias, (91m:68007)
- Koval', V. N. ★ Элементы математического аппарата анализа процессов. (Russian) [Elements of a mathematical apparatus for the analysis of processes] 91b:68157
- Krithivasan, Kamala see Venkatasubramanian, S.; et al., 91b:68136
- Pandu Rangan, C. see Venkatasubramanian, S.; et al., 91b:68136
- Thomas, Wolfgang Automata and quantifier hierarchies. 91b:68082
- Ushakov, I. B. see Velbitskii, I. V., 91b:68083
- Velbitskii, I. V. (with Ushakov, I. B.) ★ Классификация P-схем на основе автоматной интерпретации и эквивалентные преобразования P-схем. (Russian) [Classification of P-schemes on the basis of automatic interpretation, and equivalent transformations of P-schemes] 91b:68083
- Venkatasubramanian, S. (with Krithivasan, Kamala; Pandu Rangan, C.) Algorithms for weighted graph problems on the modified cellular graph automaton. (French summary) 91b:68136

68Q70 Algebraic theory of automata [see also 18B20, 20M35]

- Ádám, András On simplicity-critical Moore automata. II. 91a:68197
- Arnold, André Recognizable sets of finite bilabelled transition systems. 91b:68142
- Babcsányi, István Maximal prefix codes and strongly connected automata. (see 91b:68004)
- Barashko, A. S. Simple classes of statistical equivalence for deterministic automata. (Russian) 91b:68119
- (with Skobelev, V. G.) Statistically reducible automata. 91a:68198
- (Bhattacharya, A. B.) see Bhattacharya, Asok, 91b:68153
- Bhattacharya, Asok ★ Checking experiments in sequential machines. 91b:68153
- Brazowski, J. A. (with Jürgensen, H.) Deterministic diagnosis of sequential machines (extended summary). (see 91b:68004)
- Chandra, V. see Vinay, V., 91j:68095
- Chatterjee, Bani see Ray, A. K.; et al., 91b:68106
- Chernyi, D. E. see Spivak, M. A., (91b:20005)
- Chirkov, M. K. (with Shestakov, A. A.) A problem of reducing an automaton input alphabet. (Russian) 91b:68088
- see also Miroshnichenko, I. D., (Not in MR)
- Chmiel, Krzysztof The partition method for finding SC-preimages of finite automata. (Polish. English summary) 91a:68199
- Clay, James R. see Fang, Yüan, 91b:68157
- Crochemore, Maxime (with Rytter, Wojciech) Parallel construction of minimal suffix and factor automata. 91b:68101
- Culik, Karel II (with Dube, Simant) Affine automata: a technique to generate complex images. 91b:68102
- (with Karhumäki, Juhani) Loops in automata and HDTOL relations. (French summary) 91j:68092
- Dömös, Pál On temporal products of automata. 91b:68154
- (with Esik, Zoltán) On homomorphic realization and homomorphic simulation of automata by a_0 -products. 91b:68130
- (with Fazekas, Gábor) On the constructive derivation of automata with composition. (see 91b:68004)
- (with Esik, Zoltán; Imreh, B.) On product hierarchies of automata. 91a:68200
- (with Gécseg, F.) Simulation by ν^* -products of automata. 91b:68103
- (with Esik, Zoltán) Product hierarchies of automata and homomorphic simulation. 91b:68143
- Duan, Zhen-Hua see Hao, Ke-Gang, (Not in MR)
- Dube, Simant see Culik, Karel, II, 91b:68102
- Esik, Zoltán An extension of the Krohn-Rhodes decomposition of automata. 91a:68089
- On α_1^* -products of automata. 91b:68155
- A note on isomorphic simulation of automata by networks of two-state automata. 91b:68129

- see also Dömölai, Pál; et al., 91a:68200; 91h:68130 and 91k:68143
- Fachini, E. (with Maggiolo-Schettini, Andrea; Resta, G.; Sangiorgi, D.) Some structural properties of systolic tree automata. 91f:68156
- Fakhmi, M. Kh. Homomorphisms of an algebra of sequential functions. (Russian) 91c:68095
- Fang, Yuan (with Clay, James R.) Computer programs for investigating syntactic near-rings of finite group-semiautomata. 91f:68157
- Fazekas, Gábor see Dömölai, Pál, 91h:68004
- Frøysny, Christiane Fibonacci representations and finite automata. 91k:68144
- Fülöp, Zoltán (with Vágvolgyi, Sándor) A complete rewriting system for a monoid of tree transformation classes. 91h:68131
- Gécseg, F. (with Imreh, B.) On star-products of automata. 91f:68158
- (with Jürgensen, H.) Automata represented by products of soliton automata. 91j:68093
- see also Dömölai, Pál, 91h:68103
- Gesztesy, Erő An application of Gécseg's generalized product of automata for the memory expansion of processors. (see 91b:68004)
- Gobechia, M. I. A finite sequence of identities of some bi-automata. (Russian. English and Georgian summaries) (Not in MR)
- Golumkov, Yu. V. Completeness modulo an ideal in functional systems of program type. (Russian) 91k:68145
- Grunskii, I. S. Conditions for representing an automaton by fragments of behavior with given accuracy. (Russian) 91h:68132
- Hao, Ke Gang (with Duan, Zhen Hua) Two fundamental theorems on traceable automata. (Chinese. English summary) (Not in MR)
- Heibisch, Udo The Kleene theorem in countably complete semirings. 91f:68104
- Hofer, Gerhard Left ideals and reachability in machines. 91c:68096
- Imreh, B. see Dömölai, Pál; et al., 91a:68200 and Gécseg, F., 91f:68158
- Ito, Masami Homomorphisms and automorphism groups of nondeterministic automata. 91c:68090
- Jebelan, Tudor Bilinear automata. 91h:68133
- Jürgensen, H. see Gécseg, F., 91j:68093 and Brozowski, J. A., 91h:68004
- Karhumäki, Juhani see Culik, Karel, II, 91j:68092
- Kilbarda, G. Universal labyrinth traps for finite sets of automata. (Russian) 91j:68094
- Kim, Doo-Ho (with Park, Chün-Hong) Algebraic properties associated with input semigroup S of an automaton. 91g:68120
- Kopytova, O. M. Homogeneous countability of sets of output words. (Russian) 91f:68159
- Kozen, Dexter On Kleene algebras and closed semirings. 91m:68130
- Kutylovskii, Miroslav One-way multihead finite automata and 2-bounded languages. 91h:68134
- Maggiolo-Schettini, Andrea see Fachini, E.; et al., 91f:68156
- Majumdar, A. K. see Ray, A. K.; et al., 91f:68106
- Malygin, V. I. Superpositions of automata and linear spaces connected with them. (Russian) 91h:68121
- The feedback operation and a class of group automata. (Russian) 91k:68146
- Miroshnichenko, I. D. (with Chirkov, M. K.) Minimization of generalized finite automata with periodically changing structure. (Russian) (Not in MR)
- Muller, D. E. see Saoudi, A.; et al., 91k:68147
- Niemelä, Lassi On the directability of automata. 91f:68160
- Park, Chün-Hong see Kim, Doo-Ho, 91g:68120
- Peretrukhin, V. V. Modeling and decomposition of automata by means of calculators. (Russian) 91f:68161
- Ponomarenko, G. G. Powers of automata and roots of acceptors. (Russian) 91f:68162
- Primenko, E. A. (with Skvortsov, E. F.) Conditions for regularity of finite autonomous automata. (Russian) 91f:68105
- Ray, A. K. (with Chatterjee, Bani; Majumdar, A. K.) A formal power series approach to the construction of minimal fuzzy automata. 91f:68106
- Rayward-Smith, V. J. Mealy machines as coding devices. 91a:68201
- Resta, G. see Fachini, E.; et al., 91f:68156
- Rich, Craig A. (with Slutzki, Giora) The complexity of a counting finite state automaton. 91m:68131
- Rudeanu, Sergiu Behaviouristic automata. I. Minimal automata. 91m:68132
- Ryabinin, A. V. Stochastic functions of finite automata. (Russian) (see 91k:68013)
- Rytter, Wojciech see Crochemore, Maxime, 91f:68101
- Sangiorgi, D. see Fachini, E.; et al., 91f:68156
- Saoudi, A. (with Muller, D. E.; Schupp, P. E.) Recognizable infinite tree sets and their complexity. 91k:68147
- Schupp, P. E. see Saoudi, A.; et al., 91k:68147
- Serra, Micaela Algebraic analysis and algorithms for linear cellular automata over GF(2) and the applications to digital circuit testing. 91g:68122
- Shostakov, A. A. see Chirkov, M. K., 91d:68088
- Shimko, N. A. Peculiarities of the realization of boundedly deterministic functions by schemes of unreliable elements. 91h:68135
- Skobeev, V. G. see Barashko, A. S., 91a:68198
- Skvortsov, E. F. see Primenko, E. A., 91f:68105
- Slutzki, Giora see Rich, Craig A., 91m:68131
- Spirak, M. A. (with Chernyi, D. E.) Investigation of some constructions of a diagnostic and a resettable automaton. (see 91c:20005)
- Tanaka, Genjirō On characteristic semigroups of Mealy automata. 91a:68202
- Thérien, Denis Programs over aperiodic monoids. 91a:68203
- Vágvolgyi, Sándor see Fülöp, Zoltán, 91h:68131
- Vardi, Moshe Y. Endmarkers can make a difference. 91g:68123
- Vinay, V. (with Chandru, V.) The expressibility of nondeterministic auxiliary stack automata and its relation to treesize bounded alternating auxiliary pushdown automata. 91j:68095
- Wang, Xiang Hao A factorization problem. 91h:68107
- Yamasaki, Hideki Language-theoretical representations of ω -languages. 91a:68204
- Zharaspaev, K. Sh. On the finiteness of the number of hyperschemes of a pushdown automaton. 91g:68124
- Items with secondary classifications in 68Q70
- Adámek, Jiří (with Trnková, Věra) Automata and algebras in categories. 91j:18008
- Anselmo, M. Two-way automata with multiplicity. (see 91c:68004)
- Arbib, Michael A. From universal Turing machines to self-reproduction. (see 91b:03004)
- Atanasiu, Adrian Queue memory automata. (Not in MR)
- Babin, D. N. Completeness of two-place boundedly deterministic functions with respect to superposition. (Russian) 91k:94059
- Berstel, Jean (with Reutenauer, Christophe) Zeta functions of formal languages. 91f:68110
- Birget, Jean-Camille Two-way automaton computations. (French summary) 91g:68091
- Büchi, J. Richard Finite automata, their algebras and grammars. 91h:68057
- Courcelle, Bruno The monadic second-order logic of graphs. I. Recognizable sets of finite graphs. 91g:05107
- Culik, Karel, II (with Karhumäki, Juhani) Matching computations in (equivalent) automata. (see 91b:68004)
- New techniques for proving the decidability of equivalence problems. 91g:68093
- Fokas, A. S. (with Papadopoulos, E. P.; Saridakis, Yiannis G.) Coherent structures in cellular automata. 91g:58138
- Fülöp, Zoltán (with Vágvolgyi, Sándor) On domains of 2-modular tree transducers. 91d:68067
- Hackenbeck, Ulrich On fixed points of rational functions with values on a circle. (Italian summary) 91c:26024
- Karhumäki, Juhani see Culik, Karel, II, 91h:68004
- Kolyada, K. V. Relatively universal regular mappings. (Russian) (see 91k:00013)
- Kučik, Werner Polynomialalgebren, algebraische Systeme und Kellerautomaten. [Polynomial algebras, algebraic systems and Keller automata] 91k:68112
- Mendes France, Michel The Ising transducer. (French summary) 91g:82018
- Monti, A. (with Parente, D.) Comparison results for particular systolic tree automata. 91m:68053
- Néraud, Jean On the deficit of a finite set of words. 91g:20097
- Papadopoulos, E. P. see Fokas, A. S.; et al., 91g:58138
- Parente, D. see Monti, A., 91m:68053
- Pelletier, Maryse Monoids described by pushdown automata. 91j:20162
- Reinhardt, Klaus Hierarchies over the context-free languages. 91j:03053
- Restivo, Antonio Codes and automata. 91k:94024
- Reutenauer, Christophe see Berstel, Jean, 91f:68110
- Saridakis, Yiannis G. see Fokas, A. S.; et al., 91g:58138
- Seidl, Helmut Deciding equivalence of finite tree automata. 91g:68059
- (Siefkes, Dirk) see Büchi, J. Richard, 91h:68057
- Skurczyński, Jerzy The Borel hierarchy is infinite in the class of regular sets of trees. 91g:03080
- Stark, Eugene W. Connections between a concrete and an abstract model of concurrent systems. 91h:68049
- Straubing, Howard (with Thérien, Denis) Finite automata and computational complexity. 91f:68044
- Thérien, Denis see Straubing, Howard, 91f:68044
- Tirri, Seppo The congruence theory of closure properties of regular tree languages. 91j:68072
- Trnková, Věra see Adámek, Jiří, 91j:18008
- Tucci, Ralph P. A decomposition theorem for a class of infinite transformation semigroups. 91f:20071
- Vágvolgyi, Sándor see Fülöp, Zoltán, 91d:68067
- Wiegandt, Richard On splitting torsion theories of acts. 91k:20080
- Items listed otherwise than by author
- Obituary:
- Büchi, J. Richard see Büchi, J. Richard, 91h:68057

68Q75 Stochastic and nondeterministic automata

- Alpin, Yu. A. (with Kochkarev, B. S.; Mubarakzyanov, R. G.) Stable generation of random sequences by probabilistic automata. (Russian) 91m:68133
- Dassow, Jürgen (with Jürgensen, H.) Soliton automata. 91g:68125
- Dwork, Cynthia (with Stockmeyer, Larry) A time complexity gap for two-way probabilistic finite-state automata. 91k:68148
- Gupta, Amritava (with Sen Gupta, Arundhati) State minimization of probabilistic Moore-machines by method of quotient machines. 91h:68085
- Jürgensen, H. see Dassow, Jürgen, 91g:68125
- Kapeps, Jānis Stochasticity of languages that can be recognized by two-sided finite probabilistic automata. (Russian) 91f:68163
- Kochkarev, B. S. see Alpin, Yu. A.; et al., 91m:68133
- Mubarakzyanov, R. G. see Alpin, Yu. A.; et al., 91m:68133
- Orlov, V. A. Finding probability characteristics of schemes in automaton bases. (Russian) 91h:68136
- Pletnev, A. I. Stochastic automata in problems of the adaptive choice of variants. (Not in MR)
- Sen Gupta, Arundhati see Gupta, Amritava, 91h:68085
- Stockmeyer, Larry see Dwork, Cynthia, 91k:68148
- Items with secondary classifications in 68Q75
- Ablav, F. M. On comparing probabilistic and deterministic automata complexity of languages. 91f:68107
- Barashko, A. S. (with Skobeev, V. G.) Statistically reducible automata. 91a:68198
- Freivalds, Rūsiņš see Kapeps, Jānis, 91h:68011
- Goldstine, Jonathan (with Kintala, C. M. R.; Wotschke, Detlef) On measuring nondeterminism in regular languages. 91f:68081
- Ibarra, Oscar H. see Ravikumar, Bala, 91a:68063
- Kapeps, Jānis (with Freivalds, Rūsiņš) Minimal nontrivial space complexity of probabilistic one-way Turing machines. (see 91h:68011)
- Kintala, C. M. R. see Goldstine, Jonathan; et al., 91f:68081

- Ravikumar, Bala (with Ibarra, Oscar H.) Relating the type of ambiguity of finite automata to the succinctness of their representation. 91a:68063
 Skobelev, V. G. see Barashko, A. S., 91a:68198
 Wotschke, Detlef see Goldstine, Jonathan; et al., 91i:68081

68Q80 Tessellation automata, iterative arrays, cellular structures

- Barbé, André M. A cellular automaton ruled by an eccentric conservation law. 91k:68149
 Bays, Carter The discovery of a new glider for the game of three-dimensional life. (Not in MR)
 Bleris, G. L. see Pitsianis, N.; et al., 91e:68114
 Card, Howard C. see Pitsianis, N.; et al., 91e:68114
 Culik, Karel, II (with Pachl, Jan; Yu, Sheng) On the limit sets of cellular automata. 91e:68112
 — (with Hurd, Lyman P.; Yu, Sheng) Computation theoretic aspects of cellular automata. 91k:68150
 — (with Hurd, Lyman P.; Yu, Sheng) Formal languages and global cellular automaton behavior. 91k:68151
 Fachini, E. (with Maggiolo-Schettini, Andrea; Sangiorgi, D.) Comparisons among classes of Y-tree systolic automata. (see 91h:68011)
 Ferber, Reginald Iteration on sets of configurations. 91m:68134
 Fokas, A. S. (with Papadopoulos, E. P.; Saridakis, Yiannis G.) Soliton cellular automata. (Not in MR)
 Giorgadze, A. Kh. (with Muskheli, E. G.) Decomposition of cellular automata. (Russian. English and Georgian summaries) (Not in MR)
 Goles Ch., Eric (with Martínez, Servet) Lyapunov functionals for automata networks defined by cyclically monotone functions. 91m:68135
 Gritsak, V. V. (with Tarasova, L. G.) Cellular automata for information processing. (Russian. English summary) 91j:68096
 Gunji, Yukio The algebraic properties of finite cellular automata. 91e:68113
 Han, Yijie (with Igarashi, Yoshihide) Time lower bounds for parallel sorting on a mesh-connected processor array. 91f:68164
 Hurd, Lyman P. Recursive cellular automata invariant sets. 91g:68126
 — see also Culik, Karel, II; et al., 91k:68150 and 91k:68151
 Igarashi, Yoshihide see Han, Yijie, 91f:68164
 Jen, Erica Preimages and forecasting for cellular automata. (see 91m:00034)
 Kaldewall, Anne (with Rem, Martin) The derivation of systolic computations. 91i:68108
 Kari, Jarkko Reversibility of 2D cellular automata is undecidable. 91k:68152
 Kim, Sam (with McCloskey, Robert) A characterization of constant-time cellular automata computation. 91m:68136
 Korec, Ivan Semilinear real-time systolic trellis automata. 91a:68205
 Kuz'muk, V. V. see Vasil'ev, V. V., 91h:68138
 Li, Wentian (with Packard, Norman H.) The structure of the elementary cellular automata rule space. (Not in MR)
 Lindgren, Kristian (with Nordahl, Mats G.) Universal computation in simple one-dimensional cellular automata. (Not in MR)
 Maggiolo-Schettini, Andrea see Fachini, E.; et al., (91h:68011)
 Martínez, Servet see Goles Ch., Eric, 91m:68135
 McCloskey, Robert see Kim, Sam, 91m:68136
 Kari, Jarkko see Igarashi, Yoshihide, 91f:68164
 Muskheli, E. G. see Giorgadze, A. Kh., (Not in MR)
 Nordahl, Mats G. Formal languages and finite cellular automata. (Not in MR)
 — see also Lindgren, Kristian, (Not in MR)
 Pachl, Jan see Culik, Karel, II; et al., 91e:68112
 Packard, Norman H. see Li, Wentian, (Not in MR)
 Papadopoulos, E. P. Recent developments in soliton cellular automata. 91h:68137
 — see also Fokas, A. S.; et al., (Not in MR)
 Pitsianis, N. (with Tsalides, Ph.; Bleris, G. L.; Thanailakis, A.; Card, Howard C.) Deterministic one-dimensional cellular automata. 91e:68114
 Quasthoff, Uwe (with Schüler, Axel) Cellular automata and symbolic dynamics. (see 91e:58003)
 Rem, Martin see Kaldewall, Anne, 91i:68108
 Sangiorgi, D. see Fachini, E.; et al., (91h:68011)
 Saridakis, Yiannis G. see Fokas, A. S.; et al., (Not in MR)
 Sasagawa, Fumiyoshi Stable configurations in cell space under the threshold type transition rule. 91g:68127
 Schüler, Axel see Quasthoff, Uwe, (91e:58003)
 Setzer, Klaus The computational complexity of cellular automata. 91a:68206
 — The σ -game and cellular automata. 91k:68153
 — Classifying circular cellular automata. 91k:68154
 Takahashi, Satoshi Cellular automata and multifractals: dimension spectra of linear cellular automata. 91k:68155
 Tarasova, L. G. see Gritsak, V. V., 91j:68096
 Thanailakis, A. see Pitsianis, N.; et al., 91e:68114
 Tsalides, Ph. see Pitsianis, N.; et al., 91e:68114
 Vasil'ev, V. V. (with Kuz'muk, V. V.) * Сети Петри, параллельные алгоритмы и модели мультипроцессорных систем. (Russian) [Petri nets, parallel algorithms and models of multiprocessor systems] 91h:68138
 Vichniac, Gérard Y. Boolean derivatives on cellular automata. 91k:68156
 Voorhees, Burton Entropy of additive cellular automata. 91b:68086
 — Nearest neighbor cellular automata over Z_2 with periodic boundary conditions. 91m:68137
 Yu, Sheng see Culik, Karel, II; et al., 91e:68112; 91k:68150 and 91k:68151
- Items with secondary classifications in 68Q80
- Abelowitz, Mark J. Nonlinear evolution equations, inverse scattering and cellular automata. 91k:35214
 Binder, P. M. Topological classification of cellular automata. (Not in MR)
 Boghosian, Bruce M. Lattice gases. (see 91m:00034)
 Chen, Hudong (with Matthaeus, W. H.; Klein, L. W.) Theory of multicolor lattice gas: a cellular automaton Poisson solver. 91k:82015
- De Masi, A. (with Esposito, Raffaele; Lebowitz, Joel L.; Presutti, Errico) Hydrodynamics of stochastic cellular automata. 91g:82052
 Derrida, Bernard Dynamical phase transitions in networks of random automata. 91a:82052
 Esposito, Raffaele see De Masi, A.; et al., 91g:82052
 Fokas, A. S. (with Papadopoulos, E. P.; Saridakis, Yiannis G.) Coherent structures in cellular automata. 91g:58138
 Gani, Joseph Mark see Yakowitz, S.; et al., (Not in MR)
 Gerhardt, Martin (with Schuster, Heike; Tyson, John J.) A cellular automaton model of excitable media including curvature and dispersion. 91a:92003
 Goles Ch., Eric (with Martínez, Servet) * Neural and automata networks. 91h:58059
 Gruska, Jozef Synthesis, structure and power of systolic computations. 91i:68022
 Gutowitz, Howard see Cellular automata: theory and experiment, 91j:68003
 Hasselacher, Brosl (with Meyer, David A.) Knot invariants and cellular automata. 91m:82035
 Hatori, Tadatsugu Magnetohydrodynamic cellular automata. 91f:76044
 Hayes, R. see Yakowitz, S.; et al., (Not in MR)
 Herrmann, Hans J. Cellular automata. 91i:82022
 Hersbach, Hans A cellular automaton for a solvable Boltzmann equation. 91k:82054
 Hurd, Lyman P. Nonrecursive cellular automata invariant sets. 91d:68068
 Hurley, Mike Attractors in cellular automata. 91d:58139
 Ibarra, Oscar H. (with Jiang, Tao¹) Optimal simulation of tree arrays by linear arrays. 91c:68071
 Inoue, Katsushi see Ito, Akira; et al., 91a:68058
 Ito, Akira (with Inoue, Katsushi; Takamami, Itsuo) Deterministic two-dimensional on-line tessellation acceptors are equivalent to two-way two-dimensional alternating finite automata through 180° -rotation. 91a:68058
 Jiang, Tao¹ see Ibarra, Oscar H., 91c:68071
 Klein, L. W. see Chen, Hudong; et al., 91i:82015
 Korec, Ivan Pascal triangles modulo n and modular trellises. (Russian summary) 91f:68129
 Lebowitz, Joel L. (with Orlandi, Enzo; Presutti, Errico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001
 — (with Maes, Christian; Speer, Eugene R.) Probabilistic cellular automata: some statistical mechanical considerations. (see 91m:00034)
 — (with Maes, Christian; Speer, Eugene R.) Statistical mechanics of probabilistic cellular automata. 91i:82012
 — see also De Masi, A.; et al., 91g:82052
 Maes, Christian see Lebowitz, Joel L.; et al., 91i:82012 and (91m:00034)
 Martínez, Servet see Goles Ch., Eric, 91h:58059
 Matthaeus, W. H. see Chen, Hudong; et al., 91i:82015
 Meyer, David A. see Hasselacher, Brosl, 91m:82035
 Moulin Ollagnier, Jean Sur quelques classes d'applications de N^2 dans les ensembles finis. (English summary) [On some classes of mappings of N^2 into finite sets] 91k:68113
 Orlandi, Enzo see Lebowitz, Joel L.; et al., 91m:76001
 Papadopoulos, E. P. see Fokas, A. S.; et al., 91g:58138
 Papatzacos, Paul Cellular automaton model for fluid flow in porous media. (Not in MR)
 Pippenger, Nicholas Invariance of complexity measures for networks with unreliable gates. 91f:68010
 Presutti, Errico see De Masi, A.; et al., 91g:82052 and Lebowitz, Joel L.; et al., 91m:76001
 Saridakis, Yiannis G. see Fokas, A. S.; et al., 91g:58138
 Satsuma, Junkichi see Takahashi, Daisuke, 91i:58075
 Schonmann, Roberto H. Critical points of two-dimensional bootstrap percolation-like cellular automata. 91f:82038
 — Finite size scaling behavior of a biased majority rule cellular automaton. 91m:82087
 Schuster, Heike see Gerhardt, Martin; et al., 91a:92003
 van de Snoepcheut, Jan L. A. (with Swenker, Johan B.) On the design of some systolic algorithms. (Not in MR)
 Speer, Eugene R. see Lebowitz, Joel L.; et al., 91i:82012 and (91m:00034)
 Swenker, Johan B. see van de Snoepcheut, Jan L. A., (Not in MR)
 Takahashi, Daisuke (with Satsuma, Junkichi) A soliton cellular automaton. 91i:58075
 Takamami, Itsuo see Ito, Akira; et al., 91a:68058
 Tyson, John J. see Gerhardt, Martin; et al., 91a:92003
 Yakowitz, S. (with Gani, Joseph Mark; Hayes, R.) Cellular automaton modeling of epidemics. (Not in MR)
 Zielonka, Wiesław Safe executions of recognizable trace languages by asynchronous automata. 91f:68056
- Items listed otherwise than by author
- Cellular automata: theory and experiment * Cellular automata: theory and experiment. 91j:68003
 Los Alamos, NM * Cellular automata: theory and experiment. 91j:68003
 Workshop:
 Cellular Automata: Theory and Experiment * Cellular automata: theory and experiment. 91j:68003

68Q90 Transition nets

- Agrawal, V. K. see Das, Sajal K.; et al., 91h:68139
 Ajmone Marsan, M. Stochastic Petri nets: an elementary introduction. (see 91b:68002)
 — (with Chiola, Giovanni; Fumagalli, A.) Improving the efficiency of the analysis of DSPN models. (see 91b:68002)
 André, Charles Synchronized elementary net systems. (see 91b:68002)
 Apolloni, Bruno (with Bertoni, Alberto; Campadelli, Paola; de Falco, Diego) Binary networks with parallel updating. (see 91k:68016)
 Bandypadhyay, Subhansu see Saha, Banani, (Not in MR)
 Barbeau, Michel (with Bochmann, Gregor V.) Extension of the Karp and Miller procedure to Lotos specifications. (see 91m:68004)
 Barkaoul, K. see Minoux, M., 91m:68140
 Bertoni, Alberto see Apolloni, Bruno; et al., (91k:68016)
 Bestuzheva, I. I. (with Rudnev, V. V.) Timed Petri nets. Classification and comparative analysis. 91m:68138

- Bochmann, Gregor V. *see* Barbeau, Michel, (91m:68004)
- Boudel, Gérard Flow event structures and flow nets. 91j:68097
- Burkhardt, Heinz-Jürgen (with Ochenschlager, Peter; Prinoth, Rainer) ★ Produktnetze. (German) [Product nets] 91a:68207
- Büttler, B. (with Esser, R.; Mattmann, R.) A distributed simulator for high order Petri nets. (see 91k:68002)
- Campadelli, Paola *see* Apolloni, Bruno; et al., (91k:68016)
- Campos, Javier (with Chiola, Giovanni; Silva, Manuel) Ergodicity and throughput bounds of Petri nets with unique consistent firing count vector. (Not in MR)
- Cardoso, Janette (with Valette, Robert; Dubois, Didier) Petri nets with uncertain markings. (see 91k:68002)
- Chiola, Giovanni *see* Campos, Javier; et al., (Not in MR) and Ajmone Marsan, M.; et al., (91h:68002)
- Colom, J. M. (with Silva, Manuel) Convex geometry and semiflows in P/T nets. A comparative study of algorithms for computation of minimal p -semiflows. (see 91k:68002)
- (with Silva, Manuel) Improving the linearly based characterization of P/T nets. (see 91k:68002)
- Cornelis, Eric Traduction de réseaux de Petri colorés. (English summary) [Translation of colored Petri nets] 91d:68091
- Cotter, Neil E. The Stone-Weierstrass theorem and its application to neural networks. 91i:68109
- (Craig, Iain) *see* Reutenauer, Christophe, 91i:68111
- Danhof, K. J. *see* Zargham, M. R., (Not in MR)
- Das, Sajal K. (with Sarkar, Dilip; Agrawal, V. K.; Patnaik, L. M.) Extended colored Petri net: an efficient tool for analyzing concurrent systems. 91k:68139
- Datta, Ajay K. (with Ghosh, Sukumar) High-level Petri-net model for a resource-sharing problem. (Not in MR)
- Demetrescu, János *see* Mamikonov, A. G.; et al., 91e:68116
- Desel, Jörg (with Merceron, Agathe) P/T-systems as abstractions of C/E-systems. (see 91k:68002)
- Devillers, Raymond The semantics of capacities in P/T nets. 91d:68092
- Dubois, Didier *see* Cardoso, Janette; et al., (91k:68002)
- Ehrenfeucht, Andrzej (with Rozenberg, Grzegorz) A characterization of set representable labeled partial 2-structures through decompositions. 91m:68139
- Engelfriet, Joost (with Leih, George; Rozenberg, Grzegorz) Net-based description of parallel object-based systems, or POTs and POPs. (see 91m:68006)
- España, Javier Synthesis rules for Petri nets, and how they lead to new results. (see 91g:68003)
- Esser, R. *see* Büttler, B.; et al., (91k:68002)
- Etessami, Farhad S. (with Hura, Gurdeep S.) Rule-based design methodology for solving control problems. (Not in MR)
- de Falco, Diego *see* Apolloni, Bruno; et al., (91k:68016)
- Finkel, Alain Reduction and covering of infinite reachability trees. 91i:68110
- Florin, Gérard (with Kaiser, Claude; Natkin, Stéphane) Petri net models of a distributed election protocol on a unidirectional ring. (see 91k:68002)
- (with Natkin, Stéphane) Generalization of queueing network product form solutions to stochastic Petri nets. (Not in MR)
- Fumagalli, A. *see* Ajmone Marsan, M.; et al., (91h:68002)
- Genrich, Hartmann J. Equivalence transformations of PrT-nets. 91e:68115
- Ghosh, Sukumar *see* Datta, Ajay K., (Not in MR)
- Gold, Robert (with Vogler, Walter) Quality criteria for partial order semantics of place/transition-nets. (see 91k:68011)
- Giles Ch., Eric Local graph transformations driven by Lyapunov functionals. (Not in MR)
- Gomm, Dominik (with Walter, Rolf) The distributed termination problem: formal solution and correctness based on Petri nets. (see 91h:68006)
- Gorrieri, Roberto (with Montanari, Ugo) SCONE: a simple calculus of nets. (see 91k:68003)
- Grossman, Tal The CHIR algorithm: a generalization for multiple-output and multilayered networks. (Not in MR)
- Haddad, S. A reduction theory for coloured nets. (see 91h:68002)
- Haken, Hermann Information flow in synergetic computers. (German summary) (Not in MR)
- Henderson, William (with Taylor, Peter Gerrard) Embedded processes in stochastic Petri nets. (Not in MR)
- Howell, Rodney R. (with Rosier, Louis E.; Yen, Hsu-Chun) Normal and sinkless Petri nets. 91h:68087
- (with Rosier, Louis E.) Problems concerning fairness and temporal logic for conflict-free Petri nets. 91a:68208
- Huber, Peter (with Jensen, Kurt; Shapiro, Robert M.) Hierarchies in coloured Petri nets. (see 91k:68002)
- Hura, Gurdeep S. *see* Etessami, Farhad S., (Not in MR)
- Jensen, Kurt Coloured Petri nets: a high level language for system design and analysis. (see 91k:68002)
- *see also* Huber, Peter; et al., (91k:68002)
- Jójczyk, K. (with Koniczny, J.; Kuzak, T.) On interleaving behaviour of PT-nets. 91k:68157
- Jucan, T. *see* Tiplea, F.; et al., 91c:68099
- Kaiser, Claude *see* Florin, Gérard; et al., (91k:68002)
- Knuth, Elöd *see* Mamikonov, A. G.; et al., 91e:68116
- Kodama, Shinzo *see* Kumagai, Sadatoshi, (Not in MR)
- Koniczny, J. *see* Jójczyk, K.; et al., 91k:68157
- Kul'ba, V. V. *see* Mamikonov, A. G.; et al., 91e:68116
- Kumagai, Sadatoshi (with Kodama, Shinzo) Preservation of liveness in hierarchical Petri nets. (Not in MR)
- Kuzak, T. *see* Jójczyk, K.; et al., 91k:68157
- Leih, George *see* Engelfriet, Joost; et al., (91m:68006)
- La, Wei Ming (with Merceron, Agathe) The meaning of frozen tokens in live nets. 91c:68097
- Mamikonov, A. G. (with Demetrescu, János; Kul'ba, V. V.; Knuth, Elöd; Sokolova, E. B.; Urbanski, F.) ★ Использование сетей Петри при проектировании систем обработки данных. (Russian) [The use of Petri nets in the design of data processing systems] 91c:68116
- Masala, C. *see* Tiplea, F.; et al., 91c:68099
- Mattmann, R. *see* Büttler, B.; et al., (91k:68002)
- Merceron, Agathe *see* La, Wei Ming, 91c:68097 and Desel, Jörg, (91h:68002)
- Meseguer, José (with Montanari, Ugo) Petri nets are monoids. 91h:68140
- Minoux, M. (with Barkaoui, K.) Deadlocks and traps in Petri nets as Horn-satisfiability solutions and some related polynomially solvable problems. 91m:68140
- Montanari, Ugo *see* Meseguer, José, 91h:68140 and Gorrieri, Roberto, (91g:68003)
- Natkin, Stéphane *see* Florin, Gérard, (Not in MR) and (91k:68002)
- Ochenschlager, Peter *see* Burkhardt, Heinz-Jürgen; et al., 91a:68207
- Patnaik, L. M. *see* Das, Sajal K.; et al., 91h:68139
- Pomello, L. (with Simone, C.) A state transformation preorder over a class of EN systems. (see 91k:68002)
- Popova-Zeugmann, Loučka Zeit-Petri-Netze. [Time Petri nets] (see 91h:68005)
- Preuss, Gerhard On the topological structures of nets. 91e:68117
- Prinoth, Rainer *see* Burkhardt, Heinz-Jürgen; et al., 91a:68207
- Rai, Sangita (with Shukla, Wagish) Petri nets in categories. I. 91e:68118
- Reutenauer, Christophe ★ The mathematics of Petri nets. 91i:68111
- Rosier, Louis E. *see* Howell, Rodney R., 91a:68208 and 91h:68087
- Rozenberg, Grzegorz *see* Ehrenfeucht, Andrzej, 91m:68139 and Engelfriet, Joost; et al., (91m:68006)
- Rudnev, V. V. Vocabulary Petri nets. (Not in MR)
- *see also* Bestuzheva, I. I., 91m:68138
- Safarov, S. S. ★ Ограниченные контекстно-свободные языки и сети Петри. (Russian) [Bounded context-free languages and Petri nets] 91c:68098
- Saha, Ranajit (with Bandyopadhyay, Subhansu) Computer-based reduction technique for Petri nets. (Not in MR)
- San Miguel Marco, Miguel Boundedness and saturation in stochastic Petri nets. (Spanish. English summary) (see 91m:68014)
- Sarkar, Dilip *see* Das, Sajal K.; et al., 91h:68139
- Shapiro, Robert M. *see* Huber, Peter; et al., (91k:68002)
- Shukla, Wagish *see* Rai, Sangita, 91e:68118
- Silva, Manuel *see* Campos, Javier; et al., (Not in MR); Colom, J. M., (91k:68002) and (91k:68002)
- Simone, C. *see* Pomello, L., (91k:68002)
- Sinacopoulos, A. Partial order logics for elementary net systems: state- and event-approaches. (see 91g:68003)
- Sokolova, E. B. *see* Mamikonov, A. G.; et al., 91e:68116
- Starke, Peter H. On the mutual simulatability of different types of Petri nets. (see 91h:68005)
- Modellierung mit Petri-Netzen. [Modelling with Petri nets] (Not in MR)
- Some properties of timed nets under the earliest firing rule. 91d:68093
- Taylor, Peter Gerrard *see* Henderson, William, (Not in MR)
- Tiplea, F. (with Jucan, T.; Masala, C.) Term rewriting systems and P/T-nets. 91c:68099
- Reversible and strict reversible P/T-systems. 91c:68100
- Treves, Nicolas A comparative study of different techniques for semiflow computation in place/transition nets. 91e:68119
- Tuomina, Heikki Elementary net systems and dynamic logic. 91d:68094
- Urbanski, F. *see* Mamikonov, A. G.; et al., 91e:68116
- Valette, Robert *see* Cardoso, Janette; et al., (91k:68002)
- Vogler, Walter Representation of a swapping class by one net. 91d:68095
- *see also* Gold, Robert, (91h:68011)
- Walter, Rolf *see* Gomm, Dominik, (91h:68006)
- Yen, Hsu-Chun *see* Howell, Rodney R.; et al., 91h:68087
- Zargham, M. R. (with Danhof, K. J.) Toward a definition of fault analysis for Petri nets models. (Not in MR)

Items with secondary classifications in 68Q90

- Agafonov, I. G. *see* Makarov, I. M.; et al., (Not in MR)
- Banaszak, Z. (with Roszkowska, E.) Deadlock avoidance in pipeline concurrent processes. (Polish summary) 91a:22004
- Best, Elke ★ Kausale Semantik nichtsequentieller Programme. (German) [Causal semantics of nonsequential programs] 91d:68028
- (Brauer, Wilfried) *see* Taubner, Dirk, 91a:68085
- (Calabelli, Eduardo R.) *see* Parallel architectures and neural networks, 91k:68016
- Chen, Hudong *see* Chen, Shi Yi; et al., (Not in MR)
- Chen, Shi Yi (with Chen, Hudong; Doolen, Gary D.) How the lattice gas model for the Navier-Stokes equation improves when a new speed is added. (Not in MR)
- Cherkasova, L. A. (with Filyurin, A. S.) Concurrent processes with synchronization: net and algebraic approach. 91a:68073
- (with Kotov, V. E.) Descriptive and analytical process algebras. 91d:68016
- Chukhrov, I. P. *see* Makarov, I. M.; et al., (Not in MR)
- Czaja, Ludwik Finite processes in cause-effect structures and their composition. 91a:68074
- De Nicola, Rocco (with Vaandrager, Frits) Action versus state based logics for transition systems. 91k:68047
- Desel, Jörg Reduction and design of well-behaved concurrent systems. (see 91g:68003)
- Doolen, Gary D. *see* Chen, Shi Yi; et al., (Not in MR)
- Dubois, Didier (with Steck, Kathryn E.) Dynamic analysis of repetitive decision-free discrete-event processes: the algebra of timed marked graphs and algorithmic issues. 91m:90082
- Engberg, Uffe (with Winskel, Glynn) Petri nets as models of linear logic. (see 91e:68005)
- Filyurin, A. S. *see* Cherkasova, L. A., 91a:68073
- Goltz, Ursula CCS and Petri nets. 91m:68048
- Haas, Peter J. (with Shedler, Gerald S.) Stochastic Petri nets with timed and immediate transitions. 91c:68005
- Henderson, William (with Lucic, D.; Taylor, Peter Gerrard) A net level performance analysis of stochastic Petri nets. 91d:60237

- Hérault, Laurent (with Niez, Jean-Jacques) Neural networks and graph K -partitioning. (Not in MR)
- Holloway, Lawrence E. (with Krogh, Bruce H.) Synthesis of feedback control logic for a class of controlled Petri nets. (Not in MR)
- Janžar, Petr Decidability of a temporal logic problem for Petri nets. 91k:68049
- Kapitonova, Yu. V. (with Orseets, M. I.) M -schemes for macropipeline computations. (Not in MR)
- Klehn, Astrid Petri net systems and their closure properties. 91d:68019
- Kotov, V. E. see Cherkasova, L. A., 91d:68016
- Kováčik, M. Markovian neural networks. (Not in MR)
- Krogh, Bruce H. see Holloway, Lawrence E., (Not in MR)
- Lafortune, Stéphane (with Yoo, Hyuck) Some results on Petri net languages. 91g:68096
- Lazar, Aurel A. (with Robertazzi, Thomas G.) Markovian Petri net protocols with product form solution. 91m:68051
- Lucic, D. see Henderson, William; et al., 91d:60237
- Maggiolo-Schettini, Andrea (with Winkowski, Józef) A compositional semantics for timed Petri nets. 91h:68054
- Makarov, I. M. (with Nazaretov, V. M.; Chukhrov, I. P.; Agafonov, I. G.) The concept of network modeling of discrete systems. (Not in MR)
- Marti-Ollet, Narciso (with Meseguer, José) From Petri nets to linear logic. 91a:68187
- Meseguer, José see Marti-Ollet, Narciso, 91a:68187
- Morasca, Sandro (with Pezzè, Mauro) Using high-level Petri nets for testing concurrent and real-time systems. (see 91k:68018)
- Moser, Michael C. A focused backpropagation algorithm for temporal pattern recognition. (Not in MR)
- Nazaretov, V. M. see Makarov, I. M.; et al., (Not in MR)
- Niez, Jean-Jacques see Hérault, Laurent, (Not in MR)
- Norton, Graham On the asymptotic analysis of the Euclidean algorithm. 91k:11088
- Orseets, M. I. see Kapitonova, Yu. V., (Not in MR)
- Pelz, Elisabeth About the concurrent behaviour of EN systems: definability and closure results. 91e:68046
- Pezzè, Mauro see Morasca, Sandro, (91k:68018)
- Pierre, Laurent (with Schwer, Sylvianne R.) Rational index of vector addition systems languages. 91a:68167
- Robertazzi, Thomas G. see Lazar, Aurel A., 91m:68051 and Wang, Irving Y., (Not in MR)
- Roszkowska, E. see Banaszk, Z., 91a:22004
- (Rozenberg, Grzegorz) see Advances in Petri nets, 91b:68002 and 91k:68002
- Schwer, Sylvianne R. see Pierre, Laurent, 91a:68167
- Shedler, Gerald S. see Haas, Peter J., 91c:68005
- Stark, Eugene W. Concurrent transition systems. 91e:68047
- Stecke, Kathryn E. see Dubois, Didier, 91m:90062
- Taubner, Dirk ★ Finite representations of CCS and TCS programs by automata and Petri nets. 91a:68085
- Representing CCS programs by finite predicate/transition nets. 91e:68048
- Taylor, John G. New paradigms for neural networks. (see 91k:68016)
- Taylor, Peter Gerrard see Henderson, William; et al., 91d:60237
- Thingarajan, P. S. Some behavioural aspects of net theory. 91e:68033
- Ushio, Toshimitsu Maximally permissive feedback and modular control synthesis in Petri nets with external input places. 91f:93044
- Vaandrager, Frits see De Nicola, Rocco, 91k:68047
- Vogler, Walter Failures semantics based on interval semiwords is a congruence for refinement. (see 91h:68011)
- Wang, Irving Y. (with Robertazzi, Thomas G.) Service stage Petri net models with product form solution. (Not in MR)
- Winkowski, Józef see Maggiolo-Schettini, Andrea, 91h:68054
- Winkel, Glynn see Engberg, Uffe, (91e:68005)
- Yen, Hsu-Chun Communicating processes, scheduling, and the complexity of nontermination. 91d:68023
- Yoo, Hyuck see Lafortune, Stéphane, 91g:68096
- Items listed otherwise than by author
- Advances in Petri nets ★ Advances in Petri nets 1989. 91b:68002
- ★ Advances in Petri nets 1990. 91b:68002
- Bonn ★ Advances in Petri nets 1990. 91k:68002
- Conference:
- Application and Theory of Petri Nets ★ Advances in Petri nets 1990. 91k:68002
- Lecture Notes in Computer Science ★ Advances in Petri nets 1989. 91b:68002
- ★ Advances in Petri nets 1990. 91k:68002
- Parallel architectures and neural networks ★ Parallel architectures and neural networks. 91k:68016
- Salerno ★ Parallel architectures and neural networks. 91k:68016
- Venice ★ Advances in Petri nets 1989. 91b:68002
- Workshop:
- Applications and Theory of Petri Nets ★ Advances in Petri nets 1989. 91b:68002
- Parallel Architectures and Neural Networks ★ Parallel architectures and neural networks. 91k:68016

68Q99 None of the above, but in this section

- Aleksanyan, A. A. Realization of weakly defined Boolean functions by linearized disjunctive normal forms. 91d:68096
- Babin, D. N. Superpositions of bounded-deterministic functions. 91d:68097
- Bagai, Rajiv (with Bezem, Marc; van Emden, M. H.) On downward closure ordinals of logic programs. 91f:68112
- Bauer, Friedrich Ludwig Logic and computers. (see 91e:00025)
- Bezem, Marc see Bagai, Rajiv; et al., 91f:68112
- Blum, Manuel How to prove a theorem so no one else can claim it. 91h:68141
- Butz, Arthur R. Autoregressive equivalents of rank order processors. (Not in MR)
- Chachkhiani, T. I. see Netmark, Yu. I.; et al., (Not in MR)
- Dowling, William F. There are no safe virus tests. 91c:68101

- van Emden, M. H. see Bagai, Rajiv; et al., 91f:68112
- Gorshkov, P. V. Rational data structures and their applications. 91c:68102
- Kiliharda, G. Traversing finite labyrinths by systems of automata. (Russian) 91k:68158
- Kudryavtsev, V. B. (with Podkolzin, A. S.) Fundamental directions in the theory of homogeneous structures. 91f:68165
- Netmark, Yu. I. (with Ronin, E. I.; Chachkhiani, T. I.) Automatic parallel clustering. (Russian) (Not in MR)
- Podkolzin, A. S. see Kudryavtsev, V. B., 91f:68165
- Ronin, E. I. see Netmark, Yu. I.; et al., (Not in MR)
- Simon, Hans-Ulrich Continuous reductions among combinatorial optimization problems. 91f:68166
- Items with secondary classifications in 68Q99
- Adleman, Leonard M. An abstract theory of computer viruses. 91e:03098
- Arnold, André (with Brick, S.) Optimal word chains for the Thue-Morse word. 91e:68124
- Brick, S. see Arnold, André, 91e:68124
- Buza, M. K. (with Moshchenskii, V. A.) On the cardinality of a set of programs. (Russian) (Not in MR)
- Dao Nam An' Convergence of a parallel context-controllable analyzer. (Russian) (Not in MR)
- Davydov, G. V. (with Davydova, I. M.) A flow interpretation of NP-complete problems. 91b:68088
- Davydova, I. M. see Davydov, G. V., 91b:68088
- Flajolet, Philippe (with Sipala, Paolo; Steyaert, Jean-Marc) Analytic variations on the common subexpression problem. (see 91e:68004)
- Frongny, Christiane Représentation des nombres réels en bases non entières et automates finis. (English summary) [Representation of real numbers in noninteger bases and finite automata] 91k:11066
- Gesztesy, Ernő A deterministic mathematical model of the transmission of information. II. (Not in MR)
- Immerman, Neil (with Kozen, Dexter) Definability with bounded number of bound variables. 91d:03011
- Kozen, Dexter see Immerman, Neil, 91d:03011
- Mignosi, Filippo Infinite words with linear subword complexity. 91b:68093
- Moshchenskii, V. A. see Buza, M. K., (Not in MR)
- Pettorossi, Alberto Derivation of efficient programs for computing sequences of actions. 91e:68022
- Sierocki, Ireneusz A description of a set of hypotheses for system identification problem. 91c:93029
- Sipala, Paolo see Flajolet, Philippe; et al., (91e:68004)
- Steyaert, Jean-Marc see Flajolet, Philippe; et al., (91e:68004)
- Sytin, A. A. Universal automata in a deterministic environment. (Russian) (see 91j:68001)
- Wybraniec-Skardowska, Urszula On the eliminability of ideal linguistic entities. 91e:03028
- Zimmermann, Wolf ★ Die Verwendung mehrwertiger und nicht-monotoner Logiken zur Programmkonstruktion. (German) [The use of many-valued and nonmonotonic logics in program construction] 91a:68029

68Rxx Discrete mathematics in relation to computer science

- Items with secondary classifications in 68Rxx
- Biggs, Norman L. ★ Discrete mathematics. 91h:00002
- Graham, Ronald L. (with Knuth, Donald E.; Patashnik, Oren) ★ Concrete mathematics. 91f:00001
- Knuth, Donald E. see Graham, Ronald L.; et al., 91f:00001
- Patashnik, Oren see Graham, Ronald L.; et al., 91f:00001
- Smith, Jeffrey D. ★ Design and analysis of algorithms. 91h:68002

Items listed otherwise than by author

- Proceedings:
- Symposium on Discrete Algorithms ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91b:68006
- San Francisco, CA ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91b:68006
- Symposium:
- Discrete Algorithms ★ Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms. 91b:68006

68R05 Combinatorics

- Acketa, Dragan M. All interval greedoids on at most 5 elements. (Serbo-Croatian summary) 91c:68183
- Akman, V. Implementation of Karp-Luby Monte Carlo method: an exercise in approximate counting. (Not in MR)
- Camerini, P. M. (with Galbiati, Giulia; Maffioli, F.) Combinatorial optimization through algorithms for exact problems and scaling. 91j:68098
- Chin, Francis Y. L. see Leung, Joseph Y.-T.; et al., 91h:68142
- Felsner, Stefan A $3/2$ -approximation algorithm for the jump number of interval orders. 91g:68128
- Galbiati, Giulia see Camerini, P. M.; et al., 91j:68098
- Hayward, Ryan B. (with McDiarmid, C. J. H.) Average case analysis of heap building by repeated insertion. 91j:68099
- Hwang, F. K. (with Yao, Yi-Ching) Comments on Bern's probabilistic results on rectilinear Steiner trees. 91f:68113
- Hwang, Ghl-Young see Melhem, Rami G., (Not in MR)
- Kulkarni, V. G. Generating random combinatorial objects. 91f:68167

- Lampinen, J. (with Oja, Erkki) Fast computation of Kohonen self-organization. (see 91h:68013)
- Leung, Joseph Y.-T. (with Tam, Tommy W.; Wong, Chin Siong; Young, Gilbert H.; Chin, Francis Y. L.) Packing squares into a square. 91h:68142
- Lodi, Elena (with Lucio, Fabrizio; Pagli, Linda) A preliminary study of a diagonal channel-routing model. 91f:68168
- Loeb, Martin (with Nešetřil, Jaroslav) Postorder hierarchy for path compressions and set union. 91a:68209
- Lubiw, Anna The Boolean basis problem and how to cover some polygons by rectangles. 91h:68114
- Luccio, Fabrizio (see Lodi, Elena; et al., 91f:68168)
- Maffioli, F. (see Camerini, P. M.; et al., 91j:68098)
- McDiarmid, C. J. H. (see Hayward, Ryan B., 91j:68099)
- Melhem, Rami G. (with Hwang, Ghil-Young) Embedding rectangular grids into square grids with dilation two. (Not in MR)
- Möhring, Rolf H. Computationally tractable classes of ordered sets. 91g:68129
- Nelson, Peter C. (see Topkis, Anestis A.; et al., (91m:68002))
- Nešetřil, Jaroslav (see Loeb, Martin, 91a:68209)
- Oja, Erkki (see Lampinen, J., (91h:68013))
- Pagli, Linda (see Lodi, Elena; et al., 91f:68168)
- Perry, Jo Ellen (see Savage, Carla D.; et al., 91a:68211)
- Proskurowski, Andrzej (see Ruskey, Frank, 91h:68143)
- Ruskey, Frank (with Proskurowski, Andrzej) Generating binary trees by transpositions. 91h:68143
- Savage, Carla D. Gray code sequences of partitions. 91a:68210
- (with Stallmann, Matthias; Perry, Jo Ellen) Solving some combinatorial problems on arrays with one-way dataflow. 91a:68211
- Stallmann, Matthias (see Savage, Carla D.; et al., 91a:68211)
- Tam, Tommy W. (see Leung, Joseph Y.-T.; et al., 91h:68142)
- Topkis, Anestis A. (with Yu, Clement T.; Nelson, Peter C.) Computing the transitive closure of symmetric matrices. (see 91m:68002)
- Wong, Chin Siong (see Leung, Joseph Y.-T.; et al., 91h:68142)
- Yao, Yi-Ching (see Hwang, F. K., 91f:68113)
- Young, Gilbert H. (see Leung, Joseph Y.-T.; et al., 91h:68142)
- Yu, Clement T. (see Topkis, Anestis A.; et al., (91m:68002))
- Zhou, Chen A permutation-generating algorithm. 91c:68104
- Items with secondary classifications in 68R05
- Agrawal, Rakesh (with Dar, Shaul; Jagadish, H. V.) Direct transitive closure algorithms: design and performance evaluation. 91h:68029
- Akl, Selim G. (with Gries, David; Stojmenović, Ivan) An optimal parallel algorithm for generating combinations. 91f:68077
- Alon, Noga Generating pseudo-random permutations and maximum flow algorithms. 91g:68069
- Apolloni, Bruno (with Carvalho, Maria Conceição V.; de Falco, Diego) Quantum stochastic optimization. 91a:90137
- Bauslaugh, Bruce (with Ruskey, Frank) Generating alternating permutations lexicographically. 91a:68168
- Carvalho, Maria Conceição V. (see Apolloni, Bruno; et al., 91a:90137)
- Chan, Agnes Hui (with Games, Richard A.) On the quadratic spans of periodic sequences. (see 91h:54002)
- Colbourn, Charles J. (with van Oorschot, Paul C.) Applications of combinatorial designs in computer science. 91f:68078
- Calrik, J. (with Imreh, B.) On the worst-case performance of the NkF bin-packing heuristic. 91f:68084
- An on-line algorithm for variable-sized bin packing. 91a:68110
- Cui, Guo Hua The computing time of UNION-FIND sequences. (Chinese. English summary) 91g:68079
- Culberson, Joseph (with Reckhow, Robert A.) Orthogonally convex coverings of orthogonal polygons without holes. 91e:68142
- Dar, Shaul (see Agrawal, Rakesh; et al., 91h:68029)
- Delest, M.-P. (with Fedou, J. M.) Counting polyominoes using attribute grammars. 91m:68101
- Eliash, Shalom (with Kervaire, Michel; Saffari, Bahman) A new restriction on the lengths of Golay complementary sequences. 91i:11020
- Eppstein, David (with Galil, Zvi) Parallel algorithmic techniques for combinatorial computation. 91g:68042
- Faigle, Ulrich (with Kern, Walter; Turán, György) On the performance of on-line algorithms for partition problems. 91h:05019
- de Falco, Diego (see Apolloni, Bruno; et al., 91a:90137)
- Fedou, J. M. (see Delest, M.-P., 91m:68101)
- Galambos, G. Notes on Lee's harmonic fit algorithm. 91d:68043
- Galil, Zvi (see Eppstein, David, 91g:68042)
- Gambosi, Giorgio (with Nešetřil, Jaroslav; Talamo, Maurizio) On locally presented posets. 91g:06003
- Games, Richard A. (see Chan, Agnes Hui, (91h:54002))
- Gries, David (see Akl, Selim G.; et al., 91f:68077)
- Guibas, Leonidas J. (with Sharir, Micha; Sifrony, Shmuel) On the general motion-planning problem with two degrees of freedom. 91a:68268
- Gusfield, Dan (with Irving, Robert W.) ★ The stable marriage problem: structure and algorithms. 91e:68062
- Hakimi, S. Louis (see Tsan, Tai-Ching, 91g:68086)
- Han, Fred H. The optimal procedures for quantitative group testing. 91d:90049
- Hassin, Refael Simultaneous solution of families of problems. 91h:68071
- Hirschberg, Daniel S. (see Larmore, Lawrence L., 91h:94023)
- Huang, Yue Jiang A new algorithm for the generation of binary de Bruijn sequences. 91i:05001
- Iliopoulos, Costas S. (with Smyth, W. F.) A comparison of three optimal algorithms for the canonization of circular strings. (Not in MR)
- Imreh, B. (see Calrik, J., 91f:68084)
- Irving, Robert W. (see Gusfield, Dan, 91e:68062)
- Iványi, Antal (with Tóth, Zoltán) Construction of planar de Bruijn words. 91h:05042
- Jagadish, H. V. (see Agrawal, Rakesh; et al., 91h:68029)
- Jerrum, Mark (see Sinclair, Alistair, 91g:68084)
- Joshi, K. D. ★ Foundations of discrete mathematics. 91c:00063
- Kern, Walter (see Faigle, Ulrich; et al., 91h:05019)
- Kervaire, Michel (see Eliash, Shalom; et al., 91i:11020)
- Khuller, Samir (with Mitchell, Joseph S. B.) On a triangle counting problem. 91a:68269
- Kovaler, M. M. (with Moshchenskiĭ, A. V.) Searching for the maximal upper zero of a threshold function in multivalued logic. (Russian) 91h:94038
- Krakiewicz, Witold Reduced decompositions in hyperoctahedral groups. (French summary) 91h:05008
- Kreher, Donald L. (with Radziszowski, Stanisław P.) Constructing 6-(14, 7, 4) designs. 91h:05020
- Kuo, R. T. (with Tseng, S. S.) The necessary and sufficient condition for the worst-case male optimal stable matching. 91e:68064
- Larmore, Lawrence L. (with Hirschberg, Daniel S.) A fast algorithm for optimal length-limited Huffman codes. 91h:94023
- Leclerc, Matthias (with Rendl, F.) k -best constrained bases of a matroid. (German summary) 91h:05039
- Leung, Joseph Y.-T. Bin packing with restricted piece sizes. 91a:68133
- Li, Zhiyuan (with Reingold, Edward M.) Solution of a divide-and-conquer maximin recurrence. 91m:68086
- Lin, Chao Chih Parallel algorithm for generating permutations on linear array. (Not in MR)
- Parallel generation of permutations on systolic arrays. 91m:68069
- de Luca, Aldo (with Varricchio, Stefano) Some combinatorial properties of factorial languages. 91f:20073
- Lucas, Joan M. Postorder disjoint set union is linear. 91e:68029
- Mitchell, Joseph S. B. (see Khuller, Samir, 91a:68269)
- Moshchenskiĭ, A. V. (see Kovaler, M. M., 91h:94038)
- Nešetřil, Jaroslav (see Gambosi, Giorgio; et al., 91g:06003)
- van Oorschot, Paul C. (see Colbourn, Charles J., 91g:68078)
- Pittel, Boris (with Rubin, Herman) How many random questions are necessary to identify n distinct objects? 91i:60031
- Radziszowski, Stanisław P. (see Kreher, Donald L., 91h:05020)
- Ramanan, Prakash (with Tsuga, Kazuhiro) Average-case analysis of the modified harmonic algorithm. 91a:68137
- Reckhow, Robert A. (see Culberson, Joseph, 91e:68142)
- Reingold, Edward M. (see Li, Zhiyuan, 91m:68086)
- Rendl, F. (see Leclerc, Matthias, 91h:05039)
- Richter, Jürgen Kombinatorische Realisierbarkeitskriterien für orientierte Matroide. (English summary) [Combinatorial realizability criteria for oriented matroids] 91d:05038
- Rubin, Herman (see Pittel, Boris, 91i:60031)
- Ruskey, Frank (see Bauslaugh, Bruce, 91a:68168)
- Saffari, Bahman (see Eliash, Shalom; et al., 91i:11020)
- Salon, Olivier Quelles tuiles! (Pavages aperiodes du plan et automates bidimensionnels). (English summary) [Aperiodic tilings of the plane and two-dimensional automata] 91h:52014
- Satyanarayana, Appajosyula (see Sutner, Klaus; et al., 91h:68073)
- Sen, Sandeep Finding an approximate median with high probability in constant parallel time. 91f:68078
- Sharir, Micha (see Guibas, Leonidas J.; et al., 91a:68268)
- Sifrony, Shmuel (see Guibas, Leonidas J.; et al., 91a:68268)
- Sinclair, Alistair (with Jerrum, Mark) Approximate counting, uniform generation and rapidly mixing Markov chains. 91g:68084
- Smith, Stephen D. Construction of group representations from geometries. 91h:20019
- Smyth, W. F. (see Iliopoulos, Costas S., (Not in MR))
- Spiess, Jürgen Some identities involving harmonic numbers. 91c:05021
- Steiner, George Polynomial algorithms to count linear extensions in certain posets. 91g:06005
- Stojmenović, Ivan An optimal algorithm for generating equivalence relations on a linear array of processors. 91e:68067
- see also Akl, Selim G.; et al., 91f:68077
- Suffel, C. (see Sutner, Klaus; et al., 91h:68073)
- Sutner, Klaus (with Satyanarayana, Appajosyula; Suffel, C.) The complexity of the residual node connectedness reliability problem. 91h:68073
- Syslo, Maciej M. Bounds to the page number of partially ordered sets. 91f:06006
- Talamo, Maurizio (see Gambosi, Giorgio; et al., 91g:06003)
- Tan, Jimmy J. M. A necessary and sufficient condition for the existence of a complete stable matching. 91h:05008
- Tandem, Alfred Communication heuristics in distributed combinatorial search algorithms. 91h:68020
- Tóth, Zoltán (see Iványi, Antal, 91h:05042)
- Tseng, S. S. The average performance of a parallel stable marriage algorithm. 91a:68143
- see also Kuo, R. T., 91e:68064
- Tsuga, Kazuhiro (see Ramanan, Prakash, 91a:68137)
- Tsan, Tai-Ching (with Hakimi, S. Louis) River routing with a small number of jogs. 91g:68086
- Turán, György (see Faigle, Ulrich; et al., 91h:05019)
- Varricchio, Stefano (see de Luca, Aldo, 91f:20073)
- Vazirani, Umesh V. (with Vazirani, Vijay V.) The two-processor scheduling problem is in random NC. 91c:68062
- Vazirani, Vijay V. (see Vazirani, Umesh V., 91c:68062)
- Waterman, Michael S. Sequence alignments. (see 91i:92005)
- Wei, Wan Di On a personnel assignment problem. 91f:68076

68R10 Graph theory [see also 05Cxx, 90B10, 90B35, 90C35]

- Ah, Helmut (with Blum, N.; Mehlihorn, Kurt; Paul, Manfred) Computing a maximum cardinality matching in a bipartite graph in time $O(n^{1.5} \sqrt{m/\log n})$. 91m:68141

- Ancona, M. (with De Florian, L.; Deogun, Jitender S.) Structured spanning trees. 91k:68144
- Anily, S. (with Hassin, Refael) Ranking the best binary trees. 91d:68098
- Archdeacon, Dan The complexity of the graph embedding problem. 91m:68142
- Ausiello, Giorgio (with Nanni, Umberto; Italiano, Giuseppe F.) Dynamic maintenance of directed hypergraphs. 91g:68130
- Balinski, M. L. (with González, Jaime) Maximum matchings in bipartite graphs via strong spanning trees. 91k:68159
- Blum, N. see Alt, Helmut; et al., 91m:68141
- Bodlaender, Hans L. The complexity of finding uniform emulations on paths and ring networks. 91k:68115
- Polynomial algorithms for graph isomorphism and chromatic index on partial k -trees. 91k:68160
- Bousset, M. (with de Fraysseix, H.; Rosenstiel, P.) Envahir sans encercler l'ennemi. (English summary) [Invading without encircling the enemy] (see 91k:68005)
- Chang, Kuo-En (with Feng, Wu Hsiung) Maximizing pin alignment in VLSI routing with movable terminals. (Chinese summary) (Not in MR)
- Chandhuri, Pranay Finding and updating depth-first spanning trees of acyclic digraphs in parallel. 91g:68131
- Chen, Dong Ling A discussion on Prim's algorithm and uniqueness of the minimum tree of a graph. (Chinese. English summary) 91k:68161
- Chen, Ting Hual see Yao, Rong; et al., (Not in MR)
- Chen, Wen Tsuen see Yang, Ch'ang Piao; et al., (Not in MR)
- Cimikowski, Robert J. Finding Hamiltonian cycles in certain planar graphs. 91h:68145
- Clarkson, Kenneth L. An algorithm for geometric minimum spanning trees requiring nearly linear expected time. 91f:68169
- Dadoun, N. (with Kirkpatrick, David G.) Parallel algorithms for fractional and maximal independent sets in planar graphs. 91h:68146
- Davydov, G. V. (with Davydova, I. M.) A flow interpretation of NP-complete problems. 91h:68088
- Davydova, I. M. see Davydov, G. V., 91h:68088
- De Florian, L. see Ancona, M.; et al., 91h:68144
- Deogun, Jitender S. see Ancona, M.; et al., 91h:68144
- Dhall, S. K. see Liang, Y.; et al., 91m:68145
- Dubish, Pratal Some comments on: "On the subtree isomorphism problem for ordered trees" [Inform. Process. Lett. 32 (1989), no. 5, 271–273; MR 90k:68139] by E. Mäkinen. 91m:68143
- Elias, Paul V. see Groves, Lindsay J.; et al., (91k:68014)
- Ellis, John A. Embedding rectangular grids into square grids. (Not in MR)
- Fang, Da Zhong A new algorithm for generating all spanning trees of a directed graph. (Chinese. English summary) (Not in MR)
- Feigenbaum, Joan (with Haddad, Ramsey W.) On factorable extensions and subgraphs of prime graphs. 91e:68120
- Feng, Wu Hsiung see Chang, Kuo-En, (Not in MR)
- Feo, Thomas A. (with Khellaf, Mallek) A class of bounded approximation algorithms for graph partitioning. 91a:68212
- Flajolet, Philippe (with Sipala, Paolo; Steyaert, Jean-Marc) Analytic variations on the common subexpression problem. (see 91e:68004)
- Frank, Andrés Packing paths, circuits, and cuts—a survey. 91h:68116
- de Fraysseix, H. see Bousset, M.; et al., (91k:68005)
- Frederickson, Greg N. Planar graph decomposition and all pairs shortest paths. 91m:68144
- Fujishima, Hideyuki see Wada, Koichi; et al., (Not in MR)
- Gazit, Hillel (with Miller, Gary L.) Planar separators and the Euclidean norm. (see 91g:68002)
- Geva, Robert Y. (with Paz, Azaria) Toward a complete representation of graphoids in graphs—abridged version. (see 91h:68006)
- Goldberg, Mark (with Spencer, Thomas H.) Constructing a maximal independent set in parallel. 91d:68099
- Goldfarb, Donald (with Hao, Jianxiu; Kai, Sheng-Roan) Shortest path algorithms using dynamic breadth-first search. 91k:68162
- González, Jaime see Balinski, M. L., 91k:68159
- Gopinath, B. see Tsotras, Vassilis J.; et al., (91g:68002)
- Grigoriadis, M. D. (with Kalantari, Bahman) A new class of heuristic algorithms for weighted perfect matching. (Not in MR)
- Groves, Lindsay J. (with Michalewicz, Zbigniew; Elias, Paul V.; Janikow, Cezary Z.) Genetic algorithms for drawing directed graphs. (see 91k:68014)
- Gupta, Saxya Narayan see Zabari, M., 91d:68101
- Haddad, Ramsey W. see Feigenbaum, Joan, 91e:68120
- Hajmatski, G. R. A new parallel heuristic algorithm for the travelling-salesman problem in R^2 of big size. 91a:68213
- Hao, Jianxiu see Goldfarb, Donald; et al., 91k:68162
- Hart, George W. see Tsotras, Vassilis J.; et al., (91g:68002)
- Hassin, Refael see Anily, S., 91d:68098
- Hérault, Laurent (with Niez, Jean-Jacques) Neural networks and graph K -partitioning. (Not in MR)
- Ibaraki, Toshihide see Nagamochi, Hiroshi, 91j:68102
- Italiano, Giuseppe F. see Ausiello, Giorgio; et al., 91g:68130
- Iwano, Kazuo (with Steiglitz, Kenneth) A semiring on convex polygons and zero-sum cycle problems. 91g:68132
- Janikow, Cezary Z. see Groves, Lindsay J.; et al., (91k:68014)
- Jiang, Bin Traversing graphs in a paging environment, BFS or DFS? (Not in MR)
- Kai, Sheng-Roan see Goldfarb, Donald; et al., 91k:68162
- Kalantari, Bahman see Grigoriadis, M. D., (Not in MR)
- Kang, Tai see Yao, Rong; et al., (Not in MR)
- Karsch, Stefan * Bestimmung maximaler Flüsse in gerichteten Graphen auf MIMD-Rechnern. (German) [Determining maximal flow in directed graphs on MIMD computers] (Not in MR)
- Kawaguchi, Kimio see Wada, Koichi; et al., (Not in MR)
- Khellaf, Mallek see Feo, Thomas A., 91a:68212
- Kim, Sung Kwon A parallel algorithm for path-min queries in trees. (see 91m:68002)
- A parallel algorithm for finding a maximum clique of a set of circular arcs of a circle. 91f:68170
- Kirkpatrick, David G. see Dadoun, N., 91k:68146
- Klawe, Maria (with Leighton, Frank Thomson) A tight lower bound on the size of planar permutation networks. (see 91g:68002)
- Klein, Philip (with Stein, Clifford) A parallel algorithm for eliminating cycles in undirected graphs. 91e:68121
- Kou, Lawrence T. On efficient implementation of an approximation algorithm for the Steiner tree problem. (Not in MR)
- Krithivasan, Kamala see Venkatasubramanian, S.; et al., 91g:68136
- Lai, Yen Tai (with Leinwand, Sany M.) A theory of rectangular dual graphs. 91g:68133
- Lakshminarayanan, S. see Liang, Y.; et al., 91m:68145
- Lee, Der Tsai (with Sarrafzadeh, M.; Wu, Y. F.) Minimum cuts for circular-arc graphs. 91j:68100
- Lee, R. C. T. see Yang, Ch'ang Piao; et al., (Not in MR)
- Leighton, Frank Thomson see Klawe, Maria, (91g:68002)
- Leinwand, Sany M. see Lai, Yen Tai, 91g:68133
- Levcopoulos, Christos (with Lingas, Andrzej; Petersson, Ola; Rytter, Wojciech) Optimal parallel algorithms for testing isomorphism of trees and outerplanar graphs. 91h:68117
- Liang, Wei Fa see Tang, Ce Shan, (Not in MR)
- Liang, Y. (with Rhee, C.; Dhall, S. K.; Lakshminarayanan, S.) A new approach for the domination problem on permutation graphs. 91m:68145
- Lichtenstein, David (with Linial, Nathan; Saks, Michael) Some extremal problems arising from discrete control processes. 91j:68163
- Lin, R. (with Olariu, Stephan) Fast parallel algorithms for cographs. 91j:68101
- Lingas, Andrzej Efficient parallel algorithms for path problems in planar directed graphs. (see 91g:68002)
- see also Levcopoulos, Christos; et al., 91h:68117
- Linial, Nathan see Lichtenstein, David; et al., 91k:68163
- Lodi, Elena (with Luccio, Fabrizio; Pagli, Linda) Routing in times square mode. 91f:68171
- Loeb, Martin Greedy compression systems. (see 91h:68006)
- Labw, Anna Counterexample to a conjecture of Szymanski on hypercube routing. 91j:68122
- Luccio, Fabrizio see Lodi, Elena; et al., 91f:68171
- (Mäkinen, Erkki) see Dubish, Pratal, 91m:68143
- Mehlhorn, Kurt see Alt, Helmut; et al., 91m:68141
- Michalewicz, Zbigniew see Groves, Lindsay J.; et al., (91k:68014)
- Miller, Gary L. see Gazit, Hillel, (91g:68002)
- Miller, Zavi (with Sudborough, Ivan Hal) A polynomial algorithm for recognizing bounded cutwidth in hypergraphs. 91h:68118
- Miyano, Satoru The lexicographically first maximal subgraph problems: P-completeness and NC algorithms. 91e:68105
- Möhring, Rolf H. Graph problems related to gate matrix layout and PLA folding. (German summary) (see 91a:68002)
- Muller, John H. (with Spinrad, Jeremy) Incremental modular decomposition. 91h:68119
- Nagamochi, Hiroshi (with Ibaraki, Toshihide) Computing edge-connectivity in multiple and capacitated graphs. 91j:68102
- Nanni, Umberto see Ausiello, Giorgio; et al., 91g:68130
- Niez, Jean-Jacques see Hérault, Laurent, (Not in MR)
- Nishizeki, Takao see Suzuki, Hiroshi; et al., 91d:68100
- Olariu, Stephan An optimal greedy heuristic to color interval graphs. 91m:68146
- see also Lin, R., 91j:68101
- Orlin, James B. see Young, Neal E.; et al., 91m:68147
- Pagli, Linda see Lodi, Elena; et al., 91f:68171
- Panayiotopoulos, J.-C. Using fifth generation tools for solving the clique number problem. 91h:68089
- Pandu Rangan, C. see Venkatasubramanian, S.; et al., 91g:68136
- Paul, Manfred see Alt, Helmut; et al., 91m:68141
- Pawlenko, V. A. On the complement of $\Pi(n)$ -sets. (Russian) (Not in MR)
- Paz, Azaria see Geva, Robert Y., (91h:68006)
- Pearson, David (with Vazirani, Vijay V.) A fast parallel algorithm for finding a maximal bipartite set. 91j:68103
- Peleg, David (with Ullman, Jeffrey D.) An optimal synchronizer for the hypercube. 91a:68214
- Petersson, Ola see Levcopoulos, Christos; et al., 91h:68117
- Pino, José A. see Rosenthal, Arnon, 91h:68147
- Pippenger, Nicholas The expected capacity of concentrators. 91k:68164
- Praeger, Cheryl E. see Royle, Gordon F., 91a:68216
- Preparata, Franco P. see Tamassia, Roberto, 91g:68135
- Quiroz, Adolfo J. Fast random generation of binary, t -ary and other types of trees. 91a:68215
- Rajčani, Peter Optimal parallel 3-colouring algorithm for rooted trees and its application. 91k:68165
- Ramachandran, Vijaya A minimax arc theorem for reducible flow graphs. 91h:68120
- Rhee, C. see Liang, Y.; et al., 91m:68145
- Robertson, Neil (with Seymour, Paul D.) An outline of a disjoint paths algorithm. 91j:68104
- Rosenstiel, P. see Bousset, M.; et al., (91k:68005)
- Rosenthal, Arnon (with Pino, José A.) A generalized algorithm for centrality problems on trees. 91h:68147
- Royle, Gordon F. (with Praeger, Cheryl E.) Constructing the vertex-transitive graphs of order 24. 91a:68216
- Rytter, Wojciech see Levcopoulos, Christos; et al., 91h:68117
- Saks, Michael see Lichtenstein, David; et al., 91k:68163
- Sarrafzadeh, M. see Lee, Der Tsai; et al., 91j:68100
- Schäffer, Alejandro A. Optimal node ranking of trees in linear time. 91c:68106
- Seymour, Paul D. see Robertson, Neil, 91j:68104
- Shasha, Dennis (with Zhang, Kaizhong) Fast algorithms for the unit cost editing distance between trees. 91h:68121

- Shindo, Mikio (with Tomita, Eisaji) A simple algorithm for finding a maximum clique and its worst-case time complexity. 91g:68134
- Simonson, Shal Routing with critical paths. 91g:68107
- Sipala, Paolo see Flajolet, Philippe; et al., 91g:68004
- Spencer, Thomas H. see Goldberg, Mark. 91d:68099
- Spinrad, Jeremy see Muller, John H., 91g:68119
- Steiglitz, Kenneth see Iwano, Kazuo, 91g:68132
- Stein, Clifford see Klein, Philip, 91g:68121
- Steynart, Jean-Marc see Flajolet, Philippe; et al., 91g:68004
- Sudborough, Ivan Hal see Miller, Zvi, 91g:68118
- Suzuki, Hiroshi (with Takahashi, Naomichi; Nishizeki, Takao) A linear algorithm for bipartition of biconnected graphs. 91d:68100
- Takahashi, Naomichi see Suzuki, Hiroshi; et al., 91d:68100
- Tamassia, Roberto (with Preparata, Franco P.) Dynamic maintenance of planar digraphs, with applications. 91g:68135
- (with Tollu, Ioannis G.) Representations of graphs on a cylinder. 91k:68166
- Tang, Ce Shan (with Liang, Wei Fa) A parallel algorithm for finding K minimum spanning trees. (Chinese. English summary) (Not in MR)
- Tarjan, Robert Endre see Young, Neal E.; et al., 91m:68147
- Tollu, Ioannis G. see Tamassia, Roberto, 91g:68135
- Tomita, Eisaji see Shindo, Mikio, 91g:68134
- Totras, Vasilis J. (with Gopinath, B.; Hart, George W.) Optimally managing the history of an evolving forest. (see 91g:68002)
- Ullman, Jeffrey D. see Peleg, David, 91a:68214
- Valdya, Pravin M. Approximate minimum weight matching on points in k -dimensional space. 91h:68090
- Varadarajan, Ravi Partitioning multi-edge graphs. 91e:68123
- Vazirani, Vijay V. see Pearson, David, 91g:68103
- Venkatasubramanian, S. (with Krishivasan, Kamala; Pandu Rangan, C.) Algorithms for weighted graph problems on the modified cellular graph automaton. (French summary) 91g:68136
- Wada, Koichi (with Kawaguchi, Kimio; Fujishima, Hideyuki) Maximum lower bound on embedding areas of general graphs. (Not in MR)
- Wagner, Dorothea (with Wagner, Frank O.) Channel routing under different optimization criteria. (see 91f:90007)
- Wagner, Frank O. see Wagner, Dorothea, 91f:90007
- Wiegner, Manfred The k -section of treewidth restricted graphs. (see 91h:68011)
- Wu, Y. F. see Lee, Der Tsai; et al., 91g:68100
- Yang, Chang Piao (with Lee, R. C. T.; Chen, Wen Tsen) Parallel graph algorithms based upon broadcast communications. (Not in MR)
- Yao, Rong (with Kang, Tai; Chen, Ting Hui) Algorithms for the determination of cutsets in a hypergraph. (Not in MR)
- Young, Neal E. (with Tarjan, Robert Endre; Orlin, James B.) Faster parametric shortest path and minimum-balance algorithms. 91m:68147
- Zerovnik, Janex A randomised heuristic algorithm for estimating the chromatic number of a graph. (Not in MR)
- Zhang, Cun Quan Finding critical independent sets and critical vertex subsets are polynomial problems. 91f:68172
- Zhang, Kaizhong see Shasha, Dennis, 91f:68121
- Zubair, M. (with Gupta, Saxya Narayan) Embeddings on a Boolean cube. 91d:68101
- Items with secondary classifications in 68R10
- Aboelaz, Mokhtar A. (with Wah, Benjamin W.) Complexities of layouts in three-dimensional VLSI circuits. 91f:68074
- AboElFotouh, Hosam M. (with Colbourn, Charles J.) Efficient algorithms for computing the reliability of permutation and interval graphs. 91m:68008
- Adhar, Gur Saran (with Peng, Shietung) Parallel algorithms for cographs and parity graphs with applications. 91g:68068
- Aggarwal, Alok (with Anderson, Richard John; Kao, Ming-Yang) Parallel depth-first search in general directed graphs. 91f:68027
- (with Klawe, Maria; Shor, Peter W.) Multilayer grid embeddings for VLSI. 91f:68075
- Ahl, Selim G. see Osiakwan, Constantine N. K., 91c:68042
- Aleksandrov, Ludmil G. (with Djidjev, H. N.) Improved bounds on the size of separators of toroidal graphs. 91e:05039
- All, Hesham H. see Sherwani, Naveed A.; et al., 91c:05174
- Alon, Noga (with Seymour, Paul D.; Thomas, Robin) A separator theorem for nonplanar graphs. 91h:05076
- Althöfer, Ingo (with Das, Gautam; Dobkin, David P.; Joseph, Deborah) Generating sparse spanners for weighted graphs. (see 91e:68016)
- Altschul, Stephen F. Leaf pairs and tree dissections. 91f:05042
- Anderson, Richard John (with Kahan, Simon; Schlag, Martine) An $O(n \log n)$ algorithm for 1-D tile compaction. (see 91h:68006)
- see also Aggarwal, Alok; et al., 91f:68027
- Annexstein, Fred (with Baumslag, Marc; Rosenberg, Arnold L.) Group action graphs and parallel architectures. 91g:68070
- Arakyan, V. V. The structural model of a "user-computer" interaction in cybernetic systems. (Russian) 91a:68254
- Avis, David On the complexity of isometric embedding in the hypercube. 91k:68079
- Babel, L. (with Tinhofer, G.) A branch and bound algorithm for the maximum clique problem. (German summary) 91g:05120
- Bagal, Rajiv (with Bezem, Marc; van Emden, M. H.) On downward closure ordinals of logic programs. 91f:68112
- Bagchi, Amitava (with Hakimi, S. Louis; Mitchem, J.; Schmeichel, Edward) Parallel algorithms for gossiping by mail. 91c:68018
- Bandyopadhyay, Subir see Sengupta, Abhijit; et al., 91m:68013
- Bang-Jensen, Jørgen (with Hell, Pavol) The effect of two cycles on the complexity of colourings by directed graphs. 91c:05072
- Edge-disjoint in- and out-branchings in tournaments and related path problems. 91m:05089
- Barbosa, Valmir C. Blocking versus nonblocking interprocess communication: a note on the effect on concurrency. (Not in MR)
- Bar-Noy, Amotz (with Naor, Joseph) Sorting, minimal feedback sets, and Hamilton paths in tournaments. 91d:68007
- Baumslag, Marc see Annexstein, Fred; et al., 91g:68070
- Becker, Ronald I. Inductive algorithms on finite trees. 91g:68073
- Berger, Bonnie (with Rompel, John) A better performance guarantee for approximate graph coloring. 91g:68074
- Berman, Fran (with Johnson, David Stifter; Leighton, Frank Thomson; Shor, Peter W.; Snyder, Larry E.) Generalized planar matching. 91g:68053
- Bernard, Jean-Claude (with Fourneau, J. M.) Independent connections: an easy characterization of baseline-equivalent multistage interconnection networks. 91h:68012
- (with Tzvieli, Dvora) Minimal diameter double-loop networks: dense optimal families. 91k:68019
- Bertossi, Alan A. (with Moretti, Sabrina) Parallel algorithms on circular-arc graphs. 91a:68109
- Bezem, Marc see Bagal, Rajiv; et al., 91f:68112
- Bhatt, Sandeep N. (with Chung, Fan R. K.; Rosenberg, Arnold L.) Partitioning circuits for improved testability. 91g:68047
- Bienstock, Daniel (with Monma, Clyde L.) On the complexity of embedding planar graphs to minimize certain distance measures. 91a:68119
- Linear-time test for small face covers in any fixed surface. 91c:68061
- Boals, Alfred see Sherwani, Naveed A.; et al., 91c:05174
- Bodlaender, Hans L. Achromatic number is NP-complete for cographs and interval graphs. 91a:68121
- Improved self-reduction algorithms for graphs with bounded treewidth. (see 91h:68006)
- (with Möhring, Rolf H.) The pathwidth and treewidth of cographs. (see 91e:68016)
- Boesch, F. T. (with Li, Xiao Ming; Suffel, C.) On the existence of uniformly optimally reliable networks. 91m:68010
- Brady, Martin L. (with Brown, Donna J.) Optimal multilayer channel routing with overlap. 91c:68045
- Brandenburg, Franz-Josef On the complexity of optimal drawings of graphs. (see 91h:68006)
- Brandstädt, Andreas The jump number problem for biconvex graphs and rectangle covers of rectangular regions. 91h:68045
- Brown, Donna J. see Brady, Martin L., 91c:68045
- Caccetta, L. Graph theory in network design and analysis. 91c:05097
- Cameron, Kathie An algorithmic note on the Gallai-Milgram theorem. 91g:05121
- Cantone, Domenico (with Omodeo, Eugenio; Policriti, Alberto) The automation of syllogistic. II. Optimization and complexity issues. 91m:68152
- Capocelli, Renato M. (with Gargano, Luisa; Vaccaro, Ugo) Time bounds for broadcasting in bounded degree graphs. (see 91h:68006)
- Chandrasekharan, N. Isomorphism testing of k -trees is in NC, for fixed k . (Not in MR)
- Chang, Chen Hua see Li, Tung Lin; et al., 91f:05107
- Chang, Kuo En (with Lai, Ting Hua; Feng, Wu Hsiung) A topological sorting algorithm for three-layer channel routing. (Chinese summary) (Not in MR)
- Chaudhari, N. S. (with Phatak, D. B.) On the isomorphism completeness of bipartite and tripartite graphs. 91f:05083
- Chaudhuri, Prady An adaptive parallel algorithm for analyzing activity networks. (Not in MR)
- see also Sen, Ranjan Kumar, 91g:68083
- Cheah, F. (with Cornell, Derek G.) The complexity of regular subgraph recognition. 91f:68055
- Chen, Calvin Ching-Yuen (with Das, Sajal K.) Parallel algorithms for level-order traversals of general trees. 91g:68066
- Chen, Guan-Ing (with Lai, Ten Hwang) Scheduling independent jobs on partitionable hypercubes. (Not in MR)
- Chen, Ming-Syan (with Shin, Kang G.) On relaxed squashed embedding of graphs into a hypercube. 91c:05067
- Chen, Wal-Kai see Liang, Wen-Hai; et al., 91f:05089
- Chernyak, A. A. (with Chernyak, Zh. A.) Pseudodominoid graphs. 91g:05106
- Chernyak, Zh. A. see Chernyak, A. A., 91g:05106
- Cheston, Grant A. (with Fricke, Gerd H.; Hedetniemi, Stephen T.; Jacobs, D. Pokrass) On the computational complexity of upper fractional domination. 91g:68077
- Chew, L. Paul There are planar graphs almost as good as the complete graph. 91a:68261
- Chio, Francis Y. L. (with Ting, H. F.) Improving the time complexity of message-optimal distributed algorithms for minimum-weight spanning trees. 91g:68014
- Chrobak, Marek (with Nishizeki, Takao) Improved edge-coloring algorithms for planar graphs. 91c:05077
- (with Szymacha, T.; Krawczyk, Adam) A data structure useful for finding Hamiltonian cycles. 91e:68026
- Chu, Eleanor (with George, Alan) Sparse orthogonal decomposition on a hypercube multiprocessor. 91h:65063
- Chung, Fan R. K. see Bhatt, Sandeep N.; et al., 91g:68047
- Cidon, Israel (with Gopal, Inder S.) Dynamic detection of subgraphs in computer networks. 91c:68004
- Cimikowski, Robert J. Coloring certain proximity graphs. 91d:05043
- Colbourn, Charles J. see AboElFotouh, Hosam M., 91m:68008
- Coppersmith, Don (with Raghavan, Prabhakar; Tompa, Martin) Parallel graph algorithms that are efficient on average. 91h:68044
- Cornell, Derek G. see Everett, H. J., 91d:68125; Przytycka, T., 91f:05113 and Cheah, F., 91f:68055
- (Craig, Iain) see Reutenauer, Christophe, 91f:68111
- Crama, Yves (with Hammer, Peter L.) Recognition of quadratic graphs and adjoints of bidirected graphs. 91d:05044
- Cunningham, William H. Computing the binding number of a graph. 91m:05175
- Das, Gautam see Althöfer, Ingo; et al., 91e:68016
- Das, Sajal K. (with Mukherjee, Phalguni; Sengupta, Indranil) Vertex-edge adjacency matrix of a graph and an algorithm to generate all cliques. 91d:05068
- (with Deo, Narsingh) Notes on "Divide-and-conquer-based optimal parallel algorithms

- for some graph problems on EREW PRAM model" [IEEE Trans. Circuits and Systems 35 (1988), no. 3, 312-322; MR 89d:68017]. 91g:68041
- (with Deo, Narsingh; Prasad, Sushil) Parallel graph algorithms for hypercube computers. 91a:68111
- (with Deo, Narsingh; Prasad, Sushil) Two minimum spanning forest algorithms on fixed-size hypercube computers. 91k:68073
- see also Chen, Calvin Ching-Yuen, 91g:68066
- De Agostino, Sergio (with Petreschi, Rossella) Parallel recognition algorithms for graphs with restricted neighbourhoods. 91b:68030
- Deo, Narsingh see Das, Sajal K.; et al., 91a:68111; 91g:68041 and 91k:68073
- Deogun, Jitender S. see Soumyanath, K., 91b:68082
- Dershowitz, Nachum (with Zaks, Shmuel) Patterns in trees. 91a:05033
- De Simone, Caterina (with Lucertini, Mario; Pallottino, Stefano; Simeone, Bruno) Fair dissections of spiders, worms, and caterpillars. 91c:05169
- Di Battista, Giuseppe (with Liu, Wei-Ping; Rival, Ivan) Bipartite graphs, upward drawings, and planarity. 91j:05037
- Djidjev, H. N. see Aleksandrov, Ljudmil G., 91c:05039
- Dobkin, David P. see Althöfer, Ingo; et al., (91c:68016)
- Du, Ding Zhu (with Hsu, D. Frank; Li, Qiao; Xu, Jun Ming) A combinatorial problem related to distributed loop networks. 91a:68011
- Đuriš, Pavol (with Pudlák, Pavel) On the communication complexity of planarity. 91b:68047
- Dyer, Martin E. (with Frieze, A. M.) Randomized greedy matching. 91m:05172
- Eades, Peter (with Fogg, Iain; Kelly, David) SPREMB: a system for developing graph algorithms. 91b:05002
- (with Wormald, Nicholas C.) Fixed edge-length graph drawing is NP-hard. 91j:68128
- Ebrahimi Zadeh, G. see Kaveh, A., 91b:05116
- Ehrenfeucht, Andrzej (with Rozenberg, Grzegorz) Partial (set) 2-structures. I. Basic notions and the representation problem. 91f:68050a
- (with Rozenberg, Grzegorz) Partial (set) 2-structures. II. State spaces of concurrent systems. 91f:68050b
- (with Rozenberg, Grzegorz) A characterization of set representable labeled partial 2-structures through decompositions. 91m:68139
- (with Rozenberg, Grzegorz) Theory of 2-structures. I. Clans, basic subclasses, and morphisms. 91c:05170
- (with Rozenberg, Grzegorz) Theory of 2-structures. II. Representation through labeled tree families. 91c:05171
- (with Rozenberg, Grzegorz) Primitivity is hereditary for 2-structures. 91c:05172
- van Emden, M. H. see Bagal, Rajiv; et al., 91b:68112
- Eppstein, David Finding the k smallest spanning trees. (see 91c:68016)
- Everett, H. J. (with Cornil, Derek G.) Recognizing visibility graphs of spiral polygons. 91d:68125
- Farley, Arthur M. (with Proskurowski, Andrzej) The design of template immune networks: path immunity. 91f:68008
- Fellows, Michael R. Transversals of vertex partitions in graphs. 91b:05099
- Feng, Wu Hsiung see Chang, Kuo Ên; et al., (Not in MR)
- Fernández-Baca, David (with Slutzki, Giora) Solving parametric problems on trees. 91a:68126
- Fich, Faith E. (with Wigderson, Avi) Toward understanding exclusive read. 91f:68039
- Fogg, Iain see Eades, Peter; et al., 91b:05002
- Fournier, J. M. see Bermond, Jean-Claude, 91b:68012
- Fraysseix, H. (with Pach, János; Pollack, Richard M.) How to draw a planar graph on a grid. 91g:05123
- Frederickson, Greg N. (with Janardan, Ravi) Efficient message routing in planar networks. 91c:68019a
- A distributed shortest path algorithm for a planar network. 91j:68050
- (with Janardan, Ravi) Space-efficient message routing in c -decomposable networks. 91c:68019b
- Fricke, Gerd H. see Cheston, Grant A.; et al., 91g:68077
- Friedrich, Sylvia C. see Gargano, Michael L., 91b:05114
- Friedman, Steven J. (with Supowit, Kenneth J.) Finding the optimal variable ordering for binary decision diagrams. (Not in MR)
- Frieze, A. M. see Dyer, Martin E., 91a:05172
- Fussell, Donald (with Thurimella, Ramakrishna) Successive approximation in parallel graph algorithms. 91f:68060
- Gabor, Csaba P. (with Supowit, Kenneth J.; Hsu, Wen-Lian) Recognizing circle graphs in polynomial time. 91c:68069
- Gabow, Harold N. (with Tarjan, Robert Endre) Faster scaling algorithms for network problems. 91d:68042
- Gall, Zvi (with Kannan, Ravindran; Szemerédi, Endre) On 3-pushdown graphs with large separators. 91c:05101
- Gambosi, Giorgio (with Postiglione, Alberto; Talamo, Maurizio) New algorithms for on-line bin packing. 91j:68051
- (with Nešetřil, Jaroslav; Talamo, Maurizio) On locally presented posets. 91g:06003
- Gao, Shun-Quan see Liang, Wen-Hai; et al., 91f:05089
- Gargano, Luisa see Capocelli, Renato M.; et al., (91b:68006)
- Gargano, Michael L. (with Friedrich, Sylvia C.) On constructing a spanning tree with optimal sequencing. 91b:05114
- Garmash, V. A. (with Shor, L. A.; Shor, O. L.) An algorithm for partitioning a bipartite graph on a matching of given cardinality. (Russian) (see 91c:68003)
- Georgakopoulos, George (with Kavadias, Dimitris) The banker's problem with precedences. 91a:68031
- George, Alan see Chu, Eleanor, 91b:65063
- Gibbons, Alan (with Rytter, Wojciech) Optimally edge-colouring outerplanar graphs is in NC. 91f:68062
- Gibbons, Phillip (with Karp, Richard M.; Ramachandran, Vijaya; Soroker, Danny; Tarjan, Robert Endre) Transitive compaction in parallel via branchings. 91c:05108
- Goldberg, Andrew V. (with Tarjan, Robert Endre) A parallel algorithm for finding a blocking flow in an acyclic network. 91f:68005
- Goldberg, Mark (with Spencer, Thomas H.) A new parallel algorithm for the maximal independent set problem. 91c:68048
- Gonzalez, Teofilo F. (with Lee, Sing-Ling) A linear time algorithm for optimal routing around a rectangle. (Not in MR)
- Gopal, Inder S. see Cidon, Israel, 91c:68004
- Gowrisankaran, Chandra (with Miller, Zevi; Opatrný, Jaroslav) A new bandwidth reduction algorithm for trees. 91f:05102
- Greenberg, David S. (with Heath, Lenwood S.; Rosenberg, Arnold L.) Optimal embeddings of butterfly-like graphs in the hypercube. 91b:68029
- Grinstead, Dana L. (with Slater, Peter J.) On minimum dominating sets with minimum intersection. 91k:68083
- Groppen, V. O. ★ Принципы оптимизации комбинаторных процедур. (Russian) [Principles of the optimization of combinatorial procedures] 91f:90104
- Groënoche, A. Counting and selecting at random bipartite graphs with fixed degrees. (French summary) 91f:05066
- Gusfield, Dan Efficient algorithms for inferring evolutionary trees. 91j:05098
- Hager, R. see Kerber, Adalbert; et al., 91m:05173
- Hagerup, Torben Optimal parallel algorithms on planar graphs. 91d:68044
- Planar depth-first search in $O(\log n)$ parallel time. 91g:68081
- Hagihara, Ken'ichi see Park, Jungho; et al., (Not in MR)
- Hajnal, Péter (with Szemerédi, Endre) Brooks coloring in parallel. 91c:68050
- Hakimi, S. Louis see Bagchi, Amitava; et al., 91c:68018
- Hammer, Peter L. see Crama, Yves, 91d:05044
- Han, Yijie (with Wagner, Robert A.) An efficient and fast parallel-connected component algorithm. 91g:68045
- Hayward, Ryan B. (with Hoàng, Chinh T.; Maffray, Frédéric) Optimizing weakly triangulated graphs. 91c:68051a
- (with Hoàng, Chinh T.; Maffray, Frédéric) Erratum: "Optimizing weakly triangulated graphs". 91c:68051b
- He, Xin (with Yesha, Yaacov) Efficient parallel algorithms for r -dominating set and p -center problems on trees. 91a:68129
- Efficient parallel and sequential algorithms for 4-coloring perfect planar graphs. 91g:68082
- An improved algorithm for the planar 3-cut problem. 91i:05109
- see also Sarnath, R., 91k:68093
- Heath, Lenwood S. see Greenberg, David S.; et al., 91b:68029
- Hedetniemi, Stephen T. see Cheston, Grant A.; et al., 91g:68077
- Heil, Pavol (with Nešetřil, Jaroslav) On the complexity of H -coloring. 91m:68082
- see also Bang-Jensen, Jørgen, 91c:05072
- Hellerstein, Lisa (with Klein, Philip; Wilber, Robert) On the time-space complexity of reachability queries for preprocessed graphs. 91f:68063
- Helmhold, David P. (with Mayr, Ernst W.) Applications of parallel scheduling algorithms to families of perfect graphs. (German summary) 91g:68062
- Henry, Robert R. see Messinger, Eli B.; et al., (Not in MR)
- Heydemann, M.-C. (with Meyer, J.-C.; Opatrný, Jaroslav; Sotteau, D.) Realizable values of the forwarding index. 91c:05103
- Higashi, Yasuhiko see Watanabe, Toshimasa; et al., (91g:68002)
- Ho, Chi Fai Some 0-1 solutions to matrix equation $A^m - A^n = I, I, I$. 91b:05086
- Ho, Pei Hsin see Lu, Tung Lin; et al., 91f:05107
- Hoàng, Chinh T. see Hayward, Ryan B.; et al., 91c:68051a and 91c:68051b
- van Hoesel, C. (with Schrijver, Alexander) Edge-disjoint homotopic paths in a planar graph with one hole. 91g:05034
- Hsieh, Wen Shyong (with Yang, Chu Sing; Tzeng, Jih-Shaw) Graph-theoretic characterization and reliability of the multiple-clique network. 91m:68011
- Hsu, D. Frank see Du, Ding Zhu; et al., 91a:68011
- Hsu, Wen-Lian see Gabor, Csaba P.; et al., 91c:68069 and Tsai, Kuo-Hsi, (91g:68002)
- Hwang, F. K. (with Yao, Yi-Ching) A generalization of the monotonicity theorem in group testing with applications to random multiaccess channels. 91d:94033
- Imase, Makoto see Soneoka, Terumasa; et al., 91d:05053
- Imrich, Wilfried (with Sabidussi, Gert) Focality and graph isomorphism. 91d:05054
- Irvine, Robert W. On approximating the minimum independent dominating set. 91m:68084
- Iyer, Ananth V. (with Ratliff, H. Donald; Vijayan, Gopalakrishnan) On an edge ranking problem of trees and graphs. 91h:00071
- Jacobs, D. Pokras see Cheston, Grant A.; et al., 91g:68077
- Jamison, Beverly (with Olariu, Stephan) A linear-time recognition algorithm for P_4 -reducible graphs. 91c:68039
- Janardan, Ravi see Frederickson, Greg N., 91c:68019a and 91c:68019b
- Jerrum, Mark (with Sinclair, Alistair) Fast uniform generation of regular graphs. 91h:68077
- see also Sinclair, Alistair, 91g:68084
- Jiang, Gao Jun (with Lu, Sheng Xun) Graph decomposition algorithms for finding maximal cliques. (Chinese. English summary) (Not in MR)
- Jiang, Zheng Z-tree structures and a parallel algorithm for updating minimum spanning trees. (Chinese. English summary) (Not in MR)
- Johnson, David Stiffler see Berman, Fran; et al., 91f:68053
- Joseph, Deborah see Althöfer, Ingo; et al., (91c:68016)
- Joshi, P. D. see Sengupta, Abhijit; et al., 91m:68013
- Kahan, Simon see Anderson, Richard John; et al., (91b:68006)
- Kanevsky, Arkady A characterization of separating pairs and triplets in a graph. 91m:05107
- Kann, Viggo Maximum bounded 3-dimensional matching is MAX SNP-complete. 91m:68085
- Kannan, Ravindran see Gall, Zvi; et al., 91c:05101
- Kao, Ming-Yang see Aggarwal, Alok; et al., 91c:68027
- Karloff, Howard J. An NC algorithm for Brooks' theorem. 91d:68050
- Karp, Richard M. see Gibbons, Phillip; et al., 91f:05108
- Karzanov, A. V. Packings of cuts realizing distances between certain vertices in a planar graph. 91h:05096
- Kasangian, Stefano (with Walters, R. F. C.) The duality between flow charts and circuits. 91j:68033
- Kashiwagi, Kenichi see Nishizeki, Takao, 91f:05055
- Kaufmann, Michael (with Mehlhorn, Kurt) Routing problems in grid graphs. 91k:68098

- Kavadias, Dimitris. *see Georgakopoulos, George*, 91a:68031
- Kaveh, A. (with Ebrahimi Zadeh, G.) An efficient program for generating subminimal cycle bases of graphs. 91b:05116
— Algebraic graph theory for ordering. 91h:73059
- Kelly, David. *see Eades, Peter*; et al., 91b:05002
- Kerber, Adalbert (with Laue, R.; Hager, R.; Weber, Wolfgang Peter) Cataloging graphs by generating them uniformly at random. 91m:05173
- Khaller, Samir. Extending planar graph algorithms to $K_{1,3}$ -free graphs. 91c:68052
— Coloring algorithms for K_1 -minor free graphs. 91h:68074
- Kirkpatrick, David G. (with Przytycka, T.) Parallel recognition of complement reducible graphs and cotree construction. 91j:68044
- Kirschenhofer, Peter (with Proding, Helmut; Szpankowski, Wojciech) On the balance property of Patricia tries: external path length viewpoint. 91a:68036
- Klawe, Maria. *see Aggarwal, Alok*; et al., 91b:68075
- Klein, Philip. *see Hellerstein, Lisa*; et al., 91b:68063
- Kleitman, Daniel J. (with Vohra, Rakesh V.) Computing the bandwidth of interval graphs. 91c:05115
- Koebe, Manfred. Knotendisjunkte Wege in planaren Graphen. [Knot-disjoint routes in planar graphs] 91c:05111
- Korobitsyn, D. V. On the complexity of determining the domination number in monogenic classes of graphs. (Russian) 91b:68066
- Kratochvíl, Jan (with Matoušek, Jiří) NP-hardness results for intersection graphs. 91c:05156
— (with Nešetřil, Jaroslav) INDEPENDENT SET and CLIQUE problems in intersection-defined classes of graphs. 91g:05125
- Kratsch, Dieter. Finding dominating cliques efficiently, in strongly chordal graphs and undirected path graphs. 91k:68088
- Krawczyk, Adam. *see Chrobak, Marek*; et al., 91c:68026
- Kreinovich, V. Ya. Group-theoretic approach to intractable problems. (see 91c:03004)
- Krishnamoorthy, V. (with Thulasiraman, K.; Swamy, M. N. S.) Incremental distance and diameter sequences of a graph: new measures of network performance. (Not in MR)
- Křivánek, Miroslav. A note on the computational complexity of bracketing and related problems. 91a:68132
— The use of graphs of elliptical influence in visual hierarchical clustering. (see 91h:68011)
- Kruskal, Clyde P. (with Rudolph, Larry; Snir, Marc) Efficient parallel algorithms for graph problems. 91a:68115
- Kumar, P. Sreenivasa (with Veni Madhavan, C. E.) A new class of separators and planarity of chordal graphs. 91c:68041
- Lai, Ten Hwang. *see Chen, Guan-Ing*. (Not in MR)
- Lai, Ting-Hua. *see Chang, Kuo-En*; et al., (Not in MR)
- Larsen, H. Legind (with Yager, Ronald R.) Efficient computation of transitive closures. 91h:04005
- Lane, R. *see Kerber, Adalbert*; et al., 91m:05173
- Lee, R. C. T. *see Yen, Chai-Chin*, 91h:68084
- Lee, Sing-Ling. *see Gonzalez, Teofilo F.*, (Not in MR)
- Leighton, Frank Thomson. *see Berman, Fraï*; et al., 91b:68053
- Leiserson, Charles E. (with Saxe, James B.) Retiming synchronous circuitry. 91b:68048
- Lengauer, Thomas. Hierarchical planarity testing algorithms. 91b:68069
— ★ Combinatorial algorithms for integrated circuit layout. 91h:68089
- Li, Chuan Xiang. The hierarchical structure interval theorem. (Chinese) 91f:05114
- Li, Chung-Lan (with McCormick, Thomas; Simchi-Levi, David) The complexity of finding two disjoint paths with min-max objective function. 91d:05061
- Li, Qiao. *see Du, Ding Zhu*; et al., 91a:68011
- Li, Xiao Ming. *see Boesch, F. T.*; et al., 91m:68010
- Liang, Wen-Hai (with Chen, Wai-Kai; Gao, Shun-Quan) Applications of lattice theory to graph decomposition. 91f:05089
- Lin, R. (with Olariu, Stephan) A fast parallel algorithm to recognize partitionable graphs. 91b:68052
- Lingas, Andrzej (with Proskurowski, Andrzej) On parallel complexity of the subgraph homeomorphism and the subgraph isomorphism problem for classes of planar graphs. 91d:68045
- Lien, Kang-Pu. *see Pothien, Alex*; et al., 91h:65064
- Lipski, Witold. ★ Kombinatoryka dla programistów. (Polish) [Combinatorics for programmers] 91c:05001
- Lin, Wei Gao. A lower bound for the Steiner tree problem in directed graphs. 91m:90139
- Liu, Wei-Ping. *see Di Battista, Giuseppe*; et al., 91j:05037
- Lomonosov, M. V. Cycles through prescribed elements in a graph. 91m:05119
- Losev, I. S. The language of paragraphs (the language of parallel operations over graphs) and the architecture of a parallel computer. (Russian) (Not in MR)
- Loui, Michael C. *see Wu, Michael M.*, 91c:68065
- Lu, Sheng Xun. *see Jiang, Guo Jun*. (Not in MR)
- Lu, Tung Lin (with Ho, Pei Hsin; Chang, Chen Hua) The domatic number problem in interval graphs. 91f:05107
- Lubiw, Anna. The Boolean basis problem and how to cover some polygons by rectangles. 91b:68114
- Lucertini, Mario. *see De Simone, Caterina*; et al., 91c:05169
- Ma, Shao Han (with Wallis, Walter D.; Wu, Ju Lin) Clique covering of chordal graphs. 91d:05076
- Madhavadepthy, Seshu (with Sudborough, Ivan Hal) Disjoint paths in the hypercube. (see 91h:68006)
- Maffray, Frédéric. *see Hayward, Ryan B.*; et al., 91c:68051a and 91c:68051b
- Mainagashv, S. M. *see Nechepurenko, M. I.*; et al., 91b:68056
- Mäkinen, Erkki. A note on the median heuristic for drawing bipartite graphs. 91c:68075
- Maley, F. Miller. A generic algorithm for one-dimensional homotopic compaction. 91d:68076
- Manacher, Glenn K. (with Mankus, Terrance A.; Smith, Carol Joan) An optimum $\Theta(n \log n)$ algorithm for finding a canonical Hamiltonian path and a canonical Hamiltonian circuit in a set of intervals. (Not in MR)
- Manber, Udi. Recognizing breadth-first search trees in linear time. 91f:68092
- Mankus, Terrance A. *see Manacher, Glenn K.*; et al., (Not in MR)
- Manoussakis, Yannis (with Tuza, Zsolt) Polynomial algorithms for finding cycles and paths in bipartite tournaments. 91h:68080
- Marcotte, Odile (with Suri, Subhash) Fast matching algorithms for points on a polygon. 91m:68088
- Marcu, Danuș. On finding the domination number of a graph. 91f:05108
- Markov, Aleksandr Aleksandrovich. Decompositions of root trees. (Russian) 91k:05036
— Systems of equations of the antiprefix property in words. (Russian) 91g:94012
- Masuzawa, Toshimitsu. *see Park, Jung-ho*; et al., (Not in MR)
- Matoušek, Jiří (with Thomas, Robin) Algorithms finding tree-decompositions of graphs. 91c:05112
— *see also Kratochvíl, Jan*, 91c:05156
- Mayr, Ernst W. Basic parallel algorithms in graph theory. (German summary) 91c:68077
— *see also Helmbold, David P.*, 91g:68062
- McCormick, Thomas. *see Li, Chung-Lan*; et al., 91d:05061
- McKay, Brendan D. (with Wormald, Nicholas C.) Uniform generation of random regular graphs of moderate degree. 91a:05091
- Mehlhorn, Kurt. *see Kaufmann, Michael*, 91k:68098
- Meinel, Christoph. Logic vs. complexity theoretic properties of the graph accessibility problem for directed graphs of bounded degree. 91h:68068
- Meng, Alex C.-C. (with Ntafos, Simeon) Problems in dynamic path planning. 91d:68129
- Messinger, Eli B. (with Rowe, Lawrence A.; Henry, Robert R.) A divide-and-conquer algorithm for the automatic layout of large directed graphs. (Not in MR)
- Meyer, J.-C. *see Heydemann, M.-C.*; et al., 91c:05103
- Middendorf, Matthias (with Pfeiffer, Frank) On the complexity of recognizing perfectly orderable graphs. 91b:68038
- Miller, Zvi. *see Gowrisankaran, Chandra*; et al., 91f:05102
- Mitchem, J. *see Bagchi, Amitava*; et al., 91c:68018
- Mohar, Bojan. Computing the characteristic polynomial of a tree. 91a:05034
- Möhring, Rolf H. *see Bodlaender, Hans L.*, (91c:68016)
- Mosien, Burkhard (with Sudborough, Ivan Hal) Embedding one interconnection network in another. (German summary) 91f:68051
- Mouma, Clyde L. (with Paterson, Michael; Suri, Subhash; Yao, Foong Frances) Computing Euclidean maximum spanning trees. 91f:68075
— *see also Bienstock, Daniel*, 91a:68119
- Moran, Shlomo. Message complexity versus space complexity in fault tolerant broadcast protocols. 91a:68013
— (with Newman, Ilan; Wolfstahl, Yaron) Approximation algorithms for covering a graph by vertex-disjoint paths of maximum total weight. 91k:05079
— (with Wolfstahl, Yaron) One-page book embedding under vertex-neighborhood constraints. 91h:68090
- Moretti, Sabrina. *see Bertossi, Alan A.*, 91a:68109
- Motwani, Rajeev (with Raghunathan, Arvind; Saran, Huzur) Covering orthogonal polygons with star polygons: the perfect graph approach. 91m:68167
- Mukherjee, Phalguni. *see Das, Sajal K.*; et al., 91d:05068
- Munshi, Ashfaq A. (with Simons, Barbara) Scheduling sequential loops on parallel processors. (Not in MR)
- Nakada, Hiroshi. *see Someka, Terunao*; et al., 91d:05053
- Nakamura, Akira. *see Watanabe, Toshimasa*; et al., (91g:68002)
- Naoi, Joseph (with Novick, Mark B.) An efficient reconstruction of a graph from its line graph in parallel. 91d:68052
— *see also Bar-Noy, Amotz*, 91d:68007
- Narasimhan, Guri. A note on the Hamiltonian circuit problem on directed path graphs. 91a:68134
- Neapolitan, Richard E. ★ Probabilistic reasoning in expert systems. 91b:68144
- Nechepurenko, M. I. (with Popkov, V. K.; Mainagashv, S. M.; et al.) ★ Алгоритмы и программы решения задач на графах и сетях. (Russian) [Algorithms and programs for solving problems on graphs and networks] 91j:68056
- Nešetřil, Jaroslav. *see Kratochvíl, Jan*, 91g:05125; Gambosi, Giorgio; et al., 91g:06003 and Hell, Pavel, 91m:68082
- Newman, Ilan. *see Moran, Shlomo*; et al., 91k:05079
- Nishizeki, Takao. Planar graph problems. (German summary) 91g:05128
— (with Kashiwagi, Kenichi) On the 1,1 edge-coloring of multigraphs. 91f:05055
— *see also Chrobak, Marek*, 91c:05077
- Novick, Mark B. *see Naoi, Joseph*, 91d:68052
- Ntafos, Simeon. *see Meng, Alex C.-C.*, 91d:68129
- Olariu, Stephan. On the closure of triangle-free graphs under substitution. 91h:05108
— *see also Jamison, Beverly*, 91c:68039 and Lin, R., 91b:68052
- Omodeo, Eugenio. *see Cantone, Domenico*; et al., 91m:68152
- Opatrný, Jaroslav. *see Heydemann, M.-C.*; et al., 91c:05103 and Gowrisankaran, Chandra; et al., 91f:05102
- Orda, Ariel (with Rom, Raphael) Shortest-path and minimum-delay algorithms in networks with time-dependent edge-length. 91m:90063
- Oslakwan, Constantine N. K. (with Akl, Selim G.) Optimal parallel algorithms for b -matchings in trees. 91c:68042
- Pach, János. *see de Fraysseix, H.*; et al., 91g:05123
- Palla, J. M. A distance metric on binary trees using lattice-theoretic measures. 91c:68031
- Pallottino, Stefano. *see De Simone, Caterina*; et al., 91c:05169
- Pandu Rangan, C. *see Srinivasa Rao, Arifati*, 91a:68117; 91c:68044; 91g:68085 and Ramalingam, G., (Not in MR)
- Pantziou, Grammati E. (with Spirakis, Paul G.; Zaroliagis, Christos D.) Fast parallel approximations of the maximum weighted cut problem through derandomization. 91c:68043
— (with Spirakis, Paul G.; Zaroliagis, Christos D.) Efficient parallel algorithms for shortest paths in planar graphs. (see 91c:68016)
- Park, Jung-ho (with Tokura, Nobuki; Masuzawa, Toshimitsu; Hagihara, Ken'ichi) An efficient distributed algorithm for constructing a breadth-first search tree. (Not in MR)
- Paterson, Michael. *see Mouma, Clyde L.*; et al., 91f:68075
- Peleg, David (with Schäffer, Alejandro A.) Time bounds on fault-tolerant broadcasting. 91h:68018
- Peng, Shietung. *see Adhar, Gur Saran*, 91g:68068

- Peng, Yun Approximation algorithms for some postman problems over mixed graphs. (Chinese) (Not in MR)
- Perrin, Dominique Arbres et séries rationnelles. (English summary) [Trees and rational power series] 91g:68097
- Petreschi, Rossella *see* De Agostino, Sergio, 91h:68030
- Pfeiffer, Frank *see* Middendorf, Matthias, 91h:68038
- Phatak, D. B. *see* Chandhari, N. S., 91h:05083
- Pollicriti, Alberto *see* Cantone, Domenico; et al., 91m:68152
- Pollack, Richard M. *see* de Fraysseix, H.; et al., 91g:05123
- Popescu, Emil On the structure of preordered sets. 91h:68125
- Popkov, V. K. *see* Nechepurenko, M. I.; et al., 91j:68056
- Postiglione, Alberto *see* Gambosi, Giorgio; et al., 91j:68051
- Pothen, Alex (with Simon, Horst D.; Liou, Kang-Pu) Partitioning sparse matrices with eigenvectors of graphs. 91h:65064
- Prasad, Sushil *see* Das, Sajal K.; et al., 91a:68111 and 91h:68073
- (Preas, Bryan) *see* Lengauer, Thomas, 91h:68089
- Prodinger, Helmut *see* Kirschenhofer, Peter; et al., 91a:68036
- Proskurowski, Andrzej *see* Lingas, Andrzej, 91d:68045; Farley, Arthur M., 91f:68006 and Ruckey, Frank, 91h:68143
- Przytycka, T. (with Cornil, Derek G.) Parallel algorithms for parity graphs. 91h:05113 — *see also* Kirkpatrick, David G., 91j:68044
- Pudlak, Pavel *see* Duris, Pavol, 91h:68047
- Raghavan, Prabhakar (with Thompson, Clark D.) Multiterminal global routing: a deterministic approximation scheme. 91h:68049 — *see also* Coppersmith, Don; et al., 91h:68044
- Ragunathan, Arvind *see* Motwani, Rajeev; et al., 91m:68167
- Ramachandran, Vijaya *see* Gibbons, Phillip; et al., 91h:05108
- Ramalingam, G. (with Pandu Rangan, C.) New sequential and parallel algorithms for interval graph recognition. (Not in MR)
- Ratiff, H. Donald *see* Iyer, Ananth V.; et al., 91h:90071
- Ravi, S. S. On the orderability problem for PLA folding. 91c:68056
- Reutenauer, Christophe ★ The mathematics of Petri nets. 91h:68111
- Richards, Dana S. (with Salowe, Jeffrey S.) A rectilinear Steiner minimal tree algorithm for convex point sets. (see 91c:68016)
- *see also* Williams, Craig, 91g:05080
- Rival, Ivan Graphical data structures for ordered sets. 91h:06007 — *see also* Di Battista, Giuseppe; et al., 91j:05037
- Robertson, Neil (with Vitray, Richard) Representativity of surface embeddings. 91m:05072
- Rom, Raphael *see* Orda, Ariel, 91m:90063
- Rompel, John *see* Berger, Bonnie, 91g:68074
- Rosenberg, Arnold L. Exposing graph uniformities via algebraic specification. 91h:05116 — *see also* Greenberg, David S.; et al., 91h:68029; Annesstein, Fred; et al., 91g:68070 and Bhatt, Sandeep N.; et al., 91j:68047
- Rote, Günter Path problems in graphs. (German summary) 91m:05122
- Rowe, Lawrence A. *see* Messinger, Eli B.; et al., (Not in MR)
- Rosenberg, Grzegorz *see* Ehrenfeucht, Andrzej, 91c:05170; 91c:05171; 91c:05172; 91f:68050a; 91f:68050b and 91m:68139
- Rubinfeld, Ronitt The cover time of a regular expander is $O(n \log n)$. 91h:68072
- Rudolph, Larry *see* Kruskal, Clyde P.; et al., 91a:68115
- Ruckey, Frank (with Proskurowski, Andrzej) Generating binary trees by transpositions. 91h:68143
- Rytter, Wojciech On parallel computations of expressions and straight-line programs. 91h:68057 — *see also* Gibbons, Alan, 91h:68062
- Sabidussi, Gert *see* Imrich, Wilfried, 91d:05054
- Sakamoto, Akio *see* Shimamoto, Takashi, 91c:90045
- Salowe, Jeffrey S. *see* Richards, Dana S., (91c:68016)
- Sánchez-Arroyo, Abdon Determining the total colouring number is NP-hard. 91g:05049
- Sapir, M. V. A logic approach to combinatorial computations. 91h:68050
- Saran, Hazar *see* Motwani, Rajeev; et al., 91m:68167
- Sarkar, Dilip (with Tong, Wing) The Gg-network: a new linear-cost computer network. 91a:68014
- Sarmath, R. (with He, Xin) A P-complete graph partition problem. 91h:68093
- Satyanarayanan, Appajosyula *see* Sutter, Klaus; et al., 91h:68073
- Saxe, James B. *see* Leiserson, Charles E., 91h:68048
- Schäffer, Alejandro A. *see* Peleg, David, 91h:68018
- Schiermeyer, Ingo A fast sequential and parallel algorithm for the computation of the k -closure of a graph. (see 91h:68006)
- Schlag, Martine *see* Anderson, Richard John; et al., (91h:68006)
- Schmeichel, Edward *see* Bagchi, Amitava; et al., 91h:68018
- Schrijver, Alexander *see* van Hoesel, C., 91g:05034
- Schwill, Andreas Nonblocking graphs: greedy algorithms to compute disjoint paths. 91g:68064
- Sedukhin, S. G. Design of systolic and wave-matrix structures for solving the algebraic problem of path determination. (Not in MR)
- Sen, Ranjan Kumar (with Chaudhuri, Pranay) A parallel approximate algorithm for minimum edge deletion bipartite subgraph problem. 91g:68083 — An approximate algorithm for minimum edge deletion bipartite subgraph problem. 91h:68081
- Sengupta, Abhijit (with Joshi, P. D.; Bandyopadhyay, Subir) A synthesis approach to design optimally fault tolerant network architecture. 91h:68013
- Sengupta, Indranil *see* Das, Sajal K.; et al., 91d:05068
- Seymour, Paul D. *see* Alon, Noga; et al., 91h:05076
- Shakhbazyan, K. V. Representation of processes in graphs. 91f:05096
- Shasha, Dennis *see* Zhang, Kaibong, 91c:68010
- Sherwani, Naveed A. (with Boals, Alfred; Ali, Hesham H.) Load balancing graphs. 91c:5174
- Shimamoto, Takashi (with Sakamoto, Akio) Cycle breaking and longest path in channel routing problem. 91c:90045
- Shin, Kang G. *see* Chen, Ming-Syan, 91c:05067
- Shor, L. A. *see* Garmash, V. A.; et al., (91c:60003)
- Shor, O. L. *see* Garmash, V. A.; et al., (91c:60003)
- Shor, Peter W. *see* Berman, Fran; et al., 91h:68053 and Aggarwal, Alok; et al., 91h:68075
- Shangarav, Kh. D. On the efficiency of an algorithm for solving a problem of the covering of a graph by stars. (Russian) 91f:05109
- Shys, Chli Hush A parallel algorithm for finding a maximum weight clique of an interval graph. 91a:68140
- Sidorenko, A. F. Minimal rectilinear Steiner trees. (Russian) 91g:05032
- Simchi-Levi, David *see* Li, Chung-Lun; et al., 91d:05061
- Simeone, Bruno *see* De Simone, Caterina; et al., 91c:05169
- Simon, Hans-Ulrich Approximation algorithms for channel assignment in cellular radio networks. 91a:68024 — Continuous reductions among combinatorial optimization problems. 91h:68166
- Simon, Horst D. *see* Pothen, Alex; et al., 91h:65064
- Simon, Klaus Finding a minimal transitive reduction in a strongly connected digraph within linear time. (see 91h:68006)
- Simons, Barbara *see* Munshi, Ashfaq A., (Not in MR)
- Slachlir, Alstair (with Jerrum, Mark) Approximate counting, uniform generation and rapidly mixing Markov chains. 91g:68084 — *see also* Jerrum, Mark, 91h:68077
- Slater, Peter J. *see* Grinstead, Dana L., 91h:68083
- Šlapek, Miroslav A coloring algorithm for interval graphs. 91a:68116
- Slutzki, Giora *see* Fernández-Baca, David, 91h:68126
- Smith, Carol Joan *see* Manacher, Glenn K.; et al., (Not in MR)
- Snir, Marc *see* Kruskal, Clyde P.; et al., 91h:68115
- Snyder, Larry E. *see* Berman, Fran; et al., 91h:68053
- Soneoka, Teruaki (with Nakada, Hiroshi; Imase, Makoto) Design of a d -connected digraph with a minimum number of edges and a quasiminimal diameter. 91d:05053
- Sorek, Danny Optimal parallel construction of prescribed tournaments. 91h:68095 — *see also* Gibbons, Phillip; et al., 91h:05108
- Sottean, D. *see* Heydemann, M.-C.; et al., 91c:05103
- Soumyanath, K. (with Deogun, Jitender S.) On the bisection width of partial k -trees. 91h:68082
- Speckmeyer, Ewald On feedback problems in digraphs. (see 91h:68006)
- Spencer, Thomas H. *see* Goldberg, Mark, 91c:68048
- Spirakis, Paul G. *see* Pantziou, Grammati E.; et al., 91h:68043 and (91h:68016)
- Sprugnoli, Renzo Counting labels in binary trees. 91a:68037
- Srinivasa Rao, Arikati (with Pandu Rangan, C.) Linear algorithm for domatic number problem on interval graphs. 91a:68117 — (with Pandu Rangan, C.) Optimal parallel algorithms on circular-arc graphs. 91c:68044 — (with Pandu Rangan, C.) Linear algorithm for optimal path cover problem on interval graphs. 91g:68085
- Sudborough, Ivan Hal *see* Monien, Burkhard, 91f:68051 and Madhavapetty, Seshu, (91h:68006)
- Suffel, C. *see* Sutter, Klaus; et al., 91h:68073 and Boesch, F. T.; et al., 91m:68010
- Supowit, Kenneth J. *see* Gabow, Chaba P.; et al., 91c:68069 and Friedman, Steven J., (Not in MR)
- Suri, Subhash *see* Monien, Burkhard, 91f:68051 and Marcotte, Odile, 91m:68088
- Sutter, Klaus (with Satyanarayanan, Appajosyula; Suffel, C.) The complexity of the residual node connectedness reliability problem. 91h:68073
- Swamy, M. N. S. *see* Krishnamoorthy, V.; et al., (Not in MR)
- Syala, Maciej M. Bounds to the page number of partially ordered sets. 91f:06006 — (with Witaj, Pawel) In-trees and plane embeddings of outerplanar graphs. 91a:05039
- Szemerédi, Endre *see* Galil, Zvi; et al., 91c:05101 and Hajnal, Péter, 91c:68050
- Szpankowski, Wojciech *see* Kirschenhofer, Peter; et al., 91a:68036
- Szymacha, T. *see* Chrobak, Marek; et al., 91c:68026
- Talana, Maurizio *see* Gambosi, Giorgio; et al., 91g:68083 and 91j:68051
- Tarjan, Robert Endre *see* Gabow, Harold N., 91d:68042; Goldberg, Andrew V., 91h:68085 and Gibbons, Phillip; et al., 91h:05108
- Teo, Kim-Heng (with Tuan, Tai-Ching) Performance analysis of greedy heuristic to find a minimum total-jogs layout for river routing. (Not in MR)
- Tetelbaum, A. Ya. Rectilinear folding of a graph with quasiminimal number of intersections of edges. 91g:05130
- Thomas, Robin *see* Alon, Noga; et al., 91h:05076 and Matousek, Jiří, 91h:05112
- Thomassen, Carsten The graph genus problem is NP-complete. 91d:68054
- Thompson, Clark D. *see* Raghavan, Prabhakar, 91h:68049
- Thulasiraman, K. *see* Krishnamoorthy, V.; et al., (Not in MR)
- Thurimella, Ramakrishna *see* Fussell, Donald, 91h:68060
- Ting, H. F. *see* Chin, Francis Y. L., 91g:68014
- Tinhofer, G. Generating graphs uniformly at random. (German summary) 91c:05175 — *see also* Babel, L., 91g:05120
- Tokura, Nobuki *see* Park, Jongho; et al., (Not in MR)
- Tomp, Martin *see* Coppersmith, Don; et al., 91h:68044
- Tong, Wing *see* Sarkar, Dilip, 91a:68014
- Trivellari, S. A note on hypergraph decomposition based on extended minimal sets. 91h:05066
- Tsai, Kuo-Hsi (with Hsu, Wen-Lian) Fast algorithms for the dominating set problem on permutation graphs. (see 91g:68002)
- Tuan, Tai-Ching *see* Teo, Kim-Heng, (Not in MR)
- Tuza, Zolt *see* Manoussakis, Yannis, 91h:68000
- Treng, Jih-Shaw *see* Hsieh, Wen-Shyong; et al., 91m:68011
- Trivellari, Dora *see* Bermond, Jean-Claude, 91h:68019
- Ullman, Jeffrey D. (with Yannakakis, Mihalis) High-probability parallel transitive-closure algorithms. 91m:68067
- Vaccaro, Ugo *see* Capocelli, Renato M.; et al., (91h:68006)
- Vazirani, Umesh V. (with Vazirani, Vijay V.) The two-processor scheduling problem is in random NC. 91c:68062
- Vazirani, Vijay V. *see* Vazirani, Umesh V., 91c:68062
- Venkatadri, C. E. *see* Kumar, P. Greenlva, 91c:68041

- Vijayan, Gopalakrishnan *see* Iyer, Ananth V.; et al., 91k:90071
- Vinnichenko, N. G. On a class of bichromatic graphs without 4-cycles. (Russian) 91e:05070
- Vitray, Richard *see* Robertson, Neil, 91m:05072
- Vohra, Rakesh V. *see* Kleitman, Daniel J., 91g:05115
- Wagner, Robert A. *see* Han, Yijie, 91g:68045
- Wah, Benjamin W. *see* Abolaze, Mokhtar A., 91f:68074
- Walsh, Gary R. A new $O(n^2)$ shortest chain algorithm. 91e:90126
- Wallis, Walter D. *see* Ma, Shao Han; et al., 91d:05076
- Walters, R. F. C. *see* Kasangian, Stefano, 91j:68033
- Watanabe, Toshimasa (with Higashi, Yasuhiko; Nakamura, Akira¹) Graph augmentation problems for a specified set of vertices. (see 91g:68002)
- Weber, Wolfgang Peter *see* Kerber, Adalbert; et al., 91m:05173
- de Werra, Dominique Heuristics for graph coloring. (German summary) 91g:05052
- Wigderson, Avi *see* Fich, Faith E., 91f:68039
- Wilber, Robert *see* Hellerstein, Lisa; et al., 91f:68063
- Williams, Craig (with Richards, Dana S.) Efficient algorithms for path partitions. 91g:50080
- Winter, Paweł *see* Syslo, Maciej M., 91a:05039
- Woeginger, Gerhard A simple solution to the two paths problem in planar graphs. (Not in MR)
- Wolfstahl, Yaron *see* Moran, Shlomo, 91h:68090 and 91k:05079
- Wormald, Nicholas C. *see* McKay, Brendan D., 91a:05091 and Eades, Peter, 91j:68128
- Wu, Ju Lin *see* Ma, Shao Han; et al., 91d:05076
- Wu, Michael M. (with Loui, Michael C.) An efficient distributed algorithm for maximum matching in general graphs. 91e:68065
- Xu, Jun Ming *see* Du, Ding Zhu; et al., 91e:68011
- Yager, Ronald R. *see* Larsen, H. Logind, 91h:04005
- Yang, Chu Sing *see* Hsieh, Wen Shyong; et al., 91m:68011
- Yannakakis, Mihalis *see* Ullman, Jeffrey D., 91m:68067
- Yao, Foong Frances *see* Monma, Clyde L.; et al., 91f:68075
- Yao, Yi-Ching *see* Hwang, F. K., 91d:94033
- Yen, Chai-Chin (with Lee, R. C. T.) The weighted perfect domination problem. 91h:68064
- Yosha, Yaacov *see* He, Xin, 91a:68129
- Zaks, Shmuel *see* Dershowitz, Nachum, 91a:05033
- Zarogi, Christ D. *see* Pandion, Grammati E.; et al., 91c:68043 and (91e:68016)
- Zerovnik, Janez A randomised heuristic algorithm for graph colouring. 91h:05084
- Zhang, Kaizhong (with Shasha, Dennis) Simple fast algorithms for the editing distance between trees and related problems. 91c:68010
- Zhang, Yi Xin Parallel algorithms for minimal spanning trees of directed graphs. (Not in MR)

68R15 Combinatorics on words

- Abdulrah, Habib (with Pécuchet, Jean-Pierre) On word equations and Makanin's algorithm. 91h:68091
- (with Pécuchet, Jean-Pierre) Solving word equations. 91h:68092
- (with Pécuchet, Jean-Pierre) Solving word equations [MR 91h:68092]. (see 91j:68006)
- Solving word equations. (French summary) 91g:68137
- Arnold, André (with Brie, S.) Optimal word chains for the Thue-Morse word. 91e:68124
- Arques, D. Combinatoire des mots et étude quantitative de la sérialisabilité: application à la concurrence d'accès à une base de données. (English summary) [Combinatorics of words and quantitative study of serializability: application to concurrent database access] 91f:68173
- Baryshev, M. Yu. Approximations of words by words without self-duplication. (Russian) 91c:68108
- Bradford, James H. Sequence matching with binary codes. 91f:68174
- Brie, S. *see* Arnold, André, 91e:68124
- Liu, Hai-Ning (with Wrathall, C.; Zeger, Kenneth) Efficient solution of some problems in free partially commutative monoids. 91f:68122
- La, Mi Parallel computation of longest-common-subsequence. (see 91m:68002)
- Maes, Maurice On a cyclic string-to-string correction problem. 91f:68123
- Mignosi, Filippo Infinite words with linear subword complexity. 91h:68093
- Pécuchet, Jean-Pierre *see* Abdulrah, Habib, 91h:68091; 91h:68092 and (91j:68006)
- Sébold, Patrice (with Slowinski, Karine) Minimizing picture words. 91m:68148
- Simon, Imre Factorization forests of finite height. 91j:68105
- Slowinski, Karine *see* Sébold, Patrice, 91m:68148
- Wrathall, C. *see* Liu, Hai-Ning; et al., 91f:68122
- Zeger, Kenneth *see* Liu, Hai-Ning; et al., 91f:68122

Items with secondary classifications in 68R15

- Althöfer, Ingo Tight lower bounds on the length of word chains. (Not in MR)
- Apostolico, Alberto (with Atallah, Mikhail J.; Larmore, Lawrence L.; McFadden, Scott) Efficient parallel algorithms for string editing and related problems. 91g:68071
- Atallah, Mikhail J. *see* Apostolico, Alberto; et al., 91g:68071
- Autebert, Jean-Michel (with Boasson, Luc; Lattaux, Michel) Motifs et bases de langages. (English summary) [Motifs and bases of languages] 91c:68085
- Baker, Kirby A. (with McNulty, George F.; Taylor, Walter) Growth problems for avoidable words. 91f:68109
- Boasson, Luc *see* Autebert, Jean-Michel; et al., 91c:68085
- Breslauer, Dany (with Galil, Zvi) An optimal $O(\log \log n)$ time parallel string matching algorithm. 91m:68074
- Crochemore, Maxime (with Rytter, Wojciech) Parallel computations on strings and arrays. 91g:68061
- Galil, Zvi *see* Breslauer, Dany, 91m:68074
- Iványi, Antal (with Tóth, Zoltán) Existence of de Bruijn words. 91k:05016
- Jaffar, Joxan Minimal and complete word unification. 91g:68095
- Kopytova, O. M. Homogeneous countability of sets of output words. (Russian) 91f:68159
- Larmore, Lawrence L. *see* Apostolico, Alberto; et al., 91g:68071
- Lattaux, Michel *see* Autebert, Jean-Michel; et al., 91c:68085

- Maia, Michael G. Detecting leftmost maximal periodicities. 91h:68043
- Manber, Udi *see* Wu, Sun; et al., (Not in MR)
- Markov, Aleksandr Aleksandrovich Systems of equations of the antiprefix property in words. (Russian) 91g:94012
- Martynov, S. S. Complexity of some problems in editing words. (Russian) 91c:68053
- McFadden, Scott *see* Apostolico, Alberto; et al., 91g:68071
- McNulty, George F. *see* Baker, Kirby A.; et al., 91f:68109
- Miller, Webb *see* Wu, Sun; et al., (Not in MR)
- Myers, Gene *see* Wu, Sun; et al., (Not in MR)
- Rateandromana, Bodonirina Codes et motifs. (English summary) [Codes and motifs] 91f:68119
- Rytter, Wojciech *see* Crochemore, Maxime, 91g:68061
- Sébold, Patrice About a family of binary morphisms which stationary words are Sturmian. (French summary) 91d:68073
- Simon, Imre Properties of factorization forests. 91f:20074
- Stephen, J. B. Presentations of inverse monoids. 91g:20083
- Taylor, Walter *see* Baker, Kirby A.; et al., 91f:68109
- Tóth, Zoltán *see* Iványi, Antal, 91k:05016
- Ukkonen, Esko A linear-time algorithm for finding approximate shortest common superstrings. 91g:68065
- Wu, Sun (with Manber, Udi; Myers, Gene; Miller, Webb) An $O(NP)$ sequence comparison algorithm. (Not in MR)

68R99 None of the above, but in this section

- Savický, Petr Random Boolean formulas representing any Boolean function with asymptotically equal probability. 91h:68124
- Items with secondary classifications in 68R99
- Abdulrah, Habib (with Pécuchet, Jean-Pierre) Solving word equations. 91h:68092
- (with Pécuchet, Jean-Pierre) Solving word equations [MR 91h:68092]. (see 91j:68006)
- Alexandrakis, Athanasios *see* Bozapalidis, Symeon, 91f:68111
- Alon, Noga (with Karchmer, Mauricio; Wigderson, Avi) Linear circuits over $GF(2)$. 91f:50024
- Bertossi, Alan A. (with Lodi, Elena; Luccio, Fabrizio; Pagli, Linda) Context-dependent string matching. 91c:68037
- Bozapalidis, Symeon (with Alexandrakakis, Athanasios) Représentations matricielles des séries d'arbre reconnaissables. (English summary) [Matrix representations of recognizable series on trees] 91f:68111
- Goles Ch., Eric (with Martínez, Servet) ★ Neural and automata networks. 91h:58059
- (with Martínez, Servet) Lyapunov functionals for automata networks defined by cyclically monotone functions. 91m:68135
- Karchmer, Mauricio *see* Alon, Noga; et al., 91f:50024
- Leiss, Ernst L. The scordatura problem. 91h:06021
- Lodi, Elena *see* Bertossi, Alan A.; et al., 91c:68037
- Luccio, Fabrizio *see* Bertossi, Alan A.; et al., 91c:68037
- Martinez, Servet *see* Goles Ch., Eric, 91h:58059 and 91m:68135
- Melter, Robert A. *see* Rosenfeld, Azriel, 91a:68274
- Mislove, Michael W. Compact semilattices, partial orders and topology. 91k:22012
- Pagli, Linda *see* Bertossi, Alan A.; et al., 91c:68037
- Pécuchet, Jean-Pierre *see* Abdulrah, Habib, 91h:68092 and (91j:68006)
- Rosenfeld, Azriel (with Melter, Robert A.) Digital geometry. 91a:68274
- Schnorr, C.-P. The multiplicative complexity of Boolean functions. 91a:68102
- Wegener, Inge (with Zádori, László) A note on the relations between critical and sensitive complexity. (German and Russian summaries) 91a:68106
- Wigderson, Avi *see* Alon, Noga; et al., 91f:50024
- Zádori, László *see* Wegener, Inge, 91a:68106

68S05 Mathematical linguistics [see also 03B65, 92K20]

- Peregrin, Jaroslav On a logical formalization of natural language. 91h:68148
- Popesca, Emil On the structure of preorder sets. 91f:68125
- Timofeeva, M. K. A natural language computer interface. (Russian) (Not in MR)

Items with secondary classifications in 68S05

- Abramson, Harvey (with Dahl, Verónica) ★ Logic grammars. 91f:68084
- van Benthem, Johan Categorical grammar and type theory. 91h:03063
- Campbell, Alicia M. *see* Hack, Haroldo G.; et al., 91f:03063
- Catuogno, Pedro J. *see* Hack, Haroldo G.; et al., 91f:03063
- Cooper, Robin Three lectures on situation theoretic grammar. (see 91k:68015)
- Canha, João Falcão e Simplifying and correcting the treatment of intentionality in Montague semantics. (see 91k:68015)
- Compositionality and omniscience in situation semantics. (see 91k:68015)
- Some remarks on first-order intensional logic. (see 91k:68015)
- Dahl, Verónica *see* Abramson, Harvey, 91f:68084
- (Damas, L.) *see* Natural language processing, 91k:68015
- Fenstad, Jens Erik Language and computations. (see 91k:03004)
- Equations, schemes and situations: a structure for natural language systems. (Russian) 91g:03061
- (Filgueiras, M.) *see* Natural language processing, 91k:68015
- González, Alfredo L. *see* Hack, Haroldo G.; et al., 91f:03063
- Hack, Haroldo G. (with González, Alfredo L.; Catuogno, Pedro J.; Moure, María del Carmen; Campbell, Alicia M.) A computer semantics of Spanish using the theories of R. Montague. (Spanish, English summary) 91h:03063
- Hausser, Roland ★ Computation of language. 91h:68109
- Leiss, Hans Polymorphic constructs in natural and programming languages. (see 91k:68012)
- Martens, Stanley The scope of names. 91g:03063
- (Moreira, N.) *see* Natural language processing, 91k:68015

- Moure, María del Carmen *see* Hack, Haroldo G.; et al., 91i:03063
 Muskens, Reinhard Anaphora and the logic of change. (see 91k:68012)
 Peres, João Basic aspects of the theory of generalized quantifiers. (see 91k:68015)
 (Scott, Dana) *see* Haussler, Roland, 91k:68109
 Segerberg, Krister Bringing it about. 91e:03027
 Seuren, Pieter A. M. Les paradoxes et le langage. [Paradoxes and language] 91b:03055
 Simons, Peter M. Combinators and categorial grammar. 91j:03029
 (Stebietsova, V. N.) *see* Fenstad, Jens Erik, 91g:03061
 (Thayse, André) *see* From modal logic to deductive databases, 91b:68113
 (Tomás, A. P.) *see* Natural language processing, 91k:68015
 Van Eynde, Frank The semantics of tense and aspect. (see 91k:68015)
 Wybraniec-Skardowska, Urszula On the eliminability of ideal linguistic entities.
 91g:03028

Items listed otherwise than by author

From modal logic to deductive databases ★ From modal logic to deductive databases.
 91b:68113

Guarda ★ Natural language processing. 91k:68015
 Lecture Notes in Computer Science ★ Natural language processing. 91k:68015
 Natural language processing ★ Natural language processing. 91k:68015
 School:

Artificial Intelligence ★ Natural language processing. 91k:68015

68Txx Artificial intelligence [see also 92J40]

- Bekmuratov, K. A. *see* Vasil'ev, V. I.; et al., (Not in MR)
 Finn, V. K. *see* Kuznetsov, S. O.; (Not in MR)
 Kuznetsov, S. O. (with Finn, V. K.) Extension of expert systems procedures of the DSM
 type to graphs. (Not in MR)
 Ovsyannikova, F. P. *see* Vasil'ev, V. I.; et al., (Not in MR)
 (Shapiro, Stuart C.) *see* Encyclopedia: Artificial intelligence, 91b:68094
 Vasil'ev, V. I. (with Bekmuratov, K. A.; Ovsyannikova, F. P.) The use of poly-attributes in
 training problems for pattern recognition by the method of limiting simplifications. (Not
 in MR)

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Items with secondary classifications in 68Txx

- (Beardon, Colin) *see* Artificial intelligence terminology, 91j:68001
 (Kodratoff, Yves) *see* Machine learning—EWSL-91, 91k:68013
 (Sridharan, N. S.) *see* Proceedings: Conference on Artificial Intelligence, 91e:68012

Items listed otherwise than by author

Artificial intelligence terminology ★ Artificial intelligence terminology. 91j:68001

Conference:

Artificial Intelligence ★ Proceedings of the Eleventh International Joint Conference on
 Artificial Intelligence. Vol. 1, 2. 91e:68012

Detroit, MI ★ Proceedings of the Eleventh International Joint Conference on Artificial
 Intelligence. Vol. 1, 2. 91e:68012

Lecture Notes in Computer Science ★ Machine learning—EWSL-91. 91k:68013

Machine learning—EWSL-91 ★ Machine learning—EWSL-91. 91k:68013

Porto ★ Machine learning—EWSL-91. 91k:68013

Proceedings:

Conference on Artificial Intelligence ★ Proceedings of the Eleventh International Joint
 Conference on Artificial Intelligence. Vol. 1, 2. 91e:68012

Session:

Learning ★ Machine learning—EWSL-91. 91k:68013

68T01 General

- Blix, Gunnar *see* Yang, Der-Shung; et al., (91k:68013)
 Dantsin, E. Ya. (with Kreinovich, V. Ya.) Probabilistic inference in prediction systems.
 91a:68217
 Dawid, A. P. *see* Lauritzen, Steffen L.; et al., 91g:68139
 Geiger, Dan (with Verma, Thomas; Pearl, Judea) Identifying independence in Bayesian
 networks. 91g:68138
 Giordana, A. (with Rovero, D.; Saitta, L.) Abstracting background knowledge for concept
 learning. (see 91k:68013)
 Greiner, Russell (with Smith, Barbara A.; Wilkerson, Ralph W.) A correction to the
 algorithm in Reiter's theory of diagnosis. 91a:68218
 Han, Jian Chao (with Shi, Zhong Zhi) Formalizing default reasoning. (Not in MR)
 Huberman, B. A. Dynamics and phase transitions in artificial intelligence systems. (see
 91j:58005)
 Kreinovich, V. Ya. *see* Dantsin, E. Ya., 91a:68217
 Larsen, B. N. *see* Lauritzen, Steffen L.; et al., 91g:68139
 Lauritzen, Steffen L. (with Dawid, A. P.; Larsen, B. N.; Leimer, H.-G.) Independence
 properties of directed Markov fields. 91g:68139
 Leimer, H.-G. *see* Lauritzen, Steffen L.; et al., 91g:68139
 Makowsky, Johann A. Mental images and the architecture of concepts. (see 91b:03004)
 Marek, Wiktor *see* Zhang, Aidong, 91b:68096
 Michle, Donald The fifth generation's unbridled gap. (see 91b:03004)
 Nait Abdallah, M.-A. An extended framework for default reasoning. 91a:68219
 Pearl, Judea *see* Geiger, Dan; et al., 91g:68138
 Rabinov, Arkady First order theories of quantification. 91b:68095
 Rendell, Larry A. *see* Yang, Der-Shung; et al., (91k:68013)
 Rovero, D. *see* Giordana, A.; et al., (91k:68013)
 Saitta, L. *see* Giordana, A.; et al., (91k:68013)
 Shachter, Ross D. An ordered examination of influence diagrams. 91g:68140

- Shi, Zhong Zhi *see* Han, Jian Chao, (Not in MR)
 Smith, Barbara A. *see* Greiner, Russell; et al., 91a:68218
 Smolensky, Paul Tensor product variable binding and the representation of symbolic
 structures in connectionist systems. 91b:68126
 Verma, Thomas *see* Geiger, Dan; et al., 91g:68138
 Wilkerson, Ralph W. *see* Greiner, Russell; et al., 91a:68218
 Yang, Der-Shung (with Blix, Gunnar; Rendell, Larry A.) The replication problem: a
 constructive induction approach. (see 91k:68013)
 Zhang, Aidong (with Marek, Wiktor) On the classification and existence of structures in
 default logic. 91b:68096

Items with secondary classifications in 68T01

Cohen, Philip R. (with Levesque, Hector J.) Intention is choice with commitment.
 91d:68114

(Cordier, Marie-Odile) *see* Dubois, Didier, (91b:68162)

Dubois, Didier (with Prade, Henri M.) An introduction to possibilistic and fuzzy logics.
 (see 91b:68162)

(Fargues, Jean) *see* Fariñas del Cerro, Luis, (91b:68162)

Fariñas del Cerro, Luis (with Herzog, Andreas) An automated modal logic of elementary
 changes. (see 91b:68162)

Froidevaux, Christine (with Kayser, Daniel) Inheritance in semantic networks and default
 logic. (see 91b:68162)

(Gochet, Paul) *see* Dubois, Didier, (91b:68162)

Herzog, Andreas *see* Fariñas del Cerro, Luis, (91b:68162)

Jäger, Gerhard Nonmonotonic reasoning by axiomatic extensions. 91a:03053

Kayser, Daniel *see* Froidevaux, Christine, (91b:68162)

Levesque, Hector J. *see* Cohen, Philip R., 91d:68114

Mézard, Marc (with Parisi, Giorgio; Virasoro, Miguel Angel) ★ Spin glass theory and
 beyond. 91k:82066

Niemelä, Ilkka On the complexity of the decision problem in propositional nonmonotonic
 logic. 91c:68033

Parisi, Giorgio *see* Mézard, Marc; et al., 91k:82066

Penrose, Roger On the physics and mathematics of thought. (see 91b:03004)

Prade, Henri M. *see* Dubois, Didier, (91b:68162)

Serra, Roberto (with Zanarini, Gianni) ★ Complex systems and cognitive processes.
 91j:92017

(Sheridan, Flash) *see* Dubois, Didier, (91b:68162)

(Veltman, Frank) *see* Fariñas del Cerro, Luis, (91b:68162)

Virasoro, Miguel Angel *see* Mézard, Marc; et al., 91k:82066

Zanarini, Gianni *see* Serra, Roberto, 91j:92017

68T05 Learning and adaptive systems

- Abe, Naoki Polynomial learnability of semilinear sets. (see 91e:68014)
 Adamopoulos, M. *see* Evans, David J.; et al., 91j:68108
 Almeida, Luis B. (with Neto, João P.) Recurrent backpropagation and Hopfield networks.
 (see 91h:68013)
 Andonie, Razvan A converse H-theorem for inductive processes. (Russian summary)
 91f:68175
 Angluin, Dana (with Gasarch, William I.; Smith, Carl H.) Training sequences. 91f:68176
 Apolloni, Bruno (with Mauri, Giancarlo) A unified approach to learnability. 91j:68106
 Arigoni, Anio O. Bayes' paradigm-based analysis of abductive learning. (French and Italian
 summaries) 91a:68220
 Arikawa, Setsuo *see* Kawasaki, Youji; et al., (Not in MR) and Zeng, Chao, (Not in MR)
 Azencott, Robert Synchronous Boltzmann machines and Gibbs fields: learning algorithms.
 (see 91h:68013)
 Baum, Eric B. When are k -nearest neighbor and back propagation accurate for feasible sized
 sets of examples? (see 91e:68011)
 — On learning a union of half spaces. 91m:68149
 Bekmuratov, K. A. *see* Vasil'ev, V. I.; et al., (Not in MR)
 Belleannée, C. (with Nicolas, Jean-Marie) Static learning for an adaptive theorem prover.
 (see 91k:68013)
 Ben-David, Shai (with Benedek, Gyora M.; Mansour, Yishay) A parametrization scheme
 for classifying models of learnability. (see 91e:68014)
 Benedek, Gyora M. *see* Ben-David, Shai; et al., (91e:68014)
 Blum, E. K. Mathematical aspects of outer-product asynchronous content-addressable
 memories. 91f:68177
 Blumer, Anselm (with Littlestone, Nick) Learning faster than promised by the Vapnik-
 Chervonenkis dimension. 91f:68179
 — (with Ehrenfeucht, Andrzej; Haussler, David; Warmuth, Manfred K.) Learnability and
 the Vapnik-Chervonenkis dimension. 91f:68178
 Boswell, Robin *see* Clark, Peter, (91k:68013)
 Bratko, Ivan *see* Cestnik, Bojan, (91k:68013)
 Brazil, P. (with Gams, M.; Sian, S.; Torgo, L.; van de Velde, W.) Learning in distributed
 systems and multi-agent environments. (see 91k:68013)
 Brzma, Alvis *see* Kimber, Edm B., 91f:68180
 Bressloff, P. C. (with Stark, Jaroslav) Neural networks, learning automata and iterated
 function systems. (see 91h:58094)
 Bruynooghe, Maurice *see* de Raedt, Luc; et al., (91k:68013)
 Campadelli, Paola (with Morpurgo, A.) PAC and mistake bounded learning: a comparison
 and applications. 91j:68107
 Cestnik, Bojan (with Bratko, Ivan) On estimating probabilities in tree pruning. (see
 91k:68013)
 Chou, Philip A. The capacity of the Kanerva associative memory. 91a:68221
 Clark, Peter (with Boswell, Robin) Rule induction with CN2: some recent improvements.
 (see 91k:68013)
 Comon, Pierre Statistical approach to the Jutten-Hérault algorithm. (see 91h:68013)
 Complani, M. (with Montanari, D.; Serra, Roberto; Simonini, P.) Dynamical analysis of
 classifier systems. (see 91h:68013)

- Cybenko, G. Complexity theory of neural networks and classification problems. (see 91e:68011)
- Deb, Kalyanmoy see Goldberg, David E.; et al., (Not in MR)
- Dechter, Rina see Pearl, Judea, (91e:68014)
- Demongeot, Jacques see Hervé, Thierry; et al., (91e:68011)
- Domany, Eytan see Nabutozsky, Dmitry; et al., (Not in MR)
- Donald, Bruce R. Planning and executing robot assembly strategies in the presence of uncertainty. (see 91i:70003)
- Dreyfus, G. see Knerr, S.; et al., (91h:68013)
- Dubin, Richard (with Rumelhart, David E.) Product units with trainable exponents and multi-layer networks. (see 91h:68013)
- Dierkes, Sako see Lavrač, Nada; et al., (91k:68013)
- Ehrenfeucht, Andrzej (with Hausler, David) Learning decision trees from random examples. 91a:68222
- see also Blumer, Anselm; et al., 91f:68178
- Evans, David J. (with Adamopoulos, M.; Kortis, S.; Tsouros, K.) Searching sets of properties with neural networks. 91j:68108
- Falkowski, Bernd-Jürgen Perceptrons revisited. (Not in MR)
- Feytaerts, Johan see de Raedt, Luc; et al., (91k:68013)
- Flach, Peter A. see Nienhuys-Cheng, Shan Hwei, (91k:68013)
- Floyd, Sally Space-bounded learning and the Vapnik-Chervonenkis dimension. (see 91e:68014)
- François, Olivier Ergodicité des processus neuronaux. (English summary) [Ergodicity of neural network processes] 91d:68102
- see also Hervé, Thierry; et al., 91e:68011
- Fulk, Mark A. (with Jain, Sanjay) Learning in the presence of inaccurate information. (see 91e:68014)
- Gama, M. see Brazdil, P.; et al., (91k:68013)
- Gasarch, William I. see Angluin, Dana; et al., 91f:68176
- Gelenbe, Erel Stability of the random neural network model. 91h:68150
- Réseaux neuronaux aléatoires stables. (English summary) [Stable random neural networks] 91d:68149
- Goldberg, David E. Genetic algorithms and Walsh functions. I. A gentle introduction. (Not in MR)
- Genetic algorithms and Walsh functions. II. Deception and its analysis. (Not in MR)
- (with Korb, Bradley; Deb, Kalyanmoy) Messy genetic algorithms: motivation, analysis, and first results. (Not in MR)
- Goles, Ch., Eric Neural networks dynamics. (see 91h:68013)
- Greiff, Ingrid Probabilistic inductive inference of indices in enumerable classes of total recursive functions. 91a:68223
- Grobelnik, Marko see Lavrač, Nada; et al., (91k:68013)
- Grossman, Tal see Nabutozsky, Dmitry; et al., (Not in MR)
- Hartstein, A. The role of dimensionality in a threshold-controlled neural network. (Not in MR)
- Hausler, David Corrigendum: "Quantifying inductive bias: AI learning algorithms and Valiant's learning framework" [Artificial Intelligence 36 (1988), no. 2, 177-221; MR 89h:68127]. (Not in MR)
- see also Ehrenfeucht, Andrzej, 91a:68222 and Blumer, Anselm; et al., 91f:68178
- Hellerstein, Lisa (with Karpinski, Marek) Learning read-once formulas using membership queries. (see 91e:68014)
- Helmbold, David P. (with Sloan, Robert; Warmuth, Manfred K.) Learning nested differences of intersection-closed concept classes. (see 91e:68014)
- Hervé, Thierry (with François, Olivier; Demongeot, Jacques) Markovian spatial properties of a random field describing a stochastic neural network: sequential or parallel implementation? (see 91e:68011)
- Hilliard, Michael R. (with Liepins, Gunar E.; Palmer, Mark) Discovering and refining algorithms through machine learning. (see 91h:68014)
- Holzbaur, Christian see Monette, Igor, (91k:68013)
- Hong, Jia Rong (with Unnik, Carl) A new attribute-based learning algorithm GS and a comparison with existing algorithms. (Not in MR)
- see also Zhao, Mei De; et al., 91f:68129
- Huang, Wen Hu see Zhao, Mei De; et al., 91f:68129
- Ishizaka, Hiroki Learning simple deterministic languages. (see 91e:68014)
- Jain, Sanjay see Fulk, Mark A., (91e:68014)
- Jeffries, Clark Dense memory with high order neural networks. 91h:68097
- Karpinski, Marek see Hellerstein, Lisa, (91e:68014)
- Kawasaki, Youshi (with Shinohara, Takeshi; Arikawa, Setsuo) Model inference using bidirectional refinements. (Not in MR)
- Kelly, Kevin T. Induction from the general to the more general. (see 91e:68014)
- Kinber, Efim B. (with Bräzma, Alvis) Models of inductive synthesis. 91f:68180
- Kivinen, Jyrki Reliable and useful learning. (see 91e:68014)
- Knerr, S. (with Personnaz, L.; Dreyfus, G.) Single-layer learning revisited: a stepwise procedure for building and training a neural network. (see 91h:68013)
- Knight, Kevin Connectionist ideas and algorithms. (Not in MR)
- Koonen, Igor Semi-naïve Bayesian classifier. (see 91k:68013)
- Korb, Bradley see Goldberg, David E.; et al., (Not in MR)
- Kortis, S. see Evans, David J.; et al., 91f:68178
- Kruschke, John K. (with Movellan, Javier R.) Benefits of gain: speeded learning and minimal hidden layers in back-propagation networks. (Not in MR)
- Kurtz, Stuart A. (with Smith, Carl H.) A refutation of Barzdins' conjecture. 91a:68224
- Laird, Philip D. A survey of computational learning theory. (see 91g:68007)
- Lavrač, Nada (with Džeroski, Saso; Grobelnik, Marko) Learning nonrecursive definitions of relations with LINUS. (see 91k:68013)
- Lee, Matthew K. O. Neural networks and symbolic A.I. (see 91h:68013)
- Liepins, Gunar E. see Hilliard, Michael R.; et al., (91h:68014)
- Lisbon, P. J. G. (with Perantonis, S. J.) Complete solution of the local minima in the XOR problem. (Not in MR)
- Littlestone, Nick From on-line to batch learning. (see 91e:68014)
- see also Blumer, Anselm, 91f:68179
- Lugosi, E. see Yakowitz, S., 91h:68153
- Mansour, Yishay see Ben-David, Shai; et al., (91e:68014)
- Marchetti-Spaccamela, A. (with Protasi, Marco) Learning under uniform distribution. 91a:68225
- Marom, E. see Saad, David, (Not in MR)
- Matsuoka, Kiyotoshi An approach to the generalization problem in the backpropagation method. (Not in MR)
- Mauri, Giancarlo see Apolloni, Bruno, 91j:68106
- Mézard, Marc Learning algorithms in neural networks: recent results. (see 91h:68013)
- Mikheev, A. P. (with Shil'man, S. V.) Learning algorithms in the solution of degenerate problems of parameter estimation. 91h:68098
- Müller, Martin F. Learning by conjugate gradients. (see 91h:68006)
- Montanari, D. see Compiani, M.; et al., (91h:68013)
- Morpurgo, A. see Campadelli, Paola, 91j:68107
- Movellan, Javier R. see Kruschke, John K., (Not in MR)
- Monette, Igor (with Holzbaur, Christian) Extending explanation-based generalization by abstraction operators. (see 91k:68013)
- Nabutozsky, Dmitry (with Grossman, Tal; Domany, Eytan) Learning by CHIR without storing internal representations. (Not in MR)
- Nadal, Jean-Pierre On the storage capacity with sign-constrained synaptic couplings. 91j:68109
- Nakamura, Tota (with Nishimori, Hidetoshi) Sequential retrieval of nonrandom patterns in a neural network. (Not in MR)
- Natarajan, B. K. On learning from exercises. (see 91e:68014)
- Nets, João P. see Almeida, Luis B., (91h:68013)
- Nicolas, Jean-Marie see Belleau, C., (91k:68013)
- Nienhuys-Cheng, Shan Hwei (with Flach, Peter A.) Consistent term mappings, term partitions, and inverse resolution. (see 91k:68013)
- Nilsson, Nils J. ★ The mathematical foundations of learning machines. 91h:68127
- Nishimori, Hidetoshi see Nakamura, Tota, (Not in MR)
- Packer, Norman H. A genetic learning algorithm for the analysis of complex data. (Not in MR)
- Pal, Amita (with Pal, Sankar K.) Generalized guard-zone algorithm (GGA) for learning: automatic selection of threshold. (Not in MR)
- (with Pal, Sankar K.) Effect of wrong samples on the convergence of learning processes. 91h:68151
- Pal, Sankar K. see Pal, Amita, 91h:68151 and (Not in MR)
- Palmer, Mark see Hilliard, Michael R.; et al., (91h:68014)
- Parberry, Ian A primer on the complexity theory of neural networks. 91h:68128
- Pearl, Judea (with Dechter, Rina) Learning structure from data: a survey. (see 91e:68014)
- Perantonis, S. J. see Lisbon, P. J. G., (Not in MR)
- Personnaz, L. see Knerr, S.; et al., (91h:68013)
- Pham Dinh Tuan (with Wang, S.; Yassine, A.) Training multi-layered neural network with a trust-region based algorithm. (French summary) (Not in MR)
- Protasi, Marco see Marchetti-Spaccamela, A., 91a:68225
- de Raedt, Luc (with Feytaerts, Johan; Bruynooghe, Maurice) Acquiring object-knowledge for learning systems. (see 91k:68013)
- Rumelhart, David E. see Durbin, Richard, (91h:68013)
- Saad, David (with Marom, E.) Training feed forward nets with binary weights via a modified CHIR algorithm. (Not in MR)
- (Sejnowski, Terrence J.) see Nilsson, Nils J., 91h:68127
- Serra, Roberto see Compiani, M.; et al., (91h:68013)
- Shi, En Wei Some properties of the indiscernibility relation in rough sets. 91h:68152
- Shil'man, S. V. see Mikheev, A. P., 91h:68098
- Shinohara, Takeshi see Kawasaki, Youshi; et al., (Not in MR)
- Sizaa, S. see Brazdil, P.; et al., (91k:68013)
- Simonini, P. see Compiani, M.; et al., (91h:68013)
- Skodny, Peter Remarks on the frequency-coded neural nets complexity. (see 91h:68006)
- Sloan, Robert see Helmbold, David P.; et al., (91e:68014)
- Smith, Carl H. (with Velauthapillai, Mahendran) On the inference of approximate programs. 91m:68150
- see also Kurtz, Stuart A., 91a:68224 and Angluin, Dana; et al., 91f:68176
- Stark, Jaroslav see Bressloff, P. C., (91h:68094)
- Sushko, V. I. see Vasil'ev, V. I.; et al., (Not in MR)
- Sytin, A. A. Universal automata in a deterministic environment. (Russian) (see 91j:68001)
- Tai, Heng Ming see Wu, Chwan-Hwa; et al., (Not in MR)
- Tecuci, George A multistrategy learning approach to domain modeling and knowledge acquisition. (see 91k:68013)
- Torgo, L. see Brazdil, P.; et al., (91k:68013)
- Tsui, R. I. see Vasil'ev, V. I.; et al., (Not in MR)
- Tsouros, K. see Evans, David J.; et al., 91f:68178
- Tufts, Dan Paradigmatic morphology learning. (Russian summary) (Not in MR)
- Unnik, Carl see Hong, Jia Rong, (Not in MR)
- Urahama, Kichiro Stability of neural networks and convergence of their sensitivity computation algorithms. (Not in MR)
- Urbano, Paulo Learning by explanation of failures. (see 91h:68013)
- Vallet, François Optimization of the number of hidden cells in a multilayer perceptron. Validation in the linear case. (see 91h:68013)
- Vasilakos, Athanasios V. On the behaviour of learning algorithms in a changing environment with application to data network routing problem. (Not in MR)
- Vasil'ev, V. I. Iterative procedures for learning imitative behavior. (Russian) (Not in MR)
- (with Bekmuratov, K. A.; Sushko, V. I.; Tsui, R. I.) Selection of binary pseudo-attributes in the process of learning pattern recognition. (Not in MR)
- Velauthapillai, Mahendran Inductive inference with bounded number of mind changes. (see 91e:68014)
- see also Smith, Carl H., 91m:68150
- van de Velde, W. see Brazdil, P.; et al., (91k:68013)
- Wang, Chia-Jiu see Wu, Chwan-Hwa; et al., (Not in MR)
- Wang, S. see Pham Dinh Tuan; et al., (Not in MR)
- Warmuth, Manfred K. Towards representation independence in PAC learning. 91a:68226
- see also Blumer, Anselm; et al., 91f:68178 and Helmbold, David P.; et al., (91e:68014)

- Wasilewska, Anita Approximate classification and static learning. 91a:68227
(White, Halbert) see Nilsson, Nils J., 91b:68127
- Widmer, Gerhard Using plausible explanations to bias empirical generalization in weak theory domains. (see 91k:68013)
- Wright, Keith Identification of unions of languages drawn from an identifiable class. (see 91c:68014)
- Wu, Chwan-Hwa (with Wang, Chia-Jiu; Tai, Heng Ming) Application of exponential hetero-associative memory on frequency classifier. (Not in MR)
- Yakowitz, S. (with Lugosi, E.) Random search in the presence of noise, with application to machine learning. 91h:68153
- Yassine, A. see Pham Dinh Tuan; et al., (Not in MR)
- Yokomori, Takashi Learning context-free languages efficiently. A report on recent results in Japan. 91a:68228
- Zeng, Chao (with Arikawa, Setsuo) Sufficiency of operators identification and inter-construction in inverting resolution. (Not in MR)
- Zhao, Mei De (with Huang, Wen Hu; Hong, Jia Rong) A hybrid learning method for multilayer perceptrons. 91h:68129
- Items with secondary classifications in 68T05
- Abbott, L. F. Learning in neural network memories. 91c:92119
- Abe-Mostafa, Yaser S. Learning from hints in neural networks. 91c:92120
- Angula, Dana Equivalence queries and approximate fingerprints. (see 91c:68014)
- Apolloni, Bruno (with Bertoni, Alberto; Campadelli, Paola; de Falco, Diego) Neural networks: deterministic and stochastic dynamics. (see 91c:00022)
- (with de Falco, Diego) Learning by parallel Boltzmann machines. (Not in MR)
- Arikawa, Setsuo (with Shinohara, Takeshi; Yamamoto, Akihiro) Elementary formal system as a unifying framework for language learning. (see 91c:68014)
- Artyushkin, V. F. (with Belyaev, A. V.; Sandler, Yu. M.; Sergeev, V. M.) Neural network ensembles as models of interdependence in collective behavior. 91g:92034
(Aved'yan, E. D.) see Miltzer, J., 91h:92051
- Belyaev, A. V. see Artyushkin, V. F.; et al., 91g:92034
- Bernasconi, J. Learning in neural networks. (see 91c:00022)
- Bertoni, Alberto see Apolloni, Bruno; et al., (91c:00022)
- Bhattacharyya, Shankar Prasad see Moore, Kevin L.; et al., 91h:93099
- Billings, S. A. see Chen, Sheng; et al., 91g:92003
- Bizzarri, A. R. Convergence properties of a modified Hopfield-Tank model. (Not in MR)
- (Brackett, Roger W.) see Robotics, 91k:70003
- Bruck, Jehoshua (with Goodman, Joseph W.) On the power of neural networks for solving hard problems. 91f:68080
- Campadelli, Paola see Apolloni, Bruno; et al., (91c:00022)
- Campbell, Ian Colin Grant (with Robinson, Andrew) On the storage capacity of neural networks with sign-constrained weights. 91m:82105
- Chen, Sheng (with Cowan, C. F. N.; Billings, S. A.; Grant, P. M.) Parallel recursive prediction error algorithm for training layered neural networks. 91g:92003
- Chua, Leon O. (with Yang, Lin) Cellular neural networks: theory. 91d:92005
- (with Yang, Lin) Cellular neural networks: applications. 91d:92006
- Clark, John W. Introduction to neural networks. 91i:92001
- Coolen, A. C. C. see Ruitgrok, Th. W., (Not in MR)
- Cowan, C. F. N. see Chen, Sheng; et al., 91g:92003
- Cowan, Jack D. von Neumann and neural networks. 91j:92002
- Dahleh, Mohammed A. see Moore, Kevin L.; et al., 91h:93099
- Dembo, Amir On random determinants. 91a:62125
- van den Driessche, P. see Jeffries, Clark; et al., 91h:93099
- Ehrenfeucht, Andrzej (with Haussler, David; Kearns, Michael; Valiant, Leslie G.) A general lower bound on the number of examples needed for learning. 91h:68048
- Engel, Andreas Storage of hierarchically correlated patterns. (Not in MR)
- Englich, Harald (with Herrmann, Michael) Limit behaviour in the Hopfield model. (see 91h:00039)
- de Falco, Diego see Apolloni, Bruno, (Not in MR) and (91c:00022)
- Ferrán, Edgardo A. (with Perazzo, Roberto P. J.) Feed-forward networks composed by neurons with activation functions of different parity. 91k:82045
- (Fogelman-Soulie, Françoise) see Neurocomputing, 91h:68013
- Forbes, A. B. (with Mansfield, A. J.) Neural implementation of a method for solving systems of linear equations. 91f:65090
- Freivalds, Rūsiņš (with Kinber, Efim B.; Wiehagen, Rolf) Inductive inference from good examples. 91h:03054
- (with Smith, Carl H.; Velauthapillai, Mahendran) Trade-off among parameters affecting inductive inference. 91f:68041
- Fulk, Mark A. Prudence and other conditions on formal language learning. 91f:68042
- Gasarch, William I. (with Pleszkoch, Mark B.) Learning via queries to an oracle. (see 91c:68014)
- Gesztli, Tamás ★ Physical models of neural networks. 91g:92004
- Goles Ch., Eric (with Martínez, Servet) ★ Neural and automata networks. 91h:58059
- Goodman, Joseph W. see Bruck, Jehoshua, 91f:68080
- Grant, P. M. see Chen, Sheng; et al., 91g:92003
- Grossman, Tal The CHIR algorithm: a generalization for multiple-output and multilayered networks. (Not in MR)
- Hampson, Steven E. (with Volper, Dennis J.) Representing and learning Boolean functions of multivalued features. 91f:94033
- Haussler, David see Ehrenfeucht, Andrzej; et al., 91h:68048 and Proceedings: Workshop on Computational Learning Theory, 91c:68014
- (Hérault, Jeanny) see Neurocomputing, 91h:68013
- Herrmann, Michael see Englich, Harald, (91h:00039)
- Hirai, Yuzo Pattern matching by neural network. (Not in MR)
- Hodgson, J. P. E. Automatic generation of heuristics. (see 91g:68007)
- Holland, John H. The dynamics of searches directed by genetic algorithms. (see 91h:92004)
- Irina, Toshie (with Kawahara, Hideki) A method for designing neural networks using nonlinear multivariate analysis—application to speaker-independent vowel recognition. (Not in MR)
- Jantke, Klaus P. see Thomas, Muffy, 91h:68054
- Jeffries, Clark (with van den Driessche, P.) Hypergraph analysis of neural networks. 91i:92002
- Kamgar-Parsi, Behrooz see Kamgar-Parsi, Behzad, (Not in MR)
- Kamgar-Parsi, Behzad (with Kamgar-Parsi, Behrooz) On problem solving with Hopfield neural networks. (Not in MR)
- Kawahara, Hideki see Irina, Toshie, (Not in MR)
- Kearns, Michael see Ehrenfeucht, Andrzej; et al., 91h:68048
- Kliber, Efim B. Inductive synthesis of programs for recursive functions from sample computations. (German and Russian summaries) 91k:03105
- see also Freivalds, Rūsiņš; et al., 91h:03054
- Kurtz, Stuart A. (with Smith, Carl H.) On the role of search for learning. (see 91c:68014)
- Lancôt, J. Kevin see Oommen, B. John, 91h:92052
- Lee, Yee Chun Efficient stochastic gradient learning algorithm for neural network. (see 91h:92004)
- see also Evolution, learning and cognition, 91h:92004
- Lehmann, Daniel J. see Metzger, Y., 91f:92004
- Mansfield, A. J. see Forbes, A. B., 91f:65090
- Martínez, Servet see Goles Ch., Eric, 91h:58059
- Metzger, Y. (with Lehmann, Daniel J.) Learning temporal sequences by local synaptic changes. 91f:92004
- Miltzer, J. (with Parks, P. C.) Convergence properties of associative memory in learning control systems. 91h:92051
- Miyahara, Tetsuhiro A note on iteratively working strategies in inductive inference. (Not in MR)
- Moore, Kevin L. (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Learning control for robotics. 91h:93099
- Nadal, Jean-Pierre (with Toulouse, Gérard) Information storage in sparsely coded memory nets. 91c:92006
- see also Sirat, J. A., 91m:92010
- Narasimha Murty, M. see Sridhar, V., 91k:03070
- Nebel, Bernhard (with Smolka, Gert) Representation and reasoning with attributive descriptions. (see 91g:68008)
- (von Neumann, John) see Cowan, Jack D., 91j:92002
- Niemann, Heinrich ★ Pattern analysis and understanding. 91d:68103
- Oommen, B. John (with Lancôt, J. Kevin) Discretized pursuit learning automata. 91h:92052
- Osherson, Daniel N. (with Stob, Michael; Weinstein, Scott) On approximate truth. (see 91c:68014)
- Papavasiliopoulos, George Learning algorithms for repeated bimatrix Nash games with incomplete information. 91a:90184
- Parks, P. C. see Miltzer, J., 91h:92051
- Perazzo, Roberto P. J. see Ferrán, Edgardo A., 91k:82045
- Pitt, Leonard (with Valiant, Leslie G.) Computational limitations on learning from examples. 91f:68096
- Inductive inference, DFAs, and computational complexity. 91a:68062
- Probabilistic inductive inference. 91g:68040
- (with Warmuth, Manfred K.) Prediction-preserving reducibility. 91h:68069
- Pleszkoch, Mark B. see Gasarch, William I., (91c:68014)
- Pletnev, A. I. Stochastic automata in problems of the adaptive choice of variants. (Not in MR)
- Psalts, Demetri (with Venkatesh, Santosh S.) Information storage in fully connected networks. (see 91h:92004)
- Reddy, Uday S. Rewriting techniques for program synthesis. (see 91f:68006)
- (Rivest, Ronald L.) see Proceedings: Workshop on Computational Learning Theory, 91c:68014
- Robinson, Andrew see Campbell, Ian Colin Grant, 91m:82105
- Ruitgrok, Th. W. (with Coolen, A. C. C.) Generalized Hopfield models for neural networks. (Not in MR)
- Sakakibara, Yasubumi Learning context-free grammars from structural data in polynomial time. 91f:68089
- Sandler, Yu. M. see Artyushkin, V. F.; et al., 91g:92034
- Schempp, Walter Holographic image processing, coherent optical computing, and neural computer architecture for pattern recognition. (see 91a:78001)
- Sergeev, V. M. see Artyushkin, V. F.; et al., 91g:92034
- Shilina, Masatoshi Stochastic analyses of the dynamics of generalized Little-Hopfield-Hemmen type neural networks. 91c:92010
- Shinohara, Takeshi see Arikawa, Setsuo; et al., (91c:68014)
- Shoham, Yoav Chronological ignorance: experiments in nonmonotonic temporal reasoning. 91h:03052
- Sirat, J. A. (with Nadal, Jean-Pierre) Neural trees: a new tool for classification. 91m:92010
- Smith, Carl H. see Freivalds, Rūsiņš; et al., 91h:68048 and Kurtz, Stuart A., (91c:68014)
- Smolka, Gert see Nebel, Bernhard, (91g:68008)
- Sridhar, V. (with Narasimha Murty, M.) Reasoning with perceived information: a case for nonmonotonic reasoning. 91k:03070
- Stifter, Sabine Mathematische Verfahren für Kollisionsprobleme bei Robotern. [Mathematical methods for robot collision problems] (see 91k:00033)
- Stob, Michael see Osherson, Daniel N.; et al., (91c:68014)
- Suppes, Patrick Current directions in mathematical learning theory. 91h:92054
- Sau, Harold H. What is the significance of neural networks for AI? (see 91h:92004)
- Tang, D.-S. Information-theoretic solutions to early visual information processing: analytic results. 91g:92006
- Thomas, Muffy (with Jantke, Klaus P.) Inductive inference for solving divergence in Knuth-Bendix completion. 91h:68054
- Toulouse, Gérard see Nadal, Jean-Pierre, 91c:92006
- Valiant, Leslie G. see Ehrenfeucht, Andrzej; et al., 91h:68048 and Pitt, Leonard, 91f:68096
- Velauthapillai, Mahendran see Freivalds, Rūsiņš; et al., 91h:68041
- Venkatesh, Santosh S. see Psalts, Demetri, (91h:92004)
- Volper, Dennis J. see Hampson, Steven E., 91f:94033
- Warmuth, Manfred K. see Pitt, Leonard, 91h:68069 and Proceedings: Workshop on Computational Learning Theory, 91c:68014

- Watanabe, Osamu² A formal study of learning via queries. (see 91e:68004)
 Weinstein, Scott see Osherson, Daniel N.; et al., (91e:68014)
 Wiedermann, Jiri Complexity issues in discrete neurocomputing. 91m:68096
 Wiehagen, Rolf see Freivalds, Rihis; et al., 91h:03054
 Yamamoto, Akihiro see Arikawa, Setsuo; et al., (91e:68014)
 Yang, Lin see Chua, Leon O., 91d:92005 and 91d:92006
 Zee, A. Some quantitative issues in the theory of perception. (see 91h:92004)

Items listed otherwise than by author

- Evolution, learning and cognition ★ Evolution, learning and cognition. 91h:92004
 Les Arcs ★ Neurocomputing. 91h:68013
 NATO Advanced Research Workshop:
 Neurocomputing. Algorithms, Architectures and Applications ★ Neurocomputing.
 91h:68013
 Neurocomputing ★ Neurocomputing. 91h:68013
 Proceedings of Symposia in Applied Mathematics ★ Robotics. 91h:70003
 Proceedings:
 Workshop on Computational Learning Theory ★ Proceedings of the Second Annual
 Workshop on Computational Learning Theory. 91e:68014
 Robotics ★ Robotics. 91h:70003
 Santa Cruz, CA ★ Proceedings of the Second Annual Workshop on Computational Learning
 Theory. 91e:68014
 Workshop:
 Computational Learning Theory ★ Proceedings of the Second Annual Workshop on
 Computational Learning Theory. 91e:68014

68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30.}

- Aguilar-Martin, Joseph see Piers Carreté, Naria, 91m:68151
 Akhmedov, Sh. B. (with Lyubiner, M. Z.) A probability estimate for interstructural (interphrase) correlation relations. (Russian) (Not in MR)
 Aleksanyan, A. A. A generalization of a model of recognition algorithms with representative sets. 91c:68109
 Ansari, Nirwan (with Delp, Edward J.) On the distribution of a deforming triangle. 91h:68130
 Aray, Jean-Paul see Zighed, Abdelkader; et al., (Not in MR)
 Basseville, Michèle Distance measures for signal processing and pattern recognition. (French and German summaries) 91h:68099
 Batakazina, T. V. see Vasil'ev, V. I.; et al., 91a:68233
 Beletskii, N. G. see Mazurov, V. I.; et al., (91f:68004)
 Bérone, Dominique G. Guided propagation: current state of theory and applications. (see 91h:68013)
 Bourlard, H. (with Morgan, N.; Welkens, C. J.) Statistical inference in multilayer perceptrons and hidden Markov models with applications in continuous speech recognition. (see 91h:68013)
 Bridle, John S. Probabilistic interpretation of feedforward classification network outputs, with relationships to statistical pattern recognition. (see 91h:68013)
 Burke, Laura Ignatie Introduction to artificial neural systems for pattern recognition. (Not in MR)
 Bushmanov, O. N. (with Dyukova, E. V.; Zhuravil'ev, Yu. I.; Kochetkov, D. V.; Ryazanov, V. V.) A system for pattern recognition and analysis. (Russian) (see 91f:68005)
 Chou, Sheng Lin see Tsai, Wen Hsiang. (Not in MR)
 Delp, Edward J. see Ansari, Nirwan, 91h:68130
 De Micheli, E. (with Radonich, G.; Uras, S.; Torre, V.) An algorithm for optical flow. (see 91h:68013)
 Desroches, Ph. see Garcia, Germain; et al., (Not in MR)
 Dubes, Richard C. see Jain, Anil K., 91h:68155
 Dyukova, E. V. Pattern recognition algorithms of "Kora" type: the complexity of realization and metric properties. (Russian) (see 91f:68005)
 — see also Bushmanov, O. N.; et al., (91f:68005)
 Fallside, Frank Analysis of linear predictive data as speech and of ARMA processes by a class of single-layer connectionist models. (see 91h:68013)
 Fantin, J. see Garcia, Germain; et al., (Not in MR)
 Fukunaga, Keinosuke ★ Introduction to statistical pattern recognition. 91h:68131
 Garcia, Germain (with Desroches, Ph.; Fantin, J.) Fast transient security assessment by pattern recognition. (Not in MR)
 Goldfarb, Lev On the foundations of intelligent processes. I. An evolving model for pattern learning. (Not in MR)
 Gori, Marco (with Soda, Giovanni) Temporal pattern recognition using EBPS. (see 91e:68011)
 Górniewicz, Lech see Ingarden, Roman S., 91h:68154
 Grenander, U. (with Keenan, Daniel M.) A computer experiment in pattern theory. 91a:68229
 Gurevich, I. B. The image recognition problem. (Russian) (see 91f:68004)
 — see also Zhuravil'ev, Yu. I., (91f:68005)
 Hall, Peter Gavin (with Keenan, Daniel M.) Bootstrap methods for constructing confidence regions for hands. 91a:68230
 Hamamoto, Yoshihiko (with Kanaoka, Taiho; Tomita, Shingo) Orthonormal discriminant vectors of pattern recognition. 91h:68132
 Hirai, Yuso Pattern matching by neural network. (Not in MR)
 Honda, Masaaki see Shiraki, Yoshinao. (Not in MR)
 Hong, Zi Quan (with Yang, Jing Yu) Optimal discriminant plane for a small number of samples and design method of classifier on the plane. (Not in MR)
 Ignat'ev, N. A. A method for the synthesis of recognition algorithms by the local correction method. (Russian) (Not in MR)
 Il'inski, S. V. Estimates for the degree of correct algebraic closure for families of heuristic algorithms. (Russian) (see 91f:68005)
 Ingarden, Roman S. (with Górniewicz, Lech) Shape as an information-thermodynamical concept and the pattern recognition problem. 91h:68154
 Irino, Toshio (with Kawahara, Hideki) A method for designing neural networks using nonlinear multivariate analysis—application to speaker-independent vowel recognition. (Not in MR)
 Ivakhnenko, A. G. The method of successive testing (sorting) of cluster-candidates according to criteria of differential type. (Russian) (see 91f:68005)
 Jain, Anil K. (with Dubes, Richard C.) ★ Algorithms for clustering data. 91h:68155
 Kanaoka, Taiho see Hamamoto, Yoshihiko; et al., 91h:68132
 Kawahara, Hideki see Irino, Toshio. (Not in MR)
 Kazantsev, V. S. see Mazurov, V. I.; et al., (91f:68004)
 Keenan, Daniel M. see Grenander, U., 91a:68229 and Hall, Peter Gavin, 91a:68230
 Khlikov, A. V. Formulas for calculating estimates for recognition algorithms with support sets. 91a:68231
 Kochetkov, D. V. Invariant pattern recognition algorithms that satisfy nonredundancy and monotonicity conditions. 91h:68100
 — Monotone invariant pattern recognition algorithms. (Not in MR)
 — see also Bushmanov, O. N.; et al., (91f:68005)
 Kondrat'ev, A. I. Game-theoretic classifying models. (Russian) 91a:68232
 Krasnoprosin, V. V. see Veshort, A. M.; et al., (91f:68005)
 Krivonogov, A. I. see Mazurov, V. I.; et al., (91f:68004)
 Largeron, Christine see Zighed, Abdelkader; et al., (Not in MR)
 Lenz, Reiner Group invariant pattern recognition. (Not in MR)
 Latfallaev, R. A. Local methods for synthesizing recognition algorithms and determining connectivity measures and informativity of criteria. (Russian) (Not in MR)
 Lyubiner, M. Z. see Akhmedov, Sh. B., (Not in MR)
 Maglara, A. see Pitas, I., (Not in MR)
 Makarov, I. I. (with Samitov, R. K.) Matrix calculations in problems of pattern recognition. (Russian) (see 91h:68016)
 Matrosov, V. L. Synthesis of optimal algorithms in algebraic closures of pattern recognition models. (Russian) (see 91f:68004)
 Mazurov, V. I. D. (with Kazantsev, V. S.; Beletskii, N. G.; Krivonogov, A. I.; Smirnov, A. I.) Questions of the justification and application of committee pattern recognition algorithms. (Russian) (see 91f:68004)
 Morgan, N. see Bourlard, H.; et al., (91h:68013)
 Mozer, Michael C. A focused backpropagation algorithm for temporal pattern recognition. (Not in MR)
 Muchnik, I. B. see Zaks, Yu. M., 91a:68234
 Niemann, Heinrich ★ Pattern analysis and understanding. 91d:68103
 Obidov, A. O. The structure of an optimal algorithm in a model of recognition algorithms over mixed descriptions of objects. (Russian) (Not in MR)
 Ovsyannikova, F. P. see Vasil'ev, V. I.; et al., (Not in MR)
 Pal, Sankar K. Fuzzy tools for the management of uncertainty in pattern recognition, image analysis, vision and expert systems. (Not in MR)
 Piers Carreté, Naria (with Aguilar-Martin, Joseph) Controlling selectivity in nonstandard pattern recognition algorithms. 91m:68151
 Pitas, I. (with Maglara, A.) Range image analysis by using morphological signal decomposition. (Not in MR)
 Qu, Y. Z. see Tang, Y. Y.; et al., (Not in MR)
 Radonich, G. see De Micheli, E.; et al., (91h:68013)
 Rudakov, K. V. On the algebraic theory of universal and local constraints for classification problems. (Russian) (see 91f:68004)
 Ryazanov, V. V. see Bushmanov, O. N.; et al., (91f:68005)
 Samitov, R. K. see Makarov, I. I., (91h:68016)
 Shiraki, Yoshinao (with Honda, Masaaki) Speaker adaptation algorithms based on piecewise-moving adaptive segment quantization method. (Not in MR)
 Skvaletskii, D. E. see Vasil'ev, V. I.; et al., (Not in MR)
 Smirnov, A. I. see Mazurov, V. I.; et al., (91f:68004)
 Soda, Giovanni see Gori, Marco, (91e:68011)
 Spivak, Shalom Some properties of the multisurface method for pattern classification. (Not in MR)
 Starovoirov, D. A. Modification of the subspace method in a pattern recognition problem. (Not in MR)
 Steinly, Magnus Towards a formal theory of errors in pattern trees. (see 91h:68004)
 Suen, Ching Yun see Tang, Y. Y.; et al., (Not in MR)
 Sushko, V. I. see Vasil'ev, V. I.; et al., 91a:68233 and (Not in MR)
 Tan, Feng (with Zeng, Xiao Ming¹) A feature extraction algorithm, based on class separability, for remote sensing image classification. (Chinese. English summary) (Not in MR)
 Tang, Y. Y. (with Qu, Y. Z.; Suen, Ching Yun) Multiple-level information source and entropy-reduced transformation models. (Not in MR)
 Therrien, Charles W. ★ Decision estimation and classification. 91f:68181
 Tomita, Shingo see Hamamoto, Yoshihiko; et al., 91h:68132
 Torre, V. see De Micheli, E.; et al., (91h:68013)
 Tournissoux, Daniel see Zighed, Abdelkader; et al., (Not in MR)
 Tsai, Wen Hsiang (with Chou, Sheng Lin) Detection of generalized principal axes in rotationally symmetric shapes. (Not in MR)
 Uras, S. see De Micheli, E.; et al., (91h:68013)
 Valev, Venceslav (with Zhuravil'ev, Yu. I.) Integer-valued problems of transforming the training tables in k -valued code in pattern recognition problems. (Not in MR)
 Vasil'ev, V. I. (with Sushko, V. I.; Batakazina, T. V.) Construction of continuous optimal spaces in the training for pattern recognition. 91a:68233
 — (with Ovsyannikova, F. P.; Sushko, V. I.; Skvaletskii, D. E.) Synthesis of continuous spaces that guarantee the separation of patterns with a specified reliability. (Not in MR)
 Veshort, A. M. (with Zuev, Yu. A.; Krasnoprosin, V. V.) A two-level pattern recognition scheme with a logical corrector. (Russian) (see 91f:68005)
 Welkens, C. J. see Bourlard, H.; et al., (91h:68013)
 Yang, Jing Yu see Hong, Zi Quan. (Not in MR)
 Zaks, Yu. M. (with Muchnik, I. B.) Monotone systems for construction of incomplete classifications of a finite set of objects. 91a:68234
 Zeng, Xiao Ming¹ see Tan, Feng. (Not in MR)

Zhuravlev, Yu. I. (with Gurevich, I. B.) Pattern recognition and image recognition. (Russian) (see 91f:68005)

— see also Valev, Vencelav, (Not in MR) and Bushmanov, O. N.; et al., (91f:68005)

Zighed, Abdelkader (with Tournissoux, Daniel; Auray, Jean-Paul; Largeron, Christine) Discrimination basée sur un critère d'homogénéité locale. (English summary) [Discrimination by optimizing a local-consistency criterion] (Not in MR)

Zuev, Yu. A. see Veshort, A. M.; et al., (91f:68005)

Items with secondary classifications in 68T10

Bekmuratov, K. A. see Vasil'ev, V. I.; et al., (Not in MR)

(Bezdek, James C.) see Selim, Shokri Z., 91m:65172

Blumer, Anselm (with Littlestone, Nick) Learning faster than promised by the Vapnik-Chervonenkis dimension. 91f:68179

(Brooks, Michael J.) see Shape from shading, 91b:68118

Busygina, B. S. see Cheponis, K. A.; et al., (Not in MR)

Byrne, Charles L. see Jones, Lee Kenneth, (Not in MR)

Chachkhiani, T. I. see Netmark, Yu. I.; et al., (Not in MR)

Cheponis, K. A. (with Zvirinaitė, Dausa; Busygina, B. S.; Miroshnichenko, L. V.) ★ Методы, критерии и алгоритмы, используемые при преобразовании, выделении и выборе признаков в анализе данных. (Russian) [Methods, criteria and algorithms that can be used in the transformation, selection and choice of features in data analysis] (Not in MR)

Chow, Yun Shyong A limit theorem for pattern synthesis in image processing. 91k:68044

— see also Grenander, U.; et al., 91m:92051

Cox, Louis Anthony, Jr. Pragmatic information-seeking strategies for expert classification systems. (see 91h:68014)

Dassow, Jürgen (with Hinz, Friedhelm) Kettenkode-Bildsprachen. Theorie und Anwendungen. [Chain code picture languages. Theory and applications] (Not in MR)

Farouki, R. T. (with Neff, C. Andrew) On the numerical condition of Bernstein-Bézier subdivision processes. 91c:65013

Grenander, U. (with Chow, Yun Shyong; Keenan, Daniel M.) ★ Hands. 91m:92051

(Hathaway, Richard J.) see Selim, Shokri Z., 91m:65172

Hérault, Laurent (with Nizé, Jean-Jacques) Neural networks and graph K -partitioning. (Not in MR)

Hinz, Friedhelm The membership problem for context-free chain code picture languages. (see 91h:68011)

— see also Dassow, Jürgen, (Not in MR)

(Horn, Berthold K. P.) see Shape from shading, 91b:68118

Jones, Lee Kenneth (with Byrne, Charles L.) Correction to: "General entropy criteria for inverse problems, with applications to data compression, pattern classification and cluster analysis" [IEEE Trans. Inform. Theory 36 (1990), no. 1, 23–30]. (Not in MR)

Kanatani, Ken-ichi ★ Group-theoretical methods in image understanding. 91g:68168

Keenan, Daniel M. see Grenander, U.; et al., 91m:92051

(Kim, Tachwan) see Selim, Shokri Z., 91m:65172

Littlestone, Nick see Blumer, Anselm, 91f:68179

Maes, Maurice On a cyclic string-to-string correction problem. 91b:68123

Mangasarjan, O. L. (with Setiono, R.; Wolberg, W. H.) Pattern recognition via linear programming: theory and application to medical diagnosis. (see 91h:00029)

Maxwell, Tom Pattern recognition and single layer networks. (see 91h:92004)

Mikhailov, A. S. Engineering of dynamical systems for pattern recognition and information processing. (see 91e:00017)

Miroshnichenko, L. V. see Cheponis, K. A.; et al., (Not in MR)

Miyamoto, Sadaaki ★ Fuzzy sets in information retrieval and cluster analysis. 91g:04005

Neff, C. Andrew see Farouki, R. T., 91c:65013

Netmark, Yu. I. (with Ronin, E. I.; Chachkhiani, T. I.) Automatic parallel clustering. (Russian) (Not in MR)

Niemiro, Wojciech L^1 -optimal statistical discrimination procedures and their asymptotic properties. (Polish. English summary) 91a:62148

Nizé, Jean-Jacques see Hérault, Laurent, (Not in MR)

Pal, Amita (with Pal, Sankar K.) Effect of wrong samples on the convergence of learning processes. 91h:68151

Pal, Sankar K. see Pal, Amita, 91h:68151

Pavlov, Yu. P. A recurrence algorithm for constructing a value function. (Russian) 91h:90034

Piccinini, Livio Clemente Discrete exterior measures and their meaning in applications. 91h:28003

Resnikoff, Howard L. ★ The illusion of reality. 91m:92001

Ronin, E. I. see Netmark, Yu. I.; et al., (Not in MR)

Sarychev, A. P. Solution of the GMDH partitioning problem when calculating the regularity criterion in an active experiment. (Not in MR)

— A discriminant analysis scheme with training and verification observation subsamples. (Not in MR)

Schempp, Walter Holographic image processing, coherent optical computing, and neural computer architecture for pattern recognition. (see 91a:78001)

Selim, Shokri Z. Comments on: "Optimality test for fixed points of the fuzzy c -means algorithm" [Pattern Recognition 21 (1988), no. 6, 651–663; MR 89m:65063] by T. Kim, J. Bezdek and R. Hathaway. 91m:65172

Setiono, R. see Mangasarjan, O. L.; et al., (91h:00029)

Steinby, Magnus A formal theory of errors in tree representations of patterns. (German and Russian summaries) 91f:68122

Sushko, V. I. see Vasil'ev, V. I.; et al., (Not in MR)

Tsui, R. I. see Vasil'ev, V. I.; et al., (Not in MR)

Urba, K. Mutual redundancy of features in a diagnostic problem. (Russian. English and Lithuanian summaries) (see 91e:92001)

Vasil'ev, V. I. (with Bekmuratov, K. A.; Sushko, V. I.; Tsui, R. I.) Selection of binary pseudo-attributes in the process of learning pattern recognition. (Not in MR)

Vishik, Uzi Deterministic sampling—a new technique for fast pattern matching. (Not in MR)

Wolberg, W. H. see Mangasarjan, O. L.; et al., (91h:00029)

Zhu, Qiuming On the minimum probability of error of classification with incomplete patterns. (Not in MR)

Zvirinaitė, Dausa see Cheponis, K. A.; et al., (Not in MR)

Items listed otherwise than by author

Shape from shading ★ Shape from shading. 91b:68118

68T15 Theorem proving [see also 03B35]

Anantharaman, Siva (with Hsiang, Jieh) Automated proofs of the Moufang identities in alternative rings. 91e:68125

Badier, Franz Characterizations of unification type zero. (see 91f:68006)

— Unification in commutative theories. 91d:68104

— Unification in commutative theories [MR 91d:68104]. (see 91j:68006)

Bachmair, Leo Proof normalization for resolution and paramodulation. (see 91f:68006)

— (with Ganzinger, Harald) On restrictions of ordered paramodulation with simplification. (see 91g:68004)

Baird, Timothy B. (with Peterson, Gerald E.; Wilkerson, Ralph W.) Complete sets of reductions modulo associativity, commutativity and identity. (see 91f:68006)

Basin, David A. Building theories in Nuprl. 91a:68235

Benassar, Dan Simultaneous paramodulation. (see 91g:68004)

Bertling, Hubert (with Ganzinger, Harald) Completion-time optimization of rewrite-time goal solving. (see 91f:68006)

Bibel, W. Short proofs of the pigeonhole formulas based on the connection method. 91k:68167

Bledsoe, W. W. Some thoughts on proof discovery. (see 91e:00020)

Boudet, Alexandre (with Jouannaud, Jean-Pierre; Schmidt-Schauss, Manfred) Unification in Boolean rings and abelian groups. 91d:68105

— (with Jouannaud, Jean-Pierre; Schmidt-Schauss, Manfred) Unification in Boolean rings and abelian groups [MR 91d:68105]. (see 91j:68006)

Boyer, Robert S. (with Moore, J. Strother) The addition of bounded quantification and partial functions to a computational logic and its theorem prover. 91e:68126

(Bratko, Ivan) see Achievements and application of artificial intelligence, 91k:68169

Bürckert, Hans-Jürgen Matching—a special case of unification? 91e:68127

— A resolution principle for clauses with constraints. (see 91g:68004)

— Matching—a special case of unification? [MR 91e:68127]. (see 91j:68006)

Cai, Jin-Yi (with Condon, Anne; Lipton, Richard J.) On bounded round multi-prover interactive proof systems. (see 91k:68006)

Cantone, Domenico (with Omodeo, Eugenio; Policriti, Alberto) The automation of syllogistic. II. Optimization and complexity issues. 91m:68152

Cavedon, Lawrence (with Lloyd, J. W.) A completeness theorem for SLDNF resolution. 91e:68128

— see also Decker, Hendrik, (91g:03006)

Chandru, V. (with Hooker, J. N.) Extended Horn sets in propositional logic. 91m:68153

Chou, Shang-Ching (with Yang, Jin Gen) On the algebraic formulation of certain geometry statements and mechanical geometry theorem proving. 91b:68101

Chrátal, Vašek (with Szemerédi, Endre) Many hard examples for resolution. 91e:68182

Comon, Hubert Inductive proofs by specification transformations. (see 91f:68006)

Condon, Anne see Cai, Jin-Yi; et al., (91k:68006)

Cook, Stephen (with Pitassi, Toniann) A feasibly constructive lower bound for resolution proofs. 91j:68110

da Costa, Newton C. A. (with Henschen, Lawrence J.; Lu, James J.; Subramanian, V. S.) Automatic theorem proving in paraconsistent logics: theory and implementation. (see 91g:68004)

(Cvetković, Dragolj M.) see Achievements and application of artificial intelligence, 91k:68169

Decker, Hendrik (with Cavedon, Lawrence) Generalizing allowedness while retaining completeness of SLDNF-resolution. (see 91g:03006)

Deng, Mi Ke see Zhang, Jing Zhong; et al., 91k:68168

Dougherty, Daniel J. (with Johann, Patricia) An improved general E -unification method. (see 91g:68004)

Echahed, Rachid On completeness of narrowing strategies. 91h:68156

Elliott, Conal M. Higher-order unification with dependent function types. (see 91f:68006)

Ferro, Alfredo (with Gallo, Giovanni) Automated theorem proving in elementary geometry. 91j:68111

Fitting, Melvin ★ First-order logic and automated theorem proving. 91f:68183

Fraňová, Marta Constructive matching—explanation-based methodology for inductive theorem-proving. (see 91h:68006)

Furbach, Ulrich (with Hölldobler, Steffen; Schreiber, Joachim) Horn equational theories and paramodulation. 91f:68184

Gallo, Giovanni see Ferro, Alfredo, 91j:68111

Ganzinger, Harald see Bertling, Hubert, (91f:68006) and Bachmair, Leo, (91g:68004)

Garland, Stephen J. (with Gutttag, John V.) An overview of LP, the Larch prover. (see 91f:68006)

van Gasteren, Antonetta Johanna Maria ★ On the shape of mathematical arguments. 91f:68185

Goerdt, Andreas Unrestricted resolution versus N -resolution. (see 91h:68011)

Goguen, Joseph A. OBJ as a theorem prover with applications to hardware verification. 91f:68186

Gutttag, John V. see Garland, Stephen J., (91f:68006)

Habasiński, Zdzisław Solving generalized equations over infinite trees. (German and Russian summaries) 91b:68102

Hanada, Hiromi see Miyazaki, Nobuyoshi; et al., 91b:68105

Hansen, Pierre (with Jaumard, Brigitte) Algorithms for the maximum satisfiability problem. (German summary) (Not in MR)

Henglein, Fritz Fast left-linear semi-unification. (see 91m:68002)

Henschen, Lawrence J. see Lee, Sang-Ho, (91g:68004); da Costa, Newton C. A.; et al., (91g:68004) and Örtürk, Yusuf, (91g:68004)

Hoepelman, Jaap see van Hoof, Toine, (91k:68007)

Hölldobler, Steffen see Furbach, Ulrich; et al., 91f:68184

van Hoof, Toine (with Hoepelman, Jaap) Nonmonotonicity and conditionals in dialogue logic. (see 91k:68007)

Hooker, J. N. see Chandru, V., 91m:68153

- Hosono, Chiharu On an unsatisfiability-satisfiability prover. 91g:68141 (Hosomaki, Petar) *see* Achievements and application of artificial intelligence, 91k:68169
- Hsiang, Jieh *see* Anantharaman, Siva, 91g:68125
- Itoh, Hidenori *see* Miyazaki, Nobuyoshi; et al., 91b:68105
- Jamard, Brigitte *see* Hansen, Pierre, (Not in MR)
- Johann, Patricia *see* Dougherty, Daniel J., (91g:68004)
- Jouannaud, Jean-Pierre (with Kounalis, Emmanuel) Automatic proofs by induction in theories without constructors. 91a:68236
- Syntactic theories. 91i:68133
- *see also* Boudet, Alexandre; et al., 91d:68105 and (91g:68006)
- Kanelakis, Paris C. (with Revesz, Peter Z.) On the relationship of congruence closure and unification [MR 90g:68119]. (91j:68006)
- Kapur, Deepak *see* Mohan, Chilukuri K.; et al., (Not in MR) and Zhang, Hantao, (91f:68006)
- Kaufmann, Matt Generalization in the presence of free variables: a mechanically-checked correctness proof for one algorithm. (Not in MR)
- Kerissit, Jean-Marc A relational approach to logic programming: the extended Alexander method. (French summary) 91b:68103
- Kharmer, A. A. *see* Mart'yanov, V. I., 91j:68114
- Knight, Kevin Unification: a multidisciplinary survey. 91g:68142
- Koset, I. P. On possibilities of application of the second-order resolution method in intelligent computational systems. (Not in MR)
- Kounalis, Emmanuel *see* Jouannaud, Jean-Pierre, 91a:68236
- Kujalec, Marija Possibilities for improving the resolution theorem in the "Graph" system. (Serbo-Croatian. English summary) (91k:68169)
- Lee, Sang-Ho (with Henschen, Lawrence J.) Substitution-based compilation of extended rules in deductive databases. (91g:68004)
- Lee, Shie-Jue (with Plaisted, David A.) Reasoning with predicate replacement. (91k:68014)
- Leitsch, Alexander Deciding Horn clauses by hyperresolution. (91g:68006)
- Lifschitz, Vladimir ★ Mechanical theorem proving in the USSR. 91j:68112
- What is the inverse method? 91d:68106
- Lipton, Richard J. *see* Cai, Jin-Yi; et al., (91k:68006)
- Liu, Xu Hua (with Yang, Feng Jie) The λ -unit lock resolution on a λ -Horn set. (Chinese. English summary) (Not in MR)
- Lloyd, J. W. *see* Cavedon, Lawrence, 91a:68128
- Lu, James J. *see* da Costa, Newton C. A.; et al., (91g:68004)
- Lugies, D. A deduction procedure for first order programs. 91a:68237
- Lusk, Ewing L. *see* Slaney, John K., (91g:68004)
- Madrakhimov, Sh. F. *see* Zhelyabin, V. N., (Not in MR)
- Mastivoda, A. V. Invariance of η -transformations of formulas. (Russian) 91j:68113
- Martelli, Alberto (with Rossi, Gianfranco) Stepwise development of an algorithm for unification over infinite terms. (Russian summary) (Not in MR)
- Mart'yanov, V. I. (with Kharmer, A. A.) A formalization of the method of proof by contradiction. (Russian) 91j:68114
- (with Yakovlev, N. P.) Methods for generating an induction hypothesis in automatic theorem proving. (Russian) 91j:68115
- McAllester, David A. ★ Ontic. 91b:68104
- McCune, William W. *see* Wos, Larry; et al., (91g:68004)
- (Minker, Jack) *see* Lifschitz, Vladimir, 91j:68112
- Mints, Grigori Efimovich Several formal systems of the logic programming. (Russian summary) 91d:68107
- Miyazaki, Nobuyoshi (with Yokota, Kazumasa; Haniuda, Hiromi; Itoh, Hidenori) Horn clause transformation by restrictor in deductive databases. 91b:68105
- Mohan, Chilukuri K. (with Srivas, Mandayam K.; Kapur, Deepak) Inference rules and proof procedures for inequations. (Not in MR)
- Moore, J. Strother *see* Boyer, Robert S., 91e:68126
- Narain, Sanjal Optimization by nondeterministic, lazy rewriting. (91f:68006)
- Naughton, Jeffrey F. Minimizing function-free recursive inference rules. 91g:68143
- Neiman, V. S. Refutation search for Horn sets by a subgoal-extraction method. 91g:68144
- Nie, Xumin (with Plaisted, David A.) Refinements to depth-first iterative-deepening search in automatic theorem proving. 91a:68238
- (with Plaisted, David A.) A complete semantic back chaining proof system. (91g:68004)
- Nipkow, Tobias Combining matching algorithms: the regular case. (91f:68006)
- Nutt, Werner (with Réty, Pierre; Smolka, Gert) Basic narrowing revisited [MR 90g:68120]. (91j:68006)
- Omodeo, Eugenio *see* Cantone, Domenico; et al., 91m:68152
- Ozturk, Yusuf (with Henschen, Lawrence J.) Hyperresolution and equality axioms without function substitutions. (91g:68004)
- Paulson, Lawrence C. The foundation of a generic theorem prover. 91a:68239
- A formalization of the simple theory of types (for Isabelle). (91e:68004)
- Peterson, Gerald E. *see* Baird, Timothy B.; et al., (91f:68006)
- Pitassi, Toniann *see* Cook, Stephen, 91j:68110
- Plaisted, David A. *see* Nie, Xumin, 91a:68238; (91g:68004) and Lee, Shie-Jue, (91k:68014)
- Polcristi, Alberto *see* Cantone, Domenico; et al., 91m:68152
- Pollock, John L. Interest driven suppositional reasoning. 91j:68116
- Pym, David (with Wallen, Lincoln) Investigations into proof-search in a system of first-order dependent function types. (91g:68004)
- Qualis, Art Automated development of Tarski's geometry. 91d:68108
- Réty, Pierre *see* Nutt, Werner; et al., (91f:68006)
- Revesz, Peter Z. *see* Kanelakis, Paris C., (91g:68006)
- Rossi, Gianfranco *see* Martelli, Alberto, (Not in MR)
- Schmidt-Schauss, Manfred ★ Computational aspects of an order-sorted logic with term declarations. 91a:68240
- Unification in a combination of arbitrary disjoint equational theories. 91a:68241
- Unification in a combination of arbitrary disjoint equational theories [MR 91a:68241]. (91j:68006)
- *see also* Boudet, Alexandre; et al., 91d:68105 and (91g:68006)
- Schreiber, Joachim *see* Furbach, Ulrich; et al., 91f:68184
- Schwind, Camilla B. A tableaux-based theorem prover for a decidable subset of default logic. (91g:68004)
- Scutella, Maria Grazia A note on Dowling and Gallier's top-down algorithm for propositional Horn satisfiability. (Not in MR)
- Shepherdson, John C. Unsolvability problems for SLDNF resolution. 91b:68134
- Siekman, Jörg H. An introduction to unification theory. 91b:68135
- Sigal, Ron Logic programming extensions of Horn clause logic. (Not in MR)
- Slaney, John K. (with Lusk, Ewing L.) Parallelizing the closure computation in automated deduction. (91g:68004)
- Smolka, Gert *see* Nutt, Werner; et al., (91f:68006)
- Snyder, Wayne Efficient ground completion: an $O(n \log n)$ algorithm for generating reduced sets of ground rewrite rules equivalent to a set of ground equations E . (91f:68006)
- Higher order E -unification. (91g:68004)
- Srivas, Mandayam K. *see* Mohan, Chilukuri K.; et al., (Not in MR)
- Stärk, Robert F. A direct proof for the completeness of SLD-resolution. (91g:68006)
- Stevens, Rick *see* Wang, Tie Cheng, 91a:68243
- Stickel, Mark E. Resolution theorem proving. 91b:68106
- Subrahmanian, V. S. Algebraic properties of the space of multivalued and paraconsistent logic programs. 91c:68110
- *see also* da Costa, Newton C. A.; et al., (91g:68004)
- Suppes, Patrick (with Takahashi, Shuzo) An interactive calculus theorem-prover for continuity properties. 91a:68242
- Suttner, Christian B. Representing heuristic-relevant information for an automated theorem prover. (91b:68006)
- Szemerédi, Endre *see* Chvátal, Václav, 91f:68182
- Takahashi, Shuzo *see* Suppes, Patrick, 91a:68242
- Tammet, Tanel The resolution program, able to decide some solvable classes. (91c:68004)
- Tarver, Mark An examination of the Prolog technology theorem-prover. (91g:68004)
- de la Tour, Thierry Boy Minimizing the number of clauses by renaming. (91g:68004)
- Tuominen, Heikki Dynamic logic as a uniform framework for theorem proving in intensional logic. (91g:68004)
- Vaifær, S. N. Derivation of theorems on the basis of a solution of logic equations and typing. (Russian) 91j:68117
- Machine synthesis of mathematical theorems. 91g:68145
- Verobev, S. G. Use of conditional term rewriting systems in automatic theorem proving. I. (Not in MR)
- Wallen, Lincoln *see* Pym, David, (91g:68004)
- Walther, Christoph Many-sorted inferences in automated theorem proving. (91g:68008)
- Wang, Tie Cheng (with Stevens, Rick) Solving open problems in right alternative rings with Z-module reasoning. 91a:68243
- Wilkinson, Ralph W. *see* Baird, Timothy B.; et al., (91f:68006)
- Winker, S. Robbins algebra: conditions that make a near-Boolean algebra Boolean. 91f:68136
- *see also* Wos, Larry; et al., (91g:68004)
- Wos, Larry (with Winker, S.; McCune, William W.; et al.) Automated reasoning contributes to mathematics and logic. (91g:68004)
- The problem of choosing between predicate and function notation for problem representation. 91f:68137
- The problem of finding a mapping between clause representation and natural-deduction representation. (Not in MR)
- The problem of finding a restriction strategy more effective than the set of support strategy. (Not in MR)
- Wu, Mao Kang Two refutation algorithms for unsatisfiable sets of Horn clauses. (Chinese. English summary) 91a:68244
- Yakovlev, N. P. *see* Mart'yanov, V. I., 91j:68115
- Yang, Feng Jie *see* Liu, Xu Hua, (Not in MR)
- Yang, Jin Gen *see* Chou, Shang-Ching, 91b:68101
- Yang, Lu *see* Zhang, Jing Zhong; et al., 91b:68168
- Yokota, Kazumasa *see* Miyazaki, Nobuyoshi; et al., 91b:68105
- Yu, Yuan Computer proofs in group theory. 91m:68154
- Zhang, Hantao (with Kapur, Deepak) Consider only general superpositions in completion procedures. (91f:68006)
- Automated proof of ring commutativity problems by algebraic methods. 91e:68129
- Zhang, Jing Zhong (with Yang, Lu; Deng, Mi Ke) The parallel numerical method of mechanical theorem proving. 91k:68168
- Zhelyabin, V. N. (with Madrahimov, Sh. F.) A linear unification algorithm. (Russian) (Not in MR)

Items listed otherwise than by author

Achievements and application of artificial intelligence ★ Ostvarenja i primene veštačke inteligencije. (Serbo-Croatian) [Achievements and application of artificial intelligence] 91k:68169

Dubrovnik ★ Ostvarenja i primene veštačke inteligencije. (Serbo-Croatian) [Achievements and application of artificial intelligence] 91k:68169

Symposium:
Achievements and Application of Artificial Intelligence ★ Ostvarenja i primene veštačke inteligencije. (Serbo-Croatian) [Achievements and application of artificial intelligence] 91k:68169

Items with secondary classifications in 68T15

Abulrah, Habib (with Pécuchet, Jean-Pierre) Solving word equations. 91b:68092

— (with Pécuchet, Jean-Pierre) Solving word equations [MR 91b:68092]. (91j:68006)

Alt-Kaci, Hassan *see* Smolka, Gert, (91f:68006)

Andreoli, Jean-Marc (with Pareschi, Remo) Logic programming with sequent systems: a linear logic approach. (91k:68007)

Apt, Krzysztof R. (with Bol, Roland N.; Klop, Jan Willem) On the safe termination of PROLOG programs. 91a:68247

Ausiello, Giorgio (with Italiano, Giuseppe F.) On-line algorithms for polynomially solvable satisfiability problems. 91i:68028

- Avenhaus, J. (with Madlener, Klaus) Term rewriting and equational reasoning. 91k:68095
- Bader, Franz Unification properties of commutative theories: a categorical treatment. 91a:68152
- Baia, David A. Equality of terms containing associative-commutative functions and commutative binding operators is isomorphism complete. (see 91g:68004)
- Beeson, Michael J. Computerizing mathematics: logic and computation. (see 91b:03004)
- Some applications of Gentzen's proof theory in automated deduction. (see 91k:68007)
- Belleannée, C. (with Nicolas, Jean-Marie) Static learning for an adaptive theorem prover. (see 91k:68013)
- Bella, Gianluigi Ramsey interpreted: a parametric version of Ramsey's theorem. 91i:03106
- Bezem, Marc Completeness of resolution revisited. 91g:03029
- Bol, Roland N. see Apt, Krzysztof R.; et al., 91a:68247
- Boudet, Alexandre Unification in a combination of equational theories: an efficient algorithm. (see 91g:68004)
- Buchberger, B. (with Collins, G. E.; Kutzler, B.) Algebraic methods for geometric reasoning. 91g:68156
- Bugrara, Khaled M. (with Pan, Youfang; Purdom, Paul Walton, Jr.) Exponential average time for the pure literal rule. 91f:68022
- Bürckert, Hans-Jürgen (with Herold, Alexander; Schmidt-Schauss, Manfred) On equational theories, unification, and (un)decidability [MR 90j:03022]. (see 91j:68006)
- Burris, Stanley (with Lawrence, John W.) Unification in commutative rings is not finitary. 91k:03027
- Cantone, Domenico (with Ferro, Alfredo; Omodeo, Eugenio) ★ Computable set theory. Vol. I. 91i:03002
- Chou, Shang-Ching (with Gao, Xiao Shan) Ritt-Wu's decomposition algorithm and geometry theorem proving. (see 91g:68004)
- (with Schelter, William F.; Yang, Jin Gen) An algorithm for constructing Gröbner bases from characteristic sets and its application to geometry. 91i:13022
- Christian, Jim see Lincoln, Patrick, 91d:68061 and (91j:68006)
- Claessen, Michael (with Fortenbacher, Albrecht) Efficient solution of linear Diophantine equations [MR 90i:11151]. (see 91j:68006)
- Collins, G. E. see Buchberger, B.; et al., 91g:68156
- Comon, Hubert (with Lescanne, Pierre) Equational problems and disunification [MR 90f:03023]. (see 91j:68006)
- Cutello, Vincenzo Automated deduction in topology: two different approaches. 91h:03019
- Cvetković, Dragolj M. (with Hotomski, Petar; Kraus, Laslo; Pevac, Irena; Radosavljević, Zoran; Simić, Slobodan K.) Ten years of the development and use of the expert system "Graph". (Serbo-Croatian. English summary) (see 91k:68169)
- Dershowitz, Nachum (with Sivakumar, G.) Equation solving in conditional AC-theories. (see 91g:68001)
- see also Rewriting techniques and applications, 91f:68006
- Dragalin, Albert G. Some trends in automated reasoning. (German and Russian summaries) 91g:03030
- Dragica, Stoin The experiments with the resolution theorem provers. (Serbo-Croatian. English summary) (see 91k:68169)
- Ferro, Alfredo see Cantone, Domenico; et al., 91i:03002
- Fortenbacher, Albrecht see Claessen, Michael, 91j:68006
- Gallier, Jean H. (with Snyder, Wayne) Complete sets of transformations for general E-unification. 91k:68116
- (with Narendran, Paliath; Plaisted, David A.; Snyder, Wayne) Rigid E-unification: NP-completeness and applications to equational matings. 91k:03028
- see also Snyder, Wayne, 91j:68006
- Gao, Xiao Shan see Chou, Shang-Ching, 91g:68004
- Ginsberg, Matthew L. A circumscriptive theorem prover. 91i:68139
- Goguen, Joseph A. What is unification? A categorical view of substitution, equation and solution. 91g:68074
- Proving and rewriting. 91j:68062
- see also Meseguer, José; et al., 91e:68106 and (91j:68006)
- Gudžinskas, Elgirdas A sequential variant of nondisjunctive resolution for temporal logic. (Russian. English and Lithuanian summaries) 91j:03013
- (van Harmelen, Frank) see Logic-based knowledge representation, 91k:68178
- Helmink, Leen Resolution and type theory. 91g:03031
- Henschen, Lawrence J. see McCune, William W., (Not in MR)
- Herrmann, Robert A "geometric" view of the dynamics of trajectories of computer programs. 91i:03036
- Herold, Alexander see Bürckert, Hans-Jürgen; et al., (91j:68006)
- Hilböhler, Steffen ★ Foundations of equational logic programming. 91e:68131
- Hotomski, Petar see Cvetković, Dragolj M.; et al., (91k:68169)
- Italiano, Giuseppe F. see Ausiello, Giorgio, 91i:03028
- (Jackson, Peter) see Logic-based knowledge representation, 91k:68178
- Jaffar, Joxan Minimal and complete word unification. 91g:68095
- Kaloshina, I. P. (with Minichkina, N. V.; Shmanova, G. A.) ★ Построение формулировок теорем и способов доказательства. (Russian) [Construction of formulations of theorems and of proof methods] 91g:03032
- (Kirchner, Claude) see Unification, 91j:68006
- Kirchner, Hélène Schematization of infinite sets of rewrite rules generated by divergent completion processes. 91f:68105
- Kleine Böning, Hans Existence of simple propositional formulas. 91b:68064
- Klop, Jan Willem see Apt, Krzysztof R.; et al., 91a:68247
- Kraus, Laslo see Cvetković, Dragolj M.; et al., (91k:68169)
- Kunes, Kenneth Signed data dependencies in logic programs. 91f:68190
- Kutzler, B. see Buchberger, B.; et al., 91g:68156
- Lai, Chu Sheng (with Yu, Xin Guo) A hard example for the bifurcation method. (Chinese. English summary) 91i:03029
- see also Yu, Xin Guo, 91i:03030
- Lawrence, John W. see Burris, Stanley, 91k:03027
- Le Chenadeo, Philippe On the logic of unification. 91k:03027
- On the logic of unification [MR 91b:03027]. (see 91j:68006)
- Leiss, Hans Polymorphic recursion and semi-unification. (see 91g:03006)
- Leitsch, Alexander On some formal problems in resolution theorem proving. 91a:03023
- Lescanne, Pierre On the recursive decomposition ordering with lexicographical status and other related orderings. 91e:68003
- see also Comon, Hubert, (91j:68006)
- Lincoln, Patrick (with Christian, Jim) Adventures in associative-commutative unification. 91d:68061
- (with Christian, Jim) Adventures in associative-commutative unification [MR 91d:68061]. (see 91j:68006)
- Madlener, Klaus see Avenhaus, J., 91h:68095
- Marek, Wiktor (with Trzuszczński, Mirosław) Negation as failure to prove and fixed points. 91c:68114
- Martelli, Alberto (with Rossi, Gianfranco; Moiso, C.) Lazy unification algorithms for canonical rewrite systems. (see 91b:68010)
- Martin, Ursula (with Nipkow, Tobias) Boolean unification—the story so far [MR 90d:03021]. (see 91j:68006)
- McCune, William W. (with Henschen, Lawrence J.) Maintaining state constraints in relational databases: a proof theoretic basis. (Not in MR)
- McRobbie, Michael A. see Thistlewaite, Paul B.; et al., 91b:03028
- Meseguer, José (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification. 91e:68106
- (with Goguen, Joseph A.; Smolka, Gert) Order-sorted unification [MR 91e:68106]. (see 91j:68006)
- Meyer, Robert K. see Thistlewaite, Paul B.; et al., 91b:03028
- Minichkina, N. V. see Kaloshina, I. P.; et al., 91g:03032
- Mints, Grigori Efremovich Gentzen-type systems and resolution rules. I. Propositional logic. 91h:03020
- (Mitra, Subrata) see Dershowitz, Nachum, (91g:68001)
- Mohan, Chilukuri K. see Zhang, Xiaolin, (91k:68014)
- Moiso, C. see Martelli, Alberto; et al., (91b:68010)
- Narendran, Paliath (with Otto, Friedrich) Some results on equational unification. (see 91g:68004)
- see also Gallier, Jean H.; et al., 91k:03028
- Nesmith, Dan see Pfennig, Frank, (91g:68004)
- Nicolas, Jean-Marie see Belleannée, C., (91k:68006)
- Nipkow, Tobias see Martin, Ursula, (91j:68006)
- Nutt, Werner Unification in monoidal theories. (see 91g:68004)
- O'Hearn, Peter see Stachniak, Zbigniew, 91k:03029
- Omodeo, Eugenio see Cantone, Domenico; et al., 91i:03002
- Otto, Friedrich see Narendran, Paliath, (91g:68004)
- Palamidessi, Caterina On the declarative semantics of Horn clause logic-based languages. 91e:68107
- Pan, Youfang see Bugrara, Khaled M.; et al., 91f:68022
- Pareschi, Remo see Andreoli, Jean-Marc, (91k:68007)
- Péchu, Jean-Pierre see Abdulrah, Habib, 91h:68092 and (91j:68006)
- Peterson, Gerald E. Complete sets of reductions with constraints. (see 91g:68004)
- Pettorossi, Alberto (with Skowron, Andrzej) The power of the lambda abstraction strategy for program derivation. (German and Russian summaries) 91a:68189
- Pevac, Irena see Cvetković, Dragolj M.; et al., (91k:68169)
- Pfennig, Frank (with Nesmith, Dan) Presenting intuitive deductions via symmetric simplification. (see 91g:68004)
- Plaisted, David A. see Gallier, Jean H.; et al., 91k:03028
- Purdom, Paul Walton, Jr. see Bugrara, Khaled M.; et al., 91f:68022
- Radosavljević, Zoran see Cvetković, Dragolj M.; et al., (91k:68169)
- Roddy, Uday S. Term rewriting induction. (see 91g:68004)
- (Reichgelt, Han) see Logic-based knowledge representation, 91k:68178
- Rittri, Mikael Retrieving library identifiers via equational matching of types. (see 91g:68004)
- Rossi, Gianfranco see Martelli, Alberto; et al., (91b:68010)
- Sakai, Hiroshi Completeness of diamond-resolution in OR-type knowledge bases. (Not in MR)
- Schelter, William F. see Chou, Shang-Ching; et al., 91i:13022
- Schmidt-Schauss, Manfred Unification in permutative equational theories is undecidable. 91f:03091
- Unification in permutative equational theories is undecidable [MR 91f:03091]. (see 91j:68006)
- see also Bürckert, Hans-Jürgen; et al., (91j:68006)
- (Schwartz, Jacob T.) see Cantone, Domenico; et al., 91i:03002
- Serebrynnikov, O. F. Hierarchical representation of search heuristics for a proof in logical calculi. (Russian) 91i:03031
- Shmanova, G. A. see Kaloshina, I. P.; et al., 91g:03032
- Siekman, Jörg H. Unification theory [MR 90j:03024]. (see 91j:68006)
- Simić, Slobodan K. see Cvetković, Dragolj M.; et al., (91k:68169)
- Sivakumar, G. see Dershowitz, Nachum, (91g:68001)
- Skowron, Andrzej see Pettorossi, Alberto, 91a:68189
- Smolka, Gert (with Alt-Kaci, Hassan) Inheritance hierarchies: semantics and unification [MR 90g:68086]. (see 91j:68006)
- see also Meseguer, José; et al., 91e:68106 and (91j:68006)
- Snyder, Wayne (with Gallier, Jean H.) Higher-order unification revisited: complete sets of transformations [MR 90j:03025]. (see 91j:68006)
- see also Gallier, Jean H.; et al., 91k:03028 and 91k:68116
- Stahler, Edward P., Jr. Representing knowledge with theories about theories. 91k:03032
- Stachniak, Zbigniew The resolution rule: an algebraic perspective. 91i:03033
- (with O'Hearn, Peter) Resolution in the domain of strongly finite logics. 91k:03029
- Statman, Rick Some models of Scott's theory LCF based on a notion of rate of convergence. 91i:03034
- Steinbach, Joachim Improving associative path orderings. (see 91g:68004)
- Thistlewaite, Paul B. (with McRobbie, Michael A.; Meyer, Robert K.) ★ Automated theorem-proving in nonclassical logics. 91k:03028
- Troy, Daniel see Zhang, Weining; et al., 91h:68036
- Trzuszczński, Mirosław see Marek, Wiktor, 91c:68114
- Urquhart, Alasdair The complexity of Gentzen systems for propositional logic. 91e:03016

- Vieille, Laurent Recursive query processing: the power of logic. 91h:68024
- Vorob'ev, S. G. A structural completeness theorem for a class of conditional rewrite rule systems. 91f:68106
- Voronkov, A. A. Proof-search method for the first-order logic. 91k:03030
- Wang, Zhi Jian² Mechanization of mathematics. (Chinese) 91f:03025
- Weijland, W. P. Semantics for logic programs without occur check. 91m:68117
- Wilson, John Montgomery Compact normal forms in propositional logic and integer programming formulations. 91b:90143
- Yang, Jin Gen see Chou, Shang-Ching; et al., 91e:13022
- Yon, Jia-Hual Enumerating outer narrowing derivations for constructor-based term rewriting systems [MR 90d:68046]. (see 91f:68006)
- Yu, Clement T. see Zhang, Weining; et al., 91h:68036
- Yu, Xin Guo (with Lai, Chu Sheng) A hard example for the method of counterterms. (Chinese. English summary) 91i:03030
- see also Lai, Chu Sheng, 91i:03029
- Zamov, N. K. Modal resolutions. (Russian) 91d:03004
- On the connection between the resolution method and the inverse method. (Russian summary) 91k:03031
- Zhang, Weining (with Yu, Clement T.; Troy, Daniel) Necessary and sufficient conditions to linearize doubly recursive programs in logic databases. 91h:68036
- Zhang, Xiaolin (with Mohan, Chilukuri K.) Unification in modal theorem proving. (see 91k:68014)
- Items listed otherwise than by author
- Chapel Hill, NC ★ Rewriting techniques and applications. 91f:68006
- Conference:
- Rewriting Techniques and Applications ★ Rewriting techniques and applications. 91f:68006
- Lecture Notes in Computer Science ★ Rewriting techniques and applications. 91f:68006
- Logic-based knowledge representation ★ Logic-based knowledge representation. 91k:68178
- Rewriting techniques and applications ★ Rewriting techniques and applications. 91f:68006
- Unification ★ Unification. 91f:68006

68T20 Problem solving

- Acharya, A. see Chakrabarti, P. P.; et al., 91a:68245
- Bhatnagar, Raj K. (with Kanai, Laveen N.) Using probabilities as control knowledge to search for relevant problem models in automated reasoning. (see 91h:68014)
- Bisham, A. F. Comparative analysis of methods of measuring fuzziness. (Not in MR)
- de Bruin, Arie see Pijls, Wim, (91g:68002)
- Chakrabarti, P. P. (with Ghose, S.; Acharya, A.; De Sarkar, S. C.) Heuristic search in restricted memory. 91a:68245
- Cockett, J. R. B. (with Herrera, J. A.) Decision tree reduction. 91j:68118
- Cooper, Martin C. An optimal k -consistency algorithm. 91b:68107
- Cox, Louis Anthony, Jr. Pragmatic information-seeking strategies for expert classification systems. (see 91h:68014)
- Dantsin, E. Ya. Algorithms for probabilistic inference. (see 91e:03004)
- Davis, Henry W. Cost-error relationships in A^* tree-searching. 91f:68187
- De Sarkar, S. C. see Chakrabarti, P. P.; et al., 91a:68245
- Finn, V. K. On a new variant for automatic hypothesis generation in expert systems of the DSM type. (Not in MR)
- Ghose, S. see Chakrabarti, P. P.; et al., 91a:68245
- Grim, JIH Probabilistic expert systems and distribution mixtures. (Russian summary) 91f:68188
- Hansson, Othar (with Holt, Gerhard; Mayer, Andrew) Toward the modeling, evaluation and optimization of search algorithms. (see 91h:68014)
- Herrera, J. A. see Cockett, J. R. B., 91j:68118
- Hodgson, J. P. E. Automatic generation of heuristics. (see 91g:68007)
- Holt, Gerhard see Hansson, Othar; et al., (91h:68014)
- Huynh, Tien (with Joskowicz, Leo; Lassez, Catherine; Lassez, Jean-Louis) Reasoning about linear constraints using parametric queries. 91h:68119
- Joskowicz, Leo see Huynh, Tien; et al., 91h:68119
- Kanai, Laveen N. see Bhatnagar, Raj K., (91h:68014)
- Kanovich, M. I. Monadic Horn bases of knowledge in expert systems. 91k:68170
- Koval', V. N. ★ Элементы математического аппарата анализа процессов. (Russian) [Elements of a mathematical apparatus for the analysis of processes] 91h:68157
- Laury, J.-M. (with Morel, J.-M.; Solimini, Sergio) On knowledge games. (Spanish summary) 91h:68158
- Lassez, Catherine see Huynh, Tien; et al., 91h:68119
- Lassez, Jean-Louis see Huynh, Tien; et al., 91h:68119
- Li, Li Wu (with Marsland, T. A.) Probability-based game tree pruning. 91d:68109
- Lisoněk, Petr Heuristic search algorithms on directed trees. (Russian and Czech summaries) 91a:68246
- Marsland, T. A. see Li, Li Wu, 91d:68109
- Mayer, Andrew see Hansson, Othar; et al., (91h:68014)
- Mitenkova, E. F. Production system for description of standard behavior of members of a small group. (Not in MR)
- Morel, J.-M. see Laury, J.-M.; et al., 91h:68158
- Neapolitan, Richard E. The principle of interval constraints: a generalization of the symmetric Dirichlet distribution. (Not in MR)
- Nezhopurenko, M. I. An estimate for indeterminacy in procedures of logical inference. (Russian) (see 91e:68009)
- Nummenmaa, Jyrki (with Thanisch, Peter) Conjectures and refutations in database design and dependency theory. (see 91h:68010)
- Pevac, Irena A heuristic approach in artificial intelligence. (Serbo-Croatian. English summary) (see 91k:68169)
- Pijls, Wim (with de Bruin, Arie) Another view on the SSS* algorithm. (see 91g:68002)
- Ratner, Daniel (with Warmuth, Manfred K.) The $(n^2 - 1)$ -puzzle and related relocation problems. 91f:68138
- Sakamoto, Akio see Shimamoto, Takashi, (Not in MR)
- Shimamoto, Takashi (with Sakamoto, Akio) An approach to channel routing problem using neural networks. (Not in MR)
- Solimini, Sergio see Laury, J.-M.; et al., 91h:68158
- Thanisch, Peter see Nummenmaa, Jyrki, (91h:68010)
- Warmuth, Manfred K. see Ratner, Daniel, 91f:68138
- Weld, Daniel S. Exaggeration. 91g:68146
- Zhang, Wei Xiong A note on the efficiency of weighting techniques in heuristic search. (Chinese) (Not in MR)
- Items with secondary classifications in 68T20
- Agodi, Attilio Language theory and expert systems. (Not in MR)
- Althöfer, Ingo The complexity of a simple stochastic OR-tree model in which "directional search" is bad. 91m:68072
- Ausiello, Giorgio (with Nanni, Umberto; Italiano, Giuseppe F.) Dynamic maintenance of directed hypergraphs. 91g:68130
- Bibel, W. Short proofs of the pigeonhole formulas based on the connection method. 91k:68167
- Bludov, V. V. (with Pantelev, V. I.; Khamov, E. V.) Automation of studies of combinatorial group theory using a computer. (Russian) 91k:20038
- Bourgine, Paul A logical approach to problem representation. (Not in MR)
- Brown, Donald E. see Operations research and artificial intelligence: the integration of problem-solving strategies, 91h:68014
- Dechter, Rina Decomposing a relation into a tree of binary relations. 91m:68030
- Dershowitz, Nachum Completion and its applications. 91h:68097
- Fitting, Melvin ★ First-order logic and automated theorem proving. 91f:68183
- Italiano, Giuseppe F. see Ausiello, Giorgio; et al., 91g:68130
- Kean, Alex (with Talakis, George) An incremental method for generating prime implicates/implicants. 91h:68071
- Khamov, E. V. see Bludov, V. V.; et al., 91k:20038
- Kinber, Elm B. Syntactical inductive synthesis of iterative programs. (Russian summary) 91k:68023
- (Kirschner, Claude) see Unification, 91f:68006
- Kramosil, I. Hierarchies of parallel probabilistic searching algorithms with possible data access conflicts. (Russian summary) 91a:68114
- Ligeza, Antoni Dynamic backward reasoning systems. 91f:68193
- Nanni, Umberto see Ausiello, Giorgio; et al., 91g:68130
- Paas, Gerhard Probabilistic logic. (see 91h:68162)
- Pantelev, V. I. see Bludov, V. V.; et al., 91k:20038
- Sierocki, Ireneusz A description of a set of hypotheses for system identification problem. 91c:93029
- Smets, Philippe Belief functions. (see 91h:68162)
- Talakis, George see Kean, Alex, 91h:68071
- (White, Chelsea C., III) see Operations research and artificial intelligence: the integration of problem-solving strategies, 91h:68014
- Items listed otherwise than by author
- Operations research and artificial intelligence: the integration of problem-solving strategies ★ Operations research and artificial intelligence: the integration of problem-solving strategies. 91h:68014
- Unification ★ Unification. 91f:68006

68T25 AI languages

- Alba, Akira² see Sakai, Kō, 91h:68108
- Apt, Krzysztof R. (with Bol, Roland N.; Klop, Jan Willem) On the safe termination of PROLOG programs. 91a:68247
- Barbuti, Roberto (with Martelli, Maurizio) Recognizing nonfloundering logic programs and goals. (Not in MR)
- (with Mancarella, Paolo; Pedreschi, Dino; Turini, Franco) A transformational approach to negation in logic programming. 91d:68110
- Batarekh, Aida Fixpoint techniques for nonmonotone maps. (see 91g:68001)
- Bittencourt, Guilherme The integration of terminological and logical knowledge representation languages. (see 91k:68014)
- Bol, Roland N. see Apt, Krzysztof R.; et al., 91a:68247
- Cavedon, Lawrence Continuity, consistency, and completeness properties for logic programs. 91a:68248
- Chan, Kwok Hung Equivalent logic programs. (Not in MR)
- Chomicki, Jan (with Subrahmanian, V. S.) Generalized closed world assumption is Π_2^1 -complete. 91g:68147
- Debart, Françoise (with Enjalbert, Patrice; Lescot, Madeleine) Multi-modal logic programming using equational and order-sorted logic. (see 91g:68001)
- Debray, Saumya K. (with Warren, David S.) Towards banishing the cut from Prolog. (Not in MR)
- Demo, Barbara (with Porta, Marisa; Sapino, Maria Luisa) Efficiency and completeness properties of the counting method. (Russian summary) 91a:68249
- Demopoulos, William The homogeneous form of logic programs with equality. 91f:68189
- Enjalbert, Patrice see Debart, Françoise; et al., (91g:68001)
- Falaschi, Moreno (with Levi, Giorgio; Palamidessi, Catuscia; Martelli, Maurizio) Declarative modeling of the operational behavior of logic languages. 91d:68111
- Gardarin, Georges (with Guessarian, Irène; de Maistreville, Christophe) Translation of logic programs into functional fixpoint equations. 91d:68111
- Grabowski, Jan Grundlagen der logischen Programmierung. [Foundations of logic programming] (see 91f:68002)
- Guessarian, Irène see Gardarin, Georges; et al., 91d:68111
- Hölldobler, Steffen ★ Foundations of equational logic programming. 91e:68131
- Hric, Jan see Ochotka, Vít; et al., 91a:68250
- Jäger, Gerhard Annotations on the consistency of the closed world assumption. 91d:68112
- Between constructive mathematics and PROLOG. 91m:68155
- Kanchanasut, Kanchana see Phan Minh Dung, 91d:68113
- Klop, Jan Willem see Apt, Krzysztof R.; et al., 91a:68247

- Kunen, Kenneth Signed data dependencies in logic programs. 91f:68190
- Lescot, Madeleine *see* Debarb, François; et al., 91f:68001
- Levi, Giorgio *see* Falaschi, Moreno; et al., 91f:68130
- Lu, James J. (with Subrahmanian, V. S.) Protected completions of first-order general logic programs. 91h:68159
- de Maistreville, Christophe *see* Gardarin, Georges; et al., 91d:68111
- Mancarella, Paolo *see* Barbuti, Roberto; et al., 91d:68110
- Martelli, Maurizio *see* Falaschi, Moreno; et al., 91e:68130 and Barbuti, Roberto, (Not in MR)
- Mikhailov, V. Yu. (with Zamov, N. K.) Deductive synthesis of solutions for technological tasks. 91f:68191
- Minker, Jack (with Rajasekar, Arcot) A fixpoint semantics for disjunctive logic programs. 91e:68132
- Mints, Grigoriĭ Efremovich (with Tyugu, E. H.) Propositional logic programming and the PRIZ system. 91e:68133
- Ochozka, Vít (with Štěpánková, Olga; Štěpánek, Petr; Hric, Jan) Normal forms and the complexity of computations of logic programs. 91a:68250
- Palamidessi, Catuscia Algebraic properties of idempotent substitutions. (see 91e:68004)
- *see also* Falaschi, Moreno; et al., 91e:68130
- Payne, T. H. *see* Wakayama, Toshiro, (91g:68004)
- Pedreschi, Dino *see* Barbuti, Roberto; et al., 91d:68110
- Phan Minh Dung (with Kanchanasut, Kanchana) A natural semantics for logic programs with negation. 91d:68113
- Pflüger, Lutz Predicate inequalities as a basis for automated termination proofs for Prolog programs. 91a:68251
- Porta, Marisa *see* Demo, Barbara; et al., 91a:68249
- Rajasekar, Arcot *see* Minker, Jack, 91e:68132
- Sacks, Gerald E. Prolog programming. (see 91e:03006)
- Sakai, Kō (with Aiba, Akira) CAL: a theoretical background of constraint logic programming and its applications. 91b:68108
- Sapino, Maria Luisa *see* Demo, Barbara; et al., 91a:68249
- Štěpánek, Petr *see* Ochozka, Vít; et al., 91a:68250
- Štěpánková, Olga *see* Ochozka, Vít; et al., 91a:68250
- Subrahmanian, V. S. A ring-theoretic basis for logic programming. 91e:68134
- Errata: "A ring-theoretic basis for logic programming" [Internat. J. Found. Comput. Sci. 1 (1990), no. 1, 23–48; MR 91c:68134]. (Not in MR)
- *see also* Chomici, Jan, 91g:68147 and Lu, James J., 91h:68159
- Taghva, Kazem (with Wu, Tian-Zheng) On the equivalence of a class of purely exponential logic queries to linear queries. 91b:68109
- Turini, Franco *see* Barbuti, Roberto; et al., 91d:68110
- Tyugu, E. H. *see* Mints, Grigoriĭ Efremovich, 91e:68133
- Wakayama, Toshiro (with Payne, T. H.) Case-free programs: An abstraction of definite Horn programs. (see 91g:68004)
- Warren, David S. *see* Debray, Saumya K., (Not in MR)
- Wu, Tian-Zheng *see* Taghva, Kazem, 91b:68109
- Yamasaki, Susumu Recursion equation sets computing logic programs. 91j:68120
- Yao, Jia-Hual *see* Yuan, Li-Yan, 91j:68121
- Yuan, Li-Yan (with Yao, Jia-Hual) Discriminant circumscription. 91j:68121
- Zamov, N. K. *see* Mikhailov, V. Yu., 91f:68191
- Items with secondary classifications in 68T25
- (Abramson, Harvey) *see* Meta-programming in logic programming. 91b:68008
- Asperti, Andrea (with Martini, Simone) Projections instead of variables: a category-theoretic interpretation of logic programs. 91b:68069
- Bagai, Rajiv (with Bezem, Marc; van Emden, M. H.) On downward closure ordinals of logic programs. 91f:68112
- de Bakker, J. W. (with Kok, Joost N.) Comparative metric semantics for concurrent Prolog. 91k:68117
- Bancilhon, François *see* Beeri, Catriel; et al., 91f:68014
- Beeri, Catriel (with Kanellakis, Paris C.; Bancilhon, François; Ramakrishnan, Raghu) Bounds on the propagation of selection into logic problems. 91f:68014
- Bezem, Marc *see* Bagai, Rajiv; et al., 91f:68112
- Billaud, Michel Simple operational and denotational semantics for Prolog with cut. 91e:68102
- Blair, Howard A. (with Subrahmanian, V. S.) Paraconsistent logic programming. 91a:03058
- Bronsard, François (with Reddy, Uday S.) Axiomatization of a functional logic language. (see 91g:68001)
- Cavedon, Lawrence (with Lloyd, J. W.) A completeness theorem for SLDNF resolution. 91e:68128
- Convent, Bernhard Deciding finiteness, groundness and domain independence of pure datalog queries. (German and Russian summaries) 91a:68046
- Corradini, Andrea (with Montanari, Ugo) Towards a process semantics in the logic programming style. 91g:68104
- Echahed, Rachid On completeness of narrowing strategies. 91k:68156
- van Emden, M. H. *see* Bagai, Rajiv; et al., 91f:68112
- Felty, Amy (with Miller, Dale A.) Encoding a dependent-type λ -calculus in a logic programming language. (see 91g:68004)
- Fine, Kit The justification of negation as failure. 91a:03060
- (Finn, V. K.) *see* Information science, 91k:68009
- Gabbriellini, Maurizio (with Levi, Giorgio) Unfolding and fixpoint semantics of concurrent constraint logic programs. (see 91g:68001)
- Habasiński, Zdzisław Solving generalized equations over infinite trees. (German and Russian summaries) 91b:68102
- Haniuda, Hiromi *see* Miyazaki, Nobuyoshi; et al., 91b:68105
- Itoh, Hidenori *see* Miyazaki, Nobuyoshi; et al., 91b:68105
- Kanchanasut, Kanchana (with Stuckey, Peter) Eliminating negation from normal logic programs. (see 91g:68001)
- Kanellakis, Paris C. *see* Beeri, Catriel; et al., 91f:68014
- Kasymov, N. Kh. Finite approximability of quasi-Herbrand models. (Russian) 91a:03067

- Kok, Joost N. *see* de Bakker, J. W., 91k:68117
- Levi, Giorgio *see* Gabbriellini, Maurizio, (91g:68001)
- Lloyd, J. W. *see* Cavedon, Lawrence, 91e:68128
- Lobo, Jorge (with Minker, Jack; Rajasekar, Arcot) Extending the semantics of logic programs to disjunctive logic programs. 91a:68181
- Lagiez, D. A deduction procedure for first order programs. 91a:68237
- Martini, Simone *see* Asperti, Andrea, 91b:68069
- Mayr, Ernst W. Small proof trees and efficient parallel algorithms. 91f:68074
- Miller, Dale A. *see* Felty, Amy, (91g:68004)
- Minker, Jack *see* Lobo, Jorge; et al., 91a:68181
- Miyazaki, Nobuyoshi (with Yokota, Kazumasa; Haniuda, Hiromi; Itoh, Hidenori) Horn clause transformation by restrictor in deductive databases. 91b:68105
- Montanari, Ugo *see* Corradini, Andrea, 91g:68104
- Nait Abdallah, M.-A. A logico-algebraic approach to the model theory of knowledge. 91a:68253
- Narain, Sanjal Optimization by nondeterministic, lazy rewriting. (see 91f:68006)
- Palamidessi, Catuscia On the declarative semantics of Horn clause logic-based languages. 91e:68107
- Phan Minh Dung On the strong completion of logic programs. (see 91g:68001)
- Pflüger, Lutz * Termination proofs for logic programs. 91k:68026
- Przymusińska, Halina (with Przymusiński, Teodor C.) Semantic issues in deductive databases and logic programs. (see 91g:68007)
- Przymusiński, Teodor C. *see* Przymusińska, Halina, (91g:68007)
- Rajasekar, Arcot *see* Lobo, Jorge; et al., 91a:68181
- Ramakrishnan, Raghu *see* Beeri, Catriel; et al., 91f:68014
- Ramanujam, R. Semantics of distributed definite clause programs. 91f:68053
- Reddy, Uday S. *see* Bronsard, François, (91g:68001)
- (Rogers, M. H.) *see* Meta-programming in logic programming, 91b:68008
- Sacch, Domenico (with Zaniolo, Carlo) Rule transformation methods in the implementation of logic based languages. (see 91b:68009)
- Sato, Taisuke (with Tamaki, Hisao) First order compiler: a deterministic logic program synthesis algorithm. (Not in MR)
- An equivalence preserving first order unfold/fold transformation system. (see 91g:68001)
- Signal, Ron Logic programming extensions of Horn clause logic. (Not in MR)
- Stärk, Robert F. A quantifier-free completion of logic programs. (see 91g:03006)
- Štěpánek, Petr *see* Štěpánková, Olga, (91g:03006)
- Štěpánková, Olga (with Štěpánek, Petr) Stratification of definite clause programs and of general logic programs. (see 91g:03006)
- Stuckey, Peter *see* Kanchanasut, Kanchana, (91g:68001)
- Subrahmanian, V. S. Algebraic properties of the space of multivalued and paraconsistent logic programs. 91c:68110
- *see also* Blair, Howard A., 91a:03058
- Tamaki, Hisao *see* Sato, Taisuke, (Not in MR)
- Tarver, Mark An examination of the Prolog technology theorem-prover. (see 91g:68004)
- Van Hentenryck, Pascal * Constraint satisfaction in logic programming. 91f:68015
- de Vink, E. P. Comparative semantics for PROLOG with cut. 91f:68016
- Volger, Hugo The semantics of disjunctive deductive databases. (see 91g:03006)
- Yokota, Kazumasa *see* Miyazaki, Nobuyoshi; et al., 91b:68105
- Zaniolo, Carlo *see* Sacch, Domenico, (91b:68009)

Items listed otherwise than by author

- Bristol * Meta-programming in logic programming. 91b:68008
- Information science * Информатика. Том 15. (Russian) [Information science. Vol. 15] 91k:68009
- Izgi Naşık i Tekhniki * Информатика. Том 15. (Russian) [Information science. Vol. 15] 91k:68009
- Meta-programming in logic programming * Meta-programming in logic programming. 91b:68008
- Works by: Meta-Programming in Logic Programming * Meta-programming in logic programming. 91b:68008

68T27 AI logics

- Aoki, Takafumi *see* Kameyama, Michitaka; et al., 91j:68122
- Asher, Nicholas M. Discourse representation theory and belief dynamics. (see 91k:68010)
- Bai, Jia Qiu Logical fundamentals of expert systems. (Chinese. English summary) (Not in MR)
- Bell, Colin E. *see* Post, Stephen D., (91b:68014)
- Bell, John The logic of nonmonotonicity. 91e:68135
- Bessard, Philippe * An introduction to default logic. 91m:68156
- Brewka, Gerhard Belief revision in a framework for default reasoning. (see 91k:68010)
- Chen, Jianhua The orderedness and the extensions of a seminormal default theory. (see 91k:68014)
- *see also* Kundu, Sakhamay, (91k:68014)
- Doherty, Patrick Preliminary report: NM3—a three-valued nonmonotonic formalism. (see 91k:68014)
- Dong, Fangqing (with Nakagawa, Hiroshi) Semantics of nonmonotonic reasoning based on perfect model. (see 91k:68011)
- Dural, Béatrice Abduction for explanation-based learning. (see 91k:68013)
- Eddy, William F. Approximating belief functions in a rule-based system. (Not in MR)
- Gabbay, D. M. (with Hodkinson, I. M.; Hunter, Anthony) Using the temporal logic RDL for design specifications. (see 91k:68004)
- Gärdenfors, Peter (with Lindström, Sten; Morreau, Michael; Rabinowicz, Włodzimierz) The negative Ramsey test: another triviality result. (see 91k:68010)
- *see also* Makinson, David, (91k:68010)
- Gelfond, Michael (with Przymusińska, Halina) Formalization of inheritance reasoning in autoepistemic logic. 91k:68171
- Ginsberg, Matthew L. A circumscriptive theorem prover. 91f:68139

- Giordano, Laura (with Martelli, Alberto) Three-valued labellings for truth maintenance systems. (see 91k:68014)
- Hájek, Petr (with Valdes, Julio J.) Algebraic foundations of uncertainty processing in rule-based expert systems (group-theoretic approach). (Russian summary) 91k:68140
- Higuchi, Tatsuo see Kameyama, Michitaka; et al., 91k:68122
- Hodkinson, I. M. see Gabbay, D. M.; et al., (91k:68004)
- Hunter, Anthony see Gabbay, D. M.; et al., (91k:68004)
- Jaspars, Jan Theoretical circumscription in partial modal logic. (see 91k:68012)
- Kameyama, Michitaka (with Aoki, Takafumi; Higuchi, Tatsuo) Design of a highly parallel ultrahigher-valued logic network based on a bio-device model. 91k:68122
- Kandel, Abraham see Oh, Kyung-Whan, (Not in MR)
- Kautz, Henry A. see Selman, Bart, 91k:68141
- Kundu, Sukhamay (with Chen, Jianhua) A new and simple method for explicit computation of a circumscription. (see 91k:68014)
- Kuzichev, A. S. Paraconsistent intelligent systems of computer logics. (Not in MR)
- Lehner, Paul E. Probabilities and reasoning about possibilities. 91k:68172
- Lifschitz, Vladimir Frames in the space of situations. 91k:68173
- Lindström, Sten (with Rabinowicz, Włodzimierz) Epistemic entrenchment with incompatibilities and relational belief revision. (see 91k:68010)
- see also Gärdenfors, Peter; et al., (91k:68010)
- Maida, Anthony see Walner, Jacques, (91k:68014)
- Makinson, David (with Gärdenfors, Peter) Relations between the logic of theory change and nonmonotonic logic. (see 91k:68010)
- (with Schlechta, Karl) Floating conclusions and zombie paths: two deep difficulties in the "directly skeptical" approach to defeasible inheritance nets. (Not in MR)
- Marek, Wiktor see Zhang, Aijong, 91m:68157
- Martelli, Alberto see Giordano, Laura, (91k:68014)
- Morreau, Michael see Gärdenfors, Peter; et al., (91k:68010)
- Nakagawa, Hiroshi see Dong, Fangqing, (91k:68011)
- Oh, Kyung-Whan (with Kandel, Abraham) A general purpose fuzzy inference mechanism based on compilation. (Not in MR)
- Post, Stephen D. (with Bell, Colin E.) Default reasoning through integer linear programming. (see 91k:68014)
- Przymusińska, Halina see Gelfond, Michael, 91k:68171
- Rabinowicz, Włodzimierz see Lindström, Sten, (91k:68010) and Gärdenfors, Peter; et al., (91k:68010)
- Rönquist, Ralph A logic for propagation based characterisation of process behaviour. (see 91k:68014)
- Rott, Hans A nonmonotonic conditional logic for belief revision. I. Semantics and logic of simple conditionals. (see 91k:68010)
- Schlechta, Karl Some results on theory revision. (see 91k:68010)
- see also Makinson, David, (Not in MR)
- Schulz, Klaus U. Preferential cumulative reasoning and nonmonotonic semantic nets. (see 91k:68010)
- Schumm, David A. On the marshalling of evidence and the structuring of argument. (see 91k:68014)
- Selman, Bart (with Kautz, Henry A.) Model-preference default theories. 91k:68141
- Shenoy, Prakash P. Valuation-based systems for propositional logic. (see 91k:68014)
- Skowron, Andrzej The rough sets theory and evidence theory. 91k:68174
- Valdes, Julio J. see Hájek, Petr, 91k:68140
- Walner, Jacques (with Maida, Anthony) Uses of nonmonotonic logic in natural language understanding: implicatures. (see 91k:68014)
- Yamaguchi, Jinsai The classification and boundary problem. (see 91k:68011)
- Zhang, Aijong (with Marek, Wiktor) On the classification and existence of structures in default logic. 91m:68157

Items with secondary classifications in 68T27

- Barkaoui, K. see Minoux, M., 91m:68140
- van Benthem, Johan Semantic parallels in natural language and computation. 91k:03075
- Chakraborty, M. K. Use of fuzzy set theory in introducing graded consequence in multiple valued logic. 91k:03035
- Chen, Jianhua see Kundu, Sukhamay, (91k:68003)
- (Dubois, Didier) see Nonstandard logics for automated reasoning, 91k:68162
- (van Eljik, J.) see Logics in AI, 91k:68012
- Elkan, Charles A rational reconstruction of nonmonotonic truth maintenance systems. 91k:68192
- Fagin, Ronald (with Halpern, Joseph Y.; Megiddo, Nimrod) A logic for reasoning about probabilities. 91f:63038
- (Finn, V. K.) see Information science, 91k:68009
- Fuhrmann, André On the modal logic of theory change. (see 91k:68010)
- see also Logic of theory change, 91k:68010
- Garsen, James Modularity and relevant logic. 91g:03041
- Guggenheimer, Heinrich W. Limit theorems for Dempster composition in probabilistic logic. (Russian summary) 91k:03049
- Halpern, Joseph Y. see Fagin, Ronald; et al., 91f:63038
- Hegner, Stephen J. Foundations of canonical update support for closed database views. 91k:68032
- Hoang Tien Theoretical foundation: a fuzzy reasoning method for advanced control systems and expert systems. 91c:93002
- Jäger, Gerhard Between constructive mathematics and PROLOG. 91m:68155
- Khodashinski, I. A. The pseudophysical logic of magnitude estimates. 91f:03046
- Kundu, Sukhamay (with Chen, Jianhua) Consistency of belief-sets in truth-maintenance. (see 91k:68003)
- Ma, Zhe Rui (with Wu, Wang Ming) Logical operators on complete lattices. 91h:06008
- (Mamdani, Abe) see Nonstandard logics for automated reasoning, 91k:68162
- Megiddo, Nimrod see Fagin, Ronald; et al., 91f:63038
- Minoux, M. (with Barkaoui, K.) Deadlocks and traps in Petri nets as Horn-satisfiability solutions and some related polynomially solvable problems. 91m:68140
- (Morreau, Michael) see Logic of theory change, 91k:68010

- Niederer, Reinhard Multiple contraction. A further case against Gärdenfors' principle of recovery. (see 91k:68010)
- Pearce, David (with Rautenberg, Wolfgang) Propositional logic based on the dynamics of disbelief. (see 91k:68010)
- (Pearl, Judea) see Readings in uncertain reasoning, 91j:68005
- (Prade, Henri M.) see Nonstandard logics for automated reasoning, 91k:68162
- Rautenberg, Wolfgang see Pearce, David, (91k:68010)
- (Shafer, Glenn) see Readings in uncertain reasoning, 91j:68005
- (Smets, Philippe) see Nonstandard logics for automated reasoning, 91k:68162
- Subrahmanian, V. S. Y-logic: a framework for reasoning about chameleonic programs with inconsistent completions. 91m:68125
- Sylvan, Richard Relevant containment logics and certain frame problems of AI. 91m:03022
- Wu, Wang Ming see Ma, Zhe Rui, 91h:06008
- Zheng, Fang Qing A common reasoning model and its application in knowledge-based system. (Not in MR)
- Zhou, Xiang He A review of some systems of nonmonotonic logic. (Chinese. English summary) 91h:03038

Items listed otherwise than by author

- Amsterdam ★ Logics in AI. 91k:68012
- Information science ★ Информатика. Том 15. (Russian) [Information science. Vol. 15] 91k:68009
- Itogi Nauki i Tekhniki ★ Информатика. Том 15. (Russian) [Information science. Vol. 15] 91k:68009
- Konstanx ★ The logic of theory change. 91k:68010
- Lecture Notes in Computer Science ★ The logic of theory change. 91k:68010
- ★ Logics in AI. 91k:68012
- Logic of theory change ★ The logic of theory change. 91k:68010
- Logics in AI ★ Logics in AI. 91k:68012
- Nonstandard logics for automated reasoning ★ Nonstandard logics for automated reasoning. 91k:68162
- Readings in uncertain reasoning ★ Readings in uncertain reasoning. 91j:68005
- Workshop:
- Logic of Theory Change ★ The logic of theory change. 91k:68010
- Logics in AI ★ Logics in AI. 91k:68012

68T30 Knowledge representation

- Agodi, Attilio Language theory and expert systems. (Not in MR)
- Arikawa, Setsuo see Yuasa, Hiroko, (Not in MR)
- Asher, Nicholas M. see Singh, Munindar P., (91k:68012)
- Averkin, A. N. (with Nguyen, M. Kh.) Utilizing fuzzy relations in knowledge representation modules. (Not in MR)
- Bauer, Christoph Repräsentation nicht sicheren Wissens mittels Possibility und Dempster-Shafer Theorie. Eine Einführung in die Problematik. [Representation of uncertain knowledge using possibility and Dempster-Shafer theory. An introduction to the problem] (Not in MR)
- Bergadano, F. (with Esposito, F.; Rouveirol, C.; Wrobel, S.) Evaluating and changing representation in concept acquisition. (see 91k:68013)
- Bobrovskii, Yu. A. (with Ilyunin, O. K.; Novikov, B. V.; Rapoport, A. Ya.; Sodin, M. L.) On a problem of group choice. (Not in MR)
- Bonissone, Piero P. see Sahnoun, Zaidi; et al., (Not in MR)
- Brewka, Gerhard Formalisierungen nichtmonotoner Schlußweisen. [Formalisations of nonmonotonic inference] (see 91f:68002)
- (Campbell, J. A.) see Chouraqui, Eugène, (91k:68162)
- Cattlet, J. On changing continuous attributes into ordered discrete attributes. (see 91k:68013)
- Chandrasekaran, B. (with Narayanan, N. Hari) Towards a theory of commonsense visual reasoning. 91k:68123
- Chen, Jianhua see Kundu, Sukhamay, (91k:68003)
- Chouraqui, Eugène Formal expression of time in a knowledge base. (see 91k:68162)
- Cohen, Philip R. (with Levesque, Hector J.) Intention is choice with commitment. 91k:68114
- Colijn, Luc see Verschoren, Alain; et al., 91j:68125
- Cooper, Gregory F. The computational complexity of probabilistic inference using Bayesian belief networks. 91k:68110
- Decastecker, Christine Description contrasting in incremental concept formation. (see 91k:68013)
- Delahaye, Jean-Paul see Mathieu, Philippe, (91k:68012)
- DiCesare, Frank see Sahnoun, Zaidi; et al., (Not in MR)
- Dubois, Didier (with Prade, Henri M.) Coping with uncertain knowledge—in defense of possibility and evidence theories. (Russian summary) (Not in MR)
- (with Prade, Henri M.) Consonant approximations of belief functions. 91k:68160
- (with Prade, Henri M.) The logical view of conditioning and its application to possibility and evidence theories. 91k:68142
- see also Nonstandard logics for automated reasoning, 91k:68162
- Dynkova, E. V. (with Karneeva, I. L.) Recognition algorithm models based on various methods of recoding the original information. (Russian) (see 91k:00021)
- Elkan, Charles A rational reconstruction of nonmonotonic truth maintenance systems. 91k:68192
- Esposito, F. see Bergadano, F.; et al., (91k:68013)
- Evans, James R. see Sklar, Margaret M.; et al., (91k:68014)
- (Farías del Cerro, Luis) see Jackson, Peter, (91k:68162) and Chouraqui, Eugène, (91k:68162)
- Finn, V. K. Plausible inferences and plausible arguments. (Russian) 91c:68136
- Froidevaux, Christine (with Kayser, Daniel) Inheritance in semantic networks and default logic. (see 91k:68162)
- Galton, Antony A critical examination of Allen's theory of action and time. 91k:68137
- (Gochet, Paul) see Jackson, Peter, (91k:68162)

- Grimson, W. Eric L. The combinatorics of object recognition in cluttered environments using constrained search. **91g:68148**
- Halpern, Joseph Y. (with Moses, Yoram) Knowledge and common knowledge in a distributed environment. **91m:68158**
- (van Harmelen, Frank) *see* Logic-based knowledge representation, **91k:68178**
- Horty, John F. (with Thomason, Richmond H.; Touretzky, David S.) A skeptical theory of inheritance in nonmonotonic semantic networks. (Not in MR)
- Hou, Ben-Hui (with Togashi, Atsushi; Noguchi, Shoichi) A partial translation of default logic to circumscription. **91h:68111**
- Hrycej, Tomasz Gibbs sampling in Bayesian networks. **91j:68124**
- Ilyunin, O. K. *see* Bobrovskii, Yu. A.; et al., (Not in MR)
- Jackson, Peter On game-theoretic interactions with first-order knowledge bases. (see **91h:68162**)
- *see also* Logic-based knowledge representation, **91k:68178**
- Jensen, F. V. (with Lauritzen, Steffen L.; Olesen, K. G.) Bayesian updating in causal probabilistic networks by local computations. **91k:68143**
- Jiang, Y. J. An autopoietic logical view of knowledge base. **91c:68111**
- Kandel, Abraham *see* Peng, Xian Tu; et al., **91k:68175**
- Karneeva, I. L. *see* Dyakova, E. V., (91k:09021)
- Kayser, Daniel *see* Froidevaux, Christine, (91h:68162)
- Kleyle, Robert M. *see* de Korvin, André; et al., **91g:68149**
- Kodratoff, Yves Seven hard problems in symbolic background knowledge acquisition. (see **91h:68096**)
- de Korvin, André (with Kleyle, Robert M.; Lea, R.) Uncertainty in expert systems: sets of expert decision makers and the Dempster-Shafer approach. **91g:68149**
- Kowalczyk, Wojciech Complexity of decision problems under incomplete information. **91d:68115**
- Kundu, Sukhamay (with Chen, Jianhua) Consistency of belief-sets in truth-maintenance. (see **91k:68003**)
- Kuznetsov, V. E. ★ Представление в ЭВМ неформальных процедур. (Russian) [Computer representation of nonformal procedures] **91d:68116**
- (Lakhuti, D. G.) *see* Rubashkin, V. Sh., **91h:68112**
- Lauritzen, Steffen L. (with Spiegelhalter, David J.) Local computations with probabilities on graphical structures and their application to expert systems. **91a:68252**
- *see also* Spiegelhalter, David J., **91g:68151** and Jensen, F. V.; et al., **91k:68143**
- Lea, R. *see* de Korvin, André; et al., **91g:68149**
- Levesque, Hector J. All I know: a study in autopoietic logic. **91d:68117**
- *see also* Cohen, Philip R., **91d:68114**
- Ligeza, Antoni Dynamic backward reasoning systems. **91f:68193**
- Ligozat, Gérard Intervalles généralisés. I. (English summary) [Generalized intervals. I] **91c:68112**
- (Mamdani, Abe) *see* Nonstandard logics for automated reasoning, **91h:68162**
- Marek, Wiktor Stable theories in autopoietic logic. **91c:68113**
- (with Truszczyński, Mirosław) Negation as failure to prove and fixed points. **91c:68114**
- Mathieu, Philippe (with Delahaye, Jean-Paul) The logical compilation of knowledge bases. (see **91k:68012**)
- Meyer, J.-J. Ch. Formal methods in knowledge representation. **91e:68138**
- Mignoux, A. L. The use of intensional logic models in the description and supplementation of knowledge. (Not in MR)
- (Moore, Robert C.) *see* Jackson, Peter, (91h:68162)
- Moseichuk, O. V. *see* Perekhod, I. A., (91c:09011)
- Moses, Yoram *see* Halpern, Joseph Y., **91m:68158**
- Moulet, M. Using accuracy in scientific discovery. (see **91k:68013**)
- Nait Abdallah, M.-A. A logico-algebraic approach to the model theory of knowledge. **91a:68253**
- Narayanan, N. Hari *see* Chandrasekaran, B., **91j:68123**
- Neapolitan, Richard E. ★ Probabilistic reasoning in expert systems. **91f:68144**
- Nebel, Bernhard (with Smolka, Gert) Representation and reasoning with attributive descriptions. (see **91g:68008**)
- Terminological reasoning is inherently intractable. **91f:68194**
- Nguyen, M. Kh. *see* Averkin, A. N., (Not in MR)
- Nissenhoim, L. B. Modelling of deductions based on the algebraic apparatus of intensional relations. (Not in MR)
- The use of intensional and semantic relationships in the description of knowledge. (Not in MR)
- An algebraic method of inference in semantic nets. (Russian summary) **91g:68150**
- Noguchi, Shoichi *see* Hou, Ben-Hui; et al., **91h:68111**
- Nökel, Klaus (with Richter, Michael M.) Modern trends in knowledge representation and expert system technology. (Not in MR)
- Novikov, B. V. *see* Bobrovskii, Yu. A.; et al., (Not in MR)
- O'Leary, Daniel E. Measuring and managing complexity in knowledge-based systems: a network and mathematical programming approach. (see **91h:68014**)
- Olesen, K. G. *see* Jensen, F. V.; et al., **91k:68143**
- Orponen, Pekka Dempster's rule of combination is #P-complete. **91h:68161**
- Ospov, G. S. A method for forming and structuring knowledge models for one type of object space. (Not in MR)
- Paris, Jeff B. (with Vencovská, A.) Inexact and inductive reasoning. **91c:68115**
- Patel-Schneider, Peter F. A decidable first-order logic for knowledge representation. **91m:68159**
- Pearl, Judea Reasoning with belief functions: an analysis of compatibility. (Not in MR)
- Peng, Xian Tu (with Kandel, Abraham; Wang, Pei Zhuang) Concepts, rules, and fuzzy reasoning: a factor space approach. **91k:68175**
- Perekhod, I. A. (with Moseichuk, O. V.) Representation of knowledge in a problem of designing solid bodies. (Russian) (see **91c:09011**)
- Pick, Roger Alan *see* Sklar, Margaret M.; et al., (91h:68014)
- Pöhlmann, Sigrid *see* Weichselberger, Kurt, **91g:68152**
- (Pospelov, D. A.) *see* Kuznetsov, V. E., **91d:68116**
- Prade, Henri M. *see* Dubois, Didier, **91h:68160**; **91h:68142**; (Not in MR) and Nonstandard logics for automated reasoning, **91h:68162**
- Provan, Gregory M. A logic-based analysis of Dempster-Shafer theory. **91h:68145**
- Rahman, Saifur *see* Shrestha, Govinda, (Not in MR)
- Rapoport, A. Ya. *see* Bobrovskii, Yu. A.; et al., (Not in MR)
- (Reichgelt, Han) *see* Logic-based knowledge representation, **91k:68178**
- Richter, Michael M. *see* Nökel, Klaus, (Not in MR)
- Ros', A. A. (with Yashnev, Yu. V.) Invariance conditions for the relation of implication under mappings of implicative systems. **91k:68176**
- Rouveiroi, C. *see* Bergadano, F.; et al., (91k:68013)
- Rubashkin, V. Sh. ★ Представление и анализ смысла в интеллектуальных информационных системах. (Russian) [Representation and analysis of meaning in intelligent information systems] **91h:68112**
- Sahnoun, Zaidi (with DiCesare, Frank; Bonissone, Piero P.) Efficient methods for computing linguistic consistency. (Not in MR)
- Sakai, Hiroshi Completeness of diamond-resolution in OR-type knowledge bases. (Not in MR)
- Sato, Taisuke Completed logic programs and their consistency. (Not in MR)
- Schaffer, Cullen When does overfitting decrease prediction accuracy in induced decision trees and rule sets? (see **91k:68013**)
- Shafer, Glenn Perspectives on the theory and practice of belief functions. (Not in MR)
- Shepherdson, John C. A sound and complete semantics for a version of negation as failure. **91k:68177**
- Shrestha, Govinda (with Rahman, Saifur) A statistical representation of imprecision in expert judgments. (Not in MR)
- Singh, Munindar P. (with Asher, Nicholas M.) Towards a formal theory of intentions. (see **91k:68012**)
- Sklar, Margaret M. (with Pick, Roger Alan; Vesprani, G. Brian; Evans, James R.) Eliciting knowledge representation schema for linear programming formulation. (see **91h:68014**)
- (Smets, Philippe) *see* Nonstandard logics for automated reasoning, **91h:68162**
- Smolka, Gert *see* Nebel, Bernhard, (91g:68008)
- Sodin, M. L. *see* Bobrovskii, Yu. A.; et al., (Not in MR)
- Spiegelhalter, David J. (with Lauritzen, Steffen L.) Sequential updating of conditional probabilities on directed graphical structures. **91g:68151**
- *see also* Lauritzen, Steffen L., **91a:68252**
- Tepand, Jaak Testing the knowledge base of a production system against a criterion of covering the operators. (Not in MR)
- (Testemale, Claudette) *see* Chouraqui, Eugène, (91h:68162)
- Thomason, Richmond H. *see* Horty, John F.; et al., (Not in MR)
- Togashi, Atsushi *see* Hou, Ben-Hui; et al., **91h:68111**
- Touretzky, David S. *see* Horty, John F.; et al., (Not in MR)
- Truszczyński, Mirosław *see* Marek, Wiktor, **91c:68114**
- Valtorta, Marco Some results on the computational complexity of refining confidence factors. (Not in MR)
- Vencovská, A. *see* Paris, Jeff B., **91c:68115**
- Vermeir, Dirk *see* Verschoren, Alain; et al., **91j:68125**
- Verschoren, Alain (with Vermeir, Dirk; Colijn, Luc) A category-theoretic framework for knowledge and learning. **91j:68125**
- Vesprani, G. Brian *see* Sklar, Margaret M.; et al., (91h:68014)
- Wagner, Carl G. Consensus for belief functions and related uncertainty measures. **91f:68195**
- Wallace, C. S. Classification by minimum-message-length inference. (see **91m:68002**)
- Wang, Pei Zhuang *see* Peng, Xian Tu; et al., **91k:68175**
- Weichselberger, Kurt (with Pöhlmann, Sigrid) ★ A methodology for uncertainty in knowledge-based systems. **91g:68152**
- Wellman, Michael P. Fundamental concepts of qualitative probabilistic networks. **91f:68196**
- Witteveen, Cees Partial semantics for truth maintenance: a compositional approach. (see **91k:68012**)
- Wrobel, S. *see* Bergadano, F.; et al., (91k:68013)
- Yager, Ronald R. On the associations between variables in expert systems including default relations. (Not in MR)
- Yashnev, Yu. V. *see* Ros', A. A., **91k:68176**
- Yuasa, Hiroko (with Arikawa, Setsuo) Pseudo extension and belief revision in default reasoning. (Not in MR)
- Yudin, A. D. Systems of knowledge synthesis. (Not in MR)
- Items listed otherwise than by author
- Logic-based knowledge representation ★ Logic-based knowledge representation. **91k:68178**
- Nonstandard logics for automated reasoning ★ Nonstandard logics for automated reasoning. **91h:68162**
- Items with secondary classifications in 68T30
- Bell, John The logic of nonmonotonicity. **91e:68135**
- Bessard, Philippe (with Siegel, Pierre) The preferential-models approach to nonmonotonic logics. (see **91h:68162**)
- Bilsham, A. F. Comparative analysis of methods of measuring fuzziness. (Not in MR)
- Buckles, Bill P. (with Petry, Frederick E.; Pillai, Jayadev) Network data models for representation of uncertainty. (Not in MR)
- (Campbell, J. A.) *see* Clarke, Michael R. B., (91h:68162)
- Chiang, Wei-ling *see* Dong, Wei Min; et al., **91f:68037**
- Clarke, Michael R. B. (with Gabbay, D. M.) An intuitionistic basis for nonmonotonic reasoning. (see **91h:68162**)
- (Cordier, Marie-Odile) *see* Dubois, Didier, (91h:68162)
- Dantsin, E. Ya. Algorithms for probabilistic inference. (see **91e:68004**)
- Dong, Wei Min (with Chiang, Wei-ling; Wong, Felix S.) Fusion of probabilistic evidence. **91f:68037**
- Dubois, Didier (with Prade, Henri M.) An introduction to possibilistic and fuzzy logics. (see **91h:68162**)
- (with Prade, Henri M.) Measuring properties of fuzzy sets: a general technique and its use in fuzzy query evaluation. **91h:68096**
- Dužl, Marie (with Materna, Pavel) Attributes: distinguishing capability versus informational capability. (Russian summary) **91f:68032**

- (van Eijck, J.) *see* Logics in AI, 91k:68012
- Emerson, E. Allen (with Srinivasan, Jai) Branching time temporal logic. 91a:03030
- (Fargues, Jean) *see* Fariñas del Cerro, Luis, (91h:68162)
- Fariñas del Cerro, Luis (with Herzig, Andreas) An automated modal logic of elementary changes. (see 91h:68162)
- Fine, K. The justification of negation as failure. 91a:03060
- (Froidevaux, Christine) *see* Besnard, Philippe, (91h:68162)
- (Frolova, A. B.) *see* Nilaihto, Ilkka, 91k:03010
- Gabbay, D. M. *see* Clarke, Michael R. B., (91h:68162)
- (Gochet, Paul) *see* Dubois, Didier, (91h:68162)
- Grim, J. Probabilistic expert systems and distribution mixtures. (Russian summary) 91f:68188
- Halpern, Joseph Y. (with Vardi, Moshe Y.) The complexity of reasoning about knowledge and time. I. Lower bounds. 91f:68146
- Han, Jian Chao (with Shi, Zhong Zhi) Formalizing default reasoning. (Not in MR)
- Herzig, Andreas *see* Fariñas del Cerro, Luis, (91h:68162)
- Huang, Zhiheng (with Kwast, Karen) Awareness, negation and logical omniscience. 91m:03015
- Iwata, Shigenori *see* Nishihara, Noritaka; et al., 91i:03018
- Jäger, Gerhard Nonmonotonic reasoning by axiomatic extensions. 91a:03053
- Jaspers, Jan Theoretical circumscription in partial modal logic. (see 91k:68012)
- Kasif, Simon On the parallel complexity of discrete relaxation in constraint satisfaction networks. 91h:68078
- Krynicki, Michal A note on rough concepts logic. 91j:03027
- Kwast, Karen *see* Huang, Zhiheng, 91m:03015
- Leuzer, Maurizio Type data bases with incomplete information. (Not in MR)
- Leviator, A. Yu. Calculus of estimates. 91f:93034
- Lucks, M. Fuzzy modelling in expert systems for process control. 91j:93059
- Makeev, S. P. Structure of transitive fuzzy relations. 91g:04004
- Marek, Wiktor *see* Zhang, Aidong, 91h:68096
- Materna, Pavel *see* Dužić, Marie, 91f:68032
- Mints, Grigoriĭ Efimovich Several formal systems of the logic programming. (Russian summary) 91d:68107
- Moore, Robert C. Autoepistemic logic. (see 91h:68162)
- Morita, Kenichi *see* Nishihara, Noritaka; et al., 91i:03018
- Moser, Louise E. A nonmonotonic logic of belief. 91a:03038
- Niemeš, Ilkka On the complexity of the decision problem in propositional nonmonotonic logic. 91c:68033
- Nilaihto, Ilkka How to define verisimilitude? 91k:03010
- Nishihara, Noritaka (with Morita, Kenichi; Iwata, Shigenori) An extended syllogistic system with verbs and proper nouns, and its completeness proof. 91i:03018
- (Oliver, R. M.) *see* Influence diagrams, belief nets and decision analysis, 91i:90007
- Orłowska, Ewa Kripke semantics for knowledge representation logics. 91k:03046
- Paas, Gerhard Probabilistic logic. (see 91h:68162)
- Petry, Frederick E. *see* Buckles, Bill P.; et al., (Not in MR)
- Pillai, Jayadev *see* Buckles, Bill P.; et al., (Not in MR)
- Prade, Henri M. *see* Dubois, Didier, 91i:04006 and (91h:68162)
- Rabinov, Arkady First order theories of quantification. 91h:68095
- Shenoy, Prakash P. On Spohn's rule for revision of beliefs. 91m:03019
- (Sheridan, Flash) *see* Besnard, Philippe, (91h:68162) and Dubois, Didier, (91h:68162)
- Shi, En Wei Some properties of the indiscernibility relation in rough sets. 91h:68152
- Shi, Zhong Zhi *see* Han, Jian Chao, (Not in MR)
- Siegel, Pierre *see* Besnard, Philippe, (91h:68162)
- Smeets, Philippe Belief functions. (see 91h:68162)
- (Smith, J. Q.) *see* Influence diagrams, belief nets and decision analysis, 91i:90007
- Srinivasan, Jai *see* Emerson, E. Allen, 91a:03030
- Stahler, Edward P., Jr. Representing knowledge with theories about theories. 91i:03032
- (Thayse, André) *see* From modal logic to deductive databases, 91h:68113
- Turner, Raymond ★ Truth and modality for knowledge representation. 91g:03047
- Vakarelov, Dimitar Modal logics for knowledge representation systems. 91a:03041
- Vardi, Moshe Y. *see* Halpern, Joseph Y., 91f:68146
- (Veltman, Frank) *see* Fariñas del Cerro, Luis, (91h:68162)
- Volger, Hugo The semantics of disjunctive deductive databases. (see 91g:03006)
- Weydert, Emil Doxastic preference logic. A new look at belief revision. (see 91k:68012)
- Wong, Felix S. *see* Dong, Wei Min; et al., 91f:03037
- Zhang, Aidong (with Marek, Wiktor) On the classification and existence of structures in default logic. 91h:68096
- Zhou, Xiang He A review of some systems of nonmonotonic logic. (Chinese. English summary) 91h:03038

Items listed otherwise than by author

- Amsterdam ★ Logics in AI. 91k:68012
- Berkeley, CA ★ Influence diagrams, belief nets and decision analysis. 91i:90007
- Conference:
 Influence Diagrams for Decision Analysis, Inference and Prediction ★ Influence diagrams, belief nets and decision analysis. 91i:90007
 From modal logic to deductive databases ★ From modal logic to deductive databases. 91h:68113
 Influence diagrams, belief nets and decision analysis ★ Influence diagrams, belief nets and decision analysis. 91i:90007
 Lecture Notes in Computer Science ★ Logics in AI. 91k:68012
 Logics in AI ★ Logics in AI. 91k:68012
 Workshop:
 Logics in AI ★ Logics in AI. 91k:68012

68T35 AI software systems (knowledge-based systems, expert systems, etc.)

- Cvetković, Dragoš M. (with Hotomaki, Petar; Kraus, Laslo; Pevac, Irena; Radosavljević, Zoran; Simić, Slobodan K.) Ten years of the development and use of the expert system

- "Graph". (Serbo-Croatian. English summary) (see 91k:68169)
- Dawes, Mike *see* Ling, Xiaofeng Charles, (91k:68014)
- Dragica, Stola The experiments with the resolution theorem provers. (Serbo-Croatian. English summary) (see 91k:68169)
- Dudewicz, Edward J. (with Taneja, Vidya S.) Heteroscedastic discriminant analysis with expert systems and NMR applications. 91i:68146
- Felty, Amy A logic program for transforming sequent proofs to natural deduction proofs. (see 91k:68007)
- Gao, De Yin Confidence propagation of the subjective Bayes method in expert systems. (Chinese) (Not in MR)
- Hotomaki, Petar *see* Cvetković, Dragoš M.; et al., (91k:68169)
- Kraus, Laslo *see* Cvetković, Dragoš M.; et al., (91k:68169)
- Ling, Xiaofeng Charles (with Dawes, Mike) Preservation of uncertainty values in theory reduction—a reason for theoretical terms. (see 91k:68014)
- Lingras, Pawan *see* Yao, Y. Y.; et al., (91k:68014)
- Pevac, Irena *see* Cvetković, Dragoš M.; et al., (91k:68169)
- Radosavljević, Zoran *see* Cvetković, Dragoš M.; et al., (91k:68169)
- Simić, Slobodan K. *see* Cvetković, Dragoš M.; et al., (91k:68169)
- Spiegelhalter, David J. Probabilistic reasoning in expert systems. (Not in MR)
- Sycara, Katia Dispute mediation: a computer model. (see 91k:68014)
- Taneja, Vidya S. *see* Dudewicz, Edward J., 91i:68146
- Wong, S. K. M. *see* Yao, Y. Y.; et al., (91k:68014)
- Yao, Y. Y. (with Wong, S. K. M.; Lingras, Pawan) A decision-theoretic rough set model. (see 91k:68014)
- Zheng, Fang Qing A common reasoning model and its application in knowledge-based system. (Not in MR)

Items with secondary classifications in 68T35

- Alekseev, A. V. *see* Borisov, A. N.; et al., 91i:90001
- Bastin, Georges *see* Haest, Marc; et al., (Not in MR)
- Borisov, A. N. (with Alekseev, A. V.; Merkurjeva, Galina V.; Slyad'z, N. N.; Glushkov, V. I.) ★ Обработка нечеткой информации в системах принятия решений. (Russian) [Processing fuzzy information in decision-making systems] 91i:90001
- (Bratko, Ivan) *see* Achievements and application of artificial intelligence, 91k:68169
- (Cvetković, Dragoš M.) *see* Achievements and application of artificial intelligence, 91k:68169
- Farquhar, Peter H. Applications of utility theory in artificial intelligence research. (see 91h:68014)
- Gevens, Michel *see* Haest, Marc; et al., (Not in MR)
- Glushkov, V. I. *see* Borisov, A. N.; et al., 91i:90001
- Gunter, Elsa L. Extensions to logic programming motivated by the construction of a generic theorem prover. (see 91k:68007)
- Haest, Marc (with Bastin, Georges; Gevens, Michel; Wertz, Vincent) ESPION: an expert system for system identification. (Not in MR)
- (Hotomaki, Petar) *see* Achievements and application of artificial intelligence, 91k:68169
- Merkurjeva, Galina V. *see* Borisov, A. N.; et al., 91i:90001
- Slyad'z, N. N. *see* Borisov, A. N.; et al., 91i:90001
- Wertz, Vincent *see* Haest, Marc; et al., (Not in MR)

Items listed otherwise than by author

- Achievements and application of artificial intelligence ★ Ostvarenja i primene veštačke inteligencije. (Serbo-Croatian) [Achievements and application of artificial intelligence] 91k:68169
- Dubrovnik ★ Ostvarenja i primene veštačke inteligencije. (Serbo-Croatian) [Achievements and application of artificial intelligence] 91k:68169
- Symposium:
 Achievements and Application of Artificial Intelligence ★ Ostvarenja i primene veštačke inteligencije. (Serbo-Croatian) [Achievements and application of artificial intelligence] 91k:68169

68T99 None of the above, but in this section

- Arakyan, V. V. The structural model of a "user-computer" interaction in cybernetic systems. (Russian) 91a:68254
- Dordan, Olivier Algorithme de simulation qualitative d'une équation différentielle sur le simplexe. (English summary) [Qualitative simulation algorithm of a differential equation on the simplex] (Not in MR)
- Kanovich, M. I. Semantics and logic of computational problems. 91f:68197
- Efficient program synthesis in computational models. 91f:68198
- Mikhailov, V. Ya. Solution of technological problems on models. 91a:68255
- Moshchenskii, V. A. (with Rolich, Ch. N.) Automation of the construction of programs from operator terms that define computable functions. (Russian) 91a:68256
- Osherson, Daniel N. (with Stob, Michael; Weinstein, Scott) New directions in automated scientific discovery. (Not in MR)
- Rolich, Ch. N. *see* Moshchenskii, V. A., 91a:68256
- Stob, Michael *see* Osherson, Daniel N.; et al., (Not in MR)
- (Thayse, André) *see* From modal logic to deductive databases, 91h:68113
- Weinstein, Scott *see* Osherson, Daniel N.; et al., (Not in MR)

Items listed otherwise than by author

- From modal logic to deductive databases ★ From modal logic to deductive databases. 91h:68113

Items with secondary classifications in 68T99

- Ankudinov, G. I. Symbol-numerical methods in problems of discrete programming with logic constraints. 91a:90136
- Buckley, James J. (with Siler, William) Fuzzy numbers for expert systems. 91b:04006
- Dubois, Didier (with Prade, Henri M.) ★ Теория возможностей. (Russian) [Possibility theory] 91k:94048
- (Gardner, Martin) *see* Penrose, Roger, 91c:00010
- Hansel, David *see* Mennier, C.; et al., 91c:92118

- Huynh, Tien (with Laszez, Catherine; Laszez, Jean-Louis) Fourier algorithm revisited. (see 91g:68001)
- Laszez, Catherine see Huynh, Tien; et al. (91g:68001)
- Laszez, Jean-Louis see Huynh, Tien; et al. (91g:68001)
- Meunier, C. (with Hansel, David; Verga, A.) Information processing in three-state neural networks. 91c:92118
- Nepeivoda, N. N. Constructive logical tools. II. Intuitionistic logic and constructive logics of program schemes. 91f:03124
- Penrose, Roger ★ The emperor's new mind. 91c:00010
- Prade, Henri M. see Dubois, Didier, 91k:94048
- Schätz, Rüdiger Delete operations and Horn formulas. 91a:68050
- Siler, William see Buckley, James J., 91b:04006
- (Tarasov, V. B.) see Dubois, Didier, 91k:94048
- Verga, A. see Meunier, C.; et al., 91c:92118
- Volger, Hugo The semantics of disjunctive deductive databases. (see 91g:03006)
- Wolpert, David H. A mathematical theory of generalization. I, II. 91f:92019
- Zimmermann, Wolf ★ Die Verwendung mehrwertiger und nicht-monotoner Logiken zur Programmkonstruktion. (German) [The use of many-valued and nonmonotonic logics in program construction] 91a:68029

68Uxx Computing methodologies

68U05 Computer graphics; computational geometry [see also 65Y25]

- Aggarwal, Alok (with Booth, Heather; O'Rourke, Joseph; Suri, Subhash; Yap, Chee-Keng) Finding minimal convex nested polygons. 91a:68258
- (with Hawrylycz, Michael) On computing the closest boundary point on the convex hull. 91a:68257
- (with Suri, Subhash) Computing the longest diagonal of a simple polygon. 91g:68153
- Alevizos, Panagiotis (with Boissonnat, Jean-Daniel; Preparata, Franco P.) An optimal algorithm for the boundary of a cell in a union of rays. 91g:68154
- d'Amore, Fabrizio (with Franciosa, Paolo Giulio) Separating sets of hyperrectangles. (see 91h:68011)
- Anagnostou, Efthymios G. (with Guibas, Leonidas J.; Polimenis, Vassilios G.) Topological sweeping in three dimensions. (see 91g:68002)
- Anderson, Richard John (with Kahan, Simon; Schlag, Martine) An $O(n \log n)$ algorithm for 1-D tile compaction. (see 91h:68006)
- Atallah, Mikhail J. (with Chen, Danny Z.) An optimal parallel algorithm for the minimum circle-cover problem. 91a:68259
- Aurenhammer, Franz A relationship between Gale transforms and Voronoi diagrams. 91k:68179
- A new duality result concerning Voronoi diagrams. 91d:68118
- Avis, David (with Robert, J.-M.; Wenger, Raphael) Lower bounds for line stabbing. 91c:68139
- (with Doskas, Mike) Algorithms for high-dimensional stabbing problems. 91d:68119
- Bajaj, Chanderjit L. (with Hoffmann, Christoph M.; Lynch, Robert E.; Hopcroft, J. E. H.) Tracing surface intersections. 91a:68260
- (with Dey, Tamal K.) Robust decompositions of polyhedra. 91d:68120
- (with Dey, Tamal K.) Polygon nesting and robustness. 91f:68199
- also see Johnstone, John K., 91f:68149
- de Berg, Mark T. Translating polygons with applications to hidden surface removal. (see 91e:68016)
- (with van Kreveld, Marc J.; Nilsson, Bengt J.; Overmars, Mark H.) Finding shortest paths in the presence of orthogonal obstacles using a combined L_1 and link metric. (see 91e:68016)
- see also van Kreveld, Marc J., 91f:68204
- Bern, Marshall Hidden surface removal for rectangles. 91e:68140
- Bhattacharya, Bhargab B. see Nandy, Subhas C.; et al., 91f:68153
- Bianchi, Gabriele (with Longinetti, M.) Reconstructing plane sets from projections. 91f:68200
- Bitner, Michael Properties and isomorphism of special discrete structures. (see 91m:68007)
- Blankenagel, Gabriele (with Güting, Ralf Hartmut) Internal and external algorithms for the points-in-regions problem—the INSIDE join of geo-relational algebra. 91c:68116
- Böhme, J. F. see Kocsis, F., (Not in MR)
- Boissonnat, Jean-Daniel (with Devillers, Olivier; Schott, René; Teillaud, Monique; Yvinec, Mariette) On-line geometric algorithms with good expected behaviours (extended abstract). (see 91k:68005)
- (with Devillers, Olivier; Teillaud, Monique) An on-line construction of higher order Voronoi diagrams and its randomized analysis. (see 91k:68005)
- see also Alevizos, Panagiotis; et al., 91g:68154 and Fangeras, O. D.; et al., (Not in MR)
- Bokowski, Jürgen (with Richter, Jürgen; Sturmfels, Bernd) Nonrealizability proofs in computational geometry. 91d:68121
- Booth, Heather see Aggarwal, Alok; et al., 91a:68258
- Boreddy, Jayaramalah (with Mukherjee, Rathindra Nath¹) An algorithm to find polygon similarity. 91c:68117
- Boxer, Laurence (with Miller, Russ) Common intersections of polygons. 91g:68155a
- (with Miller, Russ) Corrigenda: "Common intersections of polygons". 91g:68155b
- (Brooks, Michael J.) see Shape from shading, 91b:68118
- Bruckstein, A. M. see Lindenbaum, M., 91f:68152
- Buckberger, B. (with Collins, G. E.; Kutzler, B.) Algebraic methods for geometric reasoning. 91g:68156
- Burkard, Rainer E. (with Rote, Günter; Yao, En Yu; Yu, Zhong Liang) Shortest polygonal paths in space. (German summary) 91g:68157
- Campbell, Douglas (with Higgins, John C.) Minimal visibility graphs. 91m:68160
- Case, John (with Rajan, Dayanand S.; Shende, Anil M.) Optimally representing Euclidean space discretely for analogically simulating physical phenomena. 91f:68147
- Chang, Maw Shang (with Huang, Nen Fu; Tang, Chuan Yi) An optimal algorithm for constructing oriented Voronoi diagrams and geographic neighborhood graphs. (Not in MR)
- Chang, Ruel Chuan see Chen, Chiu Yuan, 91j:68126
- Chazelle, Bernard (with Welzl, Emo) Quasi-optimal range searching in spaces of finite VC-dimension. 91d:68122
- Lower bounds for orthogonal range searching. I. The reporting case. 91g:68158
- Lower bounds for orthogonal range searching. II. The arithmetic model. 91h:68163
- (with Sharir, Micha) An algorithm for generalized point location and its applications. 91m:68161
- Chekryzhov, Yu. A. see Tyrskii, S. Ya.; et al., (Not in MR)
- Chen, Chiu Yuan (with Chang, Ruel Chuan) On the minimality of polygon triangulation. 91j:68126
- Chen, Danny Z. see Atallah, Mikhail J., 91a:68259
- Chen, Li¹ The necessary and sufficient condition and the efficient algorithms for gradually varied fill. (Not in MR)
- Cheng, Siu Wing (with Janardan, Ravi) Efficient dynamic algorithms for some geometric intersection problems. 91h:68164
- Chenit, Patrick see Marchepoul, D., (91k:68005)
- Cherfils, C. (with Hermeline, F.) Diagonal swap procedures and characterizations of 2D-Delaunay triangulations. (French summary) 91k:68180
- Chew, L. Paul There are planar graphs almost as good as the complete graph. 91a:68261
- Chin, Wei-Pang (with Ntafos, Simeon) Shortest watchman routes in simple polygons. 91g:68159
- Chwa, Kyung Yong see Lee, Sang-Ho, 91g:68165
- Clarkson, Kenneth L. (with Tarjan, Robert Endre; Van Wyk, Christopher J.) A fast Las Vegas algorithm for triangulating a simple polygon. 91d:68123
- (with Shor, Peter W.) Applications of random sampling in computational geometry. II. 91e:68141
- Collins, G. E. see Buchberger, B.; et al., 91g:68156
- Cornell, Derek G. see Everett, H. J., 91d:68125
- Culberson, Joseph (with Reckhow, Robert A.) Orthogonally convex coverings of orthogonal polygons without holes. 91e:68142
- Dadoun, N. (with Kirkpatrick, David G.) Parallel construction of subdivision hierarchies. 91e:68143
- Das, Gantam (with Joseph, Deborah) Minimum vertex hulls for polyhedral domains (conference abstract). (see 91h:68011)
- Dasgupta, Bhaskar (with Veni Madhavan, C. E.) An approximate algorithm for the minimal vertex nested polygon problem. 91a:68262
- Datta, Amitava (with Ramkumar, G. D. S.) On some largest empty orthoconvex polygons in a point set. 91j:68127
- Dehne, Frank (with Rau-Chaplin, Andrew) Implementing data structures on a hypercube multiprocessor, and applications in parallel computational geometry. (see 91h:68006)
- Deneen, Linda L. see Shute, Gary M.; et al., 91k:68185
- Devillers, Olivier Simultaneous containment of several polygons: analysis of the contact configurations. (see 91k:68005)
- see also Boissonnat, Jean-Daniel; et al., (91k:68005) and (91k:68005)
- Dey, Tamal K. see Bajaj, Chanderjit L., 91d:68120 and 91f:68199
- Dickerson, Matthew T. (with Drysdale, Robert L., III) Fixed-radius near neighbors search algorithms for points and segments. (Not in MR)
- Dillencourt, Michael B. Realizability of Delaunay triangulations. 91f:68148
- Dobkin, David P. (with Hershberger, John; Kirkpatrick, David G.; Suri, Subhash) Implicitly searching convolutions and computing depth of collision. (see 91g:68002)
- (with Kirkpatrick, David G.) Determining the separation of preprocessed polyhedra—a unified approach. (see 91e:68004)
- (with Edelsbrunner, Herbert; Overmars, Mark H.) Searching for empty convex polygons. 91g:68160
- Donald, Bruce R. The complexity of planar compliant motion planning under uncertainty. 91g:68161
- Doskas, Mike see Avis, David, 91d:68119
- Drysdale, Robert L., III see Dickerson, Matthew T., (Not in MR)
- Du, Ding Zhu (with Zhang, Yanjun) On heuristics for minimum length rectilinear partitions. 91a:68263
- Dyer, Martin E. (with Frieze, A. M.; Kannan, Ravindran) A random polynomial-time algorithm for approximating the volume of convex bodies. 91m:68162
- Eades, Peter (with Wormald, Nicholas C.) Fixed edge-length graph drawing is NP-hard. 91j:68128
- Edelsbrunner, Herbert (with Preparata, Franco P.; West, Douglas B.) Tetrahedrizing point sets in three dimensions. 91a:68264
- (with Guibas, Leonidas J.; Hershberger, John; Pach, János; Pollack, Richard M.; Seidel, Raimund; Sharir, Micha; Snoeyink, Jack) On arrangements of Jordan arcs with three intersections per pair. 91a:68265
- (with Guibas, Leonidas J.) Topologically sweeping an arrangement. 91d:68124
- (with Sharir, Micha) A hyperplane incidence problem with application to counting distances. (see 91g:68002)
- (with Guibas, Leonidas J.; Sharir, Micha) The complexity and construction of many faces in arrangements of lines and of segments. 91f:68201
- (with Guibas, Leonidas J.; Sharir, Micha) The complexity of many cells in arrangements of planes and related problems. 91h:68165
- see also Dobkin, David P.; et al., 91g:68160
- Egecioglu, Ömer (with Kalantari, Bahman) Approximating the diameter of a set of points in the Euclidean space. 91b:68114
- Espe, Marc Un algorithme simple de calcul de plus court chemin en norme L_1 dans des régions simplement connexes. [A simple algorithm for shortest-path computation in the L_1 -norm in simply connected regions] (see 91k:68005)
- Everett, H. J. (with Cornell, Derek G.) Recognizing visibility graphs of spiral polygons. 91d:68125
- Fangeras, O. D. (with Le Bras-Mehlman, E.; Boissonnat, Jean-Daniel) Representing stereo data with the Delaunay triangulation. (Not in MR)
- Fischer, Thomas R. M. Lower bound proofs via Voronoi diagrams. (German and Russian

- summaries. 91g:68162
- Fjällström, Per-Olof (with Katajainen, Jyrki; Levopoulos, Christos; Petersson, Ola) A subalgorithmic convex hull algorithm. 91e:68144
- Franciosa, Paolo Giallo *see* d'Amore, Fabrizio, (91h:68011)
- Frederickson, Greg N. (with Rodger, Susan) A new approach to the dynamic maintenance of maximal points in a plane. 91b:68115
- Friedman, Joseph (with Hersberger, John; Snoeyink, Jack) Input-sensitive compliant motion in the plane. (see 91e:68016)
- Frieze, A. M. *see* Dyer, Martin E.; et al., 91m:68162
- Fu, Jyh Jong (with Lee, R. C. T.) Voronoi diagrams of moving points in the plane. 91m:68163
- (with Lee, R. C. T.) Minimum spanning trees of moving points in the plane. (Not in MR)
- Fuchs, Ulrich *see* Schwarzkopf, Otfried; et al., 91e:68148
- Fung, Khun Yee (with Nicholl, Tina M.; Tarjan, Robert Endre; Van Wyk, Christopher J.) Simplified linear-time Jordan sorting and polygon clipping. 91g:68163
- Ghosh, Subir Kumar (with Maheshwari, Anil) An optimal algorithm for computing a minimum nested nonconvex polygon. (Not in MR)
- Goldman, Sally A. A space efficient greedy triangulation algorithm. 91a:68266
- Gonzalez, Teofilo F. (with Zheng, Si-Qing) Approximation algorithms for partitioning a rectangle with interior points. 91a:68267
- González-López, María José (with Recio Muñoz, Tomás J.) Some algorithms from real algebraic geometry for the computation of basic problems in robot motion planning. (see 91m:90014)
- Goodrich, Michael T. Triangulating a polygon in parallel. 91f:68202
- Guibas, Leonidas J. (with Sharir, Micha; Sifrony, Shmuel) On the general motion-planning problem with two degrees of freedom. 91a:68268
- (with Hersberger, John) Optimal shortest path queries in a simple polygon. 91g:68164
- (with Salesin, David; Stolfi, Jorge) Constructing strongly convex approximate hulls with inaccurate primitives. (see 91g:68002)
- (with Knuth, Donald E.; Sharir, Micha) Randomized incremental construction of Delaunay and Voronoi diagrams. (see 91e:68004)
- *see also* Edelsbrunner, Herbert; et al., 91a:68265; 91d:68124; 91f:68201; 91h:68165 and Anagnostou, Efthymios G.; et al., (91g:68002)
- Günther, Oliver ★ Efficient structures for geometric data management. 91d:68126
- Minimum K -partitioning of rectilinear polygons. (Not in MR)
- Gütting, Ralf Hartmut *see* Blankenagel, Gabriele, 91c:68116
- Halder, Chandan (with Patnaik, L. M.) Oracle complexities for computational geometry of semi-algebraic sets and Voronoi diagrams. (Not in MR)
- Hawrylycz, Michael *see* Aggarwal, Alok, 91a:68257
- He, Xia An efficient parallel algorithm for finding minimum weight matching for points on a convex polygon. 91m:68164
- Henry, Robert R. *see* Messinger, Eli B.; et al., (Not in MR)
- Hermeline, F. *see* Cherfils, C., 91h:68180
- Hersberger, John Finding the upper envelope of n line segments in $O(n \log n)$ time. 91d:68127
- Upper envelope onion peeling. (see 91e:68016)
- (with Suri, Subhash) Applications of a semi-dynamic convex hull algorithm. (see 91e:68016)
- *see also* Edelsbrunner, Herbert; et al., 91a:68265; Guibas, Leonidas J., 91g:68164; Friedman, Joseph; et al., (91e:68016) and Dobkin, David P.; et al., (91g:68002)
- Higgins, John C. *see* Campbell, Douglas, 91m:68160
- Hirata, Tomio *see* Tan, Xue-Hou; et al., (Not in MR) and (91g:68002)
- Hobby, John D. Rasterizing curves of constant width. (Not in MR)
- Hoffmann, Christoph M. *see* Bajaj, Chanderjit L.; et al., 91a:68260
- Hopcroft, J. E. H. *see* Bajaj, Chanderjit L.; et al., 91a:68260
- (Horn, Berthold K. P.) *see* Shape from shading, 91b:68118
- Hoskins, Janet A. (with Hoskins, William D.; Stanton, Ralph G.) A generalization of Pitteway's algorithm. 91k:68181
- Hoskins, William D. *see* Hoskins, Janet A.; et al., 91k:68181
- Huang, Nen Fu *see* Chang, Maw Shang; et al., (Not in MR)
- Imai, Hiroshi *see* Rappaport, David; et al., 91f:68207
- Inagaki, Yasuyoshi *see* Tan, Xue-Hou; et al., (Not in MR) and (91g:68002)
- Janardan, Ravi *see* Cheng, Siu Wing, 91b:68164
- Jeong, C.-S. (with Lee, Der Tsai) Parallel geometric algorithms on a mesh-connected computer. 91e:68145
- Jin, Tong Guang *see* Li, Wei; et al., (Not in MR)
- Johnstone, John K. (with Bajaj, Chanderjit L.) Sorting points along an algebraic curve. 91i:68149
- Joseph, Deborah *see* Das, Gautam, (91h:68011)
- Kahan, Simon *see* Anderson, Richard John; et al., (91h:68006)
- Kalantari, Bahman *see* Egecioglu, Ömer, 91b:68114
- Kannan, Ravindran *see* Dyer, Martin E.; et al., 91m:68162
- Kapoor, Sanjiv (with Ramanan, Prakash) Lower bounds for maximal and convex layers problems. 91c:68118
- Katajainen, Jyrki *see* Fjällström, Per-Olof; et al., 91e:68144
- Kedem, K. (with Sharir, Micha) An efficient motion-planning algorithm for a convex polygonal object in two-dimensional polygonal space. 91f:68203
- Kenyon, Claire The average complexity of an axial view of a parallelepipedic scene. (see 91k:68005)
- Kenyon, Richard Tiling a polygon with parallelograms. (see 91k:68005)
- Khuller, Samir (with Mitchell, Joseph S. B.) On a triangle counting problem. 91a:68269
- Kim, Sung Kwon Parallel algorithms for the segment dragging problem. 91i:68150
- Kirkpatrick, David G. *see* Dadoun, N., 91f:68143; Dobkin, David P., (91e:68004) and (91g:68002)
- Klein, Rolf (with Mehlhorn, Kurt; Meiser, St.) On the construction of abstract Voronoi diagrams. II. 91k:68182
- Combinatorial properties of abstract Voronoi diagrams. 91e:68146
- Knuth, Donald E. *see* Guibas, Leonidas J.; et al., (91e:68004)
- Kocsis, F. (with Böhm, J. F.) Rotation-based computations for ray-tracing second-order surfaces and curves. (Not in MR)
- Kong, Yung *see* Kopperman, Ralph, (91m:68007)
- Kopperman, Ralph (with Kong, Yung) Using general topology in image processing. (see 91m:68007)
- Korneenko, N. M. (with Martini, Horst) Approximating finite weighted point sets by hyperplanes. (see 91e:68016)
- Voronoi diagrams, their generalizations and applications (partly classified bibliography). (see 91m:68007)
- Kranakis, Evangelos (with Pocchiola, Michel) Enumeration and visibility problems in integer lattices (extended abstract). (see 91k:68005)
- van Kreveld, Marc J. (with de Berg, Mark T.) Finding squares and rectangles in sets of points. 91f:68204
- *see also* de Berg, Mark T.; et al., (91e:68016)
- Krithivasan, Kamala *see* Srikanth, R., (Not in MR)
- Kundu, Sukhamay (with Sridhar, Radhakrishnan) An $O(kN \log N)$ algorithm for decomposing a set of polygons into D -separable components. (Not in MR)
- Kutsenko, L. N. ★ Машинная графика в задачах проекционной природы. (Russian) [Computer graphics in problems of a projection nature] 91m:68165
- Kutler, B. *see* Buchberger, B.; et al., 91g:68156
- Laumond, Jean-Paul Connectivity of plane triangulations. (Not in MR)
- Le Bras-Mehlman, E. *see* Faugeras, O. D.; et al., (Not in MR)
- Lee, Der Tsai (with Preparata, Franco P.) Parallel batched planar point location on the CCC. 91f:68151
- *see also* Jeong, C.-S., 91e:68145
- Lee, R. C. T. *see* Shih, Z. C.; et al., 91f:68208; Fu, Jyh Jong, 91m:68163 and (Not in MR)
- Lee, Sang-Ho (with Chwa, Kyung Yong) Some chain visibility problems in a simple polygon. 91g:68165
- Lemordant, J. (with Pham Dinh Tao; Zouaki, Hamid) Reconstruction d'un polyèdre à partir de son image gaussienne généralisée. (Reconstructing a polyhedron from its generalized Gaussian image) (see 91k:68005)
- Levcopoulos, Christos (with Lingas, Andrzej) Fast algorithms for greedy triangulation. (see 91e:68016)
- *see also* Fjällström, Per-Olof; et al., 91e:68144
- Li, Zhi Liang Eliminating hidden lines by the simplex method. (Chinese. English summary) (Not in MR)
- Liang, You Dong *see* Li, Wei; et al., (Not in MR)
- Lienhardt, Pascal Barycentric triangulation of generalized maps. (see 91k:68005)
- Lindenbaum, M. (with Bruckstein, A. M.) Reconstructing a convex polygon from binary perspective projections. 91f:68152
- Lingas, Andrzej *see* Levcopoulos, Christos, (91e:68016)
- Longinetti, M. *see* Bianchi, Gabriele, 91f:68200
- Li, Wei (with Jin, Tong Guang; Liang, You Dong) Geometric modelling by recursively cutting vertices. (Not in MR)
- Lynch, Robert E. *see* Bajaj, Chanderjit L.; et al., 91a:68260
- Maheshwari, Anil *see* Ghosh, Subir Kumar, (Not in MR)
- Marchesoli, D. (with Chenin, Patrick) Facettisation d'ensembles semi-algébriques. [Facetting of semi-algebraic sets] (see 91k:68005)
- Martini, Horst *see* Korneenko, N. M., (91e:68016)
- Mehlhorn, Kurt (with Meiser, St.; O'Dünlaing, C.) On the construction of abstract Voronoi diagrams. 91f:68205
- (with Näher, Stefan) Dynamic fractional cascading. 91c:68119
- (with Näher, Stefan; Uhrig, C.) Hidden line elimination for iso-oriented rectangles. 91f:68206
- *see also* Klein, Rolf; et al., 91k:68182
- Meiser, St. *see* Mehlhorn, Kurt; et al., 91f:68205 and Klein, Rolf; et al., 91k:68182
- Menzel, K. (with Monien, Burkhard) Weighted parallel triangulation of simple polygons. (see 91h:68006)
- Messinger, Eli B. (with Rowe, Lawrence A.; Henry, Robert R.) A divide-and-conquer algorithm for the automatic layout of large directed graphs. (Not in MR)
- Miller, Russ *see* Boxer, Lawrence, 91g:68155a and 91g:68155b
- Mitchell, Joseph S. B. (with Papadimitriou, Christos H.) The weighted region problem: finding shortest paths through a weighted planar subdivision. 91m:68166
- *see also* Khuller, Samir, 91a:68269
- Monien, Burkhard *see* Menzel, K., (91h:68006)
- Morasso, Pietro (with Vercelli, Gianni; Zaccaria, Renato) Neuro-computing aspects in motor planning & control. (see 91b:68013)
- Motwani, Rajeev (with Raghunathan, Arvind; Saran, Huzur) Perfect graphs and orthogonally convex covers. 91a:68270
- (with Raghunathan, Arvind; Saran, Huzur) Covering orthogonal polygons with star polygons: the perfect graph approach. 91m:68167
- Mukherjee, Rathindra Nath *see* Boredy, Jayaramiah, 91c:68117
- Murphy, O. J. (with Selkow, S. M.) Finding nearest neighbors with Voronoi tessellations. 91c:68120
- Nackman, Lee R. (with Srinivasan, Vijay) Bisectors of linearly separable sets. 91k:68183
- Näher, Stefan *see* Mehlhorn, Kurt, 91c:68119 and 91f:68206
- Nandy, Subhas C. (with Bhattacharya, Bhargab B.; Ray, Sibabrata) Efficient algorithms for identifying all maximal isothetic empty rectangles in VLSI layout design. 91f:68153
- Nef, Walter (with Schmidt, Peter-Michael) Computing a sweeping-plane in regular ("general") position: a numerical and a symbolic solution. 91m:68168
- Nicholl, Tina M. *see* Fung, Khun Yee; et al., 91g:68163
- Nilsson, Bengt J. *see* de Berg, Mark T.; et al., (91e:68016)
- Ntafos, Simeon The robber route problem. (Not in MR)
- *see also* Chin, Wei-Pang, 91g:68159
- Numata, Kazumichi (with Tokuyama, Takeshi) Splitting a configuration in a simplex. (see 91g:68002)
- Nussbaum, Doron (with Sack, Jörg-Rüdiger) Disassembling two-dimensional composite parts via translations. 91d:68128
- O'Dünlaing, C. *see* Mehlhorn, Kurt; et al., 91f:68205
- Olariu, Stephan A simple linear-time algorithm for computing the RNG and MST of unimodal polygons. 91b:68116
- Orlowski, Marian A new algorithm for the largest empty rectangle problem. 91a:68271

- O'Rourke, Joseph *see* Aggarwal, Alok; et al., 91a:68258
- Overmars, Mark H. (with Schipper, Haijo; Sharir, Micha) Storing line segments in partition trees. 91b:68147
- *see also* Dobkin, David P.; et al., 91g:68160 and de Berg, Mark T.; et al., (91c:68016)
- Pach, János (with Pollack, Richard M.; Welzl, Emo) Weaving patterns of lines and line segments in space. (see 91g:68002)
- *see also* Edelsbrunner, Herbert; et al., 91a:68265
- Pandu Rangan, C. *see* Sudarshan, S., 91a:68272
- Papadimitriou, Christos H. *see* Mitchell, Joseph S. B., 91m:68166
- Patnaik, L. M. *see* Haldar, Chandan, (Not in MR)
- Petersson, Ola *see* Fjällström, Per-Olof; et al., 91e:68144
- Pham Dinh Tao *see* Lemordant, J.; et al., (91k:68005)
- Pocchiola, Michel Graphics in flatland revisited. (see 91e:68016)
- *see also* Kranakis, Evangelos, (91k:68005)
- Pollimenis, Vasilios G. *see* Anagnostou, Efthymios G.; et al., (91g:68002)
- Pollack, Richard M. *see* Edelsbrunner, Herbert; et al., 91a:68265 and Pach, János; et al., (91g:68002)
- Preparata, Franco P. Planar point location revisited. 91g:68166
- (with Tamassia, Roberto) Dynamic planar point location with optimal query time. 91j:68129
- *see also* Edelsbrunner, Herbert; et al., 91a:68264; Alevizos, Panagiotis; et al., 91g:68154 and Lee, Der Tsai, 91b:68151
- Ragunathan, Arvind *see* Motwani, Rajeev; et al., 91a:68270 and 91m:68167
- Rajan, Dayanand S. *see* Case, John; et al., 91b:68147
- Ramanan, Prakash *see* Kapoor, Sanjiv, 91c:68118
- Ramkumar, G. D. S. *see* Dutta, Amitava, 91j:68127
- Rappaport, David (with Imai, Hiroshi; Toussaint, Godfried T.) Computing simple circuits from a set of line segments. 91f:68207
- Ran-Charlin, Andrew *see* Dehne, Frank, (91b:68006)
- Ray, Sibabrata *see* Nandy, Subhas C.; et al., 91f:68153
- Recio Muñoz, Tomás J. *see* González-López, María José, (91m:00014)
- Reckhow, Robert A. *see* Culberson, Joseph, 91e:68142
- Revelles, Jean-Pierre Les droites en géométrie discrète: une définition générale; leurs intersections. [Straight lines in discrete geometry: a general definition; their intersections] (see 91k:68005)
- Richter, Jürgen *see* Bokowski, Jürgen; et al., 91d:68121
- Robert, J.-M. *see* Avis, David; et al., 91e:68139
- Rodger, Susan *see* Frederickson, Greg N., 91b:68115
- Rohmert, Hans Moving a disc between polygons. 91k:68184
- Roos, Thomas *k*-nearest-neighbor Voronoi diagrams for sets of convex polygons, line segments and points. (see 91b:68006)
- Rote, Günter *see* Schwarzkopf, Otfried; et al., 91e:68148 and Burkard, Rainer E.; et al., 91g:68157
- Rowe, Lawrence A. *see* Messinger, Eli B.; et al., (Not in MR)
- Sack, Jörg-Rüdiger (with Suri, Subhash) An optimal algorithm for detecting weak visibility of a polygon. 91h:68166
- *see also* Nussbaum, Doron, 91d:68128
- Salein, David *see* Guibas, Leonidas J.; et al., (91g:68002)
- Saran, Huzur *see* Motwani, Rajeev; et al., 91a:68270 and 91m:68167
- Saupe, Dietmar Random fractals in image synthesis. (see 91i:58094)
- Schipper, Haijo *see* Overmars, Mark H.; et al., 91c:68147
- Schlag, Martine *see* Anderson, Richard John; et al., (91b:68006)
- Schmidt, Peter-Michael *see* Nef, Walter, 91m:68168
- Schott, René *see* Boissonnat, Jean-Daniel; et al., (91k:68005)
- Schwarzopf, Otfried (with Fuchs, Ulrich; Rote, Günter; Welzl, Emo) Approximation of convex figures by pairs of rectangles. 91e:68148
- Seidel, Raimund *see* Edelsbrunner, Herbert; et al., 91a:68265
- Selkow, S. M. *see* Murphy, O. J., 91c:68120
- Sharir, Micha *see* Edelsbrunner, Herbert; et al., 91a:68265; Guibas, Leonidas J.; et al., 91a:68268; Overmars, Mark H.; et al., 91e:68147; Edelsbrunner, Herbert; et al., 91f:68201; Kedem, K., 91f:68203; Edelsbrunner, Herbert; et al., 91h:68165; Chazelle, Bernard, 91m:68161; Guibas, Leonidas J.; et al., (91c:68004) and Edelsbrunner, Herbert, (91g:68002)
- Shende, Anil M. *see* Case, John; et al., 91b:68147
- Shermer, T. Hiding people in polygons. (German summary) 91e:68149
- Shih, Z. C. (with Lee, R. C. T.; Yang, S. N.) A parallel algorithm for finding congruent regions. 91f:68208
- Shor, Peter W. *see* Clarkson, Kenneth L., 91e:68141
- Shul'deshov, G. A. *see* Tyrskii, S. Ya.; et al., (Not in MR)
- Shute, Gary M. (with Dencen, Linda L.; Thompson, Clark D.) An $O(n \log n)$ plane-sweep algorithm for L_1 and L_∞ Delaunay triangulations. 91k:68185
- Sifrony, Shmuel *see* Guibas, Leonidas J.; et al., 91a:68268
- Skyum, Sren A simple algorithm for computing the smallest enclosing circle. 91k:68186
- Snoeyink, Jack *see* Edelsbrunner, Herbert; et al., 91a:68265 and Friedman, Joseph; et al., (91e:68016)
- Spehner, Jean-Claude Cartes et pavages. (English summary) [Maps and pavings] 91g:68167
- Sridhar, Radhakrishnan *see* Kunda, Sukhamay, (Not in MR)
- Srikant, R. (with Krithivasan, Kamala) Fastest path across constrained moving rectilinear obstacles. (Not in MR)
- Srinivasan, Vijay *see* Nackman, Lee R., 91h:68183
- Stammler, Ludwig Minimality and topological structure of piecewise linear iso-lines. (see 91m:68007)
- Stanton, Ralph G. *see* Hoskins, Janet A.; et al., 91k:68181
- Stolf, Jorge *see* Guibas, Leonidas J.; et al., (91g:68002)
- Sturmels, Bernd *see* Bokowski, Jürgen; et al., 91d:68121
- Sudarshan, S. (with Pandu Rangan, C.) A fast algorithm for computing sparse visibility graphs. 91a:68272
- Sugihara, Kazuo (with Suzuki, Ichiro; Yamashita, Masafumi) The searchlight scheduling problem. 91b:68154
- Suri, Subhash Computing geodesic furthest neighbors in simple polygons. 91h:68117
- *see also* Aggarwal, Alok; et al., 91a:68258; 91g:68153; Sack, Jörg-Rüdiger, 91h:68166; Herschberger, John, (91e:68016) and Dobkin, David P.; et al., (91g:68002)
- Suzuki, Ichiro *see* Sugihara, Kazuo; et al., 91b:68154
- Szafran, Nicolas Structures de données pour la représentation des zonotres. [Data structures for the representation of zonotres] (see 91k:68005)
- Tamassia, Roberto An incremental reconstruction method for dynamic planar point location. 91m:68169
- *see also* Preparata, Franco P., 91j:68129
- Tan, Xue-Hou (with Hirata, Tomio; Inagaki, Yasuyoshi) Spatial point location and its applications. (see 91g:68002)
- (with Hirata, Tomio; Inagaki, Yasuyoshi) The intersection searching problem for c -oriented polygons. (Not in MR)
- Tang, Chuan Yi *see* Chang, Maw Shang; et al., (Not in MR)
- Tarjan, Robert Endre *see* Clarkson, Kenneth L.; et al., 91d:68123 and Fung, Khun Yee; et al., 91g:68163
- Telland, Monique *see* Boissonnat, Jean-Daniel; et al., (91k:68005) and (91k:68005)
- Teo, Kim-Heng (with Tuan, Tai-Ching) An improved upper bound on the number of intersections between two rectangular paths. (Not in MR)
- Thompson, Clark D. *see* Shute, Gary M.; et al., 91h:68185
- Tipper, John C. A straightforward iterative algorithm for the planar Voronoi diagram. (Not in MR)
- Tokuyama, Takeshi *see* Numata, Kazumitsu, (91g:68002)
- Toussaint, Godfried T. *see* Rappaport, David; et al., 91f:68207
- Tuan, Tai-Ching *see* Teo, Kim-Heng, (Not in MR)
- Tyrskii, S. Ya. (with Chekryzhov, Yu. A.; Shul'deshov, G. A.) Consistent estimates for curvature on black-white discrete images. (Not in MR)
- Uhrig, C. *see* Mehlhorn, Kurt; et al., 91f:68206
- Unger, Kristel The convex hull problem on special planar point sets. (German and Russian summaries) 91k:68187
- A new method for proving lower bounds in the model of algebraic decision trees. (see 91h:68006)
- Van Wyk, Christopher J. *see* Clarkson, Kenneth L.; et al., 91d:68123 and Fung, Khun Yee; et al., 91g:68163
- Vegter, Gert The visibility diagram: a data structure for visibility problems and motion planning. (see 91e:68016)
- Veni Madhavan, C. E. *see* Dasgupta, Bhaskar, 91a:68262
- Vercelli, Gianni *see* Morasso, Pietro; et al., (91h:68013)
- Voss, Klaus Theory of discrete objects in Z^n . (see 91m:68007)
- Coding of digital straight lines by continued fractions. (Russian summary) 91m:68170
- Welzl, Emo *see* Chazelle, Bernard, 91d:68122; Schwarzkopf, Otfried; et al., 91e:68148 and Pach, János; et al., (91g:68002)
- Wenger, Raphael *see* Avis, David; et al., 91e:68139
- West, Douglas B. *see* Edelsbrunner, Herbert; et al., 91a:68264
- Wormald, Nicholas C. *see* Eades, Peter, 91j:68128
- Yamashita, Masafumi *see* Sugihara, Kazuo; et al., 91b:68154
- Yang, S. N. *see* Shih, Z. C.; et al., 91f:68208
- Yao, En Yu *see* Burkard, Rainer E.; et al., 91g:68157
- Yap, Chue-Keng A geometric consistency theorem for a symbolic perturbation scheme. 91e:68150
- Symbolic treatment of geometric degeneracies. 91k:68188
- *see also* Aggarwal, Alok; et al., 91a:68258
- Yu, Zhong Liang *see* Burkard, Rainer E.; et al., 91g:68157
- Yvinec, Mariette *see* Boissonnat, Jean-Daniel; et al., (91k:68005)
- Zaccaria, Renato *see* Morasso, Pietro; et al., (91h:68013)
- Zhang, Yanjun *see* Du, Ding Zhu, 91a:68263
- Zhang, Si-Qing *see* Gonzalez, Teofilo F., 91a:68267
- Zouaki, Hamid *see* Lemordant, J.; et al., (91k:68005)
- Items listed otherwise than by author
- Lecture Notes in Computer Science *see* Günther, Oliver, 91d:68126
- Shape from shading ★ Shape from shading. 91h:68118
- Items with secondary classifications in 68U05
- Abenda, S. (with Turchetti, G.) Inverse problem for fractal sets on the real line via the moment method. (Italian and Russian summaries) 91a:58107
- Abrahamson, Karl On the modality of convex polygons. 91k:52009
- Agarwal, Pankaj K. *see* van Krevelend, Marc J.; et al., (91c:68016)
- Alekseev, A. V. *see* Borisov, A. N.; et al., 91i:90001
- Asano, Tetsuo (with Tokuyama, Takeshi) Algorithms for projecting points to give the most uniform distribution with applications to hashing. (see 91g:68002)
- Banchoff, Thomas F. Computer graphics tools for rendering algebraic surfaces and for geometry of order. (see 91g:90045)
- de Berg, Mark T. *see* Overmars, Mark H.; et al., 91e:68029
- Bienstock, Daniel Linear-time test for small face covers in any fixed surface. 91e:68061
- (de Boer, Martin J. M.) *see* Pruskieliewicz, Przemyslaw, 91k:92012
- Bonnet, Javier (with Péraire, Jaime) An alternating digital tree (ADT) algorithm for 3D geometric searching and intersection problems. (Not in MR)
- Bürgers, Christoph Generalized Delaunay triangulations of nonconvex domains. 91h:52225
- Borisov, A. N. (with Alekseev, A. V.; Merkur'yeva, Galina V.; Shtadz', N. N.; Glushkov, V. I.) ★ Обработка нечеткой информации в системах принятия решений. (Russian) [Processing fuzzy information in decision-making systems] 91i:90001
- Chaiken, Seth *see* Wee, Young C.; et al., 91e:68033
- Chatterjee, Sampriti *see* Chatterjee, Sangit, (Not in MR)
- Chatterjee, Sangit (with Chatterjee, Sampriti) A note on finding extreme points in multivariate space. (Not in MR)
- Chazelle, Bernard Lower bounds on the complexity of polytope range searching. 91a:68122
- Chia, Francis Y. L. *see* Leung, Joseph Y.-T.; et al., 91h:68142
- Chow, Yun Shyong *see* Grenander, U.; et al., 91m:92051
- Clarkson, Kenneth L. (with Edelsbrunner, Herbert; Guibas, Leonidas J.; Sharir, Micha; Welzl, Emo) Combinatorial complexity bounds for arrangements of curves and spheres.

- 91f:52021
 Cole, Richard (with Salowe, Jeffrey S.; Steiger, W. L.; Szemerédi, Endre) An optimal-time algorithm for slope selection. 91a:68124
 (Concus, Paul) *see* Geometric analysis and computer graphics, 91g:00045
 Culik, Karel, II (with Dube, Simant) Affine automata: a technique to generate complex images. 91i:68102
 Dillencourt, Michael B. Toughness and Delaunay triangulations. 91i:5068
 Dobkin, David P. (with Friedman, Steven J.; Supowit, Kenneth J.) Delaunay graphs are almost as good as complete graphs. 91e:52025
 Dube, Simant *see* Culik, Karel, II, 91i:68102
 Edelsbrunner, Herbert *see* Clarkson, Kenneth L.; et al., 91f:52021
 Farouki, R. T. (with Neff, C. Andrew) On the numerical condition of Bernstein-Bézier subdivision processes. 91c:65013
 — *see also* Sakkalis, Takis, 91f:14056
 (Finn, Robert) *see* Geometric analysis and computer graphics, 91g:00045
 (Fowler, Deborah R.) *see* Prusinkiewicz, Przemysław, 91k:92012
 (Fracchia, F. David) *see* Prusinkiewicz, Przemysław, 91c:68075 and 91k:92012
 Friedman, Steven J. *see* Dobkin, David P.; et al., 91e:52025
 Gambosi, Giorgio *see* Talamo, Maurizio, 91f:68020
 Gishkov, V. I. *see* Borisov, A. N.; et al., 91i:90001
 Grenander, U. (with Chow, Yun Shyong; Keenan, Daniel M.) ★ Hands. 91m:92051
 Guibas, Leonidas J. *see* Clarkson, Kenneth L.; et al., 91f:52021
 Hanan, James S. *see* Prusinkiewicz, Przemysław, 91c:68075 and 91k:92012
 Hecker, Hans-Dietrich (with Herwig, Dietmar) Some NP-hard polygon cover problems. (German and Russian summaries) 91c:68070
 Helml, Gerhard Some results on quadratic splines of three (and more) variables. 91c:41025
 Herwig, Dietmar *see* Hecker, Hans-Dietrich, 91c:68070
 (Hoffman, David A.) *see* Geometric analysis and computer graphics, 91g:00045
 Hope, Rafael (with Katchalski, Meir) Separating plane convex sets. 91f:52008
 Hornung, Ulrich *see* Langbein, Dieter, (91g:00045)
 Hoschek, Josef (with Lasser, Dieter) ★ Grundlagen der geometrischen Datenverarbeitung. (German) [Foundations of geometric data processing] 91m:65046
 Huang, Zheng Dong (with Peng, Qun Sheng; Liang, You Dong) 3D image synthesis for B-reps objects. (Not in MR)
 Hucksbeck, Ulrich Euclidean geometry in terms of automata theory. 91c:68019
 Iriaw, Kazuyoshi *see* Yamato, Junji; et al., (Not in MR)
 Ishii, Ikuro *see* Yamato, Junji; et al., (Not in MR)
 Katchalski, Meir *see* Hope, Rafael, 91f:52008
 Keenan, Daniel M. *see* Grenander, U.; et al., 91m:92051
 van Kreveld, Marc J. (with Overmars, Mark H.; Agarwal, Pankaj K.) Intersection queries in sets of disks. (see 91c:68016)
 — *see also* Overmars, Mark H.; et al., 91g:68029
 (Krithivasan, Kamala) *see* Prusinkiewicz, Przemysław, 91c:68075
 Křivánek, Miro The use of graphs of elliptical influence in visual hierarchical clustering. (see 91b:68011)
 Langbein, Dieter (with Hornung, Ulrich) Liquid menisci in polyhedral containers. (see 91g:00045)
 Lasser, Dieter *see* Hoschek, Josef, 91m:65046
 Lee, E. T. Y. A note on blossoming. 91a:65026
 Leung, Joseph Y.-T. (with Tam, Tommy W.; Wong, Chin Siong; Young, Gilbert H.; Chin, Francis Y. L.) Packing squares into a square. 91b:68142
 Lescopoulos, Christos (with Lingas, Andrzej; Sack, Jörg-Rüdiger) Heuristics for optimum binary search trees and minimum weight triangulation problems. 91c:68028
 Liang, You Dong *see* Huang, Zheng Dong; et al., (Not in MR)
 Lindenmayer, Aristid *see* Prusinkiewicz, Przemysław, 91k:92012 and 91c:68075
 Lingas, Andrzej *see* Lescopoulos, Christos; et al., 91c:68028
 Lubiw, Anna The Boolean basis problem and how to cover some polygons by rectangles. 91i:68114
 Makino, Hideo *see* Yamato, Junji; et al., (Not in MR)
 Marcotte, Odile (with Suri, Subhash) Fast matching algorithms for points on a polygon. 91m:68088
 Meng, Alex C.-C. (with Ntafos, Simeon) Problems in dynamic path planning. 91d:68129
 (Mercer, Lynn) *see* Prusinkiewicz, Przemysław, 91k:92012
 Merkur'yeva, Galina V. *see* Borisov, A. N.; et al., 91i:90001
 Mount, David M. (with Silverman, Ruth) Packing and covering the plane with translates of a convex polygon. 91b:52008
 — The number of shortest paths on the surface of a polyhedron. 91f:52022
 Neff, C. Andrew *see* Farouki, R. T., 91c:65013
 Ntafos, Simeon *see* Meng, Alex C.-C., 91d:68129
 Overmars, Mark H. (with Smid, Michiel H. M.; de Berg, Mark T.; van Kreveld, Marc J.) Maintaining range trees in secondary memory. I. Partitions. 91g:68029
 — *see also* Smid, Michiel H. M., 91g:68030; van Kreveld, Marc J.; et al., (91e:68016) and Schlipper, Haljo, (91e:68016)
 Peng, Qun Sheng *see* Huang, Zheng Dong; et al., (Not in MR)
 Perrais, Jaime *see* Bonet, Javier, (Not in MR)
 Prusinkiewicz, Przemysław (with Sandness, Glen) Attractors and repellers of Koch curves. (French summary) 91b:58114
 — (with Hanan, James S.) ★ Lindenmayer systems, fractals, and plants. 91c:68075
 — (with Lindenmayer, Aristid) ★ The algorithmic beauty of plants. 91k:92012
 Ramshaw, Lyle Blossoms are polar forms. 91d:65026
 Rappaport, David Computing simple circuits from a set of line segments is NP-complete. 91k:68063
 Ratner, Daniel (with Warmuth, Manfred K.) The $(n^2 - 1)$ -puzzle and related relocation problems. 91f:68138
 Rival, Ivan Graphical data structures for ordered sets. 91k:06007
 Sack, Jörg-Rüdiger *see* Lescopoulos, Christos; et al., 91c:68028
 Sakkalis, Takis (with Farouki, R. T.) Singular points of algebraic curves. 91f:14056
 Salowe, Jeffrey S. *see* Cole, Richard; et al., 91a:68124
 Sandness, Glen *see* Prusinkiewicz, Przemysław, 91b:58114
 Schlipper, Haljo (with Overmars, Mark H.) Dynamic partition trees. (see 91e:68016)
 Schumaker, Larry L. Reconstructing 3D objects from cross-sections. 91m:65049
 Sethian, J. A. The collapse of a dumbbell moving under its mean curvature. 91i:53023
 Sharir, Micha *see* Clarkson, Kenneth L.; et al., 91f:52021
 Silverman, Ruth *see* Mount, David M., 91b:52008
 Skarbek, Władysław Computational geometry techniques in acceleration of ray tracing. (see 91m:68007)
 Slyad, N. N. *see* Borisov, A. N.; et al., 91i:90001
 Smid, Michiel H. M. (with Overmars, Mark H.) Maintaining range trees in secondary memory. II. Lower bounds. 91g:68030
 — *see also* Overmars, Mark H.; et al., 91g:68029
 Springsteel, Frederick N. (with Stojmenović, Ivan) Parallel general prefix computations with geometric, algebraic, and other applications. (Not in MR)
 Steiger, W. L. *see* Cole, Richard; et al., 91a:68124
 Stojmenović, Ivan *see* Springsteel, Frederick N., (Not in MR)
 Supowit, Kenneth J. *see* Dobkin, David P.; et al., 91e:52025
 Suri, Subhash *see* Marcotte, Odile, 91m:68088
 Szemerédi, Endre *see* Cole, Richard; et al., 91a:68124
 Talamo, Maurizio (with Gambosi, Giorgio) An application of m -ary trees to the design of data structures for geometric searching problems. (French summary) 91f:68020
 Tam, Tommy W. *see* Leung, Joseph Y.-T.; et al., 91h:68142
 Tamassia, Roberto (with Tollis, Ioannis G.) Representations of graphs on a cylinder. 91k:68166
 Terzopoulos, Demetri On deformable models. 91i:53007
 Tokuyama, Takeshi *see* Asano, Tetsuo, (91g:68002)
 Tollis, Ioannis G. *see* Tamassia, Roberto, 91k:68166
 Turchetti, G. *see* Abenda, S., 91a:58107
 Vaidya, Pravin M. Approximate minimum weight matching on points in k -dimensional space. 91b:68090
 — Geometry helps in matching. 91a:68118
 Warmuth, Manfred K. *see* Ratner, Daniel, 91f:68138
 Wee, Young C. (with Chaiken, Seth; Willard, Dan E.) On the angle restricted nearest neighbor problem. 91c:68033
 Welzl, Emo *see* Clarkson, Kenneth L.; et al., 91f:52021
 Willard, Dan E. *see* Wee, Young C.; et al., 91c:68033
 Wong, Chin Siong *see* Leung, Joseph Y.-T.; et al., 91h:68142
 Yamato, Junji (with Ishii, Ikuro; Makino, Hideo; Iriaw, Kazuyoshi) Algorithm for extracting ellipses using weighted center points map. (Not in MR)
 Young, Gilbert H. *see* Leung, Joseph Y.-T.; et al., 91h:68142
 Zahair, M. An optimal speedup algorithm for the measure problem. 91a:68146
- Items listed otherwise than by author
 Berkeley, CA ★ Geometric analysis and computer graphics. 91g:00045
 Geometric analysis and computer graphics ★ Geometric analysis and computer graphics. 91g:00045
 Workshop:
 Differential Geometry, Calculus of Variations, and Computer Graphics ★ Geometric analysis and computer graphics. 91g:00045
- ## 68U07 Computer-aided design
- Ye, Zheng Lin Transition and structure of curves. (Chinese. English summary) (Not in MR)
- Items with secondary classifications in 68U07
- Auerbach, S. (with Gmelig Meyling, R. H. J.; Neamtu, Marian; Schaeben, H.) Approximation and geometric modeling with simplex B -splines associated with irregular triangles. 91k:65033
 Cao, Yuan (with Hua, Xuan Ji) The convexity of quadratic parametric triangular Bernstein-Bézier surfaces. 91m:65037
 Della Vecchia, Biancamaria (with Kocić, Ljubisa M.) On the degeneracy property of some linear positive operators. 91j:41034
 Farouki, R. T. On the stability of transformations between power and Bernstein polynomial forms. 91m:65042
 Fortuna, L. (with Gallo, Antonio; Nunnari, G.) Studying the interactions among model reduction algorithms via CAD technique. (Not in MR)
 Gallo, Antonio *see* Fortuna, L.; et al., (Not in MR)
 Garrity, Thomas (with Warren, Joe) Geometric continuity. 91k:65043
 Gmelig Meyling, R. H. J. *see* Auerbach, S.; et al., 91k:65033
 Hua, Xuan Ji *see* Cao, Yuan, 91m:65037
 Kocić, Ljubisa M. *see* Della Vecchia, Biancamaria, 91j:41034
 Nasri, Ahmad H. Surface interpolation on irregular networks with normal conditions. 91m:65048
 Neamtu, Marian *see* Auerbach, S.; et al., 91k:65033
 Neff, C. Andrew Decomposing algebraic sets using Gröbner bases. 91f:68100
 Nunnari, G. *see* Fortuna, L.; et al., (Not in MR)
 Schaeben, H. *see* Auerbach, S.; et al., 91k:65033
 Várady, Tamás Overlap patches: a new scheme for interpolating curve networks with n -sided regions. 91m:65050
 Warren, Joe *see* Garrity, Thomas, 91k:65043
- ## 68U10 Image processing
- Alnuwiri, Hussein M. (with Prasanna Kumar, V. K.) Parallel convexity algorithms for digitized images on a linear array of processors. (see 91g:68002)
 Berry, Jon R., Jr. (with Goutsias, John K.) A comparative study of matrix measures for maximum likelihood texture classification. (Not in MR)
 Bruckstein, A. M. *see* Kiryati, N.; et al., (Not in MR)
 Buzynin, B. S. *see* Cheponis, K. A.; et al., (Not in MR)
 Chatterji, B. N. *see* Das, Partha Pratim, 91b:68119
 Chen, Ming Hua (with Yan, Ping Fan) Multiscale approach based on morphological filtering. 91k:68189

- Cheponis, K. A. (with Žvirėnaitė, Dausa; Busygin, B. S.; Miroshnichenko, L. V.) ★ Методы критерия в алгоритмах, используемые при преобразовании, выделении и выборе признаков в анализе данных. (Russian) [Methods, criteria and algorithms that can be used in the transformation, selection and choice of features in data analysis] (Not in MR)
- Creutzburg, Reiner (with Ivanov, Evgenii) Fast algorithm for computing fractal dimensions of image segments. (see 91k:92005)
- Culik, Karel, II (with Dube, Simant) Methods for generating deterministic fractals and image compression. 91k:68190
- (with Dube, Simant) Automata-theoretic techniques for image generation and compression. 91j:68130
- Cypher, R. E. (with Sanz, J. L. C.; Snyder, Lawrence) The Hough transform has $O(N)$ complexity on $N \times N$ mesh connected computers. 91f:68209
- Das, Partha Pratim (with Chatterji, B. N.) Octagonal distances for digital pictures. 91b:68119
- Denisov, V. M. (with Matveev, Yu. N.) Formation of second-order histograms of binary images in a matrix processor. (Not in MR)
- Dube, Simant (see Culik, Karel, II, 91j:68130 and 91k:68190)
- Eckhardt, Ulrich Anwendung der digitalen Topologie in der Binärbildverarbeitung. (English summary) [Application of digital topology in the processing of binary images] 91a:68273
- Eldar, Y. (see Kiryati, N., et al., (Not in MR))
- Gostias, John K. (see Berry, Jon R., Jr., (Not in MR))
- Hall, Peter Gavin (with Koch, Inge) On continuous image models and image analysis in the presence of correlated noise. 91f:68210
- Hsu, Wen-Jing (with Lin, Xiaola) Parallel algorithms for labeling image components. (see 91g:68002)
- Huang, Zheng Dong (with Peng, Qun Sheng; Liang, You Dong) 3D image synthesis for B-reps objects. (Not in MR)
- Imiya, Atsushi (with Yamamoto, Yoshimi; Nakayama, Yoshiyuki) Image reconstruction of rotatory moving object from projections. (Not in MR)
- Irisawa, Kazuyoshi (see Yamato, Junji, et al., (Not in MR))
- Ishii, Ikuro (see Yamato, Junji, et al., (Not in MR))
- Ivanov, Evgenii (see Creutzburg, Reiner, (91k:92005))
- Jeng, Fure-Ching (with Woods, John W.) Simulated annealing in compound Gaussian random fields. 91b:68120
- Kanatsani, Ken-ichi ★ Group-theoretical methods in image understanding. 91g:68168
- Kaneko, Hiroshi (see Shakunaga, Takeshi, (Not in MR))
- Khalimsky, Efim (with Kopperman, Ralph; Meyer, Paul R.) Boundaries in digital planes. 91m:68171
- Kiryati, N. (with Eldar, Y.; Bruckstein, A. M.) A probabilistic Hough transform. (Not in MR)
- Koch, Inge (see Hall, Peter Gavin, 91f:68210)
- Kopperman, Ralph (see Khalimsky, Efim, et al., 91m:68171)
- Kumazawa, Itsuo (with Ogawa, Hidemitsu; Tajima, Hiroshi) Image reconstruction from erroneous projections—Radon transform as an analog coding. (Not in MR)
- Lenz, Reiner ★ Group theoretical methods in image processing. 91j:68131
- Liang, You Dong (see Huang, Zheng Dong, et al., (Not in MR))
- Lin, Xiaola (see Hsu, Wen-Jing, (91g:68002))
- Lin, Xing Gang (see Yu, Bin, et al., (Not in MR))
- Mahmoud, Sabri A. Motion analysis of multiple moving objects using Hartley transform. (Not in MR)
- Makino, Hideo (see Yamato, Junji, et al., (Not in MR))
- Matveev, Yu. N. (see Denisov, V. M., (Not in MR))
- Melter, Robert A. (with Wu, Angela Y.) Metrically independent sets in the digital plane. 91g:68169
- see also Rosenfeld, Azriel, 91a:68274
- Meyer, Paul R. (see Khalimsky, Efim, et al., 91m:68171)
- Miroshnichenko, L. V. (see Cheponis, K. A., et al., (Not in MR))
- Mitchell, Owen Robert (see Shih, Frank Yeong-Chyang, (Not in MR))
- Nakayama, Yoshiyuki (see Imiya, Atsushi, et al., (Not in MR))
- Ogawa, Hidemitsu (see Kumazawa, Itsuo, et al., (Not in MR)) and Sagiyama, Hiroshi, (Not in MR)
- Palenichka, R. M. An adaptive algorithm for binary segmentation of images. (Not in MR)
- Peng, Qun Sheng (see Huang, Zheng Dong, et al., (Not in MR))
- Prasanna Kumar, V. K. (see Alnuweiri, Hussein M., (91g:68002))
- Rosenfeld, Azriel (with Melter, Robert A.) Digital geometry. 91a:68274
- Samuel, D. (with Toussaint, Godfried T.) Computing the external geodesic diameter of a simple polygon. (German summary) 91f:68211
- Sanz, J. L. C. (see Cypher, R. E., et al., 91f:68209)
- Shakunaga, Takeshi (with Kaneko, Hiroshi) Configuration estimate of trihedral vertex from a single view. (Not in MR)
- Shih, Frank Yeong-Chyang (with Mitchell, Owen Robert) Decomposition of gray-scale morphological structuring elements. (Not in MR)
- Shlezinger, M. I. ★ Математические средства обработки изображений. (Russian) [Mathematical methods in image processing] 91a:68275
- Investigation of a class of problems of structural image analysis. (Russian) (see 91f:68005)
- Snyder, Lawrence (see Cypher, R. E., et al., 91f:68209)
- Siebe, Ralf Picture generation using matrix systems. 91m:68172
- Sagiyama, Hiroshi (with Ogawa, Hidemitsu) Image restoration using parametric partial projection filter. (Not in MR)
- Tajima, Hiroshi (see Kumazawa, Itsuo, et al., (Not in MR))
- Toussaint, Godfried T. (see Samuel, D., 91f:68211)
- Wang, Huan A tracing algorithm for digital image processing. (Chinese. English summary) (Not in MR)
- Woods, John W. (see Jeng, Fure-Ching, 91b:68120)
- Wu, Angela Y. (see Melter, Robert A., 91g:68169)
- Yu, You Shou (see Yu, Bin, et al., (Not in MR))
- Yamamoto, Yoshimi (see Imiya, Atsushi, et al., (Not in MR))
- Yamato, Junji (with Ishii, Ikuro; Makino, Hideo; Irisawa, Kazuyoshi) Algorithm for extracting ellipses using weighted center points map. (Not in MR)
- Yan, Ping Fan (see Chen, Ming Hua, 91k:68189)
- Yu, Bin (with Lin, Xing Gang; Wu, You Shou) The tree representation of the graph used in binary image processing. (Not in MR)
- Zhu, Yang Ming (with Zhuang, Tian Ge) A multi-prior-weighted minimum cross-entropy algorithm for image reconstruction. (Chinese. English summary) (Not in MR)
- Zhuang, Tian Ge (see Zhu, Yang Ming, (Not in MR))
- Žanik, Jovika Approximate convex hull algorithm efficiency evaluations. (German and Russian summaries) 91f:68212
- Žvirėnaitė, Dausa (see Cheponis, K. A., et al., (Not in MR))
- Items with secondary classifications in 68U10
- Bakushinskii, A. B. (with Goncharuk, A. V.; Levitan, S. Yu.) Application of regularization algorithms in x-ray computer tomography. 91c:92034
- Bianchi, Gabriele (with Longinetti, M.) Reconstructing plane sets from projections. 91f:68206
- Cai, Yuan Long (see Jiang, Hang Yi, 91g:65057)
- Chakrabarti, Chaitali (with Ja'Ja', Joseph) Systolic architectures for the computation of the discrete Hartley and the discrete cosine transforms based on prime factor decomposition. 91i:68020
- Chitprasert, B. (with Rao, Kamisetty Ramamohan) Discrete cosine transform filtering. (French and German summaries) (Not in MR)
- Chow, Yun Shyong A limit theorem for pattern synthesis in image processing. 91k:60044
- see also Grenander, U., et al., 91m:92051
- Dryden, I. L. (see Mardia, K. V., 91f:60036)
- Dubes, Richard C. (see Jain, Anil K., 91h:68155)
- Frigessi, Arnoldo (with Piccioni, Mauro) Parameter estimation for two-dimensional Ising fields corrupted by noise. 91j:60155
- Goncharuk, A. V. (see Bakushinskii, A. B., et al., 91c:92034)
- Grenander, U. Abstract inference in image processing. (see 91j:60004)
- (with Keenan, Daniel M.) A computer experiment in pattern theory. 91a:68229
- (with Chow, Yun Shyong; Keenan, Daniel M.) ★ Hands. 91m:92051
- Guilford, Laurent Mesures invariantes sur des ensembles autosimilaires. [Invariant measures on self-similar sets] 91k:60071
- Gurevich, I. B. The image recognition problem. (Russian) (see 91f:68004)
- Herman, Gabor T. (with Odhner, Dewey; Toennies, Klaus D.; Zenios, Stavros A.) A parallelized algorithm for image reconstruction from noisy projections. (see 91h:60029)
- Jain, Anil K. (with Dubes, Richard C.) ★ Algorithms for clustering data. 91h:68155
- Ja'Ja', Joseph (see Chakrabarti, Chaitali, 91i:68020)
- Jiang, Hang Yi (with Cai, Yuan Long) Laplacian of spline for edge detection. 91g:65057
- Karayiannis, Nikolaos B. (with Venetsanopoulos, Anastasios N.) Regularization theory in image restoration—the stabilizing functional approach. 91c:94001
- Keenan, Daniel M. (see Grenander, U., 91a:68229 and 91m:92051)
- Khalimsky, Efim (see Kong, T. Y., 91e:54106)
- Kim, Changwook Picture iteration and picture ambiguity. 91f:68116
- Kong, T. Y. (with Khalimsky, Efim) Polyhedral analogs of locally finite topological spaces. 91e:54106
- Kutsenko, L. N. ★ Машинная графика в задачах проекционной природы. (Russian) [Computer graphics in problems of a projection nature] 91m:68165
- Lempel, Abraham (see Sheinwald, Dafna, et al., 91k:94017)
- Levitan, S. Yu. (see Bakushinskii, A. B., et al., 91c:92034)
- Longinetti, M. (see Bianchi, Gabriele, 91f:68206)
- Mardia, K. V. (with Dryden, I. L.) Shape distributions for landmark data. 91f:60036
- Odhner, Dewey (see Herman, Gabor T., et al., (91h:60029))
- Pal, Sankar K. Fuzzy tools for the management of uncertainty in pattern recognition, image analysis, vision and expert systems. (Not in MR)
- Pavlovic, Gordana (see Tekalp, A. Murat, (Not in MR))
- Piccinini, Livio Clemente Discrete exterior measures and their meaning in applications. 91b:28003
- Piccioni, Mauro (see Frigessi, Arnoldo, 91j:60155)
- Rao, Kamisetty Ramamohan (see Chitprasert, B., (Not in MR))
- Rosse, Christian Order-configuration functions: mathematical characterizations and applications to digital signal and image processing. 91f:60002
- Sahoo, P. K. Circularly symmetric separable functions are Gaussian. (Not in MR)
- Schempp, Walter Holographic image processing, coherent optical computing, and neural computer architecture for pattern recognition. (see 91a:78001)
- Sheinwald, Dafna (with Lempel, Abraham; Ziv, Jacob) Compression of pictures by finite state encoders. 91k:94017
- Sirovich, Carole H. (see Sirovich, Lawrence, 91a:58122)
- Sirovich, Lawrence (with Sirovich, Carole H.) Low-dimensional description of complicated phenomena. 91a:58122
- Tekalp, A. Murat (with Pavlovic, Gordana) Multichannel image modeling and Kalman filtering for multispectral image restoration. (French and German summaries) (Not in MR)
- Toennies, Klaus D. (see Herman, Gabor T., et al., (91h:60029))
- Venetsanopoulos, Anastasios N. (see Karayiannis, Nikolaos B., 91c:94001)
- Wu, Min Jin Percentiles of functions and ordered functions and their applications. (Chinese. English summary) (Not in MR)
- Zenios, Stavros A. (see Herman, Gabor T., et al., (91h:60029))
- Ziv, Jacob (see Sheinwald, Dafna, et al., 91k:94017)

68U20 Simulation [see also 65Cxx]

Papatzacos, Paul Cellular automaton model for fluid flow in porous media. (Not in MR)

Items with secondary classifications in 68U20

Asmussen, Søren Validating the heavy traffic performance of regenerative simulation. 91a:60234

Chen, Hudong (see Chen, Shi Yi, et al., (Not in MR))

Chen, Shi Yi (with Chen, Hudong; Doolen, Gary D.) How the lattice gas model for the Navier-Stokes equation improves when a new speed is added. (Not in MR)

Doolen, Gary D. (see Chen, Shi Yi, et al., (Not in MR))

- Glasserman, Paul The limiting value of derivative estimators based on perturbation analysis. 91f:60243
 Haas, Peter J. (with Shedler, Gerald S.) Stochastic Petri nets with timed and immediate transitions. 91c:68005
 Schempp, Walter Neurocomputer architectures. 91c:78027
 Shedler, Gerald S. see Haas, Peter J., 91c:68005

68U30 Other applications

- Meng, Alex C.-C. (with Ntafos, Simeon) Problems in dynamic path planning. 91d:68129
 Ntafos, Simeon see Meng, Alex C.-C., 91d:68129
 Items with secondary classifications in 68U30
 Friedman, Joseph (with Hershberger, John; Snoeyink, Jack) Input-sensitive compliant motion in the plane. (see 91c:68016)
 Hershberger, John see Friedman, Joseph; et al., (91c:68016)
 Snoeyink, Jack see Friedman, Joseph; et al., (91c:68016)
 Zhang, Bo² (with Zhang, Tian; Zhang, Jian Wei; Zhang, Ling¹) Motion planning for robots with topological dimension reduction method. 91d:70021
 Zhang, Jian Wei see Zhang, Bo²; et al., 91d:70021
 Zhang, Ling¹ see Zhang, Bo²; et al., 91d:70021
 Zhang, Tian see Zhang, Bo²; et al., 91d:70021

68U99 None of the above, but in this section

- Items with secondary classifications in 68U99
 Seifallin, T. R. Analysis of the motion of a rigid object by its images. Orthogonal projection. (Not in MR)

70-XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX.}

70-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Aganović, Ibrahim (with Veselić, K.) ★ Uvod u analitičku mehaniku. (Serbian) [Introduction to analytical mechanics] 91f:70001
 (Aleksanova, Irene) see Chetaev, N. G., 91c:70001
 Chetaev, N. G. ★ Theoretical mechanics. 91c:70001
 Crawford, Frank S. Elementary examples of adiabatic invariance. 91a:70001
 Fabrizio, Mauro ★ La meccanica razionale e i suoi metodi matematici. (Italian) [Rational mechanics and its mathematical methods] 91c:70001
 Grassini, Renato ★ Meccanica razionale. (Italian) [Rational mechanics] 91m:70001
 Jelitto, Rainer J. ★ Theoretische Physik I: Mechanik I. (German) [Theoretical physics I: Mechanics I] 91a:70002a
 — ★ Theoretische Physik 2: Mechanik II. (German) [Theoretical physics 2: Mechanics II] 91a:70002b
 Markeev, A. P. ★ Теоретическая механика. (Russian) [Theoretical mechanics] 91g:70001
 Park, David A. ★ Classical dynamics and its quantum analogues. 91c:70002
 Pfeiffer, Friedrich ★ Einführung in die Dynamik. (German) [Introduction to dynamics] 91b:70001
 Scheck, Florian ★ Mechanics. 91f:70001
 Veselić, K. see Aganović, Ibrahim, 91f:70001

Items with secondary classifications in 70-01

- Iacob, Calus ★ Matematică aplicată și mecanică. (Romanian) [Applied mathematics and mechanics] 91a:90001
 de Mestre, Neville ★ The mathematics of projectiles in sport. 91f:70005
 Rimrott, F. P. J. ★ Introductory attitude dynamics. 91b:70045
 Schmutzer, Ernst ★ Grundlagen der Theoretischen Physik. Teil I. (German) [Foundations of theoretical physics. Part I] 91b:00003a

70-02 Research exposition (monographs, survey articles)

- (Miklaszewski, Ryszard) see Piszczek, K., 91b:70002
 Niziol, J. see Piszczek, K., 91b:70002
 Piszczek, K. (with Niziol, J.) ★ Random vibration of mechanical systems. 91b:70002
 (Watson, Margaret Helen) see Piszczek, K., 91b:70002

Items with secondary classifications in 70-02

- Gliklikh, Ya. E. ★ Анализ на римановых многообразиях в задаче математической физики. (Russian) [Analysis on Riemannian manifolds and problems in mathematical physics] 91j:58031

70-03 Historical (must also be assigned at least one classification number from Section 01)

- Stepanova, L. A. An unsuccessful attempt to defend the priority of the classics of Russian mechanics in constructing exact solutions in the mechanics of a rigid body. (Russian) (Not in MR)

Items with secondary classifications in 70-03

- Abalakin, V. K. (with Grebenikov, E. A.) Leonhard Euler and the development of astronomy in Russia. (Russian) (see 91c:01026)
 (Aleksseev, I. S.) see Khariamov, P. V., (91a:01001)
 Arnold, V. I. ★ Huygens and Barrow, Newton and Hooke. 91b:01014
 (Barrow, Isaac) see Arnold, V. I., 91b:01014
 Dimarogonas, A. D. The origins of vibration theory. 91c:01006
 (Euler, Leonhard) see Mikhailov, G. K., (91c:01026); Rumyantsev, V. V., (91c:01026); Polyakhov, N. N., (91c:01026); Mandryka, A. P., (91c:01026); Abalakin, V. K., (91c:01026) and Nevskaya, N. L., (91c:01026)
 Filonovich, S. R. see Mikhailov, G. K., (91c:01002)
 Gernet, M. M. Voltaire's speech on behalf of Cartesians in the discussion on measurements of movement. (Russian) 91i:01033
 Grattan-Guinness, I. Modes and manners of applied mathematics: the case of mechanics. 91c:01013
 Grebenikov, E. A. see Abalakin, V. K., (91c:01026)
 Grigor'yan, A. T. Lagrange's work on mechanics. On the occasion of the bicentennial of the publication of *Mécanique analytique*. (Russian) (see 91a:01001)
 — On the history of variational principles in mechanics. (Russian) (see 91c:01002)
 Gul'eva, I. F. On the history of the problem of two fixed centers. (Russian. English summary) 91j:01025
 (Hooke, Robert) see Arnold, V. I., 91b:01014
 (Huygens, Christiaan) see Arnold, V. I., 91b:01014
 (Ishlinskii, A. Yu.) see Khariamov, P. V., (91a:01001)
 Khariamov, P. V. Why do physicists argue about the foundations of mechanics? (Russian) (see 91a:01001)
 — Mechanics and relativity theory. (Russian) 91m:01017
 Kholoshevnikov, K. V. see Nevskaya, N. L., (91c:01026)
 Kul'vetsas, L. L. The content of the concept of force in Newton's mechanics. (Russian) 91i:01023
 (Lagrange, Joseph Louis) see Grigor'yan, A. T., (91a:01001)
 (Leibniz, Gottfried Wilhelm) see Arnold, V. I., 91b:01014
 (Liouville, Joseph) see Lützen, Jesper, 91b:01045
 Lützen, Jesper The geometrization of analytical mechanics: a pioneering contribution by Joseph Liouville (ca. 1850). 91b:01045
 Maeyama, Y. A simple, accurate, geometrical approximation to the Keplerian motion. (French and German summaries) 91g:01011
 Mandryka, A. P. The significance of Leonhard Euler's investigations in ballistics. (Russian) (see 91c:01026)
 Marinichev, B. M. The development of the theory of vibrational processes and devices in the USSR. (Russian) (see 91a:01001)
 Mikhailov, G. K. (with Sedov, L. I.) The foundations of mechanics and hydrodynamics in the works of L. Euler. (Russian) (see 91c:01026)
 — (with Filonovich, S. R.) On the history of the problem on the motion of a free projectile on the rotating Earth. I. (Russian) (see 91c:01002)
 Nelmark, Yu. I. Theory of oscillations yesterday and today. (Russian) 91f:01016
 Nevskaya, N. L. (with Kholoshevnikov, K. V.) Euler and the development of celestial mechanics. (Russian) (see 91c:01026)
 (Newton, Isaac) see Arnold, V. I., 91b:01014 and Kul'vetsas, L. L., 91i:01023
 Polyakhov, N. N. Euler's investigations in mechanics during the first St. Petersburg period. (Russian) (see 91c:01026)
 (Primrose, Eric J. F.) see Arnold, V. I., 91b:01014
 Rumyantsev, V. V. Leonhard Euler and the variational principles of mechanics. (Russian) (see 91c:01026)
 Saari, Donald G. A visit to the Newtonian N -body problem via elementary complex variables. 91d:70006
 Sedov, L. I. see Mikhailov, G. K., (91c:01026)
 Takens, Floris On Poincaré's geometric investigations of the equations of classical mechanics. 91b:58077
 Tumashov, G. G. The Research Institute for Mathematics and Mechanics in the 1950s. Development of the study of mechanics. (Russian) (see 91i:01139)
 (Voltaire, François Marie) see Gernet, M. M., 91i:01033

Items listed otherwise than by author

Biography:

- Lagrange, Joseph Louis see Grigor'yan, A. T., (91a:01001)

70-04 Explicit machine computation and programs (not the theory of computation or programming)

- Petr, Basil On the symbolic manipulation of Poisson expressions in celestial mechanics. (see 91b:90029)

Items with secondary classifications in 70-04

- Canizozo, J. K. see Whelan, N. D.; et al., 91c:70031
 Channell, Paul J. (with Scovel, C.) Symplectic integration of Hamiltonian systems. 91g:58073
 Coppola, Vincent T. (with Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4 . 91a:70025
 — (with Rand, Richard H.) Averaging using elliptic functions: approximation of limit cycles. 91f:34041
 Dressig, H. (with Vulfson, I. L.) ★ Dynamik der Mechanismen. (German) [Dynamics of mechanisms] 91j:70004
 Goodings, D. A. see Whelan, N. D.; et al., 91c:70031
 Klimov, D. M. (with Rudenko, V. M.; Zhuravlev, V. F.) Application of Lie group and computer algebra to nonlinear mechanics. 91c:70029
 Meyer, Kenneth R. (with Schmidt, Dieter S.) Bifurcations of central configurations in the N -body problem. 91f:70010

- Pál, Árpád (with Párv, Bazil) On the determination of the intermediate orbit elements of an artificial earth satellite by the averaging method. II. (see 91k:00029)
 Párv, Bazil see Pál, Árpád, (91k:00029)
 Rand, Richard H. see Coppola, Vincent T., 91a:70025 and 91f:34041
 Roberson, Robert E. (with Schwertassek, Richard) ★ Dynamics of multibody systems. 91i:70007
 Rudenko, V. M. see Klimov, D. M.; et al., 91c:70029
 Schmidt, Dieter S. see Meyer, Kenneth R., 91f:70010
 Schwertassek, Richard see Roberson, Robert E., 91f:70007
 Scovel, C. see Channell, Paul J., 91g:58073
 Vulfson, L. I. see Dresig, H., 91j:70004
 Whelan, N. D. (with Goodings, D. A.; Cannizzo, J. K.) Two balls in one dimension with gravity. 91c:70031
 Zhuravlev, V. F. see Klimov, D. M.; et al., 91c:70029

70-06 Proceedings, conferences, collections, etc.

(Schiehlen, W.) see Nonlinear dynamics in engineering systems, 91m:70002

Items listed otherwise than by author

IUTAM Symposium:

Nonlinear Dynamics in Engineering Systems ★ Nonlinear dynamics in engineering systems. 91m:70002

Nonlinear dynamics in engineering systems ★ Nonlinear dynamics in engineering systems. 91m:70002

Stuttgart ★ Nonlinear dynamics in engineering systems. 91m:70002

Items with secondary classifications in 70-06

- (Lima, Ricardo) see Dynamics and stochastic processes, 91c:00022
 (Lakovskii, I. A.) see Stability of motion of solids and of deformable systems, 91b:00037
 (Matsanin, V. V.) see Problems in the mechanics of controllable motion, 91k:00028
 (Sabaev, E. F.) see Applied problems in oscillation theory, 91c:00007
 (Streit, Ludwig) see Dynamics and stochastic processes, 91c:00022
 (Vilela Mendes, R.) see Dynamics and stochastic processes, 91c:00022

Items listed otherwise than by author

Applied problems in oscillation theory ★ Прикладные проблемы теории колебаний. (Russian) [Applied problems in oscillation theory] 91c:00007

Dynamics and stochastic processes ★ Dynamics and stochastic processes. 91c:00022

Hammer ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91k:73004

Karlruhe ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00020

Lecture Notes in Physics ★ Dynamics and stochastic processes. 91c:00022

Lisbon ★ Dynamics and stochastic processes. 91c:00022

Meeting:

GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00020

— ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91k:73004

Problems in the mechanics of controllable motion ★ Проблемы механики управляемого движения. (Russian) [Problems in the mechanics of controllable motion] 91k:00028

Proceedings:

Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00020

— ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91k:73004

Stability of motion of solids and of deformable systems ★ Устойчивость движения твердых тел в деформируемых системах. (Russian) [Stability of motion of solids and of deformable systems] 91b:00037

Workshop:

Dynamics and Stochastic Processes ★ Dynamics and stochastic processes. 91c:00022

70-08 Computational methods

Candy, J. (with Rozmus, W.) A symplectic integration algorithm for separable Hamiltonian functions. 91a:70003

Chiu, J. C. see Park, K.-C.; et al., 91a:70003

Downer, J. D. see Park, K.-C.; et al., 91a:70003

Esfandiari, Ramin S. see Udawala, Firdaus E., 91f:70003

Kook, Hyung-tae (with Meiss, James D.) Application of Newton's method to Lagrangian mappings. 91b:70003

Meiss, James D. see Kook, Hyung-tae, 91b:70003

Nehill, Anna M. The accumulation of integration error. 91c:70003

Park, K.-C. (with Chiu, J. C.; Downer, J. D.) Explicit-implicit staggered procedure for multibody dynamics analysis. 91a:70003

Rozmus, W. see Candy, J., 91a:70003

Simo, J. C. (with Wong, K. K.) Unconditionally stable algorithms for rigid body dynamics that exactly preserve energy and momentum. 91f:70001

Trubitsyn, A. A. Calculation of the trajectory of motion of a material point in a two-dimensional (axisymmetric) conservative field. (Russian) 91c:70002

Udawala, Firdaus E. (with Esfandiari, Ramin S.) Nonclassically damped dynamic systems: an iterative approach. 91c:70003

Wong, K. K. see Simo, J. C., 91f:70001

Items with secondary classifications in 70-08

Aarseth, Sverre J. see Mikkola, Seppo, 91f:70011

Abdeshov, Kh. U. see Kalybaev, A. A., (91c:70036)

Allen, A. J. (with Palmer, P. L.; Papaliozou, J.) A conservative numerical technique for collisionless dynamical systems: comparison of the radial and circular orbit instabilities. 91a:85001

Bos, A. M. see Matthijse, P. C.; et al., 91b:70016

Bountis, Tassos see Vrahatis, Michael N.; et al., 91b:58209

Breedveld, P. C. see Matthijse, P. C.; et al., 91b:70016

Brennan, T. A. see Taff, L. G., 91a:70013

Budinsky, Nurit see Vrahatis, Michael N.; et al., 91b:58209

Channell, Paul J. (with Scovel, C.) Symplectic integration of Hamiltonian systems. 91g:58073

Chen, Shu Hui see Zhang, You Qi; et al., 91c:73082

Chu, Jing Yun (with Zhang, Wei Yi) The improved method of regional analysis in solving differential equations of nonlinear vibration. (Chinese. English summary) 91f:65147

Cronin, D. L. Eigenvalue and eigenvector determination for nonclassically damped dynamic systems. 91c:70038

Dekhtyarenko, V. M. An iterative algorithm for constructing periodic solutions of the plane circular restricted three-body problem. (Russian) (see 91k:00023)

— Some computational algorithms for the approximate solution of the plane circular restricted three-body problem. (Russian) (see 91k:00023)

van Dijk, J. see Matthijse, P. C.; et al., 91b:70016

Forest, Etienne (with Ruth, Ronald D.) Fourth-order symplectic integration. 91c:58054

Führer, Claus (with Leimkuhler, Benedict) ★ Formulation and numerical solution of the equations of constrained mechanical motion. 91b:70023

Gao, Ye Tian (with Li, Hua Min; Xu, Xiao Jun) The theory of meshing of conjugate surfaces with two degrees of freedom. (Chinese. English summary) (Not in MR)

Golkov, A. R. Numerical-analytical theory of the motion of artificial satellites of celestial bodies. (Russian) 91f:70020

Greengard, Leslie (with Gropp, William D.) A parallel version of the fast multipole method. 91c:78003

Gropp, William D. see Greengard, Leslie, 91c:78003

Haug, Edward J. see Hwang, R. S., 91c:70013 and Kim, Sung-Soo, 91c:70015

Henrard, Jacques A semi-numerical perturbation method for separable Hamiltonian systems. 91j:70013

Hietarinta, Jarmo see Mikkola, Seppo, (Not in MR) and (Not in MR)

Hsu, Chieh Su see Sun, J.-Q., 91i:93066

Hughes, P. C. (with Sincarsin, G. B.) Dynamics of an elastic multibody chain. B. Global dynamics. 91c:70026

— see also Sincarsin, G. B., 91c:70025

Hwang, R. S. (with Haug, Edward J.) Topological analysis of multibody systems for recursive dynamics formulations. 91c:70013

Hwang, Yil Wen see Yen, Hung Sen, 91k:70001

Ider, S. Kemal Stability analysis of constraints in flexible multibody systems dynamics. 91k:73076

Kalybaev, A. A. (with Abdeshov, Kh. U.) Solution of a many-body problem in spline-functions. (Russian) (see 91c:70036)

Kamat, Manohar P. see Kurdila, Andrew; et al., 91d:70007

Kim, Sung-Soo (with Haug, Edward J.) A recursive formulation for flexible multibody dynamics. II. Closed-loop systems. 91c:70015

Koh, C. G. (with Liaw, C. Y.) Effects of time step size on the response of a bilinear system. I. Numerical study. 91k:70026

— see also Liaw, C. Y., 91k:70027

Konoplev, V. A. Aggregate models in the mechanics of systems of solid bodies. 91m:70008

Kovalev, V. A. The method of integral splines in problems in dynamics. (Russian) 91f:65017

Krak, Yu. V. On forming the dynamics equations of manipulation robots as applied to motion control problems. 91h:70027

Krivoshchev, A. G. (with Mel'nikov, G. I.) Forced oscillations of mechanical systems with nonlinear characteristics of polynomial type. 91a:70031

Kurdila, Andrew (with Papastavridis, John G.; Kamat, Manohar P.) Role of Maggi's equations in computational methods for constrained multibody systems. 91d:70007

La Mon, Kenneth Lie series in an extended region of phase space. 91j:58061

Lin, S. L. see Zhang, You Qi; et al., 91c:73082

Leimkuhler, Benedict see Führer, Claus, 91b:70023

Leung, A. Y. T. Nonconservative dynamic substructures. 91c:73081

Li, Hua Min see Gao, Ye Tian; et al., (Not in MR)

Liaw, C. Y. (with Koh, C. G.) Effects of time step size on the response of a bilinear system. II. Stability analysis. 91k:70027

— see also Koh, C. G., 91k:70026

Makino, Junichiro Optimal order and time-step criterion for Aarseth-type N -body integrators. 91k:85002

Matthijse, P. C. (with van Dijk, J.; Bos, A. M.; Breedveld, P. C.) Simulation of rigid body systems using multibond graphs: implicit schemes for the solution of the resulting differential and algebraic equations. 91b:70016

Mel'nikov, G. I. see Krivoshchev, A. G., 91a:70031

Mikkola, Seppo (with Aarseth, Sverre J.) A chain regularization method for the few-body problem. 91f:70011

— (with Hietarinta, Jarmo) A numerical investigation of the one-dimensional Newtonian three-body problem. I. (Not in MR)

— (with Hietarinta, Jarmo) A numerical investigation of the one-dimensional Newtonian three-body problem. II. Positive energies. (Not in MR)

Morgan, Alexander P. (with Somme, Andrew John; Wampler, Charles W.) Polynomial continuation for mechanism design problems. 91f:70002

Newland, D. E. ★ Mechanical vibration analysis and computation. 91a:73044

Palmer, P. L. see Allen, A. J.; et al., 91a:85001

Papaliozou, J. see Allen, A. J.; et al., 91a:85001

Papastavridis, John G. see Kurdila, Andrew; et al., 91d:70007

Rakishchev, Z. B. Spline solution of a problem on the dynamics of a rigid body. (Russian) (see 91g:00039)

Roberson, Robert E. (with Schwertassek, Richard) ★ Dynamics of multibody systems. 91f:70007

Ruth, Ronald D. see Forest, Etienne, 91c:58054

Schwertassek, Richard see Roberson, Robert E., 91f:70007

Scovel, C. see Channell, Paul J., 91g:58073

- Sincarsia, G. B. (with Hughes, P. C.) Dynamics of an elastic multibody chain. A. Body motion equations. 91e:70025
— see also Hughes, P. C., 91e:70026
- Sommese, Andrew John see Morgan, Alexander P.; et al., 91e:70002
- Sun, J.-Q. (with Hsu, Chieh S.) Global analysis of nonlinear dynamical systems with fuzzy uncertainties by the cell mapping method. 91e:93066
- Suris, Yu. B. Preservation of integral invariants in the numerical solution of systems $\dot{x} = Kx + f(x)$. (Russian) 91m:65205
- Tuff, L. G. (with Brennan, T. A.) On solving Kepler's equation. 91a:70013
- Vrahatis, Michael N. (with Bountis, Tassos; Budinsky, Nurit) A convergence-improving iterative method for computing periodic orbits near bifurcation points. 91b:58209
- Wampler, Charles W. see Morgan, Alexander P.; et al., 91e:70002
- Xie, Zhi Yun The Hamiltonian system and the spline function. 91d:65126
- Xu, Xiao Jun see Gao, Ye Tian; et al., (Not in MR)
- Yen, Hung Sen (with Hwang, Yii Wen) Number synthesis of kinematic chains based on permutation groups. 91k:70001
- Yoshida, Haruo Construction of higher order symplectic integrators. 91h:70014
- Zhang, Wei Yi see Chu, Jing Yun, 91e:65147
- Zhang, You Qi (with Chen, Shu Hui; Lau, S. L.) Application of the incremental harmonic balance method to cubic nonlinearity systems. 91e:73002

70A05 Axiomatics, foundations

- Ernst, Emil Explicit and implicit models for the event world in classical mechanics. 91j:70002
- Sibellus, Patrick Natural contradictions and the concept of action in mechanics. 91d:70001
- Items with secondary classifications in 70A05
- (Aleksiev, I. S.) see Kharlamov, P. V., (91a:01001)
- Chobanov, Ivan Can the reputation of the Lagrangian dynamical equations be saved? (Russian and Bulgarian summaries) 91m:70005
- (Ishliinskii, A. Yu.) see Kharlamov, P. V., (91a:01001)
- Kharlamov, P. V. Why do physicists argue about the foundations of mechanics? (Russian) (see 91a:01001)
- Sedor, L. I. Some remarks on the relativistic concepts of velocity and acceleration. 91e:83004
- Sibellus, Patrick Necessary connexions in mechanics. 91e:00008
- Szczepanski, J. see Zurek, H., 91g:58091
- Wunsch, Gerhard Mechanics from a system-theoretic point of view. 91e:93004
- Zurek, H. (with Szczepanski, J.) Classical mechanics in infinite-dimensional Hilbert space. (Russian and Polish summaries) 91g:58091

70Bxx Kinematics [see also 53A17]

70B10 Kinematics of a rigid body

- Hayashi, Toyohiko (with Ogawa, Hidemitsu; Iijima, Taizo) Estimation of the reciprocating point of a rigid body moving periodically in a two-dimensional space—an iterative method using a correspondence between the forward path and the backward path. (Not in MR)
- Iijima, Taizo see Hayashi, Toyohiko; et al., (Not in MR)
- Ogawa, Hidemitsu see Hayashi, Toyohiko; et al., (Not in MR)
- Items with secondary classifications in 70B10
- Chobanov, Georgi Iv. (with Chobanov, Ivan) Quaternions and rotations. I. Finite displacements and finite rotations. (German and Russian summaries) 91e:15040a
- (with Chobanov, Ivan) Quaternions and rotations. II. Quaternions and finite rotations. (Russian summary) 91e:15040b
- Chobanov, Ivan see Chobanov, Georgi Iv., 91e:15040a and 91e:15040b
- Kuznetsov, Edward N. On immobile kinematic chains and a fallacious matrix analysis. 91a:70006
- Panayotounakos, D. E. (with Theocaris, Pericles S.) On the decoupling and solution of the Euler kinematic equations governing the motion of a gyro. 91e:70013
- Theocaris, Pericles S. see Panayotounakos, D. E., 91e:70013

70B15 Mechanisms, robots [see also 73K05]

- Baillet, John (with Martin, Daniel P.) Resolution of kinematic redundancy. (see 91i:70003)
- see also Martin, Daniel P., 91a:70004
- Baker, Daniel R. Some topological problems in robotics. 91h:70004
- Beletskii, V. V. Nonlinear effects in dynamics of controlled two-legged walking. (see 91m:70002)
- Regular and chaotic motions of the body of a two-legged mechanism. (Russian) 91j:70003
- Brockett, Roger W. Some mathematical aspects of robotics. (see 91k:70003)
- see also Park, Frank C., 91a:70005 and Robotics, 91i:70003
- Chen, Zheng Ting A mathematical model of dynamic coordinative assembling of "peg-holes"—an application of homotopy. (Chinese. English summary) 91h:70005
- (Cox, I. J.) see Autonomous robot vehicles, 91e:70007
- Diamond, R. On the factorization of rotations with examples in diffractometry. 91e:70004
- Ding, Han Flexibility control of redundant robots. (Chinese. English summary) (Not in MR)
- Dobrinov, Velichko S. (with Konstantinov, Mikhail M.; Tanev, Tan'o K.; Shivarov, Nedko S.; Yanakiev, Kostadin I.) Geometric design of running gear for mobile robots. (Bulgarian. English and Russian summaries) (Not in MR)
- Dresig, H. (with Vul'fson, I. I.) ★ Dynamik der Mechanismen. (German) [Dynamics of mechanisms] 91j:70004

- Dritsas, L. see Tzafestas, Spyros G.; et al., 91e:70003
- Du, Hong Lin (with Jin, Wan Min) A new method for Lagrangian dynamic modelling of robots. 91j:70005
- Gao, Ye Tian (with Li, Hua Min; Xu, Xiao Jun) The theory of meshing of conjugate surfaces with two degrees of freedom. (Chinese. English summary) (Not in MR)
- Hayashi, Toyohiko (with Ogawa, Hidemitsu; Iijima, Taizo) A method of extracting a kinematically characteristic point from the 3-dimensional motion of a rigid body. 91e:70004
- Hunt, K. H. ★ Kinematic geometry of mechanisms. 91e:70005
- Hwang, Yii Wen see Yen, Hung Sen, 91k:70001
- Iijima, Taizo see Hayashi, Toyohiko; et al., 91e:70004
- Jin, Wan Min see Du, Hong Lin, 91j:70005
- Kanellakopoulos, J. see Tzafestas, Spyros G.; et al., 91e:70003
- Kanoh, Hideaki see Tzafestas, Spyros G., 91i:70002
- Klepp, Horst J. Über den Einfluss reibungsbehafteter Bindungen auf den kinetischen Zustand von Mehrkörpersystemen. (English summary) [On the influence of friction-affected constraints on the kinetic state of multibody systems] (Not in MR)
- Konstantinov, Michael Spirou Struktur der Mechanismen und Roboter. [Structure of mechanisms and robots] 91h:70006
- Konstantinov, Mikhail M. (with Tanev, Tan'o K.; Shivarov, Nedko S.) Kinematic analysis of a mechanism with parallel topology. (Bulgarian. English and Russian summaries) (Not in MR)
- see also Dobrinov, Velichko S.; et al., (Not in MR)
- Li, Hua Min see Gao, Ye Tian; et al., (Not in MR)
- Li, Jia Chun see Ma, Yun Li, (Not in MR)
- Li, Ze Xiang (with Sastry, S. Shankar) A unified approach for the control of multifingered robot hands. 91e:70006
- (with Sastry, S. Shankar) Issues in dextrous robot hands. 91h:70007
- Lack, Kurt Eine analytische Fassung des Theorems von Roberts/Tschebyschev. [An analytic version of the Roberts-Chebyshev theorem] 91h:70008
- Ma, Yun Li (with Li, Jia Chun) Effects of bottom topography on the standing waves in circular basins. (Not in MR)
- Martin, Daniel P. (with Baillet, John) Kinematically redundant manipulators: the hyperbolic behavior of the singularly perturbed necessary conditions. 91a:70004
- see also Baillet, John, (91i:70003)
- Matyukhin, V. I. Stability of the motions of manipulator robots in a decomposition mode. 91e:70005
- Morgan, Alexander P. (with Sommese, Andrew John; Wampler, Charles W.) Polynomial continuation for mechanism design problems. 91e:70002
- Murray, Richard M. (with Sastry, S. Shankar) Grasping and manipulation using multifingered robot hands. (see 91i:70003)
- Nagai, Kiyoshi see Yoshikawa, Tsuneo, 91d:70002
- Ogawa, Hidemitsu see Hayashi, Toyohiko; et al., 91e:70004
- Park, Frank C. (with Brockett, Roger W.) Harmonic maps and the optimal design of mechanisms. 91a:70005
- Peikova, M. Dynamics of a plane locomotion robot model in the nonresonance case for the walk phase. Initial conditions. (Russian and Bulgarian summaries) (Not in MR)
- Raghavan, Madhusudan Manipulator kinematics. (see 91i:70003)
- Sastry, S. Shankar see Li, Ze Xiang, 91h:70007; 91e:70006 and Murray, Richard M., (91i:70003)
- Shahinpoor, M. Industrial robots mathematics. II. Inverse kinematics solution. (Not in MR)
- Shivarov, Nedko S. see Dobrinov, Velichko S.; et al., (Not in MR) and Konstantinov, Mikhail M.; et al., (Not in MR)
- Sommese, Andrew John see Morgan, Alexander P.; et al., 91e:70002
- Steindl, A. Bifurcation of codimension 2 for a discrete map. (see 91e:00017)
- Stifter, Sabine Mathematische Verfahren für Kollisionsprobleme bei Robotern. [Mathematical methods for robot collision problems] (see 91k:00033)
- Tanev, Tan'o K. see Dobrinov, Velichko S.; et al., (Not in MR) and Konstantinov, Mikhail M.; et al., (Not in MR)
- Tzafestas, Spyros G. (with Kanoh, Hideaki) Dynamic studies of flexible robot manipulators. 91i:70002
- (with Dritsas, L.; Kanellakopoulos, J.) Robust robot control: a comparison of three techniques through simulation. 91e:70003
- Vul'fson, I. I. see Dresig, H., 91j:70004
- Wampler, Charles W. see Morgan, Alexander P.; et al., 91e:70002
- (Wilfong, G. T.) see Autonomous robot vehicles, 91e:70007
- Wu, Ke Jian A dynamic model of a planar single-loop mechanism. (Chinese. English summary) 91h:70009
- Xu, Xiao Jun see Gao, Ye Tian; et al., (Not in MR)
- Yanakiiev, Kostadin I. see Dobrinov, Velichko S.; et al., (Not in MR)
- Yen, Hung Sen (with Hwang, Yii Wen) Number synthesis of kinematic chains based on permutation groups. 91k:70001
- Yeres'ko, A. A. Modeling the kinematics of a reinforcing manipulator. (Not in MR)
- Yoshikawa, Tsuneo (with Nagai, Kiyoshi) Analysis of multi-fingered grasping and manipulation. 91d:70002

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- Autonomous robot vehicles ★ Autonomous robot vehicles. 91e:70007
- Proceedings of Symposia in Applied Mathematics ★ Robotics. 91i:70003
- Robotics ★ Robotics. 91i:70003

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- Bacu, George (with Chou, Jack C. K.; Kesavan, H. K.) Constrained multibody systems: graph-theoretic Newton-Euler formulation. 91k:70004
- Bar-Kana, Izhak (with Guez, Allon) Simple adaptive control for a class of nonlinear systems with application to robotics. (Not in MR)
- Bayoumi, M. M. see Ma, Li, 91d:93071
- Bhattacharyya, Shankar Prashad see Moore, Kevin L.; et al., 91h:93099
- Bos, A. M. see Matthijsse, F. C.; et al., 91h:70016

- Bredveld, P. C. *see* Matthijse, P. C.; et al., 91b:70016
- Brockett, Roger W. Formal languages for motion description and map making. (see 91f:70093)
- Bryson, Arthur E., Jr. *see* Meier, Elke-Barbara. (Not in MR)
- Byrnes, Christopher I. (with Hu, Xiao Ming; Isidori, Alberto) Robust feedback stabilization of nonlinear systems. 91b:93136
- Calladine, C. R. (with Pellegrino, S.) First-order infinitesimal mechanisms. 91b:73037
- Cetinkunt, Sabri (with Wu, Sijun) Output predictive adaptive control of a single-link flexible arm. (Not in MR)
- Chang, Po Rong Computer-aided-design tool for simplification of robot dynamic model based on manipulator system performance. (Not in MR)
- Chen, Yi-Feng (with Mita, Tsutomu; Wakui, Shinji) A new and simple algorithm for sliding mode trajectory control of the robot arm. (Not in MR)
- Chen, Yon-Ping (with Yeung, K. S.) Sliding-mode control of multi-link flexible manipulators. (Not in MR)
- Chiou, J. C. *see* Park, K.-C.; et al., 91a:70003
- Chou, Jack C. K. *see* Bacu, George; et al., 91b:70004
- Dahleh, Mohammed A. *see* Moore, Kevin L.; et al., 91b:93099
- Das, Arijit (with Singh, Sahjendra N.) Dual mode control of an elastic robotic arm: nonlinear inversion and stabilization by pole assignment. (Not in MR)
- Dawson, Darren M. (with Qu, Zhihua; Lewis, F. L.; Dorsey, John F.) Robust control for the tracking of robot motion. 91e:70076
- *see also* Qu, Zhihua; et al., 91j:93066
- Degtyareva, E. V. *see* Golubev, Yu. F., 91b:70046
- De Luca, A. (with Lanari, L.; Ulivi, G.) Output regulation of a flexible robot arm. (see 91f:93002)
- van Dijk, J. *see* Matthijse, P. C.; et al., 91b:70016
- Donald, Bruce R. Planning and executing robot assembly strategies in the presence of uncertainty. (see 91f:70003)
- Dorsey, John F. *see also* Dawson, Darren M.; et al., 91e:70076 and Qu, Zhihua; et al., 91j:93066
- Downer, J. D. *see* Park, K.-C.; et al., 91b:70003
- Dresig, H. *see* Valfson, I. I., 91d:73029
- Dumkaya, N. V. (with Pyatnitskii, E. S.) The objective potential method in problems of synthesizing controls for manipulator robots. 91f:70022
- (with Pyatnitskii, E. S.) Synthesis of the control of mechanical systems by the goal potential method. 91g:70023
- Dwyer, T. A., III Slew-induced deformation shaping on slow integral manifolds. 91d:73049
- Eliseev, S. V. (with Kuznetsov, N. K.; Luk'yanov, A. V.) ★ Управление колебаниями роботов. (Russian) [Control of robot oscillations] 91f:70023
- Fedorov, Vyacheslav Vasil'evich *see* Perevoshchikov, A. G., 91c:49059
- Filimonov, A. E. *see* Gorbachëv, N. V.; et al., (Not in MR)
- Formalskii, A. M. (with Osipov, S. N.) On the problem of the time-optimal manipulator arm turning. (Not in MR)
- *see also* Lavrovskii, E. K., 91a:73030
- Georges, D. *see* Wang, De Ming; et al., (91f:93002)
- Golubev, Yu. F. (with Degtyareva, E. V.) Asymptotic solutions in the modeling of the dynamics of a walking apparatus. (Russian. English summary) 91b:70046
- Gorbachëv, N. V. (with Filimonov, A. E.; Shpakov, A. N.; Shukhov, A. G.) Algorithms for the control of transport robots in flexible manufacturing systems. (Not in MR)
- Guez, Allon *see* Bar-Kana, Izhak. (Not in MR)
- Gukasyan, A. A. Optimal control of a manipulator with electromechanical drive systems. (Russian. Armenian summary) (see 91g:00028)
- Gusev, S. V. (with Makarov, I. A.) Stabilization of the programmed motion of a transport robot with a track-laying chassis. 91b:70047
- Haller, G. (with Stépán, G.) Codimension two bifurcation in an approximate model for delayed robot control. (see 91m:58001)
- Hamam, Y. *see* Wang, De Ming; et al., (91f:93002)
- Haug, Edward J. *see* Hwang, R. S., 91c:70013 and Kim, Sung-Soo, 91c:70015
- Heinzinger, Greg *see* Noakes, J. Lyle; et al., 91b:58026
- Hettich, R. (with Still, G.) Semi-infinite programming models in robotics. (see 91k:90010)
- Hu, Xiao Ming *see* Byrnes, Christopher I.; et al., 91b:93136
- Hughes, P. C. (with Sincarsin, G. B.) Dynamics of an elastic multibody chain. B. Global dynamics. 91e:70026
- *see also* Sincarsin, G. B., 91e:70025
- Huijberts, H. J. C. (with van der Schaft, A. J.) Input-output decoupling with stability for Hamiltonian systems. 91m:93042
- Hwang, R. S. (with Haug, Edward J.) Topological analysis of multibody systems for recursive dynamics formulations. 91c:70013
- Ider, S. Kemal Stability analysis of constraints in flexible multibody systems dynamics. 91k:73076
- Isidori, Alberto *see* Byrnes, Christopher I.; et al., 91b:93136
- Jóźefczyk, Jerzy (with Kilanowski, Slawomir) An algorithm of adaptive control for some manipulators. (Russian and Polish summaries) (Not in MR)
- Karger, Adolf Classification of three-parametric spatial motions with a transitive group of automorphisms and three-parametric robot manipulators. 91b:53015
- Kesavan, H. K. *see* Bacu, George; et al., 91b:70004
- Kilanowski, Slawomir *see* Jóźefczyk, Jerzy. (Not in MR)
- Kim, Sung-Soo (with Haug, Edward J.) A recursive formulation for flexible multibody dynamics. II. Closed-loop systems. 91c:70015
- Kiryazov, P. (with Marinov, Pencho G.) On the optimal control synthesis for a class of nonlinear mechanical systems. (Russian and Bulgarian summaries) 91d:49043
- Koditschek, Daniel E. The application of total energy as a Lyapunov function for mechanical control systems. 91d:58237
- *see also* Rimon, Elon, 91m:58147
- Konoplev, V. A. Aggregate models in the mechanics of systems of solid bodies. 91m:70008
- Kozlov, Yu. M. ★ Адаптация и обучение в робототехнике. (Russian) [Adaptation and learning in robotics] 91d:93048
- Kozłowski, Krzysztof Dynamics of manipulators and robots. (Polish. English summary) (Not in MR)
- Krak, Yu. V. On forming the dynamics equations of manipulation robots as applied to motion control problems. 91b:70027
- Krawczuk, Maciej A method for suboptimal control of a manipulator-robot. (Polish. English and Russian summaries) 91j:70030
- Krut'ko, P. D. Algorithms for acceleration-based control of the motion of mechanical systems. 91i:93074
- Kuznetsov, Edward N. On immobile kinematic chains and a fallacious matrix analysis. 91a:70006
- Kuznetsov, N. K. *see* Eliseev, S. V.; et al., 91i:70023
- Lanari, L. *see* De Luca, A.; et al., (91f:93002)
- Lavrovskii, E. K. (with Formalskii, A. M.) Stabilization of a given position of an elastic rod. 91a:73030
- Leondes, Cornelius T. *see* Wang, Dau Chang, 91b:93084
- Leuning, Günter Control and stabilization of a flexible robot arm. 91b:73073
- Lewis, F. L. *see* Dawson, Darren M.; et al., 91e:70076
- Lobas, Leonid Grigor'evich Course stability of two-unit vehicles. 91a:70010
- Luk'yanov, A. V. *see* Eliseev, S. V.; et al., 91i:70023
- Malishev, Peter Analytical dynamics of multi-rigid-body systems. (see 91h:00032)
- Makarov, I. A. *see* Gusev, S. V., 91b:70047
- Marinov, Pencho G. *see* Kiryazov, P., 91i:49043
- Matthijse, P. C. (with van Dijk, J.; Bos, A. M.; Bredveld, P. C.) Simulation of rigid body systems using multibond graphs: implicit schemes for the solution of the resulting differential and algebraic equations. 91b:70016
- Matyukhin, V. I. (with Pyatnitskii, E. S.) Control of the motion of manipulation robots based on the decomposition principle taking into account the dynamics of actuators. 91f:70025
- Meier, Elke-Barbara (with Bryson, Arthur E., Jr.) Efficient algorithm for time-optimal control of a two-link manipulator. (Not in MR)
- Middleton, R. H. Adaptive control for robot manipulators using discrete time identification. (Not in MR)
- Mita, Tsutomu *see* Chen, Yi-Feng; et al., (Not in MR)
- Mo, L. (with Bayoumi, M. M.) Hybrid adaptive control for robot manipulators. 91i:93071
- Moore, Kevin L. (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Learning control for robotics. 91b:93099
- Nicosia, S. (with Tomei, Patrizio) Robot control by using only joint position measurements. 91i:70024
- (with Tomei, Patrizio; Tornambè, Antonio) Observer-based control law for a class of nonlinear systems. 91d:93014
- Noakes, J. Lyle (with Heinzinger, Greg; Paden, Brad) Cubic splines on curved spaces. 91k:58026
- Osipov, S. N. *see* Formalskii, A. M., (Not in MR)
- Paden, Brad *see* Noakes, J. Lyle; et al., 91k:58026
- Park, K.-C. (with Chiu, J. C.; Downer, J. D.) Explicit-implicit staggered procedure for multibody dynamics analysis. 91a:70003
- Pellegrino, S. *see* Calladine, C. R., 91b:73037
- Perevoshchikov, A. G. Minimax methods for designing dynamical systems. (Russian. English summary) 91h:93033
- (with Fedorov, Vyacheslav Vasil'evich) Approximation of efficiency relations in the optimization of dynamical systems. (Russian) 91c:49059
- Pyatnitskii, E. S. *see* Matyukhin, V. I., 91f:70025; Dumkaya, N. V., 91g:70023 and 91i:70022
- Qu, Zhihua (with Dorsey, John F.; Zhang, Xinfan; Dawson, Darren M.) Robust control of robots by the computed torque law. 91j:93066
- *see also* Dawson, Darren M.; et al., 91e:70076
- Rimon, Elon (with Koditschek, Daniel E.) The construction of analytic diffeomorphisms for exact robot navigation on star worlds. 91m:58147
- Roberson, Robert E. (with Schwertassek, Richard) ★ Dynamics of multibody systems. 91i:70007
- van der Schaft, A. J. *see* Huijberts, H. J. C., 91m:93042
- Schwertassek, Richard *see* Roberson, Robert E., 91i:70007
- Shamlir, T. Remarks on some dynamical problems of controlling redundant manipulators. 91k:70048
- Shpakov, A. N. *see* Gorbachëv, N. V.; et al., (Not in MR)
- Shukhov, A. G. *see* Gorbachëv, N. V.; et al., (Not in MR)
- Sincarsin, G. B. (with Hughes, P. C.) Dynamics of an elastic multibody chain. A. Body motion equations. 91e:70025
- *see also* Hughes, P. C., 91e:70026
- Singh, Sahjendra N. *see* Das, Arijit. (Not in MR)
- Speng, Mark W. Control of flexible-joint robots: a survey. (see 91m:93004)
- Sreenath, N. Accurate time critical control of many-body systems. 91d:93035
- Stavrakakis, George *see* Tzafestas, Spyros G., (Not in MR)
- Stépán, G. *see* Haller, G., (91m:58001)
- Still, G. *see* Hettich, R., (91k:90010)
- Timofeev, A. V. Adaptive control of robots. 91f:70027
- Tomei, Patrizio An observer for flexible joint robots. (Not in MR)
- *see also* Nicosia, S.; et al., 91d:93014 and 91i:70024
- Tornambè, Antonio *see* Nicosia, S.; et al., 91d:93014
- Tzafestas, Spyros G. (with Stavrakakis, George) Model reference adaptive control of industrial robots with actuator dynamics. (Not in MR)
- Ulivi, G. *see* De Luca, A.; et al., (91f:93002)
- Valfson, I. I. (with Dresig, H.) Methods for the analysis of the vibrations of mechanisms. (Russian. English summary) 91d:73029
- Wakui, Shinji *see* Chen, Yi-Feng; et al., (Not in MR)
- Wang, Dau Chung (with Leondes, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. I, II. 91b:93084
- Wang, De Ming (with Georges, D.; Hamam, Y.) Optimal path planning of manipulators with singular configurations, workspace and collision-free constraints. (see 91f:93002)

- Wu, Sijun *see* Cetinkunt, Sahri, (Not in MR)
 Young, K. S. *see* Chen, Yun-Ping, (Not in MR)
 Zhang, Bo² (with Zhang, Tian; Zhang, Jian Wei; Zhang, Ling¹) Motion planning for robots with topological dimension reduction method. 91d:70021
 Zhang, Jian Wei *see* Zhang, Bo²; et al., 91d:70021
 Zhang, Ling¹ *see* Zhang, Bo²; et al., 91d:70021
 Zhang, Tian *see* Zhang, Bo²; et al., 91d:70021
 Zhang, Xinfan *see* Qu, Zhilun; et al., 91j:93066

70B99 None of the above, but in this section

- Cherruault, Y. *see* Tedjani, A.; et al., (Not in MR)
 Guillex, A. *see* Tedjani, A.; et al., (Not in MR)
 Tedjani, A. (with Guillex, A.; Cherruault, Y.) Modélisation d'un mouvement complexe: la marche du chat. (English summary) [Modelling a complex motion: the walk of a cat] (Not in MR)

Items with secondary classifications in 70B99

- Chobanov, Georgi Iv. (with Chobanov, Ivan) The rank-theorem for systems of arrows in complex standard vector spaces. (Russian summary) 91e:15002
 Chobanov, Ivan *see* Chobanov, Georgi Iv., 91e:15002
 Vogler, Hans ★ Der Satz von A. Mannheim und A. Schoenflies in der isotropen Kinematik. (German) [The theorem of A. Mannheim and A. Schoenflies in isotropic kinematics] 91a:53022

Items with secondary classifications in 70B99

- Iacob, Calus On some notable relations in a triangle. (Romanian. French summary) 91b:51031

70C20 Statics

- Kuznetsov, Edward N. On immobile kinematic chains and a fallacious matrix analysis. 91a:70006
 Tarnai, T. Duality between plane trusses and grillages. 91e:70008

Items with secondary classifications in 70C20

- Chobanov, Georgi Iv. (with Chobanov, Ivan) The rank-theorem for systems of arrows in complex standard vector spaces. (Russian summary) 91e:15002
 Chobanov, Ivan *see* Chobanov, Georgi Iv., 91e:15002
 Jacob, Calus On a mechanical meaning of Ptolemy, Möbius, Neuberger and Pompeii theorems. 91c:51030
 Kolumban, I. Über die Trägheitsmomente. [On moments of inertia] 91a:26012
 Rapcsák, Tamás (with Szenthe, J.) On the connection between mechanical force equilibrium and nonlinear programming. (German and Russian summaries) 91m:70018
 Szenthe, J. *see* Rapcsák, Tamás, 91m:70018

70Dxx Dynamics of a particle [see also 70Hxx]

Items with secondary classifications in 70Dxx

- de Mestre, Neville ★ The mathematics of projectiles in sport. 91f:70005

70D05 Newtonian dynamics

- Armstrong, A. J. *see* Phillipsen, Paul E., 91b:70010
 Esquivel, José Leopoldo (with Vilchez, Marta Eugenia) Comments on Newtonian mechanics. (Spanish. English summary) 91e:70009
 González-López, A. Symmetries of linear Newtonian systems. 91a:70007
 Iacob, Calus On a Newton's problem. (see 91k:00029)
 Phillipsen, Paul E. (with Armstrong, A. J.) Map dynamics and Newton's second law. 91h:70010
 Salikashvili, R. S. Stationary motions of bodies that admit groups of symmetries of regular polyhedra in a Newtonian force field. 91h:70010
 Vilchez, Marta Eugenia *see* Esquivel, José Leopoldo, 91e:70009

Items with secondary classifications in 70D05

- Astaburaga, María Angélica (with Fernández, Claudio; Cortés, Victor) Newtonian scattering in Hilbert space. 91j:70012
 Cortés, Victor *see* Astaburaga, María Angélica; et al., 91j:70012
 Degiovanni, Marco (with Giannoni, Fabio) Dynamical systems with Newtonian type potentials. 91h:58201
 Fernández, Claudio *see* Astaburaga, María Angélica; et al., 91j:70012
 Giacomini, H. J. Invariants of particle motion in one-dimensional time-dependent potentials. 91h:70012
 Giannoni, Fabio *see* Degiovanni, Marco, 91h:58201
 Gorrone, V. M. *see* Leach, P. G. L., 91h:34070
 Leach, P. G. L. (with Gorrone, V. M.) The relationship between the symmetries of and the existence of conserved vectors for the equation $\ddot{r} + f(r)\dot{L} + g(r)r = 0$. 91h:34070
 Mamyrav, N. U. *see* Mamyrav, N. U.; et al., 91m:70020
 Mamyrav, N. U. (with Mamyrav, N. U.; Sharshcheva, A. A.) A generalized form of a Galilean system of coordinate transformations. (Russian) 91m:70020
 Marinea, V. *see* Obădeanu, V., 91d:70009 and 91g:70016
 Obădeanu, V. (with Marinea, V.) Une méthode de résolution du problème inverse de la mécanique newtonienne en formalisme hamiltonien. [A method for solving the inverse problem of Newtonian mechanics in the Hamiltonian formalism] 91d:70009
 — (with Marinea, V.) Sur le problème inverse dans la mécanique newtonienne. [On the inverse problem in Newtonian mechanics] 91g:70016
 — Le problème direct de la mécanique newtonienne. [The direct problem in Newtonian mechanics] 91h:70016
 Sharshcheva, A. A. *see* Mamyrav, N. U.; et al., 91m:70020

- Solimini, Sergio On forced dynamical systems with a singularity of repulsive type. 91d:58041

- Yajima, Yukinobu Topological games and applications. 91d:54028

70D10 Lagrangian dynamics

Items with secondary classifications in 70D10

- Gallullin, A. S. Inverse problems in dynamics: methods, perspectives. (Russian. English summary) 91h:70015
 Karapetyan, A. V. The Routh theorem and its extensions. 91e:70059
 Trubitsyn, A. A. Calculation of the trajectory of motion of a material point in a two-dimensional (axisymmetric) conservative field. (Russian) 91e:70002

70D99 None of the above, but in this section

- Abdrakhmanov, A. M. Integrable systems with elastic reflections. (Russian) 91k:70002
 Cetto, Ana María *see* de la Peña, Luis, 91e:70011
 Holas, A. (with March, N. H.) A generalisation of the Runge-Lenz constant of classical motion in a central potential. 91c:70006
 Leonov, N. N. Dynamical analysis of pitch and toss and roulette. (Russian) 91e:70004
 March, N. H. *see* Holas, A., 91c:70006
 Mijatović, Mijat (with Trenčevski, Kostadin) Caustics of classical particle scattering. 91h:70011
 de la Peña, Luis (with Cetto, Ana María) Constructing integrals of motion by elementary means. (Spanish summary) 91e:70011
 Puel, François Three-dimensional equations of Szebehely of the inverse problem and Frenet reference frame. 91c:70007
 Trenčevski, Kostadin *see* Mijatović, Mijat, 91h:70011

Items with secondary classifications in 70D99

- Holmes, Brian W. Putting: How a golf ball and hole interact. 91k:70015
 Korsch, H. J. (with Lang, J.) A new integrable gravitational billiard. 91j:70014
 Lang, J. *see* Korsch, H. J., 91j:70014

70Exx Dynamics of a rigid body

70E05 Motion of the gyroscope

- El-Sabaa, F. M. F. On the periodic motion of a gyroscope supported by Cardan gimbals. (Arabic summary) 91e:70012
 Grioli, Giuseppe Regular precessions in a central Newtonian field of forces. 91a:70008
 Makeev, N. N. Inertial motion of an axisymmetric gyrost in pseudo-Euclidean space. II. (Russian) (see 91g:53002)
 Panayotounakos, D. E. (with Theocaris, Pericles S.) On the decoupling and solution of the Euler kinematic equations governing the motion of a gyro. 91e:70013
 — (with Theocaris, Pericles S.) On the decoupling and the solutions of the Euler dynamic equations governing the motion of a gyroscope. (German and Russian summaries) 91h:70001
 Savchenko, Ya. A. Dynamic properties of the Lagrange gyroscope with a nonsymmetrically positioned cavity that is filled with a fluid. (Russian) 91j:70006
 Theocaris, Pericles S. *see* Panayotounakos, D. E., 91e:70013 and 91h:70001

Items with secondary classifications in 70E05

- Atanasov, V. A. On the asymptotic stabilizability of the positions of relative equilibrium of a gyrost-satellite. (Russian) (Not in MR)
 Cid, R. (with Viguera Campuzano, A.) The analytical theory of the Earth's rotation using a symmetrical gyrost as a model. (Not in MR)
 Dokshovich, A. I. A special class of the motions of the Kovalevskaya gyroscope in the Delone case. (Russian) 91m:70006
 Gashchenko, I. N. Geometric analysis of two-frequency quasiperiodic motions of the Kovalevskaya gyroscope. (Russian) 91f:70006
 Rimrott, F. P. J. ★ Introductory attitude dynamics. 91b:70045
 Stepanov, S. Ya. Singular directions in the equilibrium orientation of a gyrost on a circular orbit. (Russian) (see 91e:00006)
 Viguera Campuzano, A. *see* Cid, R., (Not in MR)

70E10 Motion of projectiles and rockets

- de Mestre, Neville ★ The mathematics of projectiles in sport. 91f:70005

70E15 Motion of rigid bodies

- Ashbaugh, Mark S. (with Chicone, Carmen C.; Cushman, Richard H.) The twisting tennis racket. 91m:70004
 Belyaev, A. V. Analytic properties of Euler-Poisson equations. (Russian. English summary) 91h:70004
 Ben'kovich, Ya. G. An estimate for the domains of stability of uniform rotations of a heavy rigid body with cavities that are completely filled with an ideal fluid. (Russian) 91e:70014
 Bloch, Anthony M. (with Marsden, Jerrold E.) Stabilization of rigid body dynamics by the energy-Casimir method. 91b:70012
 Bobrik, P. P. Periodic solutions in a problem of a heavy rigid body with one fixed point. (Russian) 91c:70008
 Charoy-Aceves, Oscar (with Piña, E.) Symmetry lines of the dynamics of a heavy rigid body with a fixed point. (Italian and Russian summaries) 91c:70009
 Chicone, Carmen C. *see* Ashbaugh, Mark S.; et al., 91m:70004
 Chobanov, Georgi Iv. (with Chobanov, Ivan) Gibbs-Appell's nonholonomic equations as projections of Euler's dynamical axioms on appropriate axes. (Russian summary) 91h:70003

- Chobanov, Ivan (with Simeonov, Rumen) A note on two previous articles. (Russian summary) 91h:70002
- Can the reputation of the Lagrange dynamical equations be saved? (Russian and Bulgarian summaries) 91m:70005
- see also Chobanov, Georgi Iv., 91h:70003
- Chadaenko, O. M. On the existence of an integral of the fourth degree in a problem on the motion of a heavy rigid body with a liquid filling. (Russian) 91h:70004
- Cushman, Richard H. see Ashbaugh, Mark S.; et al., 91m:70004
- Diamandiev, Vasil On the invariants of Kharlamov's equations of motion of a heavy rigid body with a fixed point. (Bulgarian. English and Russian summaries) 91c:70010
- Dekshovich, A. I. Hess variables in a problem on the motion of a heavy rigid body around a fixed point. (Russian) 91g:70002
- A special class of the motions of the Kovalevskaya gyroscope in the Delone case. (Russian) 91m:70006
- El-Saba, F. M. F. On periodic solutions of the rotational motion of a rigid body. (Arabic summary) (Not in MR)
- Fedorov, Yu. N. The motion of a rigid body in a spherical support. (Russian) 91e:70015
- Gashchenko, I. N. Geometric analysis of two-frequency quasiperiodic motions of the Kovalevskaya gyroscope. (Russian) 91f:70006
- Gel'tser, Ya. M. (with Kharlip, A. D.) On a problem of the stabilization of angular motions of a satellite with respect to the center of mass. (Russian. Kazakh summary) 91h:70005
- Gorr, G. V. see Verkhovod, E. V., 91e:70019
- Kharlamova, E. I. The surface of the moving hodograph of angular velocity of a heavy gyrost at under Kovalevskaya conditions. (Russian) (Not in MR)
- Kharlamova, L. N. A solution of the equations of motion of a body under the action of potential and gyroscopic forces. (Russian) 91g:70003
- Kharlip, A. D. see Gel'tser, Ya. M., 91h:70005
- Kolesnikov, S. A. A special case in a solution of a problem on the motion of a symmetric gyrost at. (Russian) (Not in MR)
- Kozlov, Valerii V. see Zenkov, D. V., 91a:70009
- Kozlov, Z. P. Mean values of reactions in a problem on the fast rotation of a heavy rigid body with a fixed point. (Russian) (see 91h:00023)
- Kravchuk, D. N. On the study of the phase topology of a problem on the motion of a rigid body in a fluid. (Russian) 91e:70016
- Marsden, Jerrold E. see Bloch, Anthony M., 91h:70012
- Mavraganis, A. G. On the existence of symmetric periodic motions of a rigid body about a fixed point. (Not in MR)
- Molina, R. (with Viguera Campuzano, A.) Lie series and first integrals of the problem of a gyrost at with a fixed point in a central Newtonian field with potential $V^{(2)}$. (Spanish. English summary) 91h:70013
- Nozade, G. T. On the stability of vertical rotations of a rigid body suspended from an elastic string. (Russian) (see 91m:00019)
- Stability of relative equilibrium of a solid body suspended by an elastic string. 91c:70011
- Obratnova, L. V. Determining the orientation elements of a rigid body in the presence of random perturbations. (Russian) 91d:70003
- Park, Sungtae see Silverberg, Larry M., 91e:70017
- Pina, E. see Charvát-Aceves, Oscar, 91c:70009
- Popov, S. I. On the motion of a heavy rigid body about a fixed point. 91j:70007
- Rakishcheva, Z. B. Spline solution of a problem on the dynamics of a rigid body. (Russian) (see 91g:00039)
- Saltchistalov, A. A. Periodic motions that are generated from two-dimensional oscillations and rotations of a solid body on a circular orbit. (Russian) 91g:70004
- Salazar, A. (with Sanchez-Lavega, A.) Motion of a ball on a rough horizontal surface after being struck by a tapering rod. (Not in MR)
- Sanchez-Lavega, A. see Salazar, A., (Not in MR)
- Sidorenko, V. V. Motion around a fixed point of a rigid body with flexible rods that admits the symmetry group of a regular polyhedron. (Russian) 91m:70007
- Silverberg, Larry M. (with Park, Sungtae) Interactions between rigid-body and flexible-body motions in maneuvering spacecraft. 91e:70017
- Simeonov, Rumen see Chobanov, Ivan, 91h:70002
- Starzhinskii, V. M. Integration of the Euler-Poisson equations in the Kovalevskaya case. (Russian) 91k:70003
- Staruzhenko, V. A. On the solution of equations of relative equilibrium of an arbitrary rigid body suspended from a weightless rod. (Russian) (see 91h:00037)
- Temchenko, M. E. Stability of motion near the vertical of a heavy rigid body with unequal moments of inertia. (Russian) 91e:70018
- Verkhovod, E. V. (with Gorr, G. V.) A class of isoconic motions in the dynamics of a rigid body with a fixed point. (Russian) 91e:70019
- Viguera Campuzano, A. see Molina, R., 91h:70013
- Zenkov, D. V. (with Kozlov, Valerii V.) Poincaré's geometric representation in the dynamics of a multidimensional rigid body. (Russian) 91a:70009
- Items with secondary classifications in 70E15
- Akulenko, L. D. Equivalent linearization of quasilinear oscillatory systems with slowly changing parameters. (Russian) 91h:34035
- Asher, Robert B. (with Buckler, Kim; Fosha, Charles E.) Estimation of quaternions using both Euler angle and rate measurements. (see 91m:00031)
- Azizov, A. G. The motion of controllable mechanical systems with servoconstraints. 91m:70037
- Batalova, Z. S. (with Bukhalova, N. V.) Structure of the phase space of a parametrically excited rotor. (Russian) 91h:70024
- Belyaev, A. V. Singular points of the solutions of the Euler-Poisson equations. (Russian. English summary) 91j:58115
- Solutions that define the invariant tori of a perturbed Hamiltonian system. (Russian. English summary) 91h:58053
- Bloch, Anthony M. (with Marsden, Jerrold E.) Control and stabilization of systems with homoclinic orbits. 91a:93050
- Bobenko, A. I. (with Reiman, A. G.; Semenov-Tyan-Shanskii, M. A.) The Kowalewski top 99 years later: a Lax pair, generalizations and explicit solutions. 91a:58070
- Boletia, S. V. Doubly asymptotic trajectories and conditions for integrability of Hamiltonian systems. (Russian) 91e:70041
- Bryun, A. Z. A study of orbital stability by means of first integrals. 91e:70058
- Buckler, Kim see Asher, Robert B.; et al., (91m:00031)
- Bukhalova, N. V. see Batalova, Z. S., 91h:70024
- Cushman, Richard H. (with van der Meer, Jan-Cees) The Hamiltonian Hopf bifurcation in the Lagrange top. 91e:58134
- Fosha, Charles E. see Asher, Robert B.; et al., (91m:00031)
- Gubin, S. V. (with Kovalev, A. M.) Global controllability of scleronomic systems. (Russian) 91g:70024
- Kang, Wei (with Krener, Arthur J.) Observation of a rigid body from measurement of a principle axis. 91a:93005
- Karapetyan, A. V. The Routh theorem and its modifications. (Russian. English and Georgian summaries) 91g:70019
- Komarov, I. V. (with Kuznetsov, V. B.) Kowalewski's top on the Lie algebras $\mathfrak{o}(4)$, $\mathfrak{e}(3)$ and $\mathfrak{o}(3,1)$. 91d:58095
- Kovalev, A. M. see Gubin, S. V., 91g:70024
- Kovalev, V. M. see Varkhalev, Yu. P., 91e:70021
- Krener, Arthur J. see Kang, Wei, 91a:93005
- Kuznetsov, V. B. see Komarov, I. V., 91d:58095
- Lebedev, D. V. On the control of motion around the center of mass of a rotating rigid body. 91d:70020
- Marsden, Jerrold E. see Bloch, Anthony M., 91a:93050
- van der Meer, Jan-Cees see Cushman, Richard H., 91e:58134
- Noslov, F. U. Averaging in gyroscopic systems with random actions. (Russian) (Not in MR)
- Pol'yakova, L. S. Invariants of the Euler and Lagrange integrable cases. 91e:58060
- Rakhimova, M. Yu. Control of the orientation of the axis of a body on a moving point. (Russian) 91f:70026
- Reiman, A. G. see Bobenko, A. I.; et al., 91a:58070
- Relvik, Helmo Some generalizations of the Mangeron-Deleau equations. (Russian. English summary) 91a:70023
- (Ramyanter, V. V.) see Problems on the investigation of stability and stabilization of motion, 91m:00019
- Semenov-Tyan-Shanskii, M. A. see Bobenko, A. I.; et al., 91a:58070
- Simo, J. C. (with Wong, K. K.) Unconditionally stable algorithms for rigid body dynamics that exactly preserve energy and momentum. 91j:70001
- Stepanova, L. A. An unsuccessful attempt to defend the priority of the classics of Russian mechanics in constructing exact solutions in the mechanics of a rigid body. (Russian) (Not in MR)
- Tsyganova, N. Ya. Application of the principle of least constraint to some problems in theoretical mechanics. (Russian) 91h:70018
- Varkhalev, Yu. P. (with Kovalev, V. M.) Asymptotic uniform motions of a gyrost at with respect to an inclined axis. (Russian) 91e:70021
- Vasil'eva, T. D. Euler equations in Lie algebras over group rings. (Russian) 91d:58109
- Vlasov, E. V. A Lax representation for some integrable cases of Euler equations on some six-dimensional Lie algebras. (Russian) 91h:58106
- Vorotnikov, V. I. Optimal stabilization of motion with respect to some of the variables. (Russian) 91h:93075
- Wong, K. K. see Simo, J. C., 91j:70001
- Zhukov, A. I. The geometry of invariant manifolds of a top in a quadratic potential field. 91j:58084
- Zubov, V. I. A complete system of first integrals for equations of motion. 91e:34010
- Items listed otherwise than by author
- Problems on the investigation of stability and stabilization of motion ★ Задачи исследования устойчивости и стабилизации движения. (Russian) [Problems on the investigation of stability and stabilization of motion] 91m:00019

70E20 Perturbation methods for Euler's equations

- Kovalev, V. M. see Varkhalev, Yu. P., 91e:70021
- Leshchenko, D. D. (with Sallam, S. N.) Perturbed rotational motions of a rigid body that are close to a regular precession. 91e:70020
- Sallam, S. N. see Leshchenko, D. D., 91e:70020
- Sazonov, V. V. see Sidorenko, V. V., 91j:70008
- Sidorenko, V. V. (with Sazonov, V. V.) Perturbed motions of a rigid body that are close to regular precessions in the Lagrangian case. (Russian) 91j:70008
- Varkhalev, Yu. P. (with Kovalev, V. M.) Asymptotic uniform motions of a gyrost at with respect to an inclined axis. (Russian) 91e:70021

Items with secondary classifications in 70E20

- Belyaev, A. V. Solutions that define the invariant tori of a perturbed Hamiltonian system. (Russian. English summary) 91h:58053
- El-Saba, F. M. F. On the periodic motion of a gyroscope supported by Cardan gimbals. (Arabic summary) 91e:70012
- Temchenko, M. E. Stability of motion near the vertical of a heavy rigid body with unequal moments of inertia. (Russian) 91e:70018

70E99 None of the above, but in this section

- Arcewicz, K. Application of graph theory to the mathematical modelling of a class of rigid body systems. 91e:70012
- Baciu, George (with Chou, Jack C. K.; Kesavan, H. K.) Constrained multibody systems: graph-theoretic Newton-Euler formulation. 91h:70004
- Bert, Charles W. Dynamics and stability of unicycles and monocycles. 91h:70014
- Blajer, Wojciech A useful matrix form of Kane's equations. 91h:70005
- Bloch, Anthony M. Stability analysis of a rotating flexible system. 91e:70022
- Box, A. M. see Matthijse, P. C.; et al., 91h:70016
- Bredveld, P. C. see Matthijse, P. C.; et al., 91h:70016

- Chernous'ko, F. L. *see* Pivovarov, M. L., 91e:70023
- Chou, Jack C. K. *see* Baciu, George; et al., 91k:70004
- van Dijk, J. *see* Matthijssse, P. C.; et al., 91b:70016
- Ferrer, Sebastián (with Marco, María J.; Osácar, Carlos; Palacián, Jesús F.) "Rigid body in torque-free rotation" pattern in a model of quartic coupled oscillators and its bifurcations. 91j:70009
- Haug, Edward J. *see* Hwang, R. S., 91c:70013; Kim, Sung-Soo, 91c:70014 and 91c:70015
- Huber, Wolfgang Summational invariants in systems of mass points and rigid bodies. 91f:70007
- Hughes, P. C. (with Sincarsin, G. B.) Dynamics of an elastic multibody chain. B. Global dynamics. 91e:70026
- *see also* Sincarsin, G. B., 91e:70025
- Hwang, R. S. (with Haug, Edward J.) Topological analysis of multibody systems for recursive dynamics formulations. 91c:70013
- Ishlinskii, A. Yu. (with Storozhenko, V. A.; Temchenko, M. E.) Investigations of certain motions of a rigid body. (Russian. English summary) 91b:70015
- Keat, J. E. Multibody system order n dynamics formulation based on velocity transform method. (Not in MR)
- Kesavan, H. K. *see* Baciu, George; et al., 91k:70004
- Kim, Sung-Soo (with Haug, Edward J.) A recursive formulation for flexible multibody dynamics. I. Open-loop systems. 91c:70014
- (with Haug, Edward J.) A recursive formulation for flexible multibody dynamics. II. Closed-loop systems. 91c:70015
- Konoplev, V. A. Aggregate models in the mechanics of systems of solid bodies. 91m:70008
- Kozlovski, Krzysztof Dynamics of manipulators and robots. (Polish. English summary) (Not in MR)
- Lesina, M. E. (with Shevchenko, T. P.) A case of the motion of two bodies that are connected by a spherical hinge where the angular momentum of this system is equal to zero. (Russian) 91f:70006
- Lobas, Leonid Grigor'evich Course stability of two-unit vehicles. 91a:70010
- Malsner, Peter Analytical dynamics of multi-rigid-body systems. (see 91h:00032)
- Marco, María J. *see* Ferrer, Sebastián; et al., 91j:70009
- Matthijssse, P. C. (with van Dijk, J.; Bos, A. M.; Breedveld, P. C.) Simulation of rigid body systems using multibond graphs: implicit schemes for the solution of the resulting differential and algebraic equations. 91b:70016
- Osácar, Carlos *see* Ferrer, Sebastián; et al., 91j:70009
- Palacián, Jesús F. *see* Ferrer, Sebastián; et al., 91j:70009
- Patrick, George W. The dynamics of two coupled rigid bodies in three-space. 91c:70016
- Pivovarov, M. L. (with Chernous'ko, F. L.) Oscillations of a rigid body with a toroidal cavity filled with a viscous fluid. 91e:70023
- Polda, V. K. Characteristic motions of a vertically parallel two-wheel device. 91j:70010
- Pozdnyakovich, E. V. *see* Savchenko, A. Ya.; et al., 91e:70024
- Robertson, Robert E. (with Schwertasek, Richard) ★ Dynamics of multibody systems. 91f:70007
- Savchenko, A. Ya. (with Sudakov, S. N.; Pozdnyakovich, E. V.) The motion of a heavy rigid body, suspended on a string, with a fluid filling in vortical motion. (Russian) 91e:70024
- Schwertasek, Richard *see* Robertson, Robert E., 91f:70007
- Seffullin, T. R. Analysis of the motion of a rigid object by its images. Orthogonal projection. (Not in MR)
- Shevchenko, T. P. *see* Lesina, M. E., 91f:70006
- Sincarsin, G. B. (with Hughes, P. C.) Dynamics of an elastic multibody chain. A. Body motion equations. 91e:70025
- *see also* Hughes, P. C., 91e:70026
- Storozhenko, V. A. *see* Ishlinskii, A. Yu.; et al., 91b:70015
- Stronge, W. J. Rigid body collisions with friction. 91g:70005
- Sudakov, S. N. *see* Savchenko, A. Ya.; et al., 91e:70024
- Temchenko, M. E. *see* Ishlinskii, A. Yu.; et al., 91b:70015
- Items with secondary classifications in 70E99
- Beletskii, V. V. Regular and chaotic motions of the body of a two-legged mechanism. (Russian) 91f:70003
- Capodanno, Pierre Plane small oscillations of a rigid body with a cavity containing a liquid and closed by an elastic cover. 91e:70013
- Chlou, J. C. *see* Park, K.-C.; et al., 91a:70003
- Downer, J. D. *see* Park, K.-C.; et al., 91a:70003
- Dresig, H. (with Vulfson, I. I.) ★ Dynamik der Mechanismen. (German) [Dynamics of mechanisms] 91j:70004
- Dritsas, L. *see* Tzafestas, Spyros G.; et al., 91f:70003
- Du, Hong Liu (with Jin, Wan Min) A new method for Lagrangian dynamic modelling of robots. 91f:70005
- Ferrándiz Leal, José Manuel (with San Satorio Lapeña, María Eugenia) General motion of a triaxial rigid body in a Newtonian force field. 91e:70033
- Homma, Takahiro (with Inamoto, Tadashi; Miyazaki, Tadashi) Alternative formulation in the constrained Hamiltonian system of a rigid rotator. 91g:81077
- Hu, Cheng Dong (with Liu, Wei²; Wang, Zai Shen) The basic dynamical equations of multibody systems. I. (Chinese. English summary) 91b:73045
- Ider, S. Kemal Stability analysis of constraints in flexible multibody systems dynamics. 91k:73076
- Inamoto, Tadashi *see* Homma, Takahiro; et al., 91g:81077
- Jin, Wan Min *see* Du, Hong Liu, 91f:70005
- Kamat, Manohar P. *see* Kurdila, Andrew; et al., 91d:70007
- Kanellakopoulos, J. *see* Tzafestas, Spyros G.; et al., 91f:70003
- Khrstov, O. *see* Lřlov, L., 91c:70014
- Kopachevskii, N. D. (with Krein, S. G.; Ngô Huy Can) ★ Операторные методы в линейной гидродинамике. (Russian) [Operator methods in linear hydrodynamics] 91h:76001
- Kozlov, Valerit V. On a problem of a heavy rigid body falling in a resisting medium. (Russian) 91m:76041
- Krein, S. G. *see* Kopachevskii, N. D.; et al., 91h:76001
- Kurdila, Andrew (with Papastavridis, John G.; Kamat, Manohar P.) Role of Maggi's equations in computational methods for constrained multibody systems. 91d:70007
- Lewis, Debra (with Simo, J. C.) Nonlinear stability of rotating pseudo-rigid bodies. 91d:58076
- Lřlov, L. (with Khrstov, O.) The stability of equilibrium states of a satellite-gyrost with a damper. (Russian. English and Bulgarian summaries) 91c:70048
- Limarchenko, O. S. *see* Lukovskii, I. A., 91f:76008
- Liu, Wei² *see* Hu, Cheng Dong; et al., 91b:73045
- Lobas, Leonid Grigor'evich *see* Verbitskii, V. G., (Not in MR)
- Lukovskii, I. A. (with Limarchenko, O. S.) Equivalence of finite-dimensional nonlinear mathematical models of the dynamics of bodies carrying a fluid with a free surface. (Russian) 91f:76008
- Marsden, Jerrold E. *see* Simo, J. C.; et al., 91j:73036
- Matveeva, E. N. *see* Smirnov, E. Ya., 91b:70049
- Matvichuk, K. S. Conditions for technical stability of a dynamic process characterizing the rotation of a solid body on a vertical elastic rod. 91d:73038
- Miyazaki, Tadashi *see* Homma, Takahiro; et al., 91g:81077
- Ngô Huy Can *see* Kopachevskii, N. D.; et al., 91h:76001
- Papastavridis, John G. *see* Kurdila, Andrew; et al., 91d:70007
- Park, K.-C. (with Chiou, J. C.; Downer, J. D.) Explicit-implicit staggered procedure for multibody dynamics analysis. 91a:70003
- Posbergh, T. A. *see* Simo, J. C.; et al., 91j:73036
- Rumyantsev, V. V. *see* Vladimirov, V. A., 91e:70061
- Sadřtor, S. T. Conditions for the integrability of the Kirchhoff equations. (Russian) 91m:58081
- San Satorio Lapeña, María Eugenia *see* Ferrándiz Leal, José Manuel, 91e:70033
- Simo, J. C. (with Posbergh, T. A.; Marsden, Jerrold E.) Stability of coupled rigid body and geometrically exact rods: block diagonalization and the energy-momentum method. 91j:73036
- *see also* Lewis, Debra, 91d:58076
- Smirnov, E. Ya. (with Matveeva, E. N.) Control of the rotational motion of a rigid body that contains a cavity with a fluid and a gas. (Russian) 91b:70049
- Tzafestas, Spyros G. (with Dritsas, L.; Kanellakopoulos, J.) Robust robot control: a comparison of three techniques through simulation. 91f:70003
- Verbitskii, V. G. (with Lobas, Leonid Grigor'evich) The effect of internal force interactions on the steady-state motion of wheel machines. (Not in MR)
- Vladimirov, V. A. (with Rumyantsev, V. V.) On the inversion of the Lagrange theorem for a rigid body with a cavity containing a viscous fluid. 91e:70061
- Vulfson, I. I. *see* Dresig, H., 91j:70004
- Wang, Zai Shen *see* Hu, Cheng Dong; et al., 91b:73045

70Fxx Dynamics of a system of particles, including celestial mechanics

70F05 Two-body problem

- Berkovich, L. M. A generalized nonstationary two-body problem and laws of the change of mass. (Russian) (see 91e:70036)
- Brennan, T. A. *see* Taff, L. G., 91a:70013
- Depřit, André (with Miller, Bruce R.; Williams, Carol A.) Gylden systems: rotation of pericenters. 91a:70011
- Edelman, Colette Rectifications régularisantes du problème des deux corps. (English summary) [Regularizing rectifications of the two-body problem] 91f:70008
- Grammaticos, B. (with Ramani, A.) Comment on: "Integrable potentials with logarithmic integrals of motion" [J. Phys. A 21 (1988), no. 18, 3537-3546; MR 89k:70019] by S. Ichtiaroglou and G. Voyatzis. 91c:70017
- Ichtiaroglou, S. *see* Grammaticos, B., 91c:70017
- Kelly, Thomas J. A note on first-order normalizations of perturbed Keplerian systems. 91a:70012
- Lokhin, B. I. Quadrature solution of differential equations of variations of elements of motion of a point in a force field depending on two arbitrary functions of elliptic coordinates (construction of a proof). (Russian) (see 91b:34004)
- Miller, Bruce R. *see* Depřit, André; et al., 91a:70011
- Orlov, V. V. A class of nearly periodic orbits. (Russian. English summary) 91h:70017
- Plebański, J. F. (with Przanowski, M.) The n -dimensional classical Kepler's problem "without integration". (Spanish summary) (Not in MR)
- Przanowski, M. *see* Plebański, J. F., (Not in MR)
- Ramani, A. *see* Grammaticos, B., 91c:70017
- Taff, L. G. (with Brennan, T. A.) On solving Kepler's equation. 91a:70013
- Timoshkova E. I. Solution of an inverse problem of stellar dynamics in the two-dimensional case. (Russian. English summary) 91c:70018
- (Voyatzis, G.) *see* Grammaticos, B., 91c:70017
- Williams, Carol A. *see* Depřit, André; et al., 91a:70011
- Zhuraviev, S. G. A photogravitational restricted two-body problem. (Russian) (see 91e:70036)

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- Casasayas, J. (with Nunes, A.) Qualitative behaviour of the solutions of the Hamiltonian systems $H(r, \theta, p_r, p_\theta) = p_r^2/2 + p_\theta^2/2r^2 + V(r, \theta)$, $V(r, \theta) = -ar^{-n}(\mu \cos^2 \theta + \sin^2 \theta)^{-n/2}$, $\mu \in [1, \infty)$, $a \in \mathbb{R}^+$, $n \in \mathbb{R}^+ \setminus \{2\}$. I. Case $n \in (2, +\infty)$. 91b:58056
- (with Nunes, A.) Qualitative behaviour of the solutions of the Hamiltonian systems $H(r, \theta, p_r, p_\theta) = p_r^2/2 + p_\theta^2/2r^2 + V(r, \theta)$, $V(r, \theta) = -ar^{-n}(\mu \cos^2 \theta + \sin^2 \theta)^{-n/2}$, $\mu \in [1, \infty)$, $a \in \mathbb{R}^+$, $n \in \mathbb{R}^+ \setminus \{2\}$. II. Case $n \in (0, 2)$. 91b:58057
- Cushman, Richard H. *see* van der Meer, Jan-Cees, 91m:70022
- Elshaboury, S. M. Equations of motion of elliptically-restricted problem of a body with variable mass and two tri-axial bodies. 91k:70006
- Ferrándiz Leal, José Manuel Extended canonical transformations increasing the number of variables. 91e:70049
- France, J. M. An asymptotic solution for Depřit's radial intermediary with atmospheric drag. (Spanish. English summary) 91a:70035

- Françoise, Jean-Pierre (with Irigoyen, Maylis) Systèmes hamiltoniens non intégrables et instabilité des solutions d'équations de Hill. (English summary) [Nonintegrable Hamiltonian systems and instability of solutions of Hill's equations] 91g:70012
- Gulyaev, V. I. (with Koshkin, V. L.; Vasil'ev, A. B.) Regularizing transformations in problems on optimal multi-impulse encounters. (Russian) 91f:70024
- Irigoyen, Maylis see Françoise, Jean-Pierre, 91g:70012
- Katayama, Noriaki A note on the Kepler problem in a space of constant curvature. 91g:81014
- Errata to: "A note on the Kepler problem in a space of constant curvature". 91g:81014b
- Koshkin, V. L. see Gulyaev, V. I.; et al., 91f:70024
- Marco, Jean-Pierre Variétés de mouvements et régularisation des systèmes dynamiques. (English summary) [Manifolds of motions and the regularization of dynamical systems] 91g:58083
- van der Meer, Jan-Cees (with Cushman, Richard H.) Orbiting dust under radiation pressure. 91m:70022
- Meyer, Kenneth R. The geometry of harmonic oscillators. 91h:70017
- Natenzon, M. Ya. (with Neishtadt, A. I.; Sagdeev, R. Z.; Seryakov, G. K.; Zaslavskii, G. M.) Chaos in the Kepler problem and long-period comet dynamics. 91d:58164
- Neishtadt, A. I. see Natenzon, M. Ya.; et al., 91d:58164
- Nunes, A. see Casasayas, J., 91b:58056 and 91b:58057
- Pál, Árpád (with Párv, Bazil) On the determination of the intermediate orbit elements of an artificial earth satellite by the averaging method. II. (see 91k:00029)
- (Pál, Árpád, 91k:00029)
- (Roy, Archie E.) see Long-term dynamical behaviour of natural and artificial N -body systems, 91h:70021
- Sagdeev, R. Z. see Natenzon, M. Ya.; et al., 91d:58164
- Seryakov, G. K. see Natenzon, M. Ya.; et al., 91d:58164
- Seryukov, P. F. Additional analytical first integrals of a problem on the motion of a satellite of a triaxial planet. (Russian) (see 91k:00028)
- Vasil'ev, A. B. see Gulyaev, V. I.; et al., 91f:70024
- Zaslavskii, G. M. see Natenzon, M. Ya.; et al., 91d:58164
- Items listed otherwise than by author
- Cortina d'Ampezzo ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91b:70021
- Long-term dynamical behaviour of natural and artificial N -body systems ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91b:70021
- NATO Advanced Study Institute:
Long-Term Dynamical Behaviour of Natural and Artificial N -Body Systems ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91b:70021

70F07 Three-body problem

- Admiyarov, K. T. Regular motions in the restricted three-body problem of translational-rotational motion. (Russian) 91m:70009
- Bekov, A. A. (with Mukhametkalieva, R. K.) Stability of coplanar libration points of the restricted variable-mass three-body problem. (Russian) (see 91e:70036)
- Benseny, Antoni (with Olvera, Arturo) Escape and capture in the RTBP. 91h:70008
- Breznar, Andrei About some qualitative aspects in the restricted problem of three bodies. 91e:70014
- Cabral, H. E. Constant inclination solutions in the three-body problem. 91b:70018
- Caranicas, N. D. see Henard, Jacques, 91d:70004
- Chauvineau, B. (with Mignard, F.) Generalized Hill's problem: Lagrangian Hill's case. 91a:70015
- Choudhary, P. K. see Haque, M.; et al., 91c:70022
- Choudhry, R. K. see Kedia, Lalita, 91k:70007 and Kumar, Vijay, 91k:70008
- Contopoulos, G. Qualitative characteristics of dynamical systems. 91c:70019
- Das, Ranjeet Kumar (with Shrivastava, Ajay Kumar; Ishwar, B.) Existence of libration points in the elliptic restricted problem of three bodies with variable mass. 91c:70020
- Dekhtyarenko, V. M. An iterative algorithm for constructing periodic solutions of the plane circular restricted three-body problem. (Russian) (see 91k:00023)
- Some computational algorithms for the approximate solution of the plane circular restricted three-body problem. (Russian) (see 91k:00023)
- Demin, V. G. (with Evteev, V. P.) ★ Эллиптическая задача трех тел. (Russian) [The elliptic three-body problem] 91a:70016
- Diace, Florin Nicolae On the planar syzygy solutions of the 3-body problem. 91b:70019
- Elshaboury, S. M. Equations of motion of elliptically-restricted problem of a body with variable mass and two tri-axial bodies. 91k:70006
- Existence of particular solutions in the generalised restricted problem of three bodies with variable masses. (Not in MR)
- Evteev, V. P. Periodic solutions of a two-dimensional elliptic three-body problem. (Russian. Tajiki summary) 91a:70017
- (with Makhmudov, M. M.) An optimal method for finding periodic solutions of the restricted circular three-body problem. (Russian. Tajiki summary) 91a:70018
- see also Demin, V. G., 91a:70016
- Fiziev, P. P. (with Fizieva, Ts. Ya.) Modification of hyperspherical coordinates in the classical three-particle problem. 91c:70021
- Fizieva, Ts. Ya. see Fiziev, P. P., 91c:70021
- Gerasimov, I. A. Conditions for the existence of Poincaré periodic solutions of the second kind. 91c:70027
- (with Mushailov, B. R.) Resonance motions of the particles of an oblate planet's ring. 91a:70019
- (with Mushailov, B. R.) Evolution of asteroid orbits in the case of first-order commensurability. Exterior problem. 91m:70010
- Grufić, P. (with Simonović, N.) The small-energy three-body systems. 91c:70028
- Hadrava, P. see Kadrošnik, J., 91g:70006
- Haque, M. (with Choudhary, P. K.; Manaziruddin) Nonlinear stability of the triangular points of equilibrium in the restricted three-body problem when the bigger primary is an oblate spheroid. 91c:70022

- Henard, Jacques (with Caranicas, N. D.) Motion near the 3/1 resonance of the planar elliptic restricted three-body problem. 91d:70004
- Hietarinta, Jarmo see Mikkola, Seppo, (Not in MR) and (Not in MR)
- Ikomov, A. Periodic solutions of the restricted three-body problem. (Russian. Tajiki summary) 91f:70009
- see also Mukhamadiev, E. M., 91m:70011
- Ishwar, B. see Das, Ranjeet Kumar; et al., 91c:70020
- Kadrošnik, J. (with Hadrava, P.) Analytical continuation of stability of periodic orbits in the restricted three-body problem. 91g:70006
- Karimov, S. R. (with Sokol'skii, A. G.) Periodic motions generated by Lagrangian solutions of the circular restricted three-body problem. 91g:70007
- Kedia, Lalita (with Choudhry, R. K.) On the libration points in relativistic elliptic restricted problem of three bodies. 91k:70007
- Kiang, Tao A simplification in the calculation of the characteristic exponents of the plane circular model of three bodies. 91a:70020
- Kumar, Vijay (with Choudhry, R. K.) Nonlinear stability of the triangular libration points for the photogravitational elliptic restricted problem of three bodies. 91k:70008
- Kunitz, A. L. (with Tureshbaev, A. T.) Three-dimensional periodic solutions of a photogravitational elliptic three-body problem. (Russian) (see 91e:70036)
- Lak'yanov, L. G. Stability of libration points in the restricted three-body problem with variable masses. 91c:70029
- Makhmudov, M. M. see Evteev, V. P., 91a:70018
- Manaziruddin see Haque, M.; et al., 91c:70022
- Mignard, F. see Chauvineau, B., 91a:70015
- Mikkola, Seppo (with Hietarinta, Jarmo) A numerical investigation of the one-dimensional Newtonian three-body problem. I. (Not in MR)
- (with Hietarinta, Jarmo) A numerical investigation of the one-dimensional Newtonian three-body problem. II. Positive energies. (Not in MR)
- Mingilbaev, M. D. On an averaged restricted variable-mass three-body problem. (Russian) (see 91c:70036)
- Mukhamadiev, E. M. (with Ikomov, A.) Periodic solutions of the plane restricted elliptic three-body problem. (Russian. Tajiki summary) 91m:70011
- Mukhametkalieva, R. K. see Bekov, A. A., (91e:70036)
- Mushailov, B. R. see Gerasimov, I. A., 91a:70019 and 91m:70010
- Nezhinskii, E. M. Quasi-integrals in the restricted, circular three-body problem. 91h:70009
- Olé, M. Double collision orbits and second species solutions in the restricted three-body problem. 91c:70023
- Olvera, Arturo see Benseny, Antoni, 91h:70008
- Roy, Archie E. (with Steves, B. A.) A finite-time stability criterion for sun-perturbed planetary satellites. 91d:70005
- Shrivastava, Ajay Kumar see Das, Ranjeet Kumar; et al., 91c:70020
- Simonović, N. see Grufić, P., 91c:70028
- Sokol'skii, A. G. see Karimov, S. R., 91g:70007
- Spirig, Franz see Waldvogel, Jörg, 91c:70030
- Steves, B. A. see Roy, Archie E., 91d:70005
- Syer, Daniel F. Simple derivation of Lagrange's three-body equilibrium. 91g:70008
- Susin, Antonio Passages near triple collision. 91h:70005
- Regularization of the spatial three-body problem. Triple collision. (see 91j:00015)
- Topan, Gh. Sur une intégrale première transcendante dans certaines configurations du problème des trois corps. [A transcendental first integral in certain configurations of the three-body problem] 91b:70020
- Tureshbaev, A. T. see Kunitz, A. L., (91e:70036)
- Waldvogel, Jörg (with Spirig, Franz) Co-orbital satellites and Hill's lunar problem. 91c:70030

Items with secondary classifications in 70F07

- Ambrosetti, Antonio (with Ekeland, Ivar) Periodic solutions of a class of Hamiltonian systems with singularities. 91m:58127
- Bahri, Abbas (with Rabinowitz, Paul H.) Periodic solutions of some problems of 3-body type. 91a:58151
- (with Rabinowitz, Paul H.) Orbites périodiques des systèmes hamiltoniens singuliers du type de celui des trois corps. (English summary) [Periodic orbits of singular Hamiltonian systems of three-body type] 91d:58208
- Broucke, R. (with Konopliv, Alex) Some models for the motion of the co-orbital satellites of Saturn. 91m:70014
- Bryant, John G. A formulation of the N -body problem where the velocities are bounded. 91g:70009
- Ekeland, Ivar see Ambrosetti, Antonio, 91m:58127
- Hadjdemetriou, John D. Algebraic mappings near a resonance with an application to asteroid motion. 91c:70034
- Hough, Michael E. Analytic continuation of periodic orbits from equilibria of two-degree-of-freedom systems in rotating coordinates. 91m:70021
- Khapaev, Mikhail Mikhailovich On the evolution of planetary orbits. 91h:70008
- Konopliv, Alex A perturbation method and some applications. 91d:70017
- see also Broucke, R., 91m:70014
- Kummer, Martin P. Erratum: "On the regularization of the Kepler problem" [Comm. Math. Phys. 84 (1982), no. 1, 133–152; MR 84d:58028]. (Not in MR)
- Lacomba, Ernesto A. (with Peredo R., Felipe) Escape-equilibrium solutions in the repulsive Coulombian isosceles 3-body problem. (French summary) 91c:58040
- Peredo R., Felipe see Lacomba, Ernesto A., 91c:58040
- Rabinowitz, Paul H. see Bahri, Abbas, 91a:58151 and 91d:58208
- (Roy, Archie E.) see Long-term dynamical behaviour of natural and artificial N -body systems, 91h:70021
- Simé, Carlos Estimates of the error in normal forms of Hamiltonian systems. Applications to effective stability and examples. 91c:58164
- Sivaramakrishnan, Anand Linked twist maps in Hamiltonian systems. 91b:58120
- Wang, Jia He² Why we have not yet found a retrograde planet in the solar system? 91f:70014
- Wu, Yihren Berry's phase and the planar three-body problem. 91b:81040

Items listed otherwise than by author

Cortina d'Ampezzo ★ Long-term dynamical behaviour of natural and artificial *N*-body systems. 91b:70021

Long-term dynamical behaviour of natural and artificial *N*-body systems ★ Long-term dynamical behaviour of natural and artificial *N*-body systems. 91b:70021

NATO Advanced Study Institute:

Long-Term Dynamical Behaviour of Natural and Artificial *N*-Body Systems ★ Long-term dynamical behaviour of natural and artificial *N*-body systems. 91b:70021

70F10 *n*-body problem

Aarseth, Sverre J. see Mikkola, Seppo, 91f:70011

Abdeshov, Kh. U. see Kalybaev, A. A., (91e:70036)

Bryant, John G. A formulation of the *N*-body problem where the velocities are bounded. 91g:70009

Casasayas, J. see Nunes, A., (91j:00015)

Cadé, Ferran (with Llibre, Jaume) Symmetric central configurations of the spatial *n*-body problem. 91e:70031

Diacu, Florin Niculae The masses in a symmetric solution of the four body problem. 91a:70021

Kalybaev, A. A. (with Abdeshov, Kh. U.) Solution of a many-body problem in spline-functions. (Russian) (see 91e:70036)

Khamkaev, Yu. I. On the equations of the dynamics of the attracting point masses. 91h:70006

Llibre, Jaume see Cadé, Ferran, 91e:70031

Meyer, Kenneth R. (with Schmidt, Dieter S.) Bifurcations of central configurations in the *N*-body problem. 91f:70010

Mikkola, Seppo (with Aarseth, Sverre J.) A chain regularization method for the few-body problem. 91f:70011

Nunes, A. (with Casasayas, J.) Periodic orbits of a restricted four body problem. (Spanish) (see 91j:00015)

Pojman, J. (with Szebehely, V.) The hierarchical restricted problem with applications. 91c:70024

Pustylnikov, L. D. Some final motions in the *n*-body problem. 91m:70012

Roy, Archie E. see Long-term dynamical behaviour of natural and artificial *N*-body systems, 91b:70021

Saari, Donald G. (with Xia, Zhihong) The existence of oscillatory and superhyperbolic motion in Newtonian systems. 91c:70025

— A visit to the Newtonian *N*-body problem via elementary complex variables. 91d:70006

Schmidt, Dieter S. see Meyer, Kenneth R., 91f:70010

Szebehely, V. see Pojman, J., 91c:70024

Urman, Yu. M. Invariant expansion of the force function of mutual attraction for a system of bodies. 91c:70026

Xia, Zhihong see Saari, Donald G., 91c:70025

Items listed otherwise than by author

Cortina d'Ampezzo ★ Long-term dynamical behaviour of natural and artificial *N*-body systems. 91b:70021

Long-term dynamical behaviour of natural and artificial *N*-body systems ★ Long-term dynamical behaviour of natural and artificial *N*-body systems. 91b:70021

NATO Advanced Study Institute:

Long-Term Dynamical Behaviour of Natural and Artificial *N*-Body Systems ★ Long-term dynamical behaviour of natural and artificial *N*-body systems. 91b:70021

Items with secondary classifications in 70F10

Coti Zelati, Vittorio A class of periodic solutions of the *N*-body problem. 91c:58116

Gorni, Gianluca (with Zampieri, Gaetano) Liouville-Arnold integrability for scattering under cone potentials. 91g:70014

Greengard, Leslie (with Gropp, William D.) A parallel version of the fast multipole method. 91e:70003

Gropp, William D. see Greengard, Leslie, 91e:70003

Gurevich, B. M. Asymptotically additive integrals of the motion of particles with pairwise interaction. 91g:58079

Katayama, Noriaki On construction of completely integrable many-body systems in two dimensions. 91e:58059

Kovalevsky, J. Orbital evolution. 91e:70034

Loughi, G. (with Lusanna, Luca; Pons, J. M.) On the many-time formulation of classical particle dynamics. 91f:58029

Lusanna, Luca see Loughi, G.; et al., 91f:58029

Makino, Junichiro Optimal order and time-step criterion for Aarseth-type *N*-body integrators. 91k:85002

Milani, Andrea Secular perturbations of planetary orbits and their representation as series. 91e:70035

Narnhofer, Heide see Posch, H. A.; et al., 91j:82033

Perelman, A. M. ★ Integrable systems of classical mechanics and Lie algebras. Vol. I. 91g:58127

Pons, J. M. see Loughi, G.; et al., 91f:58029

Posch, H. A. (with Narnhofer, Heide; Thirring, W.) Dynamics of unstable systems. 91j:82033

(Reiman, A. G.) see Perelman, A. M., 91g:58127

Thirring, W. see Posch, H. A.; et al., 91j:82033

Wojtkowski, Maciej P. The system of one-dimensional balls in an external field. II. 91k:58101

Zampieri, Gaetano see Gorni, Gianluca, 91g:70014

70F15 Celestial mechanics

Barbanis, B. Escape regions of a quartic potential. 91e:70032

Barkin, Yu. V. Cassini's laws and the motion of the center of the Moon's mass according to Brown's theory. 91m:70013

Beikov, A. A. Libration points of a rotating gravitating ellipsoid with variable physical parameters. (Russian) (see 91e:70036)

Broucke, R. (with Konopliv, Alex.) Some models for the motion of the co-orbital satellites of Saturn. 91m:70014

Caranicas, N. D. A mapping for the study of the 1/1 resonance in a galactic type Hamiltonian. 91a:70022

Celletti, Alessandra Analysis of resonances in the spin-orbit problem in celestial mechanics: the synchronous resonance. I. 91f:70012

— Analysis of resonances in the spin-orbit problem in celestial mechanics: higher order resonances and some numerical experiments. II. 91h:70007

Cid, R. (with Viguera Campuzano, A.) The analytical theory of the Earth's rotation using a symmetrical gyrost as a model. (Not in MR)

Delhaise, F. (with Moons, M.) Effects of a noncircular Shepherd upon a planetary ring. (see 91b:70021)

D'Eliseo, Maurizio M. On the computation of the Laplace coefficients. 91c:70027

Depitt, André (with Ferrer, Sebastián) Simplifications in the theory of artificial satellites. 91k:70009

Fassò, Francesco On a relation among Lie series. 91k:70010

Ferrándiz Leal, José Manuel (with San Saturnio Lapcha, Maria Eugenia) General motion of a triaxial rigid body in a Newtonian force field. 91e:70033

Ferrer, Sebastián see Depitt, André, 91k:70009

Fridman, A. M. (with Gorkavii, N. N.) The origin and evolutionary dynamics of Uranian rings. 91f:70013

Gorkavii, N. N. see Fridman, A. M., 91f:70013

Henrard, Jacques (with Sato, Masae) The origin of chaotic behaviour in the Miranda-Umbriel 3:1 resonances. 91c:70028

Khapaev, Mikhail Mikhailovich On the evolution of planetary orbits. 91h:70008

Klimov, D. M. (with Rudenko, V. M.; Zhuravlev, V. F.) Application of Lie group and computer algebra to nonlinear mechanics. 91c:70029

Konopliv, Alex see Broucke, R., 91m:70014

Kovalevsky, J. Orbital evolution. 91e:70034

Message, P. J. Planetary perturbation theory from Lie series, including resonance and critical arguments. 91j:70011

Milani, Andrea Secular perturbations of planetary orbits and their representation as series. 91e:70035

Moons, M. see Delhaise, F., (91b:70021)

Nurgaliev, A. (with Omurkulov, K. A.) Stability of spiral orbits in a nonstationary galactic system with axial symmetry under constantly acting perturbations. (Russian) (see 91e:70036)

Oberti, P. An accurate solution for Nereid's motion. I. Analytic modeling. 91f:70010

Omurkulov, K. A. see Nurgaliev, A., (91e:70036)

(Omurov, T. B.) see Problems in celestial mechanics and star dynamics, 91e:70036

Opanskyuk, Yu. A. see Piragas, K. A., (91e:70036)

Piragas, K. A. (with Opanskyuk, Yu. A.) Construction of Poincaré-invariant equations of celestial mechanics. (Russian) (see 91e:70036)

Polyakova, E. N. Celestial-mechanics aspects of two- and three-body problems with variable masses. (Russian. English summary) 91h:70009

Puel, François Relation entre l'équation de Szebehely du problème inverse de la mécanique et la théorie de Hamilton-Jacobi. (English summary) [Relation between Szebehely's equation for the inverse problem of mechanics and the Hamilton-Jacobi theory] 91f:70011

Rudenko, V. M. see Klimov, D. M.; et al., 91c:70029

San Saturnio Lapcha, Maria Eugenia see Ferrándiz Leal, José Manuel, 91e:70033

Sato, Masae see Henrard, Jacques, 91c:70028

Shirina, G. I. Application of the classical problem of two fixed centers in stellar dynamics. (Russian) (see 91e:70036)

Šidlichovský, M. The existence of a chaotic region due to the overlap of secular resonances ν_3 and ν_4 . 91k:70011

Sollean, Kerry M. Formulae for the statistical interrelationships between several orbital parameters of particles in the Oort Cloud and other orbiting aggregates. 91h:70012

Viguera Campuzano, A. see Cid, R., (Not in MR)

Wang, Jia He² Why we have not yet found a retrograde planet in the solar system? 91f:70014

Zhuravlev, V. F. see Klimov, D. M.; et al., 91c:70029

Items listed otherwise than by author

Problems in celestial mechanics and star dynamics ★ Вопросы небесной механики и звездной динамики. (Russian) [Problems in celestial mechanics and star dynamics] 91e:70036

Items with secondary classifications in 70F15

Aarseth, Sverre J. see Mikkola, Seppo, 91f:70011

Aldiyarov, K. T. Regular motions in the restricted three-body problem of translational-rotational motion. (Russian) 91m:70009

Allen, A. J. (with Palmer, P. L.; Papaloizou, J.) A conservative numerical technique for collisionless dynamical systems: comparison of the radial and circular orbit instabilities. 91a:85001

Baranov, A. S. (with Volkov, M. S.) Trigonometric series expansion of the coordinates of a star moving in a nonuniform star cluster. 91c:85002

Barbanis, B. see Costopoulos, G., 91d:58150

Berkovich, L. M. A generalized nonstationary two-body problem and laws of the change of mass. (Russian) (see 91e:70036)

Bretagnon, P. Méthode itérative de construction d'une théorie générale planétaire. (English summary) [Iterative method in the construction of a general planetary theory] 91c:85001

Caranicas, N. D. see Henrard, Jacques, 91d:70004

Costopoulos, G. Qualitative characteristics of dynamical systems. 91c:70019

— (with Barbanis, B.) Lyapunov characteristic numbers and the structure of phase-space. 91d:58150

— Asymptotic curves and escapes in Hamiltonian systems. 91c:85003

Da Silva, P. A. F. see Vilhena de Moraes, R., 91e:70075

- Font Arjó, Joaquín (with Grau, Miquel) Nonlocal spiraling characteristic curves. 91c:70032
- Golikov, A. R. Numerical-analytical theory of the motion of artificial satellites of celestial bodies. (Russian) 91i:70029
- Grau, Miquel see Font Arjó, Joaquín, 91c:70032
- Hadrava, P. see Kadrnka, J., 91g:70006
- Heimberger, Joachim (with Soffel, Michael; Ruder, Hanns) Relativistic effects in the motion of artificial satellites: the oblateness of the central body. II. 91c:70050
- Hénon, Michel see Petit, Jean-Marc, 91d:70023
- Hennard, Jacques (with Caranicolas, N. D.) Motion near the 3/1 resonance of the planar elliptic restricted three body problem. 91d:70004
- Holmes, Philip Poincaré, celestial mechanics, dynamical-systems theory and "chaos". 91m:58100
- Hough, Michael E. Analytic continuation of periodic orbits from equilibria of two-degree-of-freedom systems in rotating coordinates. 91m:70021
- Kadrnka, J. (with Hadrava, P.) Analytical continuation of stability of periodic orbits in the restricted three-body problem. 91g:70006
- Kawai, Toshio (with Shida, Koichiro) An inelastic collision model for the evolution of "planetary rings". 91a:85007
- Kirpichnikov, S. N. Optimal two-impulse flights between close noncoplanar Kepler orbits. (Russian. English summary) 91c:70077
- Lotan, Pinna see Struck-Marcell, Curtis, 91m:85004
- Marchal, C. The near-resonance theorem: analysis of the vicinity of periodic solutions of analytic differential systems. 91c:70046
- Marco, Jean-Pierre Chirurgie et régularisation des variétés de mouvements. (English summary) [Surgery and regularization of manifolds of motions] 91g:58232
- Martinet, L. (with Udry, S.) Origin of chaos in slowly rotating triaxial stellar systems. 91d:50001
- Martínez, Rodrigo see Ramírez, Rafael, 91f:53018
- Mathur, Samir D. Existence of oscillation modes in collisionless gravitating systems. 91c:85002
- Mikkola, Seppo (with Aarseth, Sverre J.) A chain regularization method for the few-body problem. 91f:70011
- Nobili, Anna M. The accumulation of integration error. 91c:70003
- Palmer, P. L. see Allen, A. J.; et al., 91a:85001
- Papaliozou, J. see Allen, A. J.; et al., 91a:85001
- Pirv, Basil On the symbolic manipulation of Poisson expressions in celestial mechanics. (see 91k:00029)
- Petit, Jean-Marc (with Hénon, Michel) On a Cantor structure in a satellite scattering problem. 91f:70023
- Pfenniger, Daniel Stability of the Lagrangian points in stellar bars. 91c:85009
- Pojman, J. (with Szebehely, V.) The hierarchical restricted problem with applications. 91c:70024
- Pustylnikov, L. D. Some final motions in the n -body problem. 91m:70012
- Ramírez, Rafael (with Martínez, Rodrigo) Lyra spaces. Their application to mechanics. 91f:53018
- (Roy, Archie E.) see Long-term dynamical behaviour of natural and artificial N -body systems, 91h:70021
- Rader, Hanns see Soffel, Michael; et al., 91c:70049 and Heimberger, Joachim; et al., 91c:70050
- Schastok, J. see Soffel, Michael; et al., 91c:70049
- Schneider, Manfred see Soffel, Michael; et al., 91c:70049
- Shida, Koichiro see Kawai, Toshio, 91a:85007
- Sinityn, E. V. Evolution of the Keplerian motion of a viscoelastic planet. 91k:86013
- Soffel, Michael (with Wirrer, R.; Schastok, J.; Ruder, Hanns; Schneider, Manfred) Relativistic effects in the motion of artificial satellites: the oblateness of the central body. I. 91c:70049
- see also Heimberger, Joachim; et al., 91c:70050
- Spirig, Franz see Waldvogel, Jörg, 91c:70030
- Struck-Marcell, Curtis (with Lotan, Pinna) The varieties of symmetric stellar rings and radial caustics in galaxy disks. 91m:85004
- Szebehely, V. see Pojman, J., 91c:70024
- Timoshkova, E. I. An inverse problem for determining the potential and velocity field in a galactic plane. 91k:85008
- Udry, S. see Martinet, L., 91f:53001
- Vilhena de Moraes, R. (with Da Silva, P. A. F.) Influence of the resonance in a gravity-gradient stabilized satellite. 91c:70075
- Volkov, M. S. see Baranov, A. S., 91c:85002
- Waldvogel, Jörg (with Spirig, Franz) Co-orbital satellites and Hill's lunar problem. 91c:70030
- Wirrer, R. see Soffel, Michael; et al., 91c:70049
- Zhuravlev, S. G. A photogravitational restricted two-body problem. (Russian) (see 91c:70036)
- Items listed otherwise than by author
- Cortina d'Ampezzo ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91h:70021
- Long-term dynamical behaviour of natural and artificial N -body systems ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91h:70021
- NATO Advanced Study Institute:
- Long-Term Dynamical Behaviour of Natural and Artificial N -Body Systems ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91h:70021

70F20 Holonomic systems

- Borghero, Francesco Variational determination of the generalized Szebehely's equations. 91h:70022
- Führer, Claus (with Leimkuhler, Benedict) ★ Formulation and numerical solution of the equations of constrained mechanical motion. 91h:70023
- Kamat, Manohar P. see Kurdila, Andrew; et al., 91d:70007

- Kurdila, Andrew (with Papastavridis, John G.; Kamat, Manohar P.) Role of Maggi's equations in computational methods for constrained multibody systems. 91d:70007
- Leimkuhler, Benedict see Führer, Claus, 91h:70023
- Le Sun An Painlevé paradoxes and the law of motion of mechanical systems with Coulomb friction. (Russian) 91m:70015
- Papastavridis, John G. see Kurdila, Andrew; et al., 91d:70007
- Items with secondary classifications in 70F20
- Adams, Noah P. see Banerjee, Ajit, 91d:49049
- Azizov, A. G. The motion of controllable mechanical systems with servoconstraints. 91m:70037
- Bacu, George (with Chou, Jack C. K.; Kesavan, H. K.) Constrained multibody systems: graph-theoretic Newton-Euler formulation. 91k:70004
- Banerjee, Ajit (with Adams, Noah P.) Dynamics of classical systems based on the principle of stationary action. 91d:49049
- Blajer, Wojciech A useful matrix form of Kane's equations. 91k:70005
- Bulatov, R. M. The Hamilton-Jacobi equation and asymptotic motions of a seminatural system. (Russian. English and Serbo-Croatian summaries) 91k:70015
- Analytic solutions of the Hamilton-Jacobi equations of an irreversible system in a neighborhood of a nondegenerate maximum of the potential energy. 91k:70014
- Cardia, Franco (with Zanzotto, Giovanni) On constrained mechanical systems: d'Alembert's and Gauss' principles. 91h:70034
- Chobanov, Ivan Can the reputation of the Lagrangean dynamical equations be saved? (Russian and Bulgarian summaries) 91m:70005
- Chou, Jack C. K. see Bacu, George; et al., 91k:70004
- Kesavan, H. K. see Bacu, George; et al., 91k:70004
- Khanikaev, Yu. I. On the equations of the dynamics of the attracting point masses. 91h:70006
- Lacomba, Ernesto A. (with Tulczyjew, Włodzimierz M.) Geometric formulation of mechanical systems with one-sided constraints. 91h:58043
- Papastavridis, John G. Maggi's equations of motion and the determination of constraint reactions. 91h:70012
- Sosnitskii, S. P. On the structural instability of the equilibrium of systems with gyroscopic forces. (Russian) 91g:70021
- Tulczyjew, Włodzimierz M. see Lacomba, Ernesto A., 91h:58043
- Vinner, G. M. Stability of equilibrium of a mechanical system with a nonrestraining constraint. (Russian) 91h:70039
- Zanzotto, Giovanni see Cardia, Franco, 91h:70034

70F25 Nonholonomic systems

- Ahmed, Nasser see Ghori, Q. K., 91c:70037
- Gao, Pu Yun see Guo, Zhong Heng, 91c:70038
- Ghori, Q. K. (with Ahmed, Nasser) Particular solutions of equations of motion of nonholonomic systems. 91c:70037
- Guo, Zhong Heng (with Gao, Pu Yun) On the classic nonholonomic dynamics. 91c:70038
- see also Ma, Xiao Wu, 91m:70016
- Lao, Shao Kai Relativistic generalized Appell equations for variable-mass nonholonomic systems of any order. (Chinese. English summary) 91k:70013
- Mei, Feng Xiang A field method for solving the equations of motion of nonholonomic systems. 91c:70039
- Moshchuk, N. K. (with Sinityn, I. N.) Stochastic nonholonomic systems. 91k:70014
- Ma, Xiao Wu (with Guo, Zhong Heng) Geometrization of nonholonomic mechanical systems and their solvability. 91m:70016
- Papastavridis, John G. Maggi's equations of motion and the determination of constraint reactions. 91h:70012
- Qin, Rong Extended MacMillan's equation. 91h:70010
- Sinityn, I. N. see Moshchuk, N. K., 91k:70014
- Zemkov, D. V. Asymptotic stability of periodic solutions of equations in nonholonomic mechanics. (Russian) 91c:70040

Items with secondary classifications in 70F25

- Baryshnikov, Yu. M. A Hamiltonian form of nonholonomic variational problems. 91g:58071
- Bloch, Anthony M. (with McClamroch, N. Harris) Control of mechanical systems with classical nonholonomic constraints. 91a:93039
- Bulatov, R. M. Remarks on instability of equilibria of nonholonomic systems. (Russian) 91h:70037
- Chobanov, Georgi Iv. (with Chobanov, Ivan) Gibbs-Appell's nonholonomic equations as projections of Euler's dynamical axioms on appropriate axes. (Russian summary) 91h:70003
- Chobanov, Ivan Can the reputation of the Lagrangean dynamical equations be saved? (Russian and Bulgarian summaries) 91m:70005
- see also Chobanov, Georgi Iv., 91h:70003
- Faißusovich, L. E. Mechanics, control and symplectic geometry. (Russian) 91m:49018
- Granchina, O. A. Geodesics of a nonholonomic Finsler metric on the Heisenberg group. (Russian) 91g:53049
- Guo, Zhong Heng see Ma, Xiao Wu, 91m:70016
- Kamat, Manohar P. see Kurdila, Andrew; et al., 91d:70007
- Kurdila, Andrew (with Papastavridis, John G.; Kamat, Manohar P.) Role of Maggi's equations in computational methods for constrained multibody systems. 91d:70007
- Li, Xin* see Li, Zi Ping, 91g:70010
- Li, Zi Ping (with Li, Xin*) Generalized Noether theorem and Poincaré invariant for nonconservative nonholonomic systems. 91g:70010
- Lao, Shao Kai The generalized relativistic dynamical equations of a second-order nonholonomic system. (Chinese. English summary) 91c:70050
- McClamroch, N. Harris see Bloch, Anthony M., 91a:93039
- Montgomery, R. Isoholonomic problems and some applications. 91c:58043
- Ma, Xiao Wu (with Guo, Zhong Heng) A new classification of constraints of Hamiltonian systems and their solvability. 91j:58064

- Nesedze, G. T. Stability of relative equilibrium of a solid body suspended by an elastic string. 91c:70011
- Papastavridis, John G. *see* Kurdila, Andrew; et al., 91d:70007
- Soenitaki, S. P. On the structural instability of the equilibrium of systems with gyroscopic forces. (Russian) 91g:70021
- A case of equilibrium instability of nonholonomic Voronets systems. 91b:70038
- Tatarinov, Ya. V. Separation of variables and new topological phenomena in holonomic and nonholonomic systems. (Russian) 91a:58091
- Vutich, V. A. The principle of least action for rheonomous systems. (Russian. English summary) 91k:70016

70F30 Impulsive motion

- Papastavridis, John G. Impulsive motion of ideally constrained mechanical systems via analytical dynamics. 91b:70024

70F35 Collisions

- Cannizzo, J. K. *see* Whelan, N. D.; et al., 91c:70031
- Golubiatnikov, A. N. (with Plotnikov, S. I.) On the separation of energy from mass in inhomogeneous discrete mechanical systems. 91b:70025
- Goodings, D. A. *see* Whelan, N. D.; et al., 91c:70031
- Luck, J. M. *see* Mehta, Anita, 91c:70030
- Mehta, Anita (with Luck, J. M.) Novel temporal behavior of a nonlinear dynamical system: the completely inelastic bouncing ball. 91c:70030
- Monteiro Marques, Manuel D. P. Externally induced dissipative collisions. 91b:70013
- Nagae, R. F. (with Rubisov, D. G.) Impulse motions in a one-dimensional system in a gravitational force field. 91m:70017
- Plotnikov, S. I. *see* Golubiatnikov, A. N., 91c:70025
- Rubisov, D. G. *see* Nagae, R. F., 91m:70017
- Whelan, N. D. (with Goodings, D. A.; Cannizzo, J. K.) Two balls in one dimension with gravity. 91c:70031

Items with secondary classifications in 70F35

- Aarseth, Sverre J. *see* Mikkola, Seppo, 91f:70011
- Chen, Qi Keith (with Ding, Ming Zhou; Ott, Edward) Chaotic scattering in several dimensions. 91a:58054
- Ding, Ming Zhou *see* Chen, Qi Keith; et al., 91a:58054
- Giannoni, Marie-Joya (with Ulmo, Denis) Coding chaotic billiards. I. Noncompact billiards on a negative curvature manifold. 91d:58063
- Hannay, J. H. (with McCraw, R. J.) Barrier billiards—a simple pseudo-integrable system. 91b:58219
- Lacombe, Ernesto A. (with Peredo R., Felipe) Escape-equilibrium solutions in the repulsive Coulombian isosceles 3-body problem. (French summary) 91c:58040
- McCraw, R. J. *see* Hannay, J. H., 91b:58219
- Mikkola, Seppo (with Aarseth, Sverre J.) A chain regularization method for the few-body problem. 91f:70011
- Olle, M. Double collision orbits and second species solutions in the restricted three-body problem. 91c:70023
- Ott, Edward *see* Chen, Qi Keith; et al., 91a:58054
- Peredo R., Felipe *see* Lacombe, Ernesto A., 91c:58040
- Stronge, W. J. Rigid body collisions with friction. 91g:70005
- Susin, Antonio Passages near triple collision. 91h:70005
- Regularization of the spatial three-body problem. Triple collision. (see 91j:00015)
- Ulmo, Denis *see* Giannoni, Marie-Joya, 91d:58063
- Vanner, G. M. Stability of equilibrium of a mechanical system with a nonrestraining constraint. (Russian) 91b:70039

70F99 None of the above, but in this section

- Chen, Qiang Shun (with Chen, Shen Nian) A generalized form of the d'Alembert-Lagrange equation. (Chinese. English summary) (Not in MR)
- Chen, Shen Nian *see* Chen, Qiang Shun, (Not in MR)
- Holmes, Brian W. Putting: How a golf ball and hole interact. 91k:70015
- Kaup, D. J. *see* Wycoff, D., 91a:70024
- Mel, Feng Xiang Generalized Whittaker equations and field method in generalized classical mechanics. 91f:70015
- Rapcsák, Tamás (with Szenthe, J.) On the connection between mechanical force equilibrium and nonlinear programming. (German and Russian summaries) 91m:70018
- Relvik, Helmo Some generalizations of the Mangeron-Deleau equations. (Russian. English summary) 91a:70023
- Szenthe, J. *see* Rapcsák, Tamás, 91m:70018
- Vujić, Veljko A. ★ Dynamics of rheonomic systems. 91m:70019
- Wycoff, D. (with Kaup, D. J.) The forced Toda lattice: an integrable system. 91a:70024
- Xie, Zhi Yun The analytic solution of the Calogero completely integrable system, and its characteristics. (Chinese. English summary) 91b:70026
- Yamazaki, Susumu On the dynamical system $\dot{x}_k = -\exp[(x_{k-1} - x_{k+1})/2]$. 91b:70027

Items with secondary classifications in 70F99

- Andres, Ján Periodic derivative of solutions to nonlinear differential equations. 91b:34060
- Bartuccelli, Michele (with Christiansen, Peter L.; Muto, V.; Pedersen, N. F.) Sequence of subharmonic bifurcations and chaos in perturbed anharmonic systems. 91h:70021
- Castilla, M. S. A. C. *see* Oliva, W. M., 91b:58065
- Christiansen, Peter L. *see* Bartuccelli, Michele; et al., 91h:70021
- Common, A. K. (with Hafez, S. T.) Continued-fraction solutions to the Riccati equation and integrable lattice systems. 91c:35131
- De Oliveira, J. C. F. *see* Franca, L. N. F., 91h:70018
- Ding, Ming Zhou (with Grebogi, Celso; Ott, Edward; Yorke, James A.) Transition to chaotic scattering. 91b:81063

- Franca, L. N. F. (with De Oliveira, J. C. F.) Stability of some mechanical systems with dry friction. 91h:70018
- Gafarov, G. G. Construction of a Hamiltonian function in group canonical variables. (Russian) 91b:70030
- Gorni, Gianluca (with Zampieri, Gaetano) Reducing scattering problems under cone potentials to normal form by global canonical transformations. 91b:58127
- Grebogi, Celso *see* Ding, Ming Zhou; et al., 91b:81063
- Hafez, S. T. *see* Common, A. K., 91c:35131
- Huber, Wolfgang Summational invariants in systems of mass points and rigid bodies. 91f:70007
- Kuzlov, Valeriy V. (with Treshchëv, D. V.) Polynomial integrals of Hamiltonian systems with exponential interaction. 91d:58098
- Marie, Charles-Michel Sur la géométrie des systèmes mécaniques à liaisons actives. (English summary) [Geometry of mechanical systems with active constraints] 91k:58041
- Muto, V. *see* Bartuccelli, Michele; et al., 91h:70021
- Obădeanu, V. Le problème direct de la mécanique newtonienne. [The direct problem in Newtonian mechanics] 91h:70016
- Okubo, Susumu Integrability condition and finite-periodic Toda lattice. 91b:58064
- Oliva, W. M. (with Castilla, M. S. A. C.) A class of C^∞ -integrable Hamiltonian systems. 91b:58065
- Ott, Edward *see* Ding, Ming Zhou; et al., 91b:81063
- Pedersen, N. F. *see* Bartuccelli, Michele; et al., 91h:70021
- Stronge, W. J. Group theory for the domino effect. 91c:80022
- Takens, Shozo Localized modes in the long-time behavior of anharmonic lattices. 91d:82028
- Toda, Morikazu ★ Nonlinear waves and solitons. 91f:35001
- Treshchëv, D. V. *see* Kuzlov, Valeriy V., 91d:58098
- Tsyganova, N. Ya. Application of the principle of least constraint to some problems in theoretical mechanics. (Russian) 91k:70018
- Vereshchagin, V. L. Asymptotic integration of a Volterra lattice. 91b:34093
- Yorke, James A. *see* Ding, Ming Zhou; et al., 91b:81063
- Zampieri, Gaetano *see* Gorni, Gianluca, 91b:58127
- Zhuravlev, V. F. Mechanics of systems with unilateral constraints. (Russian. English summary) 91c:70037

70Gxx General representations of dynamical systems [see also 58Fxx]

Items with secondary classifications in 70Gxx

- Cendra, Hernan (with Ibrat, Luis A.; Marsden, Jerrold E.) Horizontal Lin constraints, Clebsch potentials and variational principles on principal fiber bundles. 91k:58028
- Głowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91f:73038
- Ibrat, Luis A. *see* Cendra, Hernan; et al., 91k:58028
- Le Tallec, Patrick *see* Głowinski, Roland, 91f:73038
- Marsden, Jerrold E. *see* Cendra, Hernan; et al., 91k:58028
- Park, David A. ★ Classical dynamics and its quantum analogues. 91c:70002

70G05 Riemannian geometry, tensorial methods [see also 53A45, 53A50, 53B20]

Items with secondary classifications in 70G05

- Gliklikh, Yu. E. Velocity hodograph equation in mechanics on Riemannian manifolds. 91e:58103

70G10 Generalized coordinates

Items with secondary classifications in 70G10

- Relvik, Helmo Some generalizations of the Mangeron-Deleau equations. (Russian. English summary) 91a:70023

70G25 Configuration space

Items with secondary classifications in 70G25

- Grigore, D. R. Localizability and covariance in analytical mechanics. 91a:58171

70G35 Phase space

Items with secondary classifications in 70G35

- Arms, Judith M. (with Gotay, Mark J.; Jennings, George) Geometric and algebraic reduction for singular momentum maps. 91a:58051
- Ashkar, Abhay (with Bombelli, Luca; Reula, Oscar A.) The covariant phase space of asymptotically flat gravitational fields. 91m:83037
- Bombelli, Luca *see* Ashkar, Abhay; et al., 91m:83037
- Costa, M. E. V. (with Girotti, H. O.) Local symmetries in the extended Hamiltonian formalism. 91m:58057
- Girotti, H. O. *see* Costa, M. E. V., 91m:58057
- Gotay, Mark J. *see* Arms, Judith M.; et al., 91a:58051
- Grigore, D. R. Localisability in classical mechanics. 91m:58063
- Jennings, George *see* Arms, Judith M.; et al., 91a:58051
- La Mon, Kenneth Lie series in an extended region of phase space. 91j:58061
- Li, Zi Ping The Noether theorem in phase space and its applications. (Chinese. English summary) 91e:70051
- Marsden, Jerrold E. (with Montgomery, R.; Ratiu, Tudor S.) Reduction, symmetry, and phases in mechanics. 91b:58074

- Montgomery, R. *see* Marsden, Jerrold E.; et al., 91b:58074
 Ratiu, Tudor S. *see* Marsden, Jerrold E.; et al., 91b:58074
 Reula, Oscar A. *see* Ashtekar, Abhay; et al., 91m:83037
 Tatarinov, Ya. V. Separation of variables and new topological phenomena in holonomic and nonholonomic systems. (Russian) 91a:58091
 Żenczykowski, P. Nonrelativistic phase-space and octonions. 91f:17002

70G50 Classical field theories (general)

Items with secondary classifications in 70G50

- Boechat, João Batista T. *see* Galvão, Carlos A. P., 91g:70013
 Ferraris, Marco *see* Magnano, Guido; et al., 91d:58078
 Francaviglia, Mauro *see* Magnano, Guido; et al., 91d:58078
 Galvão, Carlos A. P. (with Boechat, João Batista T.) Gauge transformations in Dirac theory of constrained systems. 91g:70013
 Giachetta, Giovanni (with Mangiarotti, Luigi) Gauge-invariant and covariant operators in gauge theories. 91f:58126
 Kilianen, K. (with Rosenhaus, V.) On invariance groups in gauge theories. (Russian and Estonian summaries) 91m:58172
 Lee, Joochan (with Wald, Robert M.) Local symmetries and constraints. 91e:58215
 Magnano, Guido (with Ferraris, Marco; Francaviglia, Mauro) On the Legendre transformation for a class of nonregular higher-order Lagrangian field theories. 91d:58078
 Mangiarotti, Luigi *see* Giachetta, Giovanni, 91f:58126
 Rosenhaus, V. *see* Kilianen, K., 91m:58172
 Vasil'ev, M. A. Triangle identity and free differential algebra of massless higher spins. 91a:81067
 Wald, Robert M. *see* Lee, Joochan, 91e:58215

70G99 None of the above, but in this section

- Li, Xin* *see* Li, Zi Ping, 91g:70010
 Li, Zi Ping (with Li, Xin*) Generalized Noether theorem and Poincaré invariant for nonconservative nonholonomic systems. 91g:70010
 Mamyrav, N. U. *see* Mamyrav, U. I.; et al., 91m:70020
 Mamyrav, U. I. (with Mamyrav, N. U.; Sharsheva, A. A.) A generalized form of a Galilean system of coordinate transformations. (Russian) 91m:70020
 Sharsheva, A. A. *see* Mamyrav, U. I.; et al., 91m:70020
 Weich, Wolfgang Nonintegrability of the spherical supermembrane. 91b:70028

Items with secondary classifications in 70G99

- de Andrés, Luis C. (with de León, Manuel; Rodrigues, Paulo R.) Connections on tangent bundles of higher order. 91d:53031
 Barut, Asim O. ★ Geometry and physics. 91c:81006
 — (with Onem, Coskun; Ünal, Nuri) The classical relativistic two-body problem with spin and self-interactions. 91a:78016
 Cariñena, José F. Theory of singular Lagrangians. 91k:58035
 Christina, Jan ★ Formal calculus of variations on fibered manifolds. 91f:58024
 Colomo, F. (with Longhi, G.; Lusanna, Luca) Classical canonical observables of the Nambu string. 91g:81111
 Crampin, M. Lagrangian submanifolds and the Euler-Lagrange equations in higher-order mechanics. 91d:58058
 Dekré, Anton Mechanical structures and connections. 91a:58009
 Evans, N. W. Superintegrability in classical mechanics. 91k:70016
 Gomis, J. (with Henneaux, Marc; Pons, J. M.) Existence theorem for gauge symmetries in Hamiltonian constrained systems. 91b:58067
 Gould, Laurence I. Balance laws associated with nonlocal equations of motion for theories containing one dependent variable. 91c:73004
 Govaerts, Jan Hamiltonian reduction of first-order actions. 91b:81075
 Gozzi, E. (with Reuter, M.) Classical mechanics as a topological field theory. 91m:58062
 Henneaux, Marc *see* Gomis, J.; et al., 91b:58067
 Homma, Takahiro (with Inamoto, Tadashi; Miyazaki, Tadashi) Alternative formulation in the constrained Hamiltonian system of a rigid rotator. 91g:81077
 Inamoto, Tadashi *see* Homma, Takahiro; et al., 91g:81077
 Kibler, M. (with Winternitz, Pavel) Periodicity and quasi-periodicity for super-integrable Hamiltonian systems. 91g:70015
 Kimura, Toshie *see* Sugano, Reiji, 91g:58239
 Laville, Guy Lagrangian for the so-called nonpotential systems: the case of magnetic monopoles. 91a:81231
 de León, Manuel *see* de Andrés, Luis C.; et al., 91d:53031
 Longhi, G. (with Lusanna, Luca; Pons, J. M.) On the many-time formulation of classical particle dynamics. 91f:58029
 — *see also* Colomo, F.; et al., 91g:81111
 Lusanna, Luca Lagrangian and Hamiltonian many-time equations. 91k:81195
 — *see also* Longhi, G.; et al., 91f:58029 and Colomo, F.; et al., 91g:81111
 Matsumoto, Shuji Canonical formulation of supermechanics. 91j:70015
 Mei, Feng Xiang Generalized Whittaker equations and field method in generalized classical mechanics. 91f:70015
 Miyazaki, Tadashi *see* Homma, Takahiro; et al., 91g:81077
 Okubo, Susumu The Nijenhuis tensor, BRST cohomology, and related algebras. 91f:17016
 Onem, Coskun *see* Barut, Asim O.; et al., 91f:78016
 Petróv, A. D. Geometric classification of general dynamical systems. 91b:58193
 Plyushchai, M. S. Supersymmetric massless particle with rigidity. 91f:81209
 — Relativistic particle with arbitrary spin in a non-Grassmannian approach. 91j:81024
 Pons, J. M. *see* Gomis, J.; et al., 91b:58067 and Longhi, G.; et al., 91f:58029
 Pyatov, P. N. (with Razumov, A. V.) Gauge invariance and constraints. 91e:58061
 Razumov, A. V. *see* Pyatov, P. N., 91e:58061
 Reuter, M. *see* Gozzi, E., 91m:58062
 Rodrigues, Paulo R. *see* de Andrés, Luis C.; et al., 91d:53031

- Samolilenko, V. Gr. Construction of recursion operators and their invariants for nonlinear infinite-dimensional dynamical systems. (Russian) 91m:58082
 Sayinzoga, A. *see* Temo Beko, De Loo, 91m:58049
 Sugano, Reiji (with Kimura, Toshie) Gauge transformations for dynamical systems with first- and second-class constraints. 91g:58239
 Temo Beko, De Loo (with Sayinzoga, A.) Sur la non-existence du p -problème variationnel régulier d'ordre un stable, sur l'espace de phase généralisé E , pour $2 \leq p \leq \dim(E) - 2$ et $\dim(E) \geq 4$. [On the nonexistence of the solution of a regular variational problem for p -forms of stable order one on the generalized phase space E for $2 \leq p \leq \dim(E) - 2$ and $\dim(E) \geq 4$] 91m:58049
 Torres del Castillo, G. F. Symplectic structures in mathematical physics. (Spanish. English summary) 91a:58067
 Tulczyjew, Włodzimierz M. ★ Geometric formulations of physical theories. 91d:58084
 Ünal, Nuri *see* Barut, Asim O.; et al., 91a:78016
 Winternitz, Pavel *see* Kibler, M., 91g:70015

70Hxx Hamiltonian and Lagrangian mechanics [see also 58F05]

Items with secondary classifications in 70Hxx

- Guillemin, Victor (with Sternberg, Shlomo) ★ Symplectic techniques in physics. 91d:58073
 Park, David A. ★ Classical dynamics and its quantum analogues. 91c:70002
 Scheck, Florian ★ Mechanics. 91h:70001
 Sternberg, Shlomo *see* Guillemin, Victor, 91d:58073
 Tulczyjew, Włodzimierz M. ★ Geometric formulations of physical theories. 91d:58084

70H05 Hamilton's equations

- Aizawa, Yōji *see* Kikuchi, Yasuhiro, (Not in MR)
 Astaburuaga, María Angélica (with Fernández, Claudio; Cortés, Víctor) Newtonian scattering in Hilbert space. 91j:70012
 Balittinor, M. A. Behavior of solutions of Hamiltonian systems in a neighborhood of the equilibrium position in cases of resonance. 91g:70011
 Boechat, João Batista T. *see* Galvão, Carlos A. P., 91g:70013
 Belotín, S. V. Doubly asymptotic trajectories and conditions for integrability of Hamiltonian systems. (Russian) 91e:70041
 Casasayas, J. (with Nunes, A.; Tufillaro, N. B.) Swinging Atwood's machine: integrability and dynamics. 91e:70042
 Cleary, Paul W. Nonexistence and existence of various order integrals for two- and three-dimensional polynomial potentials. 91f:70016
 Coppola, Vincent T. (with Rand, Richard H.) Computer algebra implementation of Lie transforms for Hamiltonian systems: application to the nonlinear stability of L_4 . 91c:70025
 Cortés, Víctor *see* Astaburuaga, María Angélica; et al., 91j:70012
 Cushman, Richard H. *see* van der Meer, Jan-Cees, 91m:70022
 Dahlqvist, Per (with Russberg, Gunnar) Existence of stable orbits in the x^2y^2 potential. 91h:70011
 Ding, Qing Chen Symmetries of mechanical systems and conserved quantities of motion. (Chinese. English summary) (Not in MR)
 Emel'yanova, I. S. Symmetric canonical equations with a Hamiltonian that depends explicitly on time. (Russian) 91b:70029
 Evans, N. W. Superintegrability in classical mechanics. 91k:70016
 Fernández, Claudio *see* Astaburuaga, María Angélica; et al., 91j:70012
 Finkler, Paul (with Jones, C. Edward; Sowell, Glenn A.) Possible conserved quantity for the Hénon-Heiles problem. 91e:70043
 Font Arjé, Joaquín (with Grau, Miquel) Nonlocal spiraling characteristic curves. 91c:70032
 Françoise, Jean-Pierre (with Irigoyen, Maylis) Systèmes hamiltoniens non intégrables et instabilité des solutions d'équations de Hill. (English summary) [Nonintegrable Hamiltonian systems and instability of solutions of Hill's equations] 91g:70012
 Gafarov, G. G. Construction of a Hamiltonian function in group canonical variables. (Russian) 91b:70030
 Galvão, Carlos A. P. (with Boechat, João Batista T.) Gauge transformations in Dirac theory of constrained systems. 91g:70013
 Giacomini, H. J. Integrable Hamiltonians with higher transcendental invariants. 91c:70033
 — Invariants of particle motion in one-dimensional time-dependent potentials. 91h:70012
 Gerni, Gianluca (with Zampieri, Gaetano) Liouville-Arnold integrability for scattering under cone potentials. 91g:70014
 Gozzi, E. (with Reuter, M.) Algebraic characterization of ergodicity. 91e:70044
 — (with Reuter, M.) Errata: "Algebraic characterization of ergodicity" [Phys. Lett. B 233 (1989), no. 3-4, 383-392; MR 91e:70044]. 91e:70045
 Grau, Miquel *see* Font Arjé, Joaquín, 91c:70032
 Gu, Zhi Yu *see* Huang, Bo Wen; et al., 91e:70035
 Hadjdemetrios, John D. Algebraic mappings near a resonance with an application to asteroid motion. 91c:70034
 Henard, Jacques A semi-numerical perturbation method for separable Hamiltonian systems. 91j:70013
 Hough, Michael E. Analytic continuation of periodic orbits from equilibria of two-degree-of-freedom systems in rotating coordinates. 91m:70021
 Huang, Bo Wen (with Gu, Zhi Yu; Qian, Shang Wu) Invariants and symmetries for a particle with a force quadratic in the velocity. 91c:70035
 Ichtaroglou, S. (with Meletidou, E.) On monoparametric families of orbits sufficient for integrability of planar potentials with linear or quadratic invariants. 91f:70017
 Irigoyen, Maylis *see* Françoise, Jean-Pierre, 91g:70012
 Jones, C. Edward *see* Finkler, Paul; et al., 91e:70043
 Kibler, M. (with Winternitz, Pavel) Periodicity and quasi-periodicity for super-integrable Hamiltonian systems. 91g:70015
 Kikuchi, Yasuhiro (with Aizawa, Yōji) Lyapunov exponent of the multi-ergodic motion in Hamiltonian systems. (Not in MR)

- Koller, Jair. Hannay's angles outside the adiabatic range: coupled linear oscillators near resonance. 91c:70036
- Korsch, H. J. (with Lang, J.) A new integrable gravitational billiard. 91j:70014
- Lang, J. see Korsch, H. J., 91j:70014
- Leach, P. G. L. see Taylor, David Roy, 91k:70017
- Lim, Chjan C. On Hamiltonian singularities and applications. 91a:70026
- Marchal, C. The near-resonance theorem: analysis of the vicinity of periodic solutions of analytic differential systems. 91c:70046
- Marinca, V. see Obădeanu, V., 91d:70009
- Markeer, A. P. Resonances and asymptotic trajectories in Hamiltonian systems. 91h:70013
- Matsumoto, Shuji. Canonical formulation of supermechanics. 91j:70015
- van der Meer, Jan-Cees (with Cushman, Richard H.) Orbiting dust under radiation pressure. 91m:70022
- Meletlidon, E. see Ichtiaroglou, S., 91f:70017
- Neri, Filippo (with Rangarajan, Govindan) Kinematic moment invariants for linear Hamiltonian systems. 91d:70008
- Nunes, A. see Casasayas, J., et al., 91c:70042
- Obădeanu, V. (with Marinca, V.) Une méthode de résolution du problème inverse de la mécanique newtonienne en formalisme hamiltonien. [A method for solving the inverse problem of Newtonian mechanics in the Hamiltonian formalism] 91d:70009
- Qian, Shang Wu see Huang, Bo Wen; et al., 91c:70035
- Rand, Richard H. see Coppola, Vincent T., 91a:70025
- Rangarajan, Govindan see Neri, Filippo, 91d:70008
- Reuter, M. see Gozzi, E., 91c:70044 and 91c:70045
- Russberg, Gunnar see Dahlqvist, Per, 91h:70011
- Ruth, Ronald D. see Warnock, Robert L., 91m:70023
- Sowell, Glenn A. see Finkler, Paul; et al., 91c:70043
- Sugiyama, Masaru A systematic approach to the evolution equation of a probability distribution of a deterministic dynamical system. 91c:70047
- Taylor, David Roy (with Leach, P. G. L.) Single resonance integrals for two-dimensional Hamiltonians. 91k:70017
- Torres del Castillo, G. F. Orbits and variational principles for conservative Hamiltonian systems. (Spanish. English summary) 91h:70031
- Tuñillo, N. B. see Casasayas, J.; et al., 91c:70042
- Warnock, Robert L. (with Ruth, Ronald D.) Stability of nonlinear Hamiltonian motion for a finite but very long time. 91m:70023
- Winterlitz, Pavel see Kibler, M., 91g:70015
- Yoshida, Haruo A criterion for the nonexistence of an additional analytic integral in Hamiltonian systems with n degrees of freedom. 91c:70048
- Construction of higher order symplectic integrators. 91h:70014
- Zampieri, Gaetano see Gorni, Gianluca, 91g:70014
- Items with secondary classifications in 70H05
- Abad, A. (with Depit, André; Elise Sánchez, Antonio C.; Sein-Echaluce, M. L.) Parametric bifurcations in perturbed elliptic oscillators. (see 91j:00015)
- Abrakmanov, A. M. Integrable systems with elastic reflections. (Russian) 91k:70002
- Adler, Mark Some geometrical techniques in integrable systems. 91a:58085
- Painlevé solutions and algebraic complex integrability. 91a:58069
- Afanasyev, V. V. (with Chernikov, Aleksandr Antonovich; Sagdeev, R. Z.; Zaslavskii, G. M.) The width of the stochastic web and particle diffusion along the web. 91f:58123
- de Aguiar, Marcus A. M. see Oszorio de Almeida, Alfredo M., 91h:58090
- Aizawa, Yoji (with Kikuchi, Yasuhiro; Harayama, Takahisa; Yamamoto, Kenshi; Ota, Motoori; Tanaka, Kenji) Stagnant motions in Hamiltonian systems. 91m:58053
- see also Harayama, Takahisa, 91g:58183
- Albeverio, Sergio (with Arede, Teresa; Hilbert, Astrid) Some remarks on classical, quantum and stochastic dynamical systems. 91f:58082
- Ambrosetti, Antonio (with Coti Zelati, Vittorio) Closed orbits of fixed energy for singular Hamiltonian systems. 91k:34053
- (with Ekeland, Ivar) Periodic solutions of a class of Hamiltonian systems with singularities. 91m:58127
- Arcoya, David Periodic solutions of Hamiltonian systems with strong resonance at infinity. 91f:58112
- Arévalo, Claudio (with Rossini, Maria Zaira) Some results on periodic solutions of minimal period for a class of second order systems, via the Morse index theory. (Italian summary) 91c:58115
- Arede, Teresa see Albeverio, Sergio; et al., 91f:58082
- Avan, J. (with Maillard, Jean-Marie; Talon, M.) The Adler-van Moerbeke model. Lax representation and Poisson structure. 91g:58101
- Bahri, Abbas (with Rabinowitz, Paul H.) Orbites périodiques des systèmes hamiltoniens singuliers du type de celui des trois corps. (English summary) [Periodic orbits of singular Hamiltonian systems of three-body type] 91d:58208
- Barbanis, B. see Contopoulos, G., 91d:58150
- Belyaev, A. V. Solutions that define the invariant tori of a perturbed Hamiltonian system. (Russian. English summary) 91h:58053
- Berger, Melvyn S. Antidotes for nonintegrability of nonlinear systems: quasi-periodic motions. 91f:58119
- Two new approaches to large amplitude quasi-periodic motions of certain nonlinear Hamiltonian systems. 91g:58234
- Bessis, Daniel An introduction to Kowalevski's exponents. 91h:58101
- Black, Randall C. (with Satiya, Indubala L.) Universal pattern underlying the recurrence of Kolmogorov-Arnold-Moser tori. 91d:58217
- Bleher, Siegfried (with Grebogi, Celso; Ott, Edward) Bifurcation to chaotic scattering. 91f:58089
- Bloch, Anthony M. Stability analysis of a rotating flexible system. 91c:70022
- Blot, Joël Une approche variationnelle des orbites quasi-périodiques des systèmes hamiltoniens. (English summary) [A variational approach to the quasiperiodic orbits of Hamiltonian systems] 91k:58112
- Bobenko, A. I. (with Reiman, A. G.; Semenov-Tyan-Shanskii, M. A.) The Kowalewski top 99 years later: a Lax pair, generalizations and explicit solutions. 91a:58070
- Boletis, S. V. Motions that are doubly asymptotic to invariant tori in the theory of the perturbations of Hamiltonian systems. 91m:58137
- Bolsinov, A. V. (with Matveev, S. V.; Fomenko, A. T.) Topological classification of integrable Hamiltonian systems with two degrees of freedom. A list of systems of small complexity. 91j:58056
- Bountis, Tassos see Soles, G.; et al., 91d:70016 and Ding, Ming Zhou; et al., 91i:58090
- Braaksma, B. L. J. see Broer, H. W.; et al., 91c:58156
- Breuer, H. P. (with Dietz, Klaus P.; Holthaus, M.) On the classical dynamics of strongly driven anharmonic oscillators. 91m:70026
- Bridges, Thomas J. Bifurcation of periodic solutions near a collision of eigenvalues of opposite signature. 91m:58111
- Stability of periodic solutions near a collision of eigenvalues of opposite signature. 91m:58129
- Brinkman, G. J. (with Valkering, T. P.) Soliton decay in a Toda chain caused by dissipation. 91c:70070
- Broer, H. W. (with Huitema, G. B.; Takens, Floris; Braaksma, B. L. J.) Unfoldings and bifurcations of quasi-periodic tori. 91c:58156
- Bruhwiller, D. L. (with Cary, John R.) Diffusion of particles in a slowly modulated wave. 91h:58054
- Cabo, Alejandro (with Louis-Martinez, Domingo) On Dirac's conjecture for Hamiltonian systems with first- and second-class constraints. 91k:81091
- Candy, J. (with Rozmus, W.) A symplectic integration algorithm for separable Hamiltonian functions. 91m:70003
- Cannizzo, J. K. see Whelan, N. D.; et al., 91c:70031
- Caranicas, N. D. A mapping for the study of the 1/1 resonance in a galactic type Hamiltonian. 91a:70022
- Caribena, José F. (with Rañada, Manuel F.) Generating functions, bi-Hamiltonian systems, and the quadratic-Hamiltonian theorem. 91h:58055
- Cary, John R. (with Skodje, Rex T.) Phase change between separatrix crossings. 91d:58148
- see also Bruhwiller, D. L., 91h:58054
- Casasayas, J. (with Nunes, A.) Classification of the solutions of a family of nonintegrable Hamiltonian systems. (Spanish) (see 91j:00015)
- Castilla, M. S. A. C. see Oliva, W. M., 91i:58065
- Celletti, Alessandra (with Chierchia, Luigi) A report on some new KAM estimates. (see 91h:70021)
- Analysis of resonances in the spin-orbit problem in celestial mechanics: the synchronous resonance. I. 91f:70012
- Analysis of resonances in the spin-orbit problem in celestial mechanics: higher order resonances and some numerical experiments. II. 91h:70007
- Channell, Paul J. (with Scovel, C.) Symplectic integration of Hamiltonian systems. 91g:58073
- Stable symplectic maps. 91m:58056
- Chen, Qi Keith (with Ding, Ming Zhou; Ott, Edward) Chaotic scattering in several dimensions. 91a:58054
- Chernikov, Aleksandr Antonovich see Afanasyev, V. V.; et al., 91f:58123 and Zaslavskii, G. M.; et al., 91m:58109
- Chernous'ko, F. L. Constrained controls in linear oscillating systems. 91i:93017
- Chierchia, Luigi see Celletti, Alessandra, 91h:70021
- Chirikov, B. V. (with Vecheslavov, V. V.) KAM integrability. 91h:58039
- Choudhry, R. K. see Kumar, Vijay, 91k:70008
- Churchill, Richard C. (with Rod, David L.) Geometrical aspects of Ziglin's nonintegrability theorem for complex Hamiltonian systems. 91a:58055
- see also Kummer, Martin P.; et al., 91f:58028
- Cleary, Paul W. Integrability and orbits in quartic polynomial potentials. 91a:58075
- Contopoulos, G. (with Barbanis, B.) Lyapunov characteristic numbers and the structure of phase-space. 91d:58150
- Costa, M. E. V. (with Girotti, H. O.) Local symmetries in the extended Hamiltonian formalism. 91m:58057
- Coti Zelati, Vittorio (with Ekeland, Ivar; Séré, Éric) Solutions doublement asymptotiques de systèmes hamiltoniens convexes. (English summary) [Homoclinic orbits of convex Hamiltonian systems] 91j:58057
- (with Ekeland, Ivar; Séré, Éric) A variational approach to homoclinic orbits in Hamiltonian systems. 91g:58065
- see also Ambrosetti, Antonio, 91k:34053
- Crouch, Peter E. (with van der Schaft, A. J.) Characterization of Hamiltonian input-output systems. 91c:93080
- Cushman, Richard H. (with van der Meer, Jan-Cees) The Hamiltonian Hopf bifurcation in the Lagrange top. 91c:58134
- Da Silva, P. A. F. see Vilhena de Moraes, R., 91c:70075
- Degiovanni, Marco (with Giannoni, Fabio) Dynamical systems with Newtonian type potentials. 91h:58201
- De Leon, N. see Oszorio de Almeida, Alfredo M.; et al., 91h:58043
- Deng, Shi Tao Necessary and sufficient condition of the existence of global Hopf bifurcation for Hamiltonian systems. 91h:58076
- Denier, J. P. (with Grimshaw, R. H. J.) Nonlinear interaction of positive and negative energy modes in Hamiltonian systems. 91a:58135
- Depit, André (with Ferrer, Sebastián) Simplifications in the theory of artificial satellites. 91k:70009
- (with Ferrer, Sebastián) Comment on: "Classical Hamiltonian systems and stochastic mechanics: a possible new technique to investigate classical integrability and define quantum chaos" [Phys. Lett. A 137 (1989), no. 4-5, 183-187; MR 90e:58048] by D. P. K. Ghikas. 91h:58040
- see also Abad, A.; et al., (91j:00015)
- Dietz, Klaus P. see Breuer, H. P.; et al., 91c:58156
- Ding, Ming Zhou (with Bountis, Tassos; Ott, Edward) Algebraic escape in higher-dimensional Hamiltonian systems. 91i:58090
- see also Chen, Qi Keith; et al., 91a:58054
- Dorfman, I. Ya. On differential operators that generate Hamiltonian structures. 91a:58056
- Dressler, Ute (with Lauterborn, Werner) Ruelle's rotation frequency for a symplectic chain of dissipative oscillators. 91h:58059

- Dufour, Jean-Paul (with Molino, P.) Compactification d'actions de \mathbb{R}^n et variables action-angle avec singularités. [Compactification of actions of \mathbb{R}^n and action-angle variables with singularities] (see 91e:58065)
- Ekeland, Ivar (with Hofer, Helmut) Two symplectic fixed-point theorems with applications to Hamiltonian dynamics. 91m:58059
- ★ Convexity methods in Hamiltonian mechanics. 91f:58027
- see also Codi Zelati, Vittorio; et al., 91g:58065; 91j:58057 and Ambrosetti, Antonio, 91m:58127
- Elliason, L. H. Perturbations of stable invariant tori for Hamiltonian systems. 91b:58060
- Normal forms for Hamiltonian systems with Poisson commuting integrals—elliptic case. 91d:58223
- Elizalde Sánchez, Antonio C. see Abad, A.; et al., (91j:00015)
- Elyashovich, M. M. see Vinogradov, G. A.; et al., (Not in MR)
- Evans, N. W. Super-integrability of the Winternitz system. 91g:58076
- Ezhevskaya, N. A. Reconstructions of integral manifolds in a Hamiltonian system. (Russian) 91f:58070
- Faihsorovich, L. E. Mechanics, control and symplectic geometry. (Russian) 91m:49018
- Felmer, Patricio L. Subharmonics near an equilibrium point for Hamiltonian systems. 91b:58203
- Ferrer, Sebastián see Depriat, André, 91h:58040 and 91k:70009
- Fisch, Jean M. L. (with Henneaux, Marc) Antibracket-antifield formalism for constrained Hamiltonian systems. 91b:58155
- Floer, Andreas (with Hofer, Helmut; Viterbo, Claude) The Weinstein conjecture in $P \times \mathbb{C}^l$. 91h:58064
- Fomenko, A. T. see Bolsinov, A. V.; et al., 91j:58056
- Fonda, A. (with Mawhin, J. L.) Multiple periodic solutions of conservative systems with periodic nonlinearity. 91d:58039
- Forest, Etienne A Hamiltonian-free description of single particle dynamics for hopelessly complex periodic systems. 91d:58068
- Fransé, Jean-Pierre Intégrales de périodes en géométries symplectique et isochore. [Period integrals in symplectic and isochorous geometries] 91b:58065
- Froeschlé, Claude see Gantner, J.-L., 91e:58087
- Gantner, J.-L. (with Froeschlé, Claude) Linear stability of high-dimensional symplectic systems. 91e:58087
- Geisel, T. (with Radons, G.; Rubner, J.; Zacherl, A.) Phase-space diffusion in the classical and quantum mechanics of chaotic systems. 91b:58230
- Geist, Karlheinz (with Lauterborn, Werner) The nonlinear dynamics of the damped and driven Toda chain. II. Fourier and Lyapunov analysis of tori. 91h:58088
- (Ghikas, Demetris P. K.) see Depriat, André, 91h:58040
- Giannoni, Fabio Periodic solutions of dynamical conservative systems outside prescribed regions. (Italian summary) 91b:58205
- see also Degiovanni, Marco, 91b:58201
- Girotti, H. O. see Costa, M. E. V., 91m:58057
- Gliklikh, Yu. E. ★ Анализ на римановых многообразиях и задачи математической физики. (Russian) [Analysis on Riemannian manifolds and problems in mathematical physics] 91j:58031
- Gollin, Simon (with Marmi, Stefano) A class of systems with measurable Hannay angles. 91m:58061
- Gomis, J. (with Henneaux, Marc; Pons, J. M.) Existence theorem for gauge symmetries in Hamiltonian constrained systems. 91b:58067
- Goodings, D. A. see Whelan, N. D.; et al., 91c:70031
- Gorni, Gianluca (with Zampieri, Gaetano) Complete integrability for Hamiltonian systems with a cone potential. 91d:58070
- (with Zampieri, Gaetano) Reducing scattering problems under cone potentials to normal form by global canonical transformations. 91h:58127
- Govaerts, Jan Hamiltonian reduction of first-order actions. 91b:58075
- Gozi, E. (with Reuter, M.) Hidden BRS invariance in classical mechanics. II. 91d:58071
- Gracia, X. (with Pons, J. M.) On an evolution operator connecting Lagrangian and Hamiltonian formalisms. 91b:70036
- Grammaticos, B. (with Ramani, A.) Comment on: "Integrable potentials with logarithmic integrals of motion" [J. Phys. A 21 (1988), no. 18, 3537–3546; MR 89k:70019] by S. Ichiaroglu and G. Voyatzis. 91c:70017
- see also Kruskal, M. D.; et al., 91m:58065
- Grebogi, Celso see Bleher, Siegfried; et al., 91h:58089
- Grimshaw, R. H. J. see Denier, J. P., 91e:58135
- Guo, Zhong Hong see Ma, Xiao Wu, 91j:58064
- Gurevich, B. M. Asymptotically additive integrals of the motion of particles with pairwise interaction. 91g:58079
- Gutzwiller, Martin C. Fractals in classical mechanics. 91d:58074
- ★ Chaos in classical and quantum mechanics. 91m:58099
- Györfi, G. (with Ling, Fu Hua; Schmidt, George) Torus structure in higher-dimensional Hamiltonian systems. 91a:58060
- Hanyama, Takahisa (with Aizawa, Yoji) Poincaré-Birkhoff chains in the critical regime between chaos and torus. 91g:58183
- see also Aizawa, Yoji; et al., 91m:58053
- Henneaux, Marc (with Teitelboim, Claudio; Zanelli, Jorge) Gauge invariance and degree of freedom count. 91f:58106
- see also Gomis, J.; et al., 91b:58067 and Fisch, Jean M. L., 91b:58155
- Hernando, J. A. see Stolz, G., 91f:58033
- Hietarinta, Jarmo New integrable systems. 91a:58077
- Hilbert, Astrid see Alberverio, Sergio; et al., 91f:58082
- Hofer, Helmut (with Viterbo, Claude) The Weinstein conjecture in cotangent bundles and related results. 91b:58208
- Recent progress in symplectic geometry. 91b:58070
- (with Wysocki, Krzysztof) First order elliptic systems and the existence of homoclinic orbits in Hamiltonian systems. 91m:58064
- On the topological properties of symplectic maps. 91h:58042
- see also Floer, Andreas; et al., 91b:58064 and Ekeland, Ivar, 91m:58059
- Holmes, Philip Poincaré, celestial mechanics, dynamical-systems theory and "chaos". 91m:58100
- Holthaus, M. see Brumer, H. P.; et al., 91m:70026
- Homma, Takahiro (with Inamoto, Tadashi; Miyazaki, Tadashi) Alternative formulation in the constrained Hamiltonian system of a rigid rotator. 91g:81077
- Hovell, Igor (with Verhulst, Ferdinand) Chaos in the 1:2:3 Hamiltonian normal form. 91j:58109
- Huĭberts, H. J. C. (with van der Schaft, A. J.) Input-output decoupling with stability for Hamiltonian systems. 91m:93042
- Huitema, G. B. see Broer, H. W.; et al., 91e:58156
- Ichikawa, Yoshi H. (with Nomura, Yasuyuki; Kamimura, Tetsuo) Period-3 catastrophe and enhanced diffusion in two-dimensional Hamiltonian systems. 91g:58204
- (Ichiaroglu, S.) see Grammaticos, B., 91c:70017
- Inamoto, Tadashi see Homma, Takahiro; et al., 91g:81077
- Jackson, E. Atlee ★ Perspectives of nonlinear dynamics. Vol. 1. 91e:58052
- ★ Perspectives of nonlinear dynamics. Vol. 2. 91k:58030
- Jönker, Lee B. The scaling of Arnold's tongues for differentiable homeomorphisms of the circle. 91c:58093
- Kamimura, Tetsuo see Ichikawa, Yoshi H.; et al., 91g:58204
- Kaneko, Kunihiko see Konishi, Tetsuro, (Not in MR)
- Katayama, Noriaki On construction of completely integrable many-body systems in two dimensions. 91h:58059
- Kels, I. A. A semi-inverse method for the optimal stabilization of the motion of a Hamiltonian system. (Russian. English and Estonian summaries) 91e:93073
- Asymptotic and exponential stabilization of a nonlinear Hamiltonian system. (Russian. English and Estonian summaries) 91j:93089
- Keller, Joseph B. (with Mu, Ye) Changes in adiabatic invariants. 91j:34048
- Ketoja, Jukka A. Breakup of Kolmogorov-Arnol'd-Moser tori of arbitrary frequency in a two-parameter system. 91m:58136
- Khorram, E. I. Perturbations of the spherical pendulum and abelian integrals. 91d:58075
- Kikuchi, Yasuhiko see Aizawa, Yoji; et al., 91m:58053
- Klimenko, Yu. A. Control of transfer processes of a parametrically modulated nonlinear oscillator. (Russian) 91j:34049
- Knauf, Andreas Closed orbits and converse KAM theory. 91f:58075
- Koditschek, Daniel E. The application of total energy as a Lyapunov function for mechanical control systems. 91d:58237
- Komarov, I. V. (with Kuznetsov, V. B.) Kowalewski's top on the Lie algebras $\mathfrak{o}(4)$, $\mathfrak{e}(3)$ and $\mathfrak{o}(3, 1)$. 91d:58095
- Konishi, Tetsuro Relaxation and diffusion in Hamiltonian systems with many degrees of freedom. 91a:58062
- (with Kaneko, Kunihiko) Diffusion in Hamiltonian chaos and its size dependence. (Not in MR)
- Kostov, N. A. Quasi-periodic solutions of the integrable dynamical systems related to Hill's equation. 91a:58080
- Kozlov, Valeri V. (with Treshchev, D. V.) Polynomial integrals of Hamiltonian systems with exponential interaction. 91d:58098
- Kravchuk, D. N. On the study of the phase topology of a problem on the motion of a rigid body in a fluid. (Russian) 91c:70016
- Krivoshet, I. V. A criterion for instability in multidimensional nonlinear Hamiltonian systems. 91d:58118
- Krifa, L. The intrinsic stochasticity of near-integrable Hamiltonian systems. 91g:58159
- Kruskal, M. D. (with Ramani, A.; Grammaticos, B.) Singularity analysis and its relation to complete, partial and nonintegrability. 91m:58065
- Kumar, Vijay (with Choudhry, R. K.) Nonlinear stability of the triangular libration points for the photogravitational elliptic restricted problem of three bodies. 91h:70008
- Kummer, Martin P. (with Churchill, Richard C.; Rod, David L.) On a result of Bruns. 91f:58028
- Erratum: "On the regularization of the Kepler problem" [Comm. Math. Phys. 84 (1982), no. 1, 133–152; MR 84d:58028]. (Not in MR)
- Kuznetsov, V. B. see Komarov, I. V., 91d:58095
- La Mon, Kenneth Lie series in an extended region of phase space. 91j:58061
- Lauterborn, Werner see Dressler, Ute, 91b:58059 and Geist, Karlheinz, 91h:58088
- Lewis, Debra (with Marsden, Jerrold E.) A Hamiltonian-dissipative decomposition of normal forms of vector fields. 91g:58243
- Lewis, H. Ralph Representation of magnetic fields with toroidal topology in terms of field-line invariants. 91k:78005
- Li, Shu Jie (with Liu, Jia Quan) Infinite-dimensional local linking and some applications to the Hamiltonian systems. 91d:58040
- Lichtenberg, A. J. see Wood, B. P.; et al., 91h:58148
- Lieberman, M. A. see Wood, B. P.; et al., 91h:58148
- Likhachev, V. N. see Vinogradov, G. A.; et al., (Not in MR)
- Ling, Fu Hua see Györfi, G.; et al., 91a:58060
- Liu, Jia Quan see Li, Shu Jie, 91d:58040
- Lechak, Pierre (with Porzio, A.) A realistic exponential estimate for a paradigm Hamiltonian. (French summary) 91d:58120
- Effective speed of Arnold's diffusion and small denominators. 91b:58072
- Long, Yi Ming Periodic solutions of superquadratic Hamiltonian systems with bounded forcing terms. 91m:58131
- Louis-Martinez, Domingo see Cabo, Alejandro, 91k:81091
- Lasanna, Luca Lagrangian and Hamiltonian many-time equations. 91k:81195
- McKay, R. S. Flux over a saddle. 91b:58073
- A variational principle for invariant odd-dimensional submanifolds of an energy surface for Hamiltonian systems. 91m:58047
- Maeda, Shigeru Certain quadratic first integral and elliptic orbits of linear Hamiltonian system. 91d:58077
- Mailard, Jean-Marie see Avan, J.; et al., 91g:58101
- Malavasi, M. (with Marmi, Stefano) Critical KAM circles and the Brjuno function. 91f:58030
- Marle, Charles-Michel Sur la géométrie des systèmes mécaniques à liaisons actives. (English summary) [Geometry of mechanical systems with active constraints] 91k:58041
- Marmi, Stefano see Malavasi, M., 91f:58030 and Gollin, Simon, 91m:58061

- Marsden, Jerrold E. (with Montgomery, R.; Ratiu, Tudor S.) Reduction, symmetry, and phases in mechanics. 91h:58074
 — see also Lewis, Debra, 91g:58243
- Marston, C. Clay see Osorio de Almeida, Alfredo M.; et al., 91h:58043
- Martinet, L. see Udry, S. (Not in MR)
- Matveev, S. V. see Bolsinov, A. V.; et al., 91j:58056
- Mawhin, J. L. see Fonda, A., 91d:58039
- Medvedev, B. V. Dynamic stochasticity and integrals of motion. 91h:58072
- van der Meer, Jan-Cees Hamiltonian Hopf bifurcation with symmetry. 91i:58099
 — see also Cushman, Richard H., 91e:58134
- Mehta, Manish A. see Osorio de Almeida, Alfredo M.; et al., 91h:58043
- Message, P. J. Planetary perturbation theory from Lie series, including resonance and critical arguments. 91j:70011
- Mewoll, Bouchard (with Razafimandimby, Boniface) Approximation de cycles limites de R^2 -systèmes équivariants hamiltoniens perturbés. (English summary) [An asymptotic method for limit cycles of equivariant Hamiltonian perturbed R^2 -systems] 91i:58110
- Milani, Andrea Secular perturbations of planetary orbits and their representation as series. 91e:70035
- Mishra, S. C. (with Parashar, D.) Integrable classical systems in higher dimensions. 91h:58075
- Miyazaki, Tadashi see Homma, Takahiro; et al., 91g:81077
- van Moerbeke, Pierre Introduction to algebraic integrable systems and their Painlevé analysis. 91a:58084
- Molino, P. see Dufour, Jean-Paul, 91e:58065
- Montgomery, R. see Marsden, Jerrold E.; et al., 91h:58074
- Moshchevitin, N. G. Final properties of integrals of conditionally periodic functions that are connected with the small divisor problem. (Russian) 91g:58085
- Mu, Xiao Wu (with Guo, Zhong Heng) A new classification of constraints of Hamiltonian systems and their solvability. 91j:58064
- Mu, Ye see Keller, Joseph B., 91j:34048
- Neishtadt, A. I. see Zaslavskii, G. M.; et al., 91m:58109
- Nomura, Yasuyuki see Ichikawa, Yoshi H.; et al., 91g:58204
- Nunes, A. see Casasayas, J., 91j:58015
- Oelhoff, J. E. see van der Schaft, A. J., 91e:93023
- Okabe, Susumu Integrability condition and finite-periodic Toda lattice. 91i:58064
- Oliva, W. M. (with Castilla, M. S. A. C.) A class of C^∞ -integrable Hamiltonian systems. 91i:58065
- Olver, Peter J. Canonical forms and integrability of bi-Hamiltonian systems. 91j:58066
- Ota, Motonori see Aizawa, Yôji; et al., 91m:58053
- Ott, Edward see Chen, Qi Ke; et al., 91a:58054; Bieher, Siegfried; et al., 91i:58089 and Ding, Ming Zhou; et al., 91i:58090
- Osorio de Almeida, Alfredo M. (with de Aguiar, Marcus A. M.) Periodic librations and their effect on the quantum energy spectrum. 91h:58090
 — (with De Leon, N.; Mehta, Manish A.; Marston, C. Clay) Geometry and dynamics of stable and unstable cylinders in Hamiltonian systems. 91h:58043
- Parashar, D. see Mishra, S. C., 91h:58075
- Patrick, George W. The dynamics of two coupled rigid bodies in three-space. 91c:70016
- Perelman, A. M. ★ Integrable systems of classical mechanics and Lie algebras. Vol. I. 91j:58127
- Pitanga, P. Symplectic projector in constrained systems. 91h:58045
- Poljakova, L. S. Invariants of the Euler and Lagrange integrable cases. 91e:58060
- Polymilis, H. see Sohos, G.; et al., 91d:70016
- Pons, J. M. see Gomis, J.; et al., 91h:58067 and Gracia, X., 91h:70036
- Porzio, A. see Lochak, Pierre, 91d:58120
- Pöschel, Jürgen On elliptic lower-dimensional tori in Hamiltonian systems. 91a:58065
 — Small divisors with spatial structure in infinite-dimensional Hamiltonian systems. 91i:58047
- Pyatsitskii, E. S. (with Rapoport, L. B.) A method for constructing invariant functions and the study of phase portraits of dynamical systems on a computer. 91j:34065
- Pyator, P. N. (with Razumov, A. V.) Gauge invariance and constraints. 91h:58061
- Rabinowitz, Paul H. Periodic solutions for some forced singular Hamiltonian systems. 91d:58210
 — Homoclinic orbits for a class of Hamiltonian systems. 91c:58118
 — see also Bahri, Abbas, 91d:58208
- Radons, G. see Geisel, T.; et al., 91h:82030
- Ramani, A. see Grammaticos, B., 91c:70017 and Kruskal, M. D.; et al., 91m:58065
- Rahada, Manuel F. see Carles, José F., 91h:58055
- Rapoport, L. B. see Pyatsitskii, E. S., 91j:34065
- Ratiu, Tudor S. see Marsden, Jerrold E.; et al., 91h:58074
- Ray, Deb Shankar Inhibition of chaos in bistable Hamiltonian systems by a critical external resonance. 91j:70026
- Razafimandimby, Boniface see Mewoll, Bouchard, 91i:58110
- Razumov, A. V. see Pyator, P. N., 91h:58061
- Reiman, A. G. see Bobenko, A. I.; et al., 91a:58070 and Perelman, A. M., 91g:58127
- Reuter, M. see Gozzi, E., 91d:58071
- Rod, David L. see Churchill, Richard C., 91a:58055 and Kummer, Martin P.; et al., 91i:58025
- Rossini, Maria Zaira see Ardoini, Claudio, 91c:58115
- (Roy, Archie E.) see Long-term dynamical behaviour of natural and artificial N -body systems, 91h:70021
- Rozmus, W. see Candy, J., 91m:70003
- Rubner, J. see Geisel, T.; et al., 91h:82030
- Rüssmann, Helmut Nondegeneracy in the perturbation theory of integrable dynamical systems. 91j:58140
- Sadlov, S. T. Conditions for the integrability of the Kirchhoff equations. (Russian) 91m:58081
- Sagdeev, R. Z. see Afanas'ev, V. V.; et al., 91i:58123 and Zaslavskii, G. M.; et al., 91m:58109
- Salamon, Dietmar (with Zehnder, Eduard) Floer homology, the Maslov index and periodic orbits of Hamiltonian equations. 91h:58076
- Salvatore, Addolorato Periodic solutions with prescribed minimal period for some ordinary differential equations. (Italian summary) 91j:34058
- Satija, Indubala I. see Black, Randall C., 91d:58217
- van der Schaft, A. J. (with Oelhoff, J. E.) Model reduction of linear conservative mechanical systems. 91e:93023
 — see also Crouch, Peter E., 91e:93080 and Huijberts, H. J. C., 91m:93042
- Schmidt, George see Györgyi, G.; et al., 91a:58060
- Scovel, C. see Channell, Paul J., 91g:58073
- Selmenis, J. Rational quasiperiodic solutions for dynamical systems. 91h:58220
- Seln-Echaluze, M. L. see Abad, A.; et al., 91j:00015
- Semenov-Tyán-Shanskii, M. A. see Bobenko, A. I.; et al., 91a:58070
- Séré, Éric see Coti Zelati, Vittorio; et al., 91g:58065 and 91j:58057
- Sherry, G. C. A generalized Hamiltonian formalism unifying classical and quantum mechanics. 91m:58068
 — Generalized Poisson algebras and Hamiltonian dynamics. 91i:58048
- Sinac, Carlos Estimates of the error in normal forms of Hamiltonian systems. Applications to effective stability and examples. 91e:58164
 — An overall view on conservative maps of the plane. 91h:58044
- Sivaramakrishnan, Anand Linked twist maps in Hamiltonian systems. 91h:58120
- Skodje, Rex T. see Cary, John R., 91d:58148
- Smilansky, U. see Trol, G., 91h:58074
- Sochos, G. (with Bountis, Tassos; Polymilis, H.) Is the Hamiltonian $H = (\dot{x}^2 + \dot{y}^2 + x^2 y^2)/2$ completely chaotic? (Italian summary) 91d:70016
- Stellmacher, I. Solutions périodiques pour la résonance 4 : 1 : 4 dans les systèmes hamiltoniens à trois degrés de liberté. (English summary) [Periodic solutions for the resonance 4 : 1 : 4 in Hamiltonian systems with three degrees of freedom] 91e:70063
- Stoffel, A. Application of Bloch analysis to the stability investigation of Hamiltonian systems of linear differential equations with periodic coefficients. (German and Russian summaries) 91h:34062
- Stoelovitzky, G. (with Hernando, J. A.) Resonant structure of integrable and near-integrable two-dimensional systems. 91f:58033
- Suris, Yu. B. Preservation of integral invariants in the numerical solution of systems $\dot{x} = Kx + f(x)$. (Russian) 91m:65205
- Szczepanski, J. see Zaraki, H., 91g:58091
- Tabor, Michael ★ Chaos and integrability in nonlinear dynamics. 91a:58066
- Takahashi, Kin'ya Distribution functions in classical and quantum mechanics. 91a:81051
- Takens, Floris On Poincaré's geometric investigations of the equations of classical mechanics. 91h:58077
 — see also Broer, H. W.; et al., 91e:58156
- Talon, M. see Aran, J.; et al., 91g:58101
- Tanaka, Kenji see Aizawa, Yôji; et al., 91m:58053
- Tarantello, Gabriella Subharmonic solutions for Hamiltonian systems via a Z_p pseudoindeces theory. 91h:58078
- Tetelboim, Claudio see Henneaux, Marc; et al., 91f:81096
- Treshchêv, D. V. A mechanism for the destruction of resonance tori in Hamiltonian systems. 91i:58124
 — see also Kozlov, Valerii V., 91d:58098
- Trol, G. (with Smilansky, U.) A simple model for chaotic scattering. I. Classical theory. 91h:58074
- Turchetti, G. Nekhoroshev stability estimates for symplectic maps and physical applications. 91i:58125
- Udry, S. (with Martinet, L.) Orbital behaviour transition from the Hénon-Heiles to the three-particle Toda lattice Hamiltonian. (Not in MR)
- Usikov, D. A. see Zaslavskii, G. M.; et al., 91m:58109
- Valkering, T. P. see Brinkman, G. J., 91e:70070
- Vasil'eva, T. D. Euler equations in Lie algebras over group rings. (Russian) 91d:58109
- Vechevalov, V. V. see Chirikov, B. V., 91h:58039
- Verhulst, Ferdinand see Hoveijn, Igor, 91j:58109
- Vilhena de Moraes, R. (with Da Silva, P. A. F.) Influence of the resonance in a gravity-gradient stabilized satellite. 91e:70075
- Vinogradov, G. A. (with Elyashevich, M. M.; Likhachev, V. N.) On ergodicity of an integrable system (the Toda chain). (Not in MR)
- Viterbo, Claude Recent progress in periodic orbits of autonomous Hamiltonian systems and applications to symplectic geometry. 91g:58228
 — see also Floer, Andreas; et al., 91h:58064 and Hofer, Helmut, 91h:58208
- Vujta, G. Symplectic formalism for the thermodynamics of irreversible processes. (German summary) 91h:82050
- (Voyatzis, G.) see Grammaticos, B., 91c:70017
- Whelan, N. D. (with Goodings, D. A.; Cannizzo, J. K.) Two balls in one dimension with gravity. 91c:70031
- Wilbrink, Jacob New fixed point of the renormalisation operator associated with the recurrence of invariant circles in generic Hamiltonian maps. 91f:58076
- Wojtkowski, Maciej P. The system of one-dimensional balls in an external field. II. 91h:58101
- Wood, B. P. (with Lichtenberg, A. J.; Lieberman, M. A.) Arnold diffusion in weakly coupled standard maps. 91j:58148
- Wu, Yihren Berry's phase and the planar three-body problem. 91h:81040
- Wysocki, Krzysztof see Hofer, Helmut, 91m:58064
- Yamamoto, Kenichi see Aizawa, Yôji; et al., 91m:58053
- Yon, Jian Gong Invariant tori and Lagrange stability of pendulum-type equations. 91d:58126
- Zachert, A. see Geisel, T.; et al., 91h:82030
- Zakharov, M. Yu. see Zaslavskii, G. M.; et al., 91m:58109
- Zampieri, Gaetano see Gorni, Gianluca, 91d:58070 and 91h:58127
- Zanelli, Jorge see Henneaux, Marc; et al., 91f:81096
- Zaslavskii, G. M. (with Zakharov, M. Yu.; Neishtadt, A. I.; Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) Multidimensional Hamiltonian chaos. 91m:58109
 — see also Afanas'ev, V. V.; et al., 91i:58123
- Zehnder, Eduard see Salamon, Dietmar, 91h:58076
- Zehrf, A. L. The geometry of invariant manifolds of a top in a quadratic potential field. 91j:58064

- Żołądek, Henryk** The Kolmogorov-Arnol'd-Moser theory and the restricted three-body problem. (Polish) (Not in MR)
Zorski, H. (with Szczepański, J.) Classical mechanics in infinite-dimensional Hilbert space. (Russian and Polish summaries) 91g:58091
Zubov, V. I. A complete system of first integrals for equations of motion. 91e:34010

Items listed otherwise than by author

Cortina d'Ampezzo ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91b:70021

Long-term dynamical behaviour of natural and artificial N -body systems ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91b:70021

NATO Advanced Study Institute:

Long-Term Dynamical Behaviour of Natural and Artificial N -Body Systems ★ Long-term dynamical behaviour of natural and artificial N -body systems. 91b:70021

Seminar:

Geometry ★ Travaux du Séminaire Sud-Rhodanien de Géométrie. I. (French) [Papers of the South-Rhône Geometry Seminar. I] 91e:58065

70H15 Canonical transformations

Ferrández Leal, José Manuel Extended canonical transformations increasing the number of variables. 91e:70049

Takahashi, Yasushi An investigation of the effect of the canonical transformation on the Lagrangian. 91a:70027

Items with secondary classifications in 70H15

Cabo, Alejandro (with Louis-Martinez, Domingo) On Dirac's conjecture for Hamiltonian systems with first- and second-class constraints. 91k:81091

Carilema, José F. (with Rahada, Manuel F.) Generating functions, bi-Hamiltonian systems, and the quadratic-Hamiltonian theorem. 91b:58055

Ding, Qing Chen Symmetries of mechanical systems and conserved quantities of motion. (Chinese. English summary) (Not in MR)

Duviryak, A. A. (with Klyuchkovskii, Yu. B.) A classical analogue of intertwining operators in relativistic Hamiltonian mechanics in a system of particles. (Russian) 91g:70017

Emel'yanova, I. S. Symmetric canonical equations with a Hamiltonian that depends explicitly on time. (Russian) 91b:70029

Flach, G. (with Kirschbaum, D.) On the Lie group of projective canonical transformations. (German summary) 91b:58063

Forest, Etienne (with Ruth, Ronald D.) Fourth-order symplectic integration. 91e:58054

Gorni, Gianluca (with Zampieri, Gaetano) Reducing scattering problems under cone potentials to normal form by global canonical transformations. 91b:58127

Grigore, D. R. A possible generalization of the concept of symmetry in analytical mechanics. 91d:58072

Gu, Zhi Yu see Huang, Bo Wen; et al., 91c:70035

Huang, Bo Wen (with Gu, Zhi Yu; Qian, Shang Wu) Invariants and symmetries for a particle with a force quadratic in the velocity. 91c:70035

Karlikowski, V. I. (with Michailova, Miloslava M.) On the symmetries of the dynamical systems with two degrees of freedom. (Russian summary) 91d:81163

Kelly, Thomas J. A note on first-order normalizations of perturbed Keplerian systems. 91a:70012

Kirschbaum, D. see Flach, G., 91b:58063

Klyuchkovskii, Yu. B. see Duviryak, A. A., 91g:70017

Lin, Chjan C. Graph theory and a special class of symplectic transformations: the generalized Jacobi variables. 91k:58040

Louis-Martinez, Domingo see Cabo, Alejandro, 91k:81091

Michailova, Miloslava M. see Karlikowski, V. I., 91d:81163

Neri, Filippo (with Rangarajan, Govindan) Kinematic moment invariants for linear Hamiltonian systems. 91d:70008

Ozorio de Almeida, Alfredo M. On the symplectically invariant variational principle and generating functions. 91m:58048

Qian, Shang Wu see Huang, Bo Wen; et al., 91c:70035

Rahada, Manuel F. see Carilema, José F., 91b:58055

Rangarajan, Govindan see Neri, Filippo, 91d:70008

Ruth, Ronald D. see Forest, Etienne, 91e:58054

Takano, Kyoichi Reduction for Painlevé equations at the fixed singular points of the second kind. 91b:34006

Zampieri, Gaetano see Gorni, Gianluca, 91b:58127

70H20 Hamilton-Jacobi equations

Bulatović, R. M. The Hamilton-Jacobi equation and asymptotic motions of a seminatural system. (Russian. English and Serbo-Croatian summaries) 91i:70015

— Analytic solutions of the Hamilton-Jacobi equations of an irreversible system in a neighborhood of a nondegenerate maximum of the potential energy. 91i:70014

Chambers, L. G. Special integrals of the Hamilton-Jacobi equation. 91b:70032

Marmo, G. (with Morandi, G.; Mukunda, N.) A geometrical approach to the Hamilton-Jacobi form of dynamics and its generalizations. 91j:70016

Morandi, G. see Marmo, G.; et al., 91j:70016

Mukunda, N. see Marmo, G.; et al., 91j:70016

Items with secondary classifications in 70H20

Cardin, Franco On the geometrical Cauchy problem for the Hamilton-Jacobi equation. (Italian and Russian summaries) 91e:58192

Evans, N. W. Superintegrability in classical mechanics. 91k:70016

Herczyński, Jan Semiclassical limit for perturbations of nonresonant rotators. (French summary) 91m:81058

70H25 Hamilton's principle

Lao, Shao Kai The generalized relativistic dynamical equations of a second-order

nonholonomic system. (Chinese. English summary) 91e:70050

Items with secondary classifications in 70H25

Baryshnikov, Yu. M. A Hamiltonian form of nonholonomic variational problems. 91g:58071

Caristi, Giovanni The Hamilton principle in relativistic particle dynamics and in the dynamics of a relativistic ideal fluid. (Italian. English summary) 91k:70019

Torres del Castillo, G. F. Orbits and variational principles for conservative Hamiltonian systems. (Spanish. English summary) 91b:70031

70H30 Other variational principles

Buchdahl, H. A. Perturbed characteristic functions. III. 91b:70033

Cardin, Franco (with Zanzotto, Giovanni) On constrained mechanical systems: d'Alembert's and Gauss' principles. 91b:70034

Li, Zi Ping The Noether theorem in phase space and its applications. (Chinese. English summary) 91e:70051

Marinca, V. see Obădeanu, V., 91g:70016

Obădeanu, V. (with Marinca, V.) Sur le problème inverse dans la mécanique newtonienne. [On the inverse problem in Newtonian mechanics] 91g:70016

Trypanova, N. Ya. Application of the principle of least constraint to some problems in theoretical mechanics. (Russian) 91k:70018

Velichik, V. A. The principle of least action for rheonomous systems. (Russian. English summary) 91i:70016

Zanzotto, Giovanni see Cardin, Franco, 91b:70034

Zhao, Yue Yu Conserved quantities of general dynamical systems. I. (Chinese. English summary) 91d:70010

Items with secondary classifications in 70H30

Adams, Noah P. see Banerjee, Ajit, 91d:49049

Banerjee, Ajit (with Adams, Noah P.) Dynamics of classical systems based on the principle of stationary action. 91d:49049

Bérest, Pierre Conditions suffisantes de minimum pour une fonctionnelle d'action lagrangienne. (English summary) [Sufficient minimum conditions for a Lagrangian action functional] 91b:49030

Cendra, Hernan (with Ibrort, Luis A.; Marsden, Jerrold E.) Horizontal Lin constraints, Clebsch potentials and variational principles on principal fiber bundles. 91k:58028

Crampin, M. Lagrangian submanifolds and the Euler-Lagrange equations in higher-order mechanics. 91d:58058

Ferrario, Carlo see Morandi, G.; et al., 91k:58025

Grüsser, H. S. P. On the canonical formalisms for higher order problems in the calculus of variations of single integrals. (Italian summary) 91f:49026

Ibrort, Luis A. see Cendra, Hernan; et al., 91k:58028

Lacomba, Ernesto A. (with Tulczyjew, Włodzimierz M.) Geometric formulation of mechanical systems with one-sided constraints. 91k:58043

Lo Vecchio, G. see Morandi, G.; et al., 91k:58025

Marmo, G. see Morandi, G.; et al., 91k:58025

Marsden, Jerrold E. see Cendra, Hernan; et al., 91k:58028

Morandi, G. (with Ferrario, Carlo; Lo Vecchio, G.; Marmo, G.; Rubano, C.) The inverse problem in the calculus of variations and the geometry of the tangent bundle. 91k:58025

Muñoz Masqué, Jaime The problem of regularity in the second-order calculus of variations. (Spanish. English summary) 91h:58032

Olver, Peter J. Invariant theory, equivalence problems, and the calculus of variations. 91c:49069

Ozorio de Almeida, Alfredo M. On the symplectically invariant variational principle and generating functions. 91m:58048

Pitanga, P. Symplectic projector in constrained systems. 91b:58045

Rubano, C. see Morandi, G.; et al., 91k:58025

Torres del Castillo, G. F. Orbits and variational principles for conservative Hamiltonian systems. (Spanish. English summary) 91b:70031

Tulczyjew, Włodzimierz M. see Lacomba, Ernesto A., 91k:58043

70H35 Lagrange's equation of motion

Gallilella, A. S. Inverse problems in dynamics: methods, perspectives. (Russian. English summary) 91h:70015

Hu, Ze Liang Derivation of Lagrange's equations from the variation of kinetic energy in mechanical systems. (Chinese. English summary) (Not in MR)

Mimura, Fumitake (with Nono, Takayuki) The inverse problem of Lagrangian dynamics within the context of the calculus on differential forms. 91e:70052

Nono, Takayuki see Mimura, Fumitake, 91e:70052

Obădeanu, V. Sur le problème inverse dans la mécanique newtonienne. [On the inverse problem in Newtonian mechanics] 91e:70053

— Le problème direct de la mécanique newtonienne. [The direct problem in Newtonian mechanics] 91h:70016

Items with secondary classifications in 70H35

de Andrés, Luis C. (with de León, Manuel; Rodrigues, Paulo R.) Connections on tangent bundles of higher order. 91d:53031

Annamalai, A. see Tamizhmani, K. M., 91e:58165

Barone, Fierella (with Grassini, Renato) On the Euler-Lagrange map in canonical mechanics. (Italian summary) 91d:58067

Blot, Joël Trajectoires presque-périodiques des systèmes lagrangiens convexes. (English summary) [Almost periodic trajectories of convex Lagrangian systems] 91b:58218

Carilema, José F. Theory of singular Lagrangians. 91k:58035

Carlier, P. see Peiffer, K., 91g:70020

Chobanov, Georgi Iv. (with Chobanov, Ivan) Gibbs-Appell's nonholonomic equations as projections of Euler's dynamical axioms on appropriate axes. (Russian summary) 91h:70003

- Chobanov, Ivan (with Simeonov, Rumen) A note on two previous articles. (Russian summary) 91h:70002
- Can the reputation of the Lagrangian dynamical equations be saved? (Russian and Bulgarian summaries) 91m:70005
- see also Chobanov, Georgi Iv., 91h:70003
- Christina, Jan ★ Formal calculus of variations on fibered manifolds. 91f:58024
- Crampin, M. Lagrangian submanifolds and the Euler-Lagrange equations in higher-order mechanics. 91d:58058
- Felmer, Patricio L. Multiple periodic solutions for Lagrangian systems in T^n . 91h:58110
- Ferraro, Carlo (with Passerini, Arianna) Symmetries and constants of motion for constrained Lagrangian systems: a presymplectic version of the Noether theorem. 91h:58037
- see also Morandi, G.; et al., 91h:58025
- Ferraris, Marco see Magnano, Guido; et al., 91d:58078
- Francaviglia, Mauro see Magnano, Guido; et al., 91d:58078
- Giraldo, Antonio see de León, Manuel; et al., 91j:58062
- Grassini, Renato see Barone, Fiorella, 91d:58067
- Grigore, D. R. Symmetries in the Lagrangian formalism. 91a:58165
- Guo, Zhong Heng see Ma, Xiao Wu, 91m:70016
- Kamat, Manohar P. see Kurdila, Andrew; et al., 91d:70007
- Kirgizbaev, Zh. K. The effect of force structure on the stability of motion of a system of variable mass. (Russian. Kazakh summary) 91h:70022
- Kurdila, Andrew (with Papastavridis, John G.; Kamat, Manohar P.) Role of Maggi's equations in computational methods for constrained multibody systems. 91d:70007
- de León, Manuel (with Giraldo, Antonio; Rodrigues, Paulo R.) Sur la réduction de systèmes lagrangiens dégénérés d'ordre supérieur. (English summary) [On the reduction of degenerate Lagrangian systems of higher order] 91j:58062
- (with Rodrigues, Paulo R.) Equivalence of degenerate Lagrangians of higher order. 91j:58063
- see also Andrés, Luis C.; et al., 91d:53031
- Li, Zi Ping The Noether theorem in phase space and its applications. (Chinese. English summary) 91e:70051
- Lo Vecchio, G. see Morandi, G.; et al., 91h:58025
- Magnano, Guido (with Ferraris, Marco; Francaviglia, Mauro) On the Legendre transformation for a class of nonregular higher-order Lagrangian field theories. 91d:58078
- Marinea, V. see Obădeanu, V., 91g:70016
- Marmo, G. see Morandi, G.; et al., 91h:58025
- Morandi, G. (with Ferraro, Carlo; Lo Vecchio, G.; Marmo, G.; Rubano, C.) The inverse problem in the calculus of variations and the geometry of the tangent bundle. 91h:58025
- Ma, Xiao Wu (with Guo, Zhong Heng) Geometrization of nonholonomic mechanical systems and their solvability. 91m:70016
- Obădeanu, V. (with Marinea, V.) Sur le problème inverse dans la mécanique newtonienne. [On the inverse problem in Newtonian mechanics] 91g:70016
- Olver, Peter J. Classical invariant theory and the equivalence problem for particle Lagrangians. I. Binary forms. 91c:58002
- Papastavridis, John G. see Kurdila, Andrew; et al., 91d:70007
- Passerini, Arianna see Ferraro, Carlo, 91h:58037
- Peiffer, K. (with Carlier, P.) A remark on the inversion of Lagrange-Dirichlet's theorem. 91g:70020
- Rahada, Manuel F. Time-dependent Lagrangian systems: a geometric approach using semibasic forms. 91f:58031
- Rodrigues, Paulo R. see de Andrés, Luis C.; et al., 91d:53031; de León, Manuel; et al., 91j:58062 and 91j:58063
- Rubano, C. see Morandi, G.; et al., 91h:58025
- Simeonov, Rumen see Chobanov, Ivan, 91h:70002
- Tamizhmani, K. M. (with Annamalai, A.) Generalised symmetries of some nonlinear finite-dimensional systems. 91e:58165
- Tarantello, Gabriella Remarks on forced equations of the double pendulum type. 91j:58135
- Torres del Castillo, G. F. Symplectic structures in mathematical physics. (Spanish. English summary) 91a:58067
- Vendra, Alexandr Semisprays, connections and regular equations in higher order mechanics. 91h:58047
- Wu, Yuhua The discrete variational approach to the Euler-Lagrange equation. 91h:58027
- Zhuravlev, V. F. Mechanics of systems with unilateral constraints. (Russian. English summary) 91e:70037
- Zubov, V. I. Construction of controlling force fields. 91m:70038

70H40 Relativistic dynamics

- Arodz, H. (with Sitarz, A.; Węgrzyn, P.) On relativistic point particles with curvature-dependent actions. 91h:70035
- Carini, Giovanni The Hamilton principle in relativistic particle dynamics and in the dynamics of a relativistic ideal fluid. (Italian. English summary) 91h:70019
- Droz-Vincent, Philippe (with Nurowski, Paweł) Symmetries in predictive relativistic mechanics. 91m:70034
- Dvirlyak, A. A. (with Klyuchkovskii, Yu. B.) A classical analogue of intertwining operators in relativistic Hamiltonian mechanics in a system of particles. (Russian) 91g:70017
- Klyuchkovskii, Yu. B. see Dvirlyak, A. A., 91g:70017
- Nurowski, Paweł see Droz-Vincent, Philippe, 91m:70034
- Sitarz, A. see Arodz, H.; et al., 91h:70035
- Węgrzyn, P. see Arodz, H.; et al., 91h:70035

Items with secondary classifications in 70H40

- Bryant, John G. A formulation of the N -body problem where the velocities are bounded. 91g:70009
- Buchdahl, H. A. Perturbed characteristic functions. III. 91h:70033
- Choudhry, R. K. see Kedia, Lalita, 91h:70007
- Esquivel, José Leopoldo (with Vilchez, Marta Eugenia) Comments on Newtonian mechanics. (Spanish. English summary) 91e:70009

- Golubynnikov, A. N. (with Plotnikov, S. I.) On the separation of energy from mass in inhomogeneous discrete mechanical systems. 91h:70025
- Kedia, Lalita (with Choudhry, R. K.) On the libration points in relativistic elliptic restricted problem of three bodies. 91h:70007
- Leo, Shao Kai The generalized relativistic dynamical equations of a second-order nonholonomic system. (Chinese. English summary) 91e:70050
- Relativistic generalized Appell equations for variable-mass nonholonomic systems of any order. (Chinese. English summary) 91h:70013
- Opanasyuk, Yu. A. see Piragas, K. A., (91e:70036)
- Piragas, K. A. (with Opanasyuk, Yu. A.) Construction of Poincaré-invariant equations of celestial mechanics. (Russian) (see 91e:70036)
- Plotnikov, S. I. see Golubynnikov, A. N., 91h:70025
- Vilchez, Marta Eugenia see Esquivel, José Leopoldo, 91e:70009

70H99 None of the above, but in this section

- Gracia, X. (with Pons, J. M.) On an evolution operator connecting Lagrangian and Hamiltonian formalisms. 91h:70036
- Pons, J. M. see Gracia, X., 91h:70036
- Zhuravlev, V. F. Mechanics of systems with unilateral constraints. (Russian. English summary) 91e:70037

Items with secondary classifications in 70H99

- Cetto, Ana María see de la Peña, Luis, 91e:70011
- Crawford, Frank S. Elementary examples of adiabatic invariance. 91a:70001
- Fox, Ronald F. Chaos, molecular fluctuations, and the correspondence limit. 91g:81023
- González-López, A. Symmetries of linear Newtonian systems. 91a:70007
- Grigore, D. R. Symmetries in the Lagrangian formalism. 91a:58165
- Localizability and covariance in analytical mechanics. 91a:58171
- Hatori, Tadatsugu see Ichikawa, Yoshi H.; et al., 91a:58116
- Ichikawa, Yoshi H. (with Kamimura, Tetsuo; Hatori, Tadatsugu; Kim, Soo Yong) Stochasticity and symmetry of the standard map. 91a:58116
- Kamimura, Tetsuo see Ichikawa, Yoshi H.; et al., 91a:58116
- Kim, Soo Yong see Ichikawa, Yoshi H.; et al., 91a:58116
- Kimura, Toshiaki see Sugano, Reiji, 91g:58239
- Kook, Hyung-tae (with Meiss, James D.) Application of Newton's method to Lagrangian mappings. 91h:70003
- Leach, P. G. L. see Mahomed, F. M., 91d:58221
- Li, Xin⁴ see Li, Zi Ping, 91g:70010
- Li, Zi Ping (with Li, Xin⁴) Generalized Noether theorem and Poincaré invariant for nonconservative nonholonomic systems. 91g:70010
- de la Llave, R. (with Rana, David) Accurate strategies for small divisor problems. 91a:58158
- Mahomed, F. M. (with Leach, P. G. L.) The Lie algebra $sl(3, \mathbb{R})$ and linearization. 91d:58221
- Meiss, James D. see Kook, Hyung-tae, 91h:70003
- Ovsienko, V. Yu. A Lagrangian Schwarzian derivative. (Russian) 91e:58059
- de la Peña, Luis (with Cetto, Ana María) Constructing integrals of motion by elementary means. (Spanish summary) 91e:70011
- Rana, David see de la Llave, R., 91a:58158
- Sugano, Reiji (with Kimura, Toshiaki) Gauge transformations for dynamical systems with first- and second-class constraints. 91g:58239
- Vujčić, Veljko A. ★ Dynamics of rheonomic systems. 91m:70019
- Yamazaki, Susumu On the dynamical system $\dot{x}_k = -\exp[(x_{k-1} - x_{k+1})/2]$. 91h:70027

70Jxx Linear vibration theory [see also 73D30]

- Del Pedro, Michel (with Fahud, Pierre) ★ Mécanique vibratoire. (French) [Vibration mechanics] (Not in MR)
- Fahud, Pierre see Del Pedro, Michel, (Not in MR)

Items with secondary classifications in 70Jxx

- (Hainsworth, R. N.) see Rabinovich, M. I., 91f:00011
- Newland, D. E. ★ Mechanical vibration analysis and computation. 91a:73044
- Rabinovich, M. I. (with Trubetskoy, D. I.) ★ Oscillations and waves in linear and nonlinear systems. 91f:00011
- Trubetskoy, D. I. see Rabinovich, M. I., 91f:00011
- Zubov, V. I. ★ Колебания в волнах. (Russian) [Oscillations and waves] 91h:34040

70J05 Finite degree of freedom systems

- Meyer, Kenneth R. The geometry of harmonic oscillators. 91h:70017
- Veselić, K. On linear vibrational systems with one-dimensional damping. II. 91j:70017

Items with secondary classifications in 70J05

- Banichuk, N. V. (with Bratus', A. S.; Myshkis, A. D.) Dynamic stability of nonconservative mechanical systems with small damping. 91j:70018
- Bratus', A. S. see Banichuk, N. V.; et al., 91j:70018
- Dresig, H. (with Vulfson, I. I.) ★ Dynamik der Mechanismen. (German) [Dynamics of mechanisms] 91j:70004
- Myshkis, A. D. see Banichuk, N. V.; et al., 91j:70018
- Oelhoff, J. E. see van der Schaft, A. J., 91f:30223
- van der Schaft, A. J. (with Oelhoff, J. E.) Model reduction of linear conservative mechanical systems. 91f:30223
- Vulfson, I. I. see Dresig, H., 91j:70004

70J10 Modal analysis

- Berg, Richard E. (with Marshall, Todd S.) Wilberforce pendulum oscillations and normal modes. (Not in MR)

Cronin, D. L. Eigenvalue and eigenvector determination for nonclassically damped dynamic systems. 91c:70038

Marshall, Todd S. *see* Berg, Richard E., (Not in MR)

Items with secondary classifications in 70J10

Bahar, L. Y. (with Kwatny, Harry G.) Dynamic response of some dissipative systems by means of functions of matrices. 91a:70028

(Dailey, R. Lane) *see* Mills-Curran, William C., 91m:65109

Kwatny, Harry G. *see* Bahar, L. Y., 91a:70028

Lelopik, R. B. Reduction of second order linear dynamical systems, with large dissipation, by state variable transformations. 91e:34005

Leung, A. Y. T. Nonconservative dynamic substructures. 91e:73081

Mills-Curran, William C. Comment on: "Eigenvector derivatives with repeated eigenvalues" [AIAA J. 27 (1989), no. 4, 486-491; MR 90b:65064] by R. L. Dailey. 91m:65109

Mokhele, E. L. (with Mullikin, A. L.; Sledd, M. B.) Exact and steady-state solutions to sinusoidally excited, half-infinite chains of harmonic oscillators with one isotopic defect. 91g:82042

Mullikin, A. L. *see* Mokhele, E. L.; et al., 91g:82042

Sledd, M. B. *see* Mokhele, E. L.; et al., 91g:82042

70J25 Stability

Banichuk, N. V. (with Bratus', A. S.; Myshkis, A. D.) The effects of stabilization and destabilization in nonconservative systems. 91e:70054

— (with Bratus', A. S.; Myshkis, A. D.) Destabilizing action of small dissipative forces on nonconservative systems. 91k:70020

— (with Bratus', A. S.; Myshkis, A. D.) Dynamic stability of nonconservative mechanical systems with small damping. 91j:70018

Bratus', A. S. *see* Banichuk, N. V.; et al., 91e:70054; 91j:70018 and 91k:70020

Goncharenko, V. I. Stabilization of the motion of an unstable linear mechanical system. 91e:70055

Malgin, V. E. *see* Zakrzhevskii, M. V., 91e:70056a and 91e:70056b

Myshkis, A. D. *see* Banichuk, N. V.; et al., 91e:70054; 91j:70018 and 91k:70020

Zakrzhevskii, M. V. (with Malgin, V. E.) A study of the stability of periodic regimes in systems with piecewise-linear characteristics using standard transfer matrices. (Russian) 91e:70056a

— (with Malgin, V. E.) Standard transfer matrices for analyzing stability in systems with piecewise-linear characteristics. (Russian) 91e:70056b

Zolotarev, G. F. Stability of a system of two bodies floating on a liquid. (Russian) 91c:70039

Items with secondary classifications in 70J25

Froeschlé, Claude *see* Gantero, J.-L., 91e:58087

Gantero, J.-L. (with Froeschlé, Claude) Linear stability of high-dimensional symplectic systems. 91e:58087

Lekszycki, T. (with Mróz, Z.) Variational principles in analysis and synthesis of elastic systems with damping. 91k:70021

Marsden, Jerrold E. *see* Simo, J. C.; et al., 91j:73036

Mróz, Z. *see* Lekszycki, T., 91k:70021

Posbergh, T. A. *see* Simo, J. C.; et al., 91j:73036

Simo, J. C. (with Posbergh, T. A.; Marsden, Jerrold E.) Stability of coupled rigid body and geometrically exact rods: block diagonalization and the energy-momentum method. 91j:73036

Stoffel, A. Application of Bloch analysis to the stability investigation of Hamiltonian systems of linear differential equations with periodic coefficients. (German and Russian summaries) 91b:34082

70J30 Free motions

Items with secondary classifications in 70J30

Pesterev, A. V. Some properties of spectral-parameter-dependent meromorphic matrices that arise in the study of the spectra of complex systems. 91i:93009

70J35 Forced motions

Items with secondary classifications in 70J35

Esfandiari, Ramin S. *see* Ududia, Firdaus E., 91e:70003

Ududia, Firdaus E. (with Esfandiari, Ramin S.) Nonclassically damped dynamic systems: an iterative approach. 91e:70003

70J40 Parametric resonances

Items with secondary classifications in 70J40

Samoilenko, Yu. I. Dynamics of the evolution of a system of linear oscillators under parametric resonance control. 91j:70031

70J99 None of the above, but in this section

Bahar, L. Y. (with Kwatny, Harry G.) Dynamic response of some dissipative systems by means of functions of matrices. 91a:70028

Fisher, Francis E. *see* Karnopp, Bruce H., (Not in MR) and (Not in MR)

Inman, Daniel J. *see* Ross, A. D. S., 91e:70040

Karnopp, Bruce H. (with Fisher, Francis E.) On the vibrations of overdamped systems. (Not in MR)

— (with Fisher, Francis E.) Determination of vibration parameters in moderately damped systems. (Not in MR)

Kwatny, Harry G. *see* Bahar, L. Y., 91a:70028

Lekszycki, T. (with Mróz, Z.) Variational principles in analysis and synthesis of elastic systems with damping. 91k:70021

Mróz, Z. *see* Lekszycki, T., 91k:70021

Ross, A. D. S. (with Inman, Daniel J.) Settling time of underdamped linear lumped parameter systems. 91e:70040

Items with secondary classifications in 70J99

Adams, Noah P. *see* Banerjee, Ajit, 91d:49049

Banerjee, Ajit (with Adams, Noah P.) Dynamics of classical systems based on the principle of stationary action. 91d:49049

Dresig, H. *see* Vulfson, I. I., 91d:73029

Eliseev, S. V. (with Volkov, L. N.; Kukhareenko, V. P.) ★ Динамика механических систем с дополнительными связями. (Russian) [The dynamics of mechanical systems with additional constraints] 91e:70064

González-López, A. Symmetries of linear Newtonian systems. 91a:70007

Gorinevskii, D. M. The Bubnov-Galerkin method in problems of the control of oscillatory mechanical systems with distributed parameters. 91k:65119

Kukhareenko, V. P. *see* Eliseev, S. V.; et al., 91e:70064

Ma, Fai *see* Shahrux, Shahrux M., 91e:34007

Shahrux, Shahrux M. (with Ma, Fai) Symmetrizability of asymmetric systems. 91e:34007

Volkov, L. N. *see* Eliseev, S. V.; et al., 91e:70064

Vulfson, I. I. (with Dresig, H.) Methods for the analysis of the vibrations of mechanisms. (Russian. English summary) 91d:73029

Yakovlev, V. P. Decomposition of a problem of identifying discrete mechanical systems by time data. (Russian) (Not in MR)

Zimoch, R. Z. On the construction of physical systems from spectral data. 91f:65144

70Kxx Nonlinear motions [see also 34Cxx, 58Fxx, 73D35, 73K12]

Items with secondary classifications in 70Kxx

Gumowski, I. ★ Oscillatory evolution processes. 91m:34041

(Hainsworth, R. N.) *see* Rabinovich, M. I., 91f:00011

Jackson, E. Atlee ★ Perspectives of nonlinear dynamics. Vol. 1. 91e:58052

— ★ Perspectives of nonlinear dynamics. Vol. 2. 91e:58030

Neimark, Yu. I. Theory of oscillations yesterday and today. (Russian) 91f:01016

Rabinovich, M. I. (with Trubetkov, D. I.) ★ Oscillations and waves in linear and nonlinear systems. 91f:00011

Sagdeev, R. Z. *see* Zaslavskii, G. M., 91d:58062

(Schiehlen, W.) *see* Nonlinear dynamics in engineering systems, 91m:70002

Szemplińska-Stupnicka, Wanda ★ The behavior of nonlinear vibrating systems. Vol. I. 91f:34039a

— ★ The behavior of nonlinear vibrating systems. Vol. II. 91f:34039b

Trubetkov, D. I. *see* Rabinovich, M. I., 91f:00011

Zaslavskii, G. M. (with Sagdeev, R. Z.) ★ Введение в нелинейную физику. (Russian) [Introduction to nonlinear physics] 91d:58062

Zaber, V. I. ★ Колебания и волны. (Russian) [Oscillations and waves] 91f:34040

Items listed otherwise than by author

IUTAM Symposium:

Nonlinear Dynamics in Engineering Systems ★ Nonlinear dynamics in engineering systems. 91m:70002

Nonlinear dynamics in engineering systems ★ Nonlinear dynamics in engineering systems. 91m:70002

Stuttgart ★ Nonlinear dynamics in engineering systems. 91m:70002

70K05 Phase plane analysis

Items with secondary classifications in 70K05

Beletskii, V. V. Regular and chaotic motions in a problem on the orientation of a satellite. (Russian) 91j:70029

von Boehm, J. *see* Isomäki, H. M.; et al., (91j:58005)

Bryant, Peter J. (with Miles, John W.) On a periodically forced, weakly damped pendulum. I. Applied torque. 91h:70020a

— (with Miles, John W.) On a periodically forced, weakly damped pendulum. II. Horizontal forcing. 91h:70020b

— (with Miles, John W.) On a periodically forced, weakly damped pendulum. III. Vertical forcing. 91h:70020c

Evan-Iwanowski, R. M. *see* Traa, M. H., 91b:70040

Isomäki, H. M. (with von Boehm, J.; Rätty, R.) Chaos and the structure of the basin boundaries of a dissipative oscillator. (see 91j:58005)

(Kivihar, Yu. S.) *see* Kosevich, A. M., 91b:58051

Kosevich, A. M. (with Kovalev, A. S.) ★ Введение в нелинейную физическую механику. (Russian) [Introduction to nonlinear physical mechanics] 91b:58051

Kovalev, A. S. *see* Kosevich, A. M., 91b:58051

Miles, John W. *see* Bryant, Peter J., 91h:70020a; 91h:70020b and 91h:70020c

Pyatnitskii, E. S. (with Rapoport, L. B.) A method for constructing invariant functions and the study of phase portraits of dynamical systems on a computer. 91j:34065

Rapoport, L. B. *see* Pyatnitskii, E. S., 91j:34065

Rätty, R. *see* Isomäki, H. M.; et al., (91j:58005)

Sapunar-Lojalewicz, Wanda On certain type of differential equation. (Polish summary) 91k:34012

Traa, M. H. (with Evan-Iwanowski, R. M.) Nonstationary responses of self-excited driven system. 91b:70040

70K10 Limit cycles

- Li, Li¹ (with Ren, Bao Jing; Lu, Zhi Qi) Self-excited oscillation of dynamical systems with gaps. (Chinese. English summary) 91e:70057
 Lu, Zhi Qi see Li, Li¹; et al., 91e:70057
 Ren, Bao Jing see Li, Li¹; et al., 91e:70057

Items with secondary classifications in 70K10

- Awrejcewicz, J. Bifurcation portrait of the human vocal cord oscillations. 91a:70033
 Balachandran, Balakumar see Nayfeh, Ali Hasan, 91d:58185
 Cao, Deng Qing see Huang, An Ji, 91g:34010
 Caughey, T. K. see Karyeacis, M. P., 91a:70030a and 91a:70030b
 Cheng, Shul Li (with Tan, Zhi Min) Defect and improvement of two-time expansion method in nonlinear oscillations. 91c:34076
 Coppola, Vincent T. (with Rand, Richard H.) Averaging using elliptic functions: approximation of limit cycles. 91f:34041
 Dumortier, Freddy (with Rousseau, Christiane) Cubic Liénard equations with linear damping. 91m:34036
 Huang, An Ji (with Cao, Deng Qing) On the existence of limit cycles of Liénard equation. 91g:34010
 Huang, Qi Yu Limit cycle for cubic system of Kolmogorov type with a conic algebraic trajectory. 91c:34042
 Huang, Wen Hu see Ma, Xing Rui; et al., 91j:34041
 Jung, Christof (with Richter, Peter H.) Classical chaotic scattering—periodic orbits, symmetries, multifractal invariant sets. 91g:58188
 Karyeacis, M. P. (with Caughey, T. K.) Stability of a semi-active impact damper. I. Global behavior. 91a:70030a
 — (with Caughey, T. K.) Stability of a semi-active impact damper. II. Periodic solutions. 91a:70030b
 Kazakevich, M. I. (with Red'ko, S. F.; Kulyabko, Yu. V.) Predictable attractors in nonlinear nonsymmetric systems. (Russian. English summary) 91d:58206
 Kulyabko, Yu. V. see Kazakevich, M. I.; et al., 91d:58206
 Li, Li¹ see Ma, Xing Rui; et al., 91j:34041
 Ma, Xing Rui (with Li, Li¹; Huang, Wen Hu; Zhang, Jia Zhong) Analysis and calculation of limit cycles for an oscillator with a strong nonsymmetric restoring force. (Chinese. English summary) 91j:34041
 Mewell, Bonichard (with Razafimandimby, Boniface) Approximation de cycles limites de R^2 -systemes equivariants hamiltoniens perturbés. (English summary) [An asymptotic method for limit cycles of equivariant Hamiltonian perturbed R^2 -systems] 91i:58110
 Morozov, A. D. Limit cycles and chaos in equations of pendulum type. 91b:58159
 Nayfeh, Ali Hasan (with Balachandran, Balakumar) Motion near a Hopf bifurcation of a three-dimensional system. 91d:58185
 Rand, Richard H. see Coppola, Vincent T., 91f:34041
 Razafimandimby, Boniface see Mewell, Bonichard, 91i:58110
 Red'ko, S. F. see Kazakevich, M. I.; et al., 91d:58206
 Richter, Peter H. see Jung, Christof, 91g:58188
 Rousseau, Christiane see Dumortier, Freddy, 91m:34036
 Tan, Zhi Min see Cheng, Shul Li, 91c:34076
 Zhang, Jia Zhong see Ma, Xing Rui; et al., 91j:34041
 Zhavnerchik, V. E. Periodic solutions of a Rayleigh-type equation. (Russian. English summary) 91e:34040

70K15 Lyapunov theorems

- Bryun, A. Z. A study of orbital stability by means of first integrals. 91e:70058
 Matrosov, V. M. The method of vector Lyapunov functions in nonlinear mechanics. (Russian. English summary) 91g:70018

Items with secondary classifications in 70K15

- Byayrov, T. N. On the stability of nonlinear systems with constantly acting perturbations. (Russian) 91c:34069
 Hough, Michael E. Analytic continuation of periodic orbits from equilibria of two-degree-of-freedom systems in rotating coordinates. 91m:70021
 Lakshmikantham, V. see Martynuk, A. A.; et al., 91e:34055
 Leela, S. see Martynuk, A. A.; et al., 91e:34055
 Martynuk, A. A. (with Lakshmikantham, V.; Leela, S.) * Устойчивость движения: метод интегральных неравенств. (Russian) [Stability of motion: the method of integral inequalities] 91e:34055
 (Mitropolskii, Yu. A.) see Martynuk, A. A.; et al., 91e:34055
 Zhavnerchik, V. E. Stability of motion under the action of positional forces in the presence of third-order double resonance. (Russian. English summary) 91e:70062

70K20 Stability

- Blekhman, I. I. (with Malakhova, O. Z.) Extremal criteria for stability of certain motions. 91j:70019
 Bolotin, Yu. V. Duality in the problem of optimal stabilization of coupled mechanical systems. (Not in MR)
 Bulatović, R. M. Remarks on instability of equilibria of nonholonomic systems. (Russian) 91h:70037
 Carlier, P. see Peiffer, K., 91g:70020
 De Oliveira, J. C. F. see França, L. N. F., 91h:70018
 França, L. N. F. (with De Oliveira, J. C. F.) Stability of some mechanical systems with dry friction. 91h:70018
 Hsieh, Shang Rou see Shaw, Steven W., (91m:58001)
 Karapetyan, A. V. The Routh theorem and its modifications. (Russian. English and Georgian summaries) 91g:70019
 — The Routh theorem and its extensions. 91e:70059
 Kharitonova, O. I. Determining admissible values for a parameter in studying the stability of gyroscopic systems. (Russian) 91m:70025

- Kirgizbaev, Zh. K. The effect of force structure on the stability of motion of a system of variable mass. (Russian. Kazakh summary) 91k:70022
 Kur'mina, L. K. Simplified models in the dynamics of some singularly perturbed systems. (Russian) 91d:70011
 Malakhova, O. Z. see Blekhman, I. I., 91j:70019
 Natslavas, S. Stability and bifurcation analysis for oscillators with motion limiting constraints. 91e:70060
 Peiffer, K. (with Carlier, P.) A remark on the inversion of Lagrange-Dirichlet's theorem. 91g:70020
 Rumyantsev, V. V. see Vladimirov, V. A., 91e:70061
 Salmina, M. A. see Samsonov, V. A., (Not in MR)
 Samsonov, V. A. (with Salmina, M. A.) On the theory of the rotation regulator. (Russian) (Not in MR)
 Shaw, Steven W. (with Hsieh, Shang Rou) The local stability of inactive modes in chaotic multi-degree-of-freedom systems. (see 91m:58001)
 Sosnitskii, S. P. On the structural instability of the equilibrium of systems with gyroscopic forces. (Russian) 91g:70021
 — A case of equilibrium instability of nonholonomic Voronets systems. 91b:70038
 Tsusupova, T. Investigation of the stability of a class of dynamical systems with angular coordinates. (see 91b:70026)
 Vinner, G. M. Stability of equilibrium of a mechanical system with a nonrestraining constraint. (Russian) 91h:70039
 Vladimirov, V. A. (with Rumyantsev, V. V.) On the inversion of the Lagrange theorem for a rigid body with a cavity containing a viscous fluid. 91e:70061
 Zhavnerchik, V. E. Stability of motion under the action of positional forces in the presence of third-order double resonance. (Russian. English summary) 91e:70062

Items with secondary classifications in 70K20

- Afraimovich, V. S. (with Pesin, Ya. B.) Hyperbolicity of infinite-dimensional drift systems. 91c:58103
 Atanasov, V. A. On the asymptotic stabilizability of the positions of relative equilibrium of a gyrost satellite. (Russian) (Not in MR)
 Arizov, A. G. The motion of controllable mechanical systems with servoconstraints. 91m:70037
 Batalova, Z. S. (with Ezhevskaya, N. A.) A numerical study of nonlinear nonautonomous second-order differential equations. (Russian) 91h:70019
 Beale, D. G. (with Scott, R. A.) The stability and response of a flexible rod in a quick return mechanism. 91e:73068
 Bekov, A. A. (with Mukhametkalieva, R. K.) Stability of coplanar libration points of the restricted variable-mass three-body problem. (Russian) (see 91e:70036)
 Ben'kovich, Yu. G. An estimate for the domains of stability of uniform rotations of a heavy rigid body with cavities that are completely filled with an ideal fluid. (Russian) 91e:70014
 Bert, Charles W. Dynamics and stability of unicycles and monocycles. 91b:70014
 Bloch, Anthony M. (with Marsden, Jerrold E.) Control and stabilization of systems with homoclinic orbits. 91a:93050
 — Stability analysis of a rotating flexible system. 91e:70022
 — (with Marsden, Jerrold E.) Stabilization of rigid body dynamics by the energy-Casimir method. 91h:70012
 Bridges, Thomas J. Stability of periodic solutions near a collision of eigenvalues of opposite signature. 91m:58129
 Bryant, Peter J. (with Miles, John W.) On a periodically forced, weakly damped pendulum. I. Applied torque. 91h:70020a
 — (with Miles, John W.) On a periodically forced, weakly damped pendulum. II. Horizontal forcing. 91h:70020b
 — (with Miles, John W.) On a periodically forced, weakly damped pendulum. III. Vertical forcing. 91h:70020c
 Caughey, T. K. (with Vakakis, A.; Sivo, J. M.) Analytical study of similar normal modes and their bifurcations in a class of strongly nonlinear systems. 91i:70017
 — see also Karyeacis, M. P., 91a:70030a and 91a:70030b
 Chen, Shu Hui see Zhang, You Qi; et al., 91e:73082
 Choudhary, P. K. see Haque, M.; et al., 91e:70022
 Choudhry, R. K. see Kumar, Vijay, 91k:70008
 Dresig, H. (with Vulfson, I. I.) * Dynamik der Mechanismen. (German) [Dynamics of mechanisms] 91j:70004
 Ermentrout, G. Bard Oscillator death in populations of "all to all" coupled nonlinear oscillators. 91c:34055
 Ezhevskaya, N. A. see Batalova, Z. S., 91h:70019
 Feng, Xiangbo (with Loparo, Kenneth A.) Almost sure instability of the random harmonic oscillator. 91k:34085
 Goltser, Ya. M. (with Kharlip, A. D.) On a problem of the stabilization of angular motions of a satellite with respect to the center of mass. (Russian. Kazakh summary) 91k:70005
 Haque, M. (with Choudhary, P. K.; Manaziruddin) Nonlinear stability of the triangular points of equilibrium in the restricted three-body problem when the bigger primary is an oblate spheroid. 91e:70022
 Hsieh, Shang Rou (with Shaw, Steven W.) The stability of modes at rest in a chaotic system. 91e:70071a
 — (with Shaw, Steven W.) Erratum: "The stability of modes at rest in a chaotic system". 91e:70071b
 Kalenova, V. I. (with Morozov, V. M.; Salmina, M. A.) On the stabilization of steady motions of systems with cyclic coordinates. 91h:70026
 Kan, V. L. (with Kel'zon, A. S.) Stability and controllability in proportional navigation. 91k:70029
 Karyeacis, M. P. (with Caughey, T. K.) Stability of a semi-active impact damper. I. Global behavior. 91a:70030a
 — (with Caughey, T. K.) Stability of a semi-active impact damper. II. Periodic solutions. 91a:70030b
 Keis, I. A. A semi-inverse method for the optimal stabilization of the motion of a Hamiltonian system. (Russian. English and Estonian summaries) 91e:93073
 Kel'zon, A. S. see Kan, V. L., 91k:70029
 Kharlip, A. D. see Goltser, Ya. M., 91k:70005

- Khrstov, O. *see* Lilov, L., 91c:70048
- Kirpichnikov, S. N. (with Stepanov, A. G.) On the possibility of the appearance of structurally stable global oscillators in the introduction of dissipative forces into dynamical systems that are asymptotically stable in the large. 91g:58149
- Klimova, E. V. Stabilization of a periodic system with a large parameter. (Russian) 91m:93103
- Korčič, P. Stability of the moments of double parametric random excitation of a damped Mathieu oscillator. (German and Serbo-Croatian summaries) 91h:70022
- Krivosheer, A. G. Estimates for the stability of motion by the method of differential inequalities for the Lyapunov function. (Russian) (see 91g:00030)
- Kumar, Vijay² (with Choudhry, R. K.) Nonlinear stability of the triangular libration points for the photogravitational elliptic restricted problem of three bodies. 91k:70006
- Kuyk, Willem (with Smits, Lieven) On the geometries of the rational unfoldings of X^4 . 91m:58017
- (with Smits, Lieven) Rational unfoldings of $\pm X^4$ and their relation with geometric equilibrium theory. 91m:58018
- Lakshmikantham, V. *see* Martynuk, A. A.; et al., 91e:34055
- Lau, S. L. *see* Zhang, You Qi; et al., 91e:73082
- Leela, S. *see* Martynuk, A. A.; et al., 91e:34055
- Leonov, G. A. A criterion for the orbital instability of discontinuous oscillations. 91d:58119
- Li, Ji Bin *see* Zhao, Xiao Hua, 91d:58194
- Lilov, L. (with Khrstov, O.) The stability of equilibrium states of a satellite-gyrost with a damper. (Russian. English and Bulgarian summaries) 91c:70048
- Lobas, Leonid Grigorievich Course stability of two-unit vehicles. 91a:70010
- *see also* Verbitskii, V. G., 91m:70034
- Lochak, Pierre (with Porzio, A.) A realistic exponential estimate for a paradigm Hamiltonian. (French summary) 91d:58120
- Loparo, Kenneth A. *see* Feng, Xiangbo, 91k:34085
- Lak'yanov, L. G. Stability of libration points in the restricted three-body problem with variable masses. 91e:70029
- Manaziruddin *see* Haque, M.; et al., 91c:70022
- Marsden, Jerrold E. *see* Bloch, Anthony M., 91a:93050 and 91h:70012
- Martins, J. A. C. (with Oden, J. Tinsley; Simões, F. M. F.) A study of static and kinetic friction. 91c:73076
- Martynuk, A. A. (with Lakshmikantham, V.; Leela, S.) ★ Устойчивость движения: метод интегральных неравенств. (Russian) [Stability of motion: the method of integral inequalities] 91e:34055
- Matrosov, V. M. The method of vector Lyapunov functions in nonlinear mechanics. (Russian. English summary) 91g:70018
- Matvichuk, K. S. Conditions for technical stability of a dynamic process characterizing the rotation of a solid body on a vertical elastic rod. 91d:73038
- Miles, John W. *see* Bryant, Peter J., 91h:70020a; 91h:70020b and 91h:70020c
- (Mitropol'skii, Yu. A.) *see* Martynuk, A. A.; et al., 91e:34055
- Morozov, V. M. *see* Kalenova, V. I.; et al., 91h:70026
- Mukhametkalieva, R. K. *see* Bekov, A. A., (91e:70036)
- Nagiev, R. F. (with Sarafyan, G. S.) Frictional self-excited oscillations in a system of piecewise-linear friction characteristic. 91m:70033
- Nozadre, G. T. On the stability of vertical rotations of a rigid body suspended from an elastic string. (Russian) (see 91m:00019)
- Stability of relative equilibrium of a solid body suspended by an elastic string. 91c:70011
- Nurgaliev, A. (with Omarkulov, K. A.) Stability of spiral orbits in a nonstationary galactic system with axial symmetry under constantly acting perturbations. (Russian) (see 91e:70036)
- Oden, J. Tinsley *see* Martins, J. A. C.; et al., 91e:73076
- Omarkulov, K. A. *see* Nurgaliev, A., (91e:70036)
- Patrick, George W. The dynamics of two coupled rigid bodies in three-space. 91c:70016
- Pesin, Ya. B. *see* Afraimovich, V. S., 91c:58103
- Petrishin, R. I. *see* Samoilenko, A. M., 91h:34047
- Porzio, A. *see* Lochak, Pierre, 91d:58120
- Pozdnyakov, E. V. *see* Savchenko, A. Ya.; et al., 91e:70024
- Rainey, R. C. T. *see* Thompson, J. M. T.; et al., 91e:70018
- Roy, Archie E. (with Steves, B. A.) A finite-time stability criterion for sun-perturbed planetary satellites. 91d:70005
- (Rumyantsev, V. V.) *see* Problems on the investigation of stability and stabilization of motion, 91m:00019
- Saltbatalov, A. A. Periodic motions that are generated from two-dimensional oscillations and rotations of a solid body on a circular orbit. (Russian) 91g:70004
- Salmiva, M. A. *see* Kalenova, V. I.; et al., 91h:70026
- Samoilenko, A. M. (with Petrishin, R. I.) Integral manifolds of multifrequency oscillatory systems. 91h:34047
- Sarafyan, G. S. *see* Nagiev, R. F., 91m:70033
- Savchenko, A. Ya. (with Sudakov, S. N.; Pozdnyakov, E. V.) The motion of a heavy rigid body, suspended on a string, with a fluid filling in vortical motion. (Russian) 91e:70024
- Savchenko, Ya. A. Dynamic properties of the Lagrange gyroscopes with a nonsymmetrically positioned cavity that is filled with a fluid. (Russian) 91h:70006
- Scott, R. A. *see* Beale, D. G., 91e:73068
- Shaw, Steven W. *see* Halek, Shang Ron, 91e:70071a and 91e:70071b
- Simé, Charles Estimates of the error in normal forms of Hamiltonian systems. Applications to effective stability and examples. 91e:58164
- Simões, F. M. F. *see* Martins, J. A. C.; et al., 91e:73076
- Sivo, J. M. *see* Caughey, T. K.; et al., 91h:70017
- Smits, Lieven *see* Kuyk, Willem, 91m:58017 and 91m:58018
- Soliman, Mohamed S. *see* Thompson, J. M. T.; et al., 91e:70018
- Steindl, A. Bifurcation of codimension 2 for a discrete map. (see 91f:00017)
- Stepanov, A. G. *see* Kirpichnikov, S. N., 91g:58149
- Stepanov, S. Ya. Singular directions in the equilibrium orientation of a gyrost on a circular orbit. (Russian) (see 91e:00006)
- Steves, B. A. *see* Roy, Archie E., 91d:70005
- Sudakov, S. N. *see* Savchenko, A. Ya.; et al., 91e:70024

- Temchenko, M. E. Stability of motion near the vertical of a heavy rigid body with unequal moments of inertia. (Russian) 91e:70018
- Thompson, J. M. T. (with Rainey, R. C. T.; Soliman, Mohamed S.) Ship stability criteria based on chaotic transients from incursive fractals. 91f:70018
- Vakakis, A. *see* Caughey, T. K.; et al., 91h:70017
- Verbitskii, V. G. (with Lobas, Leonid Grigorievich) Bifurcations of the stationary states of wheel machines under external forces. 91m:70034
- Vorotnikov, V. I. Optimal stabilization of motion with respect to some of the variables. (Russian) 91k:93075
- Vulfson, I. I. *see* Dresig, H., 91j:70004
- You, Jian Gong Invariant tori and Lagrange stability of pendulum-type equations. 91d:58126
- Zampieri, Gaetano Solving a collection of free coexistence-like problems in stability. 91e:34058
- Zenkov, D. V. Asymptotic stability of periodic solutions of equations in nonholonomic mechanics. (Russian) 91e:70040
- Zhang, You Qi (with Chen, Shu Hui; Lau, S. L.) Application of the incremental harmonic balance method to cubic nonlinearity systems. 91e:73082
- Zhao, Xiao Hua (with Li, Ji Bin) Stability of subharmonics and behaviour of bifurcations to chaos on toral van der Pol equation. 91d:58194
- Zolotareva, G. F. Stability of a system of two bodies floating on a liquid. (Russian) 91e:70039
- Zubov, V. I. Normal form of the phase space of a mechanical system. 91h:34043

Items listed otherwise than by author

Problems on the investigation of stability and stabilization of motion ★ Задачи исследования устойчивости и стабилизации движения. (Russian) [Problems on the investigation of stability and stabilization of motion] 91m:00019

70K28 Parametric resonances

- Liman, W. *see* Plaut, Raymond H., 91h:70023
- Plaut, Raymond H. (with Liman, W.) Oscillations of weakly nonlinear, self-excited systems under multi-frequency parametric excitation. 91h:70023
- Items with secondary classifications in 70K28
- Beale, D. G. (with Scott, R. A.) The stability and response of a flexible rod in a quick return mechanism. 91e:73068
- Scott, R. A. *see* Beale, D. G., 91e:73068

70K30 Nonlinear resonances

- Bajaj, A. K. (with Tounsi, S.) Torus doublings and chaotic amplitude modulations in a two-degree-of-freedom resonantly forced mechanical system. 91j:70020
- Dadfar, Mohammad B. (with Geer, James F.) Resonances and power series solutions of the forced van der Pol oscillator. 91c:70041
- Geer, James F. *see* Dadfar, Mohammad B., 91c:70041
- Gentry, Jeanette J. *see* Plaut, Raymond H.; et al., 91a:70029
- Jiménez Olivo, Pedro José *see* Peña Miralles, Juan; et al., (91j:00015)
- Mook, Dean T. *see* Plaut, Raymond H.; et al., 91a:70029
- Muñoz-Cobo González, José Luis *see* Peña Miralles, Juan; et al., (91j:00015)
- Pasyukova, I. A. Families of symmetric periodic solutions in the case of two-frequency resonances. (Russian) (see 91g:00030)
- Peña Miralles, Juan (with Jiménez Olivo, Pedro José; Verdú Martín, Gumersindo; Muñoz-Cobo González, José Luis) Subharmonic resonances and transition to chaos in a nonlinear oscillator. (Spanish) (see 91j:00015)
- Plaut, Raymond H. (with Gentry, Jeanette J.; Mook, Dean T.) Nonlinear oscillations under multifrequency parametric excitation. 91a:70029
- Stellmacher, I. Solutions périodiques pour la résonance 4 : 1 : 4 dans les systèmes hamiltoniens à trois degrés de liberté. (English summary) [Periodic solutions for the resonance 4 : 1 : 4 in Hamiltonian systems with three degrees of freedom] 91e:70063
- Tounsi, S. *see* Bajaj, A. K., 91j:70020
- Verdú Martín, Gumersindo *see* Peña Miralles, Juan; et al., (91j:00015)
- Zalik, R. A. On the nonlinear Jeffcott equations. (see 91g:00046)
- Items with secondary classifications in 70K30
- de Aguiar, Marcus A. M. *see* Ozorio de Almeida, Alfredo M., 91h:58090
- Astafeva, M. N. *see* Samoilenko, A. M., 91h:34076
- Awrejcewicz, J. Bifurcation portrait of the human vocal cord oscillations. 91a:70033
- Belhaj, M. Numerical study for parametric excitation of differential equation near a 4-resonance. 91j:58113
- Bryant, Peter J. (with Miles, John W.) On a periodically forced, weakly damped pendulum. III. Vertical forcing. 91h:70020c
- Carricolas, N. D. *see* Henrard, Jacques, 91d:70004
- Celletti, Alessandra Analysis of resonances in the spin-orbit problem in celestial mechanics: the synchronous resonance. I. 91f:70012
- Analysis of resonances in the spin-orbit problem in celestial mechanics: higher order resonances and some numerical experiments. II. 91h:70007
- Choudhry, R. K. *see* Kumar, Vijay², 91h:70008
- Da Silva, P. A. F. *see* Vilhena de Moraes, R., 91e:70075
- Denier, J. P. (with Grimshaw, R. H. J.) Nonlinear interaction of positive and negative energy modes in Hamiltonian systems. 91e:58135
- Ermentrout, G. Bard Oscillator death in populations of "all to all" coupled nonlinear oscillators. 91c:34055
- Forbes, Lawrence K. A series analysis of forced transverse oscillations in a spring-mass system. 91d:70012
- Gentry, Jeanette J. *see* Plaut, Raymond H.; et al., 91d:70014 and 91d:70015
- Grimshaw, R. H. J. *see* Denier, J. P., 91e:58135
- Hadjdemetriou, John D. Algebraic mappings near a resonance with an application to asteroid motion. 91c:70034

- Henrard, Jacques (with Sato, Masae) The origin of chaotic behaviour in the Miranda-Umbriel 3:1 resonances. 91c:70028
- (with Caranicolas, N. D.) Motion near the 3/1 resonance of the planar elliptic restricted three body problem. 91d:70004
- Hough, Michael E. Analytic continuation of periodic orbits from equilibria of two-degree-of-freedom systems in rotating coordinates. 91m:70021
- Ikeda, Takashi see Ishida, Yukio, 91j:70022
- Ishida, Yukio (with Ikeda, Takashi) Divergent vibrations in a rectilinear system with quartic nonlinearity. 91j:70022
- Jung, Christof (with Richter, Peter H.) Classical chaotic scattering—periodic orbits, symmetries, multifractal invariant sets. 91g:58188
- Koiller, Jair Hannay's angles outside the adiabatic range: coupled linear oscillators near resonance. 91c:70036
- Kornobovskaya, I. G. On a study of oscillatory systems that are described by nonlinear equations of Mathieu equation type. (Russian) 91f:34043
- Kumar, Vijay (with Choudhry, R. K.) Nonlinear stability of the triangular libration points for the photogravitational elliptic restricted problem of three bodies. 91k:70008
- Marchal, C. The near-resonance theorem: analysis of the vicinity of periodic solutions of analytic differential systems. 91c:70046
- Markoev, A. P. Resonances and asymptotic trajectories in Hamiltonian systems. 91h:70013
- Miles, John W. see Bryant, Peter J., 91h:70020c
- Mook, Dean T. see Plaut, Raymond H.; et al., 91d:70014 and 91d:70015
- Murdock, J. A. A shadowing approach to passage through resonance. 91k:34043
- Otrukov, N. F. (with Tyan, Yu. D.) Subharmonic resonance in a third-order system. (Russian) (see 91g:00034)
- Ozorio de Almeida, Alfredo M. (with de Aguiar, Marcus A. M.) Periodic librations and their effect on the quantum energy spectrum. 91h:58090
- Plaut, Raymond H. (with Gentry, Jeanette J.; Mook, Dean T.) Resonances in nonlinear structural vibrations involving two external periodic excitations. 91d:70014
- (with Gentry, Jeanette J.; Mook, Dean T.) Nonlinear structural vibrations under combined multi-frequency parametric and external excitations. 91d:70015
- Richter, Peter H. see Jung, Christof, 91g:58188
- Samolilenko, A. M. (with Astaf'eva, M. N.) Averaging of multifrequency oscillatory systems with impulse action. (Russian. English summary) 91b:34076
- Sato, Masae see Henrard, Jacques, 91c:70028
- Selfert, George Resonance in undamped second-order nonlinear equations with periodic forcing. 91h:34038
- Tyan, Yu. D. see Otrukov, N. F., (91g:00034)
- User, T. Phase-integral quantization of accidentally and intrinsically degenerate nonlinear systems. 91h:81057
- Vereshagin, V. L. Asymptotic integration of a Volterra lattice. 91h:34093
- Vilhena de Moraes, R. (with Da Silva, P. A. F.) Influence of the resonance in a gravity-gradient stabilized satellite. 91e:70075
- Zabolotnov, Yu. M. An asymptotic method for quasilinear oscillatory systems with nonperiodic generating solution. (Russian) 91d:34038
- Zharnerchik, V. E. Stability of motion under the action of positional forces in the presence of third-order double resonance. (Russian. English summary) 91e:70062
- ### 70K40 Forced motions
- Batalova, Z. S. (with Ezhevskaya, N. A.) A numerical study of nonlinear nonautonomous second-order differential equations. (Russian) 91h:70019
- (with Bukhalova, N. V.) Structure of the phase space of a parametrically excited rotor. (Russian) 91k:70024
- Breuer, H. P. (with Dietz, Klaus P.; Holthaus, M.) On the classical dynamics of strongly driven anharmonic oscillators. 91m:70026
- Bryant, Peter J. (with Miles, John W.) On a periodically forced, weakly damped pendulum. I. Applied torque. 91h:70020a
- (with Miles, John W.) On a periodically forced, weakly damped pendulum. II. Horizontal forcing. 91h:70020b
- (with Miles, John W.) On a periodically forced, weakly damped pendulum. III. Vertical forcing. 91h:70020c
- Bukhalova, N. V. Periodic motions of a parametrically excitable rotor. (Russian) (see 91c:00009)
- see also Batalova, Z. S., 91k:70024
- Caughey, T. K. see Esryeacis, M. P., 91a:70030a and 91a:70030b
- Davies, H. G. (with Nandall, D.) The response of a van der Pol oscillator to a modulated amplitude sinusoidal input. 91c:70042
- Dietz, Klaus P. see Breuer, H. P.; et al., 91m:70026
- Eliseev, S. V. (with Volkov, L. N.; Kukharevko, V. P.) ★ Динамика механических систем с дополнительными связями. (Russian) [The dynamics of mechanical systems with additional constraints] 91e:70064
- Eller, C. Zur numerischen Klassifikation des Lösungsverhaltens nichtlinearer, periodisch erregter Strukturen. [On the numerical classification of the solution behavior of nonlinear, periodically excited structures] 91j:70021
- Evan-Iwanowski, R. M. see Tran, M. H., 91h:70040
- Ezhevskaya, N. A. see Batalova, Z. S., 91h:70019
- Forbes, Lawrence E. A series analysis of forced transverse oscillations in a spring-mass system. 91d:70012
- Gentry, Jeanette J. see Plaut, Raymond H.; et al., 91d:70014 and 91d:70015
- Hamdan, M. N. On the primary frequency response of strongly nonlinear oscillators: a linearization approach. 91c:70065
- Holthaus, M. see Breuer, H. P.; et al., 91m:70026
- Huang, Ke Lei see Lin, Rui; et al., 91d:70013
- Ikeda, Takashi see Ishida, Yukio, 91j:70022
- Ishida, Yukio (with Ikeda, Takashi) Divergent vibrations in a rectilinear system with quartic nonlinearity. 91j:70022
- Karyeacis, M. P. (with Caughey, T. K.) Stability of a semi-active impact damper. I. Global behavior. 91a:70030a
- (with Caughey, T. K.) Stability of a semi-active impact damper. II. Periodic solutions. 91a:70030b
- Krivoshchev, A. G. (with Melnikov, G. I.) Forced oscillations of mechanical systems with nonlinear characteristics of polynomial type. 91a:70031
- Kukharevko, V. P. see Eliseev, S. V.; et al., 91e:70064
- Lansbury, A. N. (with Thompson, J. M. T.) Incurable fractals: a robust mechanism of basin erosion preceding the optimal escape from a potential well. 91m:70027
- Lin, Rui (with To, Cho W. S.; Huang, Ke Lei; Lu, Qi Shao) Periodically perturbed primary and secondary bifurcations in two nonlinearly coupled oscillators. 91d:70013
- Lobas, Leonid Grigorovich see Verbitskii, V. G., (Not in MR)
- Lu, Qi Shao see Lin, Rui; et al., 91d:70013
- Mawhin, J. L. Les oscillations forcées du pendule: un paradigme en dynamique et en analyse non linéaire. [Forced oscillations of the pendulum: a paradigm in dynamics and in nonlinear analysis] 91m:70028
- Melnikov, G. I. see Krivoshchev, A. G., 91a:70031
- Miles, John W. see Bryant, Peter J., 91h:70020a; 91h:70020b and 91h:70020c
- Mook, Dean T. see Plaut, Raymond H.; et al., 91d:70014 and 91d:70015
- Nandall, D. see Davies, H. G., 91c:70042
- Plaut, Raymond H. (with Gentry, Jeanette J.; Mook, Dean T.) Resonances in nonlinear structural vibrations involving two external periodic excitations. 91d:70014
- (with Gentry, Jeanette J.; Mook, Dean T.) Nonlinear structural vibrations under combined multi-frequency parametric and external excitations. 91d:70015
- Rainey, R. C. T. see Thompson, J. M. T.; et al., 91f:70018
- Shaw, Steven W. The suppression of chaos in periodically forced oscillators. (see 91m:70002)
- Soliman, Mohamed S. see Thompson, J. M. T.; et al., 91f:70018
- Thompson, J. M. T. (with Rainey, R. C. T.; Soliman, Mohamed S.) Ship stability criteria based on chaotic transients from incurable fractals. 91f:70018
- see also Lansbury, A. N., 91m:70027
- To, Cho W. S. see Lin, Rui; et al., 91d:70013
- Tran, M. H. (with Evan-Iwanowski, R. M.) Nonstationary responses of self-excited driven system. 91h:70040
- Verbitskii, V. G. (with Lobas, Leonid Grigorovich) The effect of internal force interactions on the steady-state motion of wheel machines. (Not in MR)
- Volkov, L. N. see Eliseev, S. V.; et al., 91e:70064
- ### Items with secondary classifications in 70K40
- Abad, A. (with Deprit, André; Elise Sánchez, Antonio C.; Sein-Echaluce, M. L.) Parametric bifurcations in perturbed elliptic oscillators. (see 91j:00015)
- Aleksandrov, A. Yu. Conditions for the existence of forced asymptotic oscillations in systems of differential equations. (Russian) 91f:34039
- Alexander, James C. (with Doedel, Eusebius J.; Othmer, Hans G.) On the resonance structure in a forced excitable system. 91h:34048
- Awrejcewicz, J. (with Reinhardt, W.-D.) Some comments about quasi-periodic attractors. 91h:58131
- (with Reinhardt, W.-D.) Quasiperiodicity, strange nonchaotic and chaotic attractors in a forced two degrees-of-freedom system. 91m:58135
- Three routes to chaos in simple sinusoidally driven oscillators. (German and Russian summaries) 91m:70029
- Badrakhan, F. see Mahfouz, I. A., 91j:70024 and 91j:70025
- Beav, S. V. The basis for applying the variable scale method to solving equations of motion of a nonlinear oscillator with impulse excitation. (Russian) (see 91h:00029)
- Bejjaj, A. K. (with Tounsi, S.) Torus doublings and chaotic amplitude modulations in a two-degree-of-freedom resonantly forced mechanical system. 91j:70020
- Beck, Christian Ergodic properties of a kicked damped particle. 91f:58050
- Belhaq, M. Numerical study for parametric excitation of differential equation near a 4-resonance. 91j:58113
- Chen, Li Qun Chaotic phenomena in a forced vibrating system with a quadratic nonlinear term. (Chinese. English summary) 91e:70067
- Cheng, Chong Qing Invariant torus bifurcation series and evolution of chaos exhibited by a forced nonlinear vibration system. 91j:70023
- Chu, Jing Yun (with Zhang, Wei Yi) The improved method of regional analysis in solving differential equations of nonlinear vibration. (Chinese. English summary) 91f:65147
- Dadfar, Mohammad B. (with Geer, James F.) Resonances and power series solutions of the forced van der Pol oscillator. 91c:70041
- Delshams, Amadeo see Martínez-Seara, Ma. Teresa, (91j:00015)
- Deprit, André see Abad, A.; et al., (91j:00015)
- Dimentberg, M. F. (with Menyailov, A. I.) Response analysis of vibroimpact systems with random excitation. 91c:34066
- Doedel, Eusebius J. see Alexander, James C.; et al., 91h:34048
- Dressler, Ute (with Lauterborn, Werner) Ruelle's rotation frequency for a symplectic chain of dissipative oscillators. 91h:58059
- Dum, R. (with Schmidt, Günter) Globale rheonichtlineare Schwingungen, Anwendung auf parametrische Stromgeneratoren. (English and Russian summaries) [Global rheononlinear vibrations and application to parametric power generators] 91c:34048
- Elise Sánchez, Antonio C. see Abad, A.; et al., (91j:00015)
- Evan-Iwanowski, R. M. see Mosley, F. A., 91m:70030
- Fung, T. C. see Leung, A. Y. T., 91m:58115
- Furl, Massimo (with Pera, Maria Patrizia) On the existence of forced oscillations for the spherical pendulum. (Italian summary) 91m:58130
- Geer, James F. see Dadfar, Mohammad B., 91c:70041
- Geist, Karlheinz (with Lauterborn, Werner) The nonlinear dynamics of the damped and driven Toda chain. II. Fourier and Lyapunov analysis of tori. 91h:58088
- Horita, Takehiko see Tominaga, Hiroaki; et al., 91m:70031
- Kapitaniak, Tomasz (with Wojewoda, J.) Strange nonchaotic attractors of a quasi-periodically forced van der Pol's oscillator. 91c:34016
- Klimenko, Yu. A. (with Samolilenko, Ya. I.) Analyzing the switching dynamics of a bistable nonlinear oscillator. 91c:34049
- Control of transfer processes of a parametrically modulated nonlinear oscillator. (Russian) 91j:34049

- Knop, W. (with Lauterborn, Werner) Bifurcation structure of the classical Morse oscillator. 91f:34042
- Koh, C. G. (with Liaw, C. Y.) Effects of time step size on the response of a bilinear system. I. Numerical study. 91k:70026
— see also Liaw, C. Y., 91k:70027
- Konopliv, Alex. A perturbation method and some applications. 91d:70017
- Kornobovskaya, I. G. On a study of oscillatory systems that are described by nonlinear equations of Mathieu equation type. (Russian) 91f:34043
- Lakshmanan, M. see Parthasarathy, S., 91a:34003 and Rajasekar, S., (Not in MR)
- Lauterborn, Werner see Dressler, Ute, 91b:58059; Knop, W., 91f:34042 and Geist, Karlheinz, 91h:58088
- Leung, A. Y. T. (with Fung, T. C.) Bifurcations of an oscillator to two-harmonic excitation. 91m:58115
- Li, Ji Bin (with Wang, Bao Hua) Chaos and subharmonic bifurcations in the periodically forced system of phase-locked loops. 91g:58192
— see also Zhao, Xiao Hua, 91d:58194
- Liaw, C. Y. (with Koh, C. G.) Effects of time step size on the response of a bilinear system. II. Stability analysis. 91k:70027
— see also Koh, C. G., 91k:70026
- Lima, Ricardo (with Pettini, Marco) Suppression of chaos by resonant parametric perturbations. 91a:58064
- Long, Yi Ming see Zhang, Gong Qing; et al., 91h:58021
- Mahfouz, I. A. (with Badrakhan, F.) Chaotic behaviour of some piecewise-linear systems. I. Systems with set-up spring or with unsymmetric elasticity. 91j:70024
— (with Badrakhan, F.) Chaotic behaviour of some piecewise-linear systems. II. Systems with clearance. 91j:70025
- Martinez-Seara, Ma. Teresa (with Delshams, Amadeo) Splitting measure for invariant manifolds in plane fields. (Spanish) (see 91j:00015)
- Menyailov, A. I. see Dimmentberg, M. F., 91a:34066
- Mori, Hazime see Tomimaga, Hirotsuka; et al., 91m:70031
- Mosley, F. A. (with Evan-Iwanowski, R. M.) The effects of nonstationary processes on chaotic and regular responses of the Duffing oscillator. 91m:70030
- Natsias, S. Stability and bifurcation analysis for oscillators with motion limiting constraints. 91e:70060
- Nkashama, M. N. Periodically perturbed nonconservative systems of Liénard type. 91f:34052
- Offin, Daniel C. Subharmonic oscillations for forced pendulum type equations. 91h:34054
- Othmer, Hans G. see Alexander, James C.; et al., 91i:34048
- Parthasarathy, S. (with Lakshmanan, M.) On the exact solutions of the Duffing oscillator. 91a:34003
- Pashkovskaya, N. D. (with Sukhomlin, V. Z.) Asymptotic behavior of solutions of a quasilinear equation with variable coefficients and a perturbing force that depends explicitly on time. (Russian) (see 91b:00029)
- Peckham, Bruce B. The necessity of the Hopf bifurcation for periodically forced oscillators. 91d:58186
- Pera, Maria Patrizia see Furi, Massimo, 91m:58130
- Pettini, Marco see Lima, Ricardo, 91a:58064
- Rajasekar, S. (with Lakshmanan, M.) Multiple attractors and their basins of attraction of a long Josephson junction oscillator. (Not in MR)
- Reinhardt, W.-D. see Awrejcewicz, J., 91b:58131 and 91m:58135
- Rössler, O. E. (with Stewart, H. B.; Wiesenfeld, Kurt) Unfolding a chaotic bifurcation. 91k:58090
- Samolienko, Yu. I. see Klimenko, Yu. A., 91c:34049
- Sandalev, V. M. (with Tsvetkov, Yu. V.) Interaction of an unbalanced rotor with rigid bearing of sliding with radial clearance. (Russian) (see 91e:00007)
- Sari, N. (with Schmitt, Bruno V.) Oscillations lentement forcées du pendule simple. (English summary) [Slow forced oscillations of the simple pendulum] 91h:34062
- Schmidt, Günter Zwangs- und parametererregte nichtlineare Schwingungen im Großen. [Forced and parameter-excited nonlinear oscillations in the large] 91k:70028
— see also Dum, R., 91c:34048
- Schmitt, Bruno V. see Sari, N., 91h:34062
- Seiffert, George Resonance in undamped second-order nonlinear equations with periodic forcing. 91k:34038
- Sein-Echaluce, M. L. see Abad, A.; et al., (91j:00015)
- Shchenanikov, V. N. The effect of perturbing actions on stationary regimes. (Russian) (see 91h:34004)
- Stewart, H. B. see Rössler, O. E.; et al., 91b:58090 and Ueda, Yoshisuke; et al., 91m:58107
- Stone, Emily F. Power spectra of the stochastically forced Duffing oscillator. 91f:70022
- Sukhomlin, V. Z. see Pashkovskaya, N. D., (91b:00029)
- Sen, Jian Hua Qualitative study of a class of nonautonomous Liénard systems. (Chinese. English summary) 91a:34031
- Tarantello, Gabriella Multiple forced oscillations for the N -pendulum equation. 91j:34060
— Remarks on forced equations of the double pendulum type. 91j:58135
- Thompson, J. M. T. see Ueda, Yoshisuke; et al., 91m:58107
- Tomimaga, Hirotsuka (with Horita, Takehiko; Mori, Hazime) Dynamic scaling laws for bifurcations of chaos in dissipative differential systems. 91m:70031
- Touss, S. see Bajaj, A. K., 91j:70020
- Tsvetkov, Yu. V. see Sandalev, V. M., (91e:00007)
- Ueda, Yoshisuke (with Yoshida, S.; Stewart, H. B.; Thompson, J. M. T.) Basin explosions and escape phenomena in the twin-well Duffing oscillator: compound global bifurcations organizing behaviour. 91m:58107
- Vavilov, S. A. A solvability criterion for a resonance periodic problem in the theory of nonlinear oscillations. 91k:34046
- Verspoel, J. Periodenverdopplung bei einem Schwingung mit hysteretischer Kennlinie. [Period doubling in an oscillator with hysteretic curve] 91g:58208
- Visti, Gianluca Periodic solutions of nonlinear Liénard systems with forcing terms. (Italian. English summary) 91c:34053
- Wang, Bao Hua see Li, Ji Bin, 91g:58192
- Wiesenfeld, Kurt see Rössler, O. E.; et al., 91b:58090
- Wojewoda, J. see Kapitaniak, Tomasz, 91g:34016
- Yagasaki, Kazuyuki Second-order averaging and chaos in quasiperiodically forced weakly nonlinear oscillators. 91j:34050
- Yoshida, S. see Ueda, Yoshisuke; et al., 91m:58107
- Zehnder, Eduard see Zhang, Gong Qing; et al., 91h:58021
- Zhang, Gong Qing (with Long, Yi Ming; Zehnder, Eduard) Forced oscillations for the triple pendulum. 91h:58021
- Zhang, Wei Yi see Chu, Jing Yun, 91b:65147
- Zhao, Xiao Hua (with Li, Ji Bin) Stability of subharmonics and behaviour of bifurcations to chaos on toral van der Pol equation. 91d:58194
- Zheng, Zhi Ming Research on van der Pol equation with periodic forcing term. 91c:58120

70K50 Transition to stochasticity (chaotic behavior) [see also 58F13]

- Awrejcewicz, J. (with Grabski, J.) Chaos in a particular nonlinear oscillator. 91e:70066
— Three routes to chaos in simple sinusoidally driven oscillators. (German and Russian summaries) 91m:70029
- Badrakhan, F. see Mahfouz, I. A., 91j:70024 and 91j:70025
- Bartuccelli, Michele (with Christiansen, Peter L.; Muto, V.; Pedersen, N. F.) Sequence of subharmonic bifurcations and chaos in perturbed anharmonic systems. 91h:70021
— see also Muto, V.; et al., (91j:58005)
- Bountis, Tassos see Sohos, G.; et al., 91d:70016
- Cantoral, E. see Luna-Arocas, G. A., 91c:70043
- Chen, Li Qun Chaotic phenomena in a forced vibrating system with a quadratic nonlinear term. (Chinese. English summary) 91e:70067
— (with Wang, Tie Guang) Chaos threshold of the soft-spring Duffing equation with a quadratic term. (Chinese. English summary) 91k:70025
- Cheng, Chong Qing Invariant torus bifurcation series and evolution of chaos exhibited by a forced nonlinear vibration system. 91j:70023
- Christiansen, Peter L. see Bartuccelli, Michele; et al., 91h:70021
- Evan-Iwanowski, R. M. see Mosley, F. A., 91m:70030
- Grabski, J. see Awrejcewicz, J., 91e:70066
- Gulyaev, V. I. (with Zubritskaya, A. L.; Koshkin, V. L.) Period doubling of the oscillations of a pendulum of variable length. 91f:70019
- Hongler, Max-Olivier Chaos in vibrotransportation. 91f:70020
- Horita, Takehiko see Tomimaga, Hirotsuka; et al., 91m:70031
- Kapitaniak, Tomasz Analytical condition for chaotic behaviour of the Duffing oscillator. 91f:70021
- Karagiannis, K. Rattling vibrations in gearboxes. (see 91e:00022)
- Kimura, Koji see Yagasaki, Kazuyuki; et al., 91a:70032
- Koh, C. G. (with Liaw, C. Y.) Effects of time step size on the response of a bilinear system. I. Numerical study. 91k:70026
— see also Liaw, C. Y., 91k:70027
- Koshkin, V. L. see Gulyaev, V. I.; et al., 91f:70019
- Kumert, A. (with Pfeiffer, Friedrich) Description of chaotic motion by an invariant distribution at the example of the driven Duffing oscillator. (see 91m:58001)
- Li, Guang Xuan (with Rand, Richard H.; Moon, Francis C.) Bifurcations and chaos in a forced zero-stiffness impact oscillator. 91e:70068
- Liaw, C. Y. (with Koh, C. G.) Effects of time step size on the response of a bilinear system. II. Stability analysis. 91k:70027
— see also Koh, C. G., 91k:70026
- Luna-Arocas, G. A. (with Cantoral, E.) Chaos and loss of predictability in the periodically kicked linear oscillator. (Spanish summary) 91c:70043
- Mahfouz, I. A. (with Badrakhan, F.) Chaotic behaviour of some piecewise-linear systems. I. Systems with set-up spring or with unsymmetric elasticity. 91j:70024
— (with Badrakhan, F.) Chaotic behaviour of some piecewise-linear systems. II. Systems with clearance. 91j:70025
- Moon, Francis C. see Li, Guang Xuan; et al., 91e:70068
- Mori, Hazime see Tomimaga, Hirotsuka; et al., 91m:70031
- Mosley, F. A. (with Evan-Iwanowski, R. M.) The effects of nonstationary processes on chaotic and regular responses of the Duffing oscillator. 91m:70030
- Muto, V. (with Bartuccelli, Michele; Soerensen, M. P.) Melnikov theory applied to a variable length pendulum. (see 91j:58005)
- see also Bartuccelli, Michele; et al., 91h:70021
- Niezgodzki, P. see Szemplinska-Stupnicka, Wanda, 91c:70069
- Pedersen, N. F. see Bartuccelli, Michele; et al., 91h:70021
- Pfeiffer, Friedrich see Kumert, A., (91m:58001)
- Polymilis, H. see Sohos, G.; et al., 91d:70016
- Rand, Richard H. see Li, Guang Xuan; et al., 91e:70068
- Ray, Deb Shankar Inhibition of chaos in bistable Hamiltonian systems by a critical external resonance. 91j:70026
- Sakata, Masaru see Yagasaki, Kazuyuki; et al., 91a:70032
- Schmidt, Günter Zwangs- und parametererregte nichtlineare Schwingungen im Großen. [Forced and parameter-excited nonlinear oscillations in the large] 91k:70028
- Soerensen, M. P. see Muto, V.; et al., (91j:58005)
- Sohos, G. (with Bountis, Tassos; Polymilis, H.) Is the Hamiltonian $H = (x^2 + y^2 + x^2 y^2)/2$ completely chaotic? (Italian summary) 91d:70016
- Stone, Emily F. Power spectra of the stochastically forced Duffing oscillator. 91f:70022
- Szemplinska-Stupnicka, Wanda (with Niezgodzki, P.) The approximate approach to chaos phenomena in oscillators having single equilibrium position. 91e:70069
- Tomimaga, Hirotsuka (with Horita, Takehiko; Mori, Hazime) Dynamic scaling laws for bifurcations of chaos in dissipative differential systems. 91m:70031
- Wang, Tie Guang see Chen, Li Qun, 91k:70025
- Yagasaki, Kazuyuki (with Sakata, Masaru; Kimura, Koji) Dynamics of a weakly nonlinear system subjected to combined parametric and external excitation. 91a:70032
- Zubritskaya, A. L. see Gulyaev, V. I.; et al., 91f:70019

Items with secondary classifications in 70K50

Adachi, Satoshi Complex classical mechanics and quantum chaos. (see 91h:58001)

- Afanas'ev, V. V. (with Chernikov, Aleksandr Antonovich; Sagdeev, R. Z.; Zaslavskii, G. M.) The width of the stochastic web and particle diffusion along the web. 91i:58123
- Afraimovich, V. S. (with Pesin, Ya. B.) Hyperbolicity of infinite-dimensional drift systems. 91i:58103
- Alzawa, Yôji (with Kikuchi, Yasuhiro; Harayama, Takahisa; Yamamoto, Kenshi; Ota, Motonori; Tanaka, Kenji) Stagnant motions in Hamiltonian systems. 91m:58053
- see also Harayama, Takahisa, 91g:58183 and Kikuchi, Yasuhiro, (Not in MR)
- Armstrong, A. J. see Philippon, Paul E., 91b:70010
- Awrejcewicz, J. Bifurcation portrait of the human vocal cord oscillations. 91a:70033
- (with Reinhardt, W.-D.) Quasiperiodicity, strange nonchaotic and chaotic attractors in a forced two degrees-of-freedom system. 91m:58135
- Bajaj, A. K. (with Touss, S.) Torus doublings and chaotic amplitude modulations in a two-degree-of-freedom resonantly forced mechanical system. 91j:70020
- Batalova, Z. S. (with Ezhevskaya, N. A.) A numerical study of nonlinear nonautonomous second-order differential equations. (Russian) 91h:70019
- Beletskii, V. V. Nonlinear effects in dynamics of controlled two-legged walking. (see 91m:70002)
- Regular and chaotic motions of the body of a two-legged mechanism. (Russian) 91j:70003
- Regular and chaotic motions in a problem on the orientation of a satellite. (Russian) 91j:70029
- Benedettini, F. (with Rega, G.) Periodic solutions leading to chaos in an oscillator with quadratic and cubic nonlinearities. (see 91m:58001)
- Bleher, Siegfried (with Grebogi, Celso; Ott, Edward) Bifurcation to chaotic scattering. 91i:58089
- Bountis, Tassos see Ding, Ming Zhou; et al., 91i:58090
- Brubaker, D. L. (with Cary, John R.) Diffusion of particles in a slowly modulated wave. 91h:58054
- Bryant, Peter J. (with Miles, John W.) On a periodically forced, weakly damped pendulum. III. Vertical forcing. 91h:70020
- Bulsara, A. R. (with Schieve, W. C.; Jacobs, E. W.) Homoclinic chaos in systems perturbed by weak Langevin noise. 91a:58112
- Canizares, J. K. see Whelan, N. D.; et al., 91c:70031
- Caranicolas, N. D. A mapping for the study of the 1/1 resonance in a galactic type Hamiltonian. 91a:70022
- Cary, John R. (with Skodje, Rex T.) Phase change between separatrix crossings. 91d:58148
- see also Brubaker, D. L., 91h:58054
- Casasayas, J. (with Nunes, A.; Tufillaro, N. B.) Swinging Atwood's machine: integrability and dynamics. 91e:70042
- Caughey, T. K. see Karyacis, M. P., 91a:70030a and 91a:70030b
- Chernikov, Aleksandr Antonovich see Afanas'ev, V. V.; et al., 91i:58123 and Zaslavskii, G. M.; et al., 91m:58109
- Chirikov, B. V. (with Vecheslavov, V. V.) KAM integrability. 91h:58039
- Cleary, Paul W. Chaos and the topology of orbits. 91c:58071
- (Cvitanović, Predrag) see Universality in chaos, 91e:58124
- (Danilov, Yu. A.) see Moson, Francis C., 91c:58116
- Davis, Peter C. see Uem, Tatsuya, 91g:58194
- Ding, Ming Zhou (with Bountis, Tassos; Ott, Edward) Algebraic escape in higher-dimensional Hamiltonian systems. 91i:58090
- Elgar, S. see Pezeshki, C.; et al., 91d:58167
- Eller, C. Zur numerischen Klassifikation des Lösungsverhaltens nichtlinearer, periodisch erregter Strukturen. [On the numerical classification of the solution behavior of nonlinear, periodically excited structures] 91j:70021
- Evan-Iwanowski, R. M. see Tran, M. H., 91h:70040
- Ezhevskaya, N. A. see Batalova, Z. S., 91h:70019
- Finkler, Paul (with Jones, C. Edward; Sowell, Glenn A.) Possible conserved quantity for the Hénon-Heiles problem. 91e:70043
- Finn, John M. see Lau, Yun-Tung; et al., 91i:58089
- Geisel, T. (with Radons, G.; Rubner, J.; Zacherl, A.) Phase-space diffusion in the classical and quantum mechanics of chaotic systems. 91h:82030
- Gleick, James ★ Chaos. 91d:58152
- Goodings, D. A. see Whelan, N. D.; et al., 91c:70031
- Grebogi, Celso (with Hammel, Stephen M.; Yorke, James A.; Sauer, Tim) Shadowing of physical trajectories in chaotic dynamics: containment and refinement. 91e:58111
- see also Bleher, Siegfried; et al., 91i:58089
- Gulyaev, V. I. (with Zubritskaya, A. L.; Koshkin, V. L.) A sequence of bifurcations of the quadrupling of the period of oscillations of a two-dimensional oscillator with two degrees of freedom. (Russian) 91i:58113
- (with Zubritskaya, A. L.; Koshkin, V. L.) A universal sequence of period doubling bifurcations of forced oscillations of a pendulum. 91h:58171
- Gutzwiller, Martin C. ★ Chaos in classical and quantum mechanics. 91m:58099
- Hammel, Stephen M. see Grebogi, Celso; et al., 91e:58111
- Harayama, Takahisa (with Alzawa, Yôji) Poincaré-Birkhoff chains in the critical regime between chaos and torus. 91g:58183
- see also Alzawa, Yôji; et al., 91m:58053
- Hatori, Tadatsugu see Ichikawa, Yoshi H.; et al., 91a:58116
- Henrard, Jacques (with Sato, Masae) The origin of chaotic behaviour in the Miranda-Umbriel 3:1 resonances. 91c:70028
- Holmes, Philip Poincaré, celestial mechanics, dynamical-systems theory and "chaos". 91m:58100
- Hoveijn, Igor (with Verhulst, Ferdinand) Chaos in the 1:2:3 Hamiltonian normal form. 91j:58109
- Hsieh, Shang-Rou (with Shaw, Steven W.) The stability of modes at rest in a chaotic system. 91e:70071a
- (with Shaw, Steven W.) Erratum: "The stability of modes at rest in a chaotic system". 91e:70071b
- Ichikawa, Yoshi H. (with Kamimura, Tetsuo; Hatori, Tadatsugu; Kim, Soo Yong) Stochasticity and symmetry of the standard map. 91a:58116
- Jacobs, E. W. see Bulsara, A. R.; et al., 91a:58112
- Jiménez Olivo, Pedro José see Peña Miralles, Juan; et al., (91j:00015)
- Jones, C. Edward see Finkler, Paul; et al., 91e:70043
- Kamimura, Tetsuo see Ichikawa, Yoshi H.; et al., 91a:58116
- Kapitanian, Tomasz ★ Chaos in systems with noise. 91h:58086
- (with Wojewoda, J.) Strange nonchaotic attractors of a quasi-periodically forced van der Pol's oscillator. 91g:34016
- Karyacis, M. P. (with Caughey, T. K.) Stability of a semi-active impact damper. I. Global behavior. 91a:70030a
- (with Caughey, T. K.) Stability of a semi-active impact damper. II. Periodic solutions. 91a:70030b
- Kikuchi, Yasuhiro (with Alzawa, Yôji) Lyapunov exponent of the multi-ergodic motion in Hamiltonian systems. (Not in MR)
- see also Alzawa, Yôji; et al., 91m:58053
- Kim, Soo Yong see Ichikawa, Yoshi H.; et al., 91a:58116
- Koshkin, V. L. see Gulyaev, V. I.; et al., 91h:58171 and 91i:58113
- Krishna, R. C. see Pezeshki, C.; et al., 91d:58167
- Krivonozh, I. V. A criterion for instability in multidimensional nonlinear Hamiltonian systems. 91d:58118
- Krön, L. The intrinsic stochasticity of near-integrable Hamiltonian systems. 91g:58159
- Lakshmanan, M. see Parthasarathy, S., 91a:34003
- Lamarque, C.-H. (with Malasoma, J.-M.) Computation of basins of attraction for three coexisting attractors. (see 91m:58001)
- Lansbury, A. N. (with Thompson, J. M. T.) Incurable fractals: a robust mechanism of basin erosion preceding the optimal escape from a potential well. 91m:70027
- Lau, Yun-Tung (with Finn, John M.; Ott, Edward) Fractal dimension in nonhyperbolic chaotic scattering. 91h:58089
- Leonov, G. A. A criterion for the orbital instability of discontinuous oscillations. 91d:58119
- Li, Ji Bin see Zhao, Xiao Hua, 91h:58180
- Lichtenberg, A. J. see Wood, B. P.; et al., 91j:58148
- Lieberman, M. A. see Wood, B. P.; et al., 91j:58148
- Liu, Zeng Rong The Mel'nikov method in the study of chaos. (Chinese) 91d:58159
- Malasoma, J.-M. see Lamarque, C.-H., (91m:58001)
- Miles, John W. see Bryant, Peter J., 91h:70020
- Moon, Francis C. ★ Хаотические колебания. (Russian) [Chaotic vibrations] 91e:58116
- Morozov, A. D. Limit cycles and chaos in equations of pendulum type. 91h:58159
- Muñoz-Cobo González, José Luis see Peña Miralles, Juan; et al., (91j:00015)
- Muramatsu, Kazuhiro The cranked elliptical billiard problem and chaos. (Japanese. English summary) 91a:58117
- Natenzon, M. Ya. (with Neishtadt, A. I.; Sagdeev, R. Z.; Seryakov, G. K.; Zaslavskii, G. M.) Chaos in the Kepler problem and long-period comet dynamics. 91d:58164
- Nayfeh, Ali Hasan see Pal, Pergin F., 91i:73027
- Neishtadt, A. I. see Natenzon, M. Ya.; et al., 91d:58164 and Zaslavskii, G. M.; et al., 91m:58109
- Nikitina, N. V. Domains of attraction of multifrequency self-excited oscillations. 91h:34044
- Nunes, A. see Casasayas, J.; et al., 91e:70042
- Ota, Motonori see Alzawa, Yôji; et al., 91m:58053
- Ott, Edward see Bleher, Siegfried; et al., 91i:58089; Ding, Ming Zhou; et al., 91i:58090 and Lau, Yun-Tung; et al., 91h:58089
- Pal, Pergin F. (with Nayfeh, Ali Hasan) Nonlinear nonplanar oscillations of a cantilever beam under lateral base excitations. 91i:73027
- Parthasarathy, S. (with Lakshmanan, M.) On the exact solutions of the Duffing oscillator. 91a:34003
- Peña Miralles, Juan (with Jiménez Olivo, Pedro José; Verdú Martín, Gumersindo; Muñoz-Cobo González, José Luis) Subharmonic resonances and transition to chaos in a nonlinear oscillator. (Spanish) (see 91j:00015)
- Pesin, Ya. B. see Afraimovich, V. S., 91c:58103
- Pettini, Marco Controlling chaos through parametric excitations. 91f:58062
- Pezeshki, C. (with Elgar, S.; Krishna, R. C.) Bispectral analysis of [systems] possessing chaotic motion. 91d:58167
- Philippon, Paul E. (with Armstrong, A. J.) Map dynamics and Newton's second law. 91h:70010
- Radons, G. see Geisel, T.; et al., 91h:82030
- Rainey, R. C. T. see Thompson, J. M. T.; et al., 91f:70018
- Rafada, Antonio F. Phenomenology of chaotic motion. 91c:58082
- Rega, G. see Benedettini, F., (91m:58001)
- Reinhardt, W.-D. see Awrejcewicz, J., 91m:58135
- Richter, Peter H. (with Scholz, Hans-Joachim; Wittke, Andreas) A breathing chaos. 91h:58193
- Rössler, O. E. (with Stewart, H. B.; Wiesenfeld, Kurt) Unfolding a chaotic bifurcation. 91h:58090
- Rubner, J. see Geisel, T.; et al., 91h:82030
- Sagdeev, R. Z. see Natenzon, M. Ya.; et al., 91d:58164; Afanas'ev, V. V.; et al., 91i:58123 and Zaslavskii, G. M.; et al., 91m:58109
- Sato, Masae see Henrard, Jacques, 91c:70028
- Sauer, Tim see Grebogi, Celso; et al., 91e:58111
- Schieve, W. C. see Bulsara, A. R.; et al., 91a:58112
- Scholz, Hans-Joachim see Richter, Peter H.; et al., 91h:58193
- Seryakov, G. K. see Natenzon, M. Ya.; et al., 91d:58164
- Shaw, Steven W. The suppression of chaos in periodically forced oscillators. (see 91m:70002)
- see also Hsieh, Shang-Rou, 91e:70071a and 91e:70071b
- Shironosov, V. G. Stability of unstable states, bifurcations, chaos of nonlinear dynamical systems. (Not in MR)
- (Shukurov, A. M.) see Moon, Francis C., 91e:58116
- Sidlichovský, M. The existence of a chaotic region due to the overlap of secular resonances ν_3 and ν_4 . 91k:70011
- Sivaramakrishnan, Anand Linked twist maps in Hamiltonian systems. 91h:58120
- Skodje, Rex T. see Cary, John R., 91d:58148
- Smilansky, U. see Trol, G., 91h:58074
- Soliman, Mohamed S. (with Thompson, J. M. T.) Stochastic penetration of smooth and fractal basin boundaries under noise excitation. 91i:58086

- see also Thompson, J. M. T.; et al., 91f:70018
 Sowell, Glenn A. see Finkler, Paul; et al., 91f:70043
 Stewart, H. B. see Rössler, O. E.; et al., 91k:58090 and Ueda, Yoshisuke; et al., 91m:58107
 Sugiyama, Masaru A systematic approach to the evolution equation of a probability distribution of a deterministic dynamical system. 91f:70047
 Szemplinska-Stapnicka, Wanda The approximate analytical methods in the study of bifurcations and chaos in nonlinear oscillators. (see 91m:58001)
 Tanaka, Kenji see Aizawa, Yoji; et al., 91m:58053
 Thompson, J. M. T. (with Rainey, R. C. T.; Soliman, Mohamed S.) Ship stability criteria based on chaotic transients from incursive fractals. 91f:70018
 — see also Seliman, Mohamed S., 91f:58086; Ueda, Yoshisuke; et al., 91m:58107 and Lansbury, A. N., 91m:70027
 Tongue, Benson H. A multiple-map strategy for interpolated mapping. 91a:58124
 Tounsi, S. see Bajaj, A. K., 91f:70020
 Tran, M. H. (with Evan-Iwanowski, R. M.) Nonstationary responses of self-excited driven system. 91b:70040
 Troll, G. (with Smilansky, U.) A simple model for chaotic scattering. I. Classical theory. 91b:58074
 Tufillaro, N. B. see Casasayas, J.; et al., 91f:70042
 Ueda, Yoshisuke (with Yoshida, S.) Attractor-basin phase portraits of the forced Duffing's oscillator. 91b:58166
 — (with Yoshida, S.; Stewart, H. B.; Thompson, J. M. T.) Basin explosions and escape phenomena in the twin-well Duffing oscillator: compound global bifurcations organizing behaviour. 91m:58107
 Uezu, Tatsuya (with Davis, Peter C.) Novel scaling in sine circle map. 91g:58194
 Usikov, D. A. see Zaslavskii, G. M.; et al., 91m:58109
 Vecheslavov, V. V. see Chirikov, B. V., 91b:58039
 Verdú Martín, Gumersindo see Peña Miralles, Juan; et al., (91j:00015)
 Verhulst, Ferdinand see Hoveijn, Igor, 91j:58109
 Whelan, N. D. (with Goodings, D. A.; Cannizzo, J. K.) Two balls in one dimension with gravity. 91f:70031
 Wieserfeld, Kurt see Rössler, O. E.; et al., 91k:58090
 Wittek, Andreas see Richter, Peter H.; et al., 91g:58193
 Wojewoda, J. see Kapitaniak, Tomasz, 91g:34016
 Wood, B. P. (with Lichtenberg, A. J.; Lieberman, M. A.) Arnold diffusion in weakly coupled standard maps. 91j:58148
 Yagasaki, Kazuyuki Second-order averaging and chaos in quasiperiodically forced weakly nonlinear oscillators. 91j:34050
 Yamamoto, Kenichi see Aizawa, Yoji; et al., 91m:58053
 Yang, Z. C. see Zhao, Ling Cheng, 91a:73054
 Yorke, James A. see Grebogi, Celso; et al., 91e:58111
 Yoshida, S. see Ueda, Yoshisuke, 91b:58166 and 91m:58107
 Zacherl, A. see Geisel, T.; et al., 91b:58030
 Zakharov, M. Yu. see Zaslavskii, G. M.; et al., 91m:58109
 Zaslavskii, G. M. (with Zakharov, M. Yu.; Neishtadt, A. I.; Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) Multidimensional Hamiltonian chaos. 91m:58109
 — see also Natsenon, M. Yu.; et al., 91d:58164 and Afanas'ev, V. V.; et al., 91i:58123
 Zhao, Ling Cheng (with Yang, Z. C.) Chaotic motions of an airfoil with nonlinear stiffness in incompressible flow. 91a:73054
 Zhao, Xiao Hua (with Li, Ji Bin) Subharmonic bifurcation and chaos in the total van der Pol equation. 91b:58180
 Zhabitskaya, A. L. see Gulyaev, V. I.; et al., 91b:58171 and 91i:58113
 Items listed otherwise than by author
 Universality in chaos ★ Universality in chaos. 91e:58124

70K99 None of the above, but in this section

- Awrejcewicz, J. Bifurcation portrait of the human vocal cord oscillations. 91a:70033
 Bravo Yuste, S. (with Diaz Bejarano, José) Improvement of a Krylov-Bogoliubov method that uses Jacobi elliptic functions. 91f:70044
 Brinkman, G. J. (with Valkering, T. P.) Soliton decay in a Toda chain caused by dissipation. 91f:70070
 Caughey, T. K. (with Vakakis, A.; Sivo, J. M.) Analytical study of similar normal modes and their bifurcations in a class of strongly nonlinear systems. 91f:70017
 Churkina, N. I. Investigation of the motions of a mathematical pendulum under the action of a small periodic perturbation. (Russian) (see 91k:00028)
 Creticania, L. (with Yamakawa, H.; Matsushita, O.) An asymptotic method applied to nonlinear systems with coupled deflection. 91m:70032
 Diaz Bejarano, José see Bravo Yuste, S., 91f:70044
 Falzarano, J. (with Steindl, A.; Troesch, A.; Troger, H.) Rolling motion of ships treated as bifurcation problem. (see 91m:58001)
 Konopliv, Alex A perturbation method and some applications. 91d:70017
 Kosolapov, A. N. An adaptive property of an oscillatory system with self-synchronizing vibration generators. 91b:70041
 Lobas, Leonid Grigorievich see Verbitskii, V. G., 91m:70034
 Luck, J. M. see Mehta, Anita, 91f:70018
 Manevich, L. I. (with Mikhail, Yu. V.) Normal vibrations of nonlinear finite-dimensional systems. (Russian. English summary) 91f:70027
 Maryuta, A. N. Analysis of the motions of mechanical systems with friction interaction. 91b:70042
 Matsushita, O. see Creticania, L.; et al., 91m:70032
 Mehta, Anita (with Luck, J. M.) The bouncing ball revisited. 91f:70018
 Mikhail, Yu. V. see Manevich, L. I., 91f:70027
 Nadiradze, Z. N. (with Spivakovskii, V. B.) A mathematical model for damping oscillations. (Russian) (see 91b:00029)
 Nagae, R. F. (with Sarafyan, G. S.) Frictional self-excited oscillations in a system of piecewise-linear friction characteristic. 91m:70033
 Sandalov, V. M. (with Tsvetkov, Yu. V.) Interaction of an unbalanced rotor with rigid bearing of sliding with radial clearance. (Russian) (see 91e:00007)
 Sarafyan, G. S. see Nagae, R. F., 91m:70033
 Sivo, J. M. see Caughey, T. K.; et al., 91f:70017
 Spivakovskii, V. B. see Nadiradze, Z. N., (91b:00029)
 Steindl, A. see Falzarano, J.; et al., (91m:58001)
 Troesch, A. see Falzarano, J.; et al., (91m:58001)
 Troger, H. see Falzarano, J.; et al., (91m:58001)
 Tsvetkov, Yu. V. see Sandalov, V. M., (91e:00007)
 Vakakis, A. see Caughey, T. K.; et al., 91f:70017
 Valkering, T. P. see Brinkman, G. J., 91f:70070
 Verbitskii, V. G. (with Lobas, Leonid Grigorievich) Bifurcations of the stationary states of wheel machines under external forces. 91m:70034
 Yamakawa, H. see Creticania, L.; et al., 91m:70032
 Items with secondary classifications in 70K99
 Abad, A. (with Deprit, André; Elise Sánchez, Antonio C.; Sein-Echaluce, M. L.) A perturbed elliptic oscillator: flow inversion through butterfly bifurcations. 91d:58065
 Akhmetov, M. U. (with Perestyuk, N. A.) Stability of periodic solutions of differential equations with impulse action on surfaces. 91b:34079
 Akulenko, L. D. (with Mikhailov, S. A.; Nesterov, S. V.) Oscillations of an oscillator near the interface of two fluids. 91d:76081
 — Equivalent linearization of quasilinear oscillatory systems with slowly changing parameters. (Russian) 91b:34035
 Aronson, D. G. (with Ermentrout, G. Bard; Kopell, N.) Amplitude response of coupled oscillators. 91b:58095
 Belykh, V. N. Bifurcations and attractors of phase systems. 91f:58054
 Bota, K. see Mickens, Ronald E., (Not in MR)
 Bountis, Tassos see Vrahatis, Michael N.; et al., 91b:58209
 Budinsky, Nurit see Vrahatis, Michael N.; et al., 91b:58209
 Channell, Paul J. Stable symplectic maps. 91m:58056
 Cheng, Yao (with Zhang, An Hou) Bifurcation of periodic motions in two weakly coupled nonlinear oscillators. 91c:58087
 Cleary, Paul W. Integrability and orbits in quartic polynomial potentials. 91a:58075
 Deprit, André (with Ferrer, Sebastián) Simplifications in the theory of artificial satellites. 91k:70009
 — see also Abad, A.; et al., 91d:58065
 Elgondyev, K. K. see Samoilenko, V. Gr., (91e:00008)
 Elise Sánchez, Antonio C. see Abad, A.; et al., 91d:58065
 Eliseev, S. V. (with Kuznetsov, N. K.; Luk'yanov, A. V.) ★ Управление колебаниями роботов. (Russian) [Control of robot oscillations] 91f:70023
 Ermentrout, G. Bard see Aronson, D. G.; et al., 91b:58095
 Ferrer, Sebastián (with Marco, María J.; Osácar, Carlos; Palacián, Jesús F.) "Rigid body in torque-free rotation" pattern in a model of quartic coupled oscillators and its bifurcations. 91f:70009
 — see also Deprit, André, 91k:70009
 Flashner, Henryk see Guttalu, Ramesh S., 91a:58153
 Fomenko, I. V. see Krasnosel'skii, M. A.; et al., 91d:34076
 Fournier, G. (with Willem, M.) Multiple solutions of the forced double pendulum equation. 91b:58034
 Giannoni, Fabio Periodic solutions of dynamical conservative systems outside prescribed regions. (Italian summary) 91b:58205
 Goedde, C. G. (with Lichtenberg, A. J.; Lieberman, M. A.) Parametric instabilities in the discrete sine-Gordon equation. 91d:35188
 Golub'yatnikov, A. N. (with Plotnikov, S. I.) On the separation of energy from mass in inhomogeneous discrete mechanical systems. 91b:70025
 Guttalu, Ramesh S. (with Flashner, Henryk) Analysis of nonlinear systems by truncated point mappings. 91a:58153
 Hang, Edward J. see Kim, Sang-Soo, 91c:70015
 Hsu, Chieh Su see Sun, J.-Q., 91f:93066
 Kasp, D. J. see Wycoff, D., 91a:70024
 Keller, Joseph B. (with Mu, Ye) Changes in adiabatic invariants. 91j:34048
 Kim, Sang-Soo (with Hang, Edward J.) A recursive formulation for flexible multibody dynamics. II. Closed-loop systems. 91c:70015
 Kisliakov, S. D. (with Osadebe, N. N.) Transperiodical point mapping for the damped nonlinear Mathieu equation. 91j:34068
 Klimov, D. M. (with Rudenko, V. M.; Zhuravlev, V. F.) Application of Lie group and computer algebra to nonlinear mechanics. 91c:70029
 Knauf, Andreas Closed orbits and converse KAM theory. 91f:58075
 Kopell, N. see Aronson, D. G.; et al., 91b:58095
 Kovalev, V. A. The method of integral splines in problems in dynamics. (Russian) 91j:65017
 Krasnosel'skii, M. A. (with Pokrovskii, A. V.; Fomenko, I. V.) Self-induced oscillations in systems with hysteresis. 91d:34076
 Kuznetsov, N. K. see Eliseev, S. V.; et al., 91f:70023
 Leach, P. G. L. see Taylor, David Roy, 91k:70017
 Leonov, N. N. Dynamical analysis of pitch and toss and roulette. (Russian) 91f:70004
 Li, Wei Gu A necessary and sufficient condition on the existence and uniqueness of 2π -periodic solution of Duffing equation. 91j:34055
 Lichtenberg, A. J. see Goedde, C. G.; et al., 91d:35188
 Lieberman, M. A. see Goedde, C. G.; et al., 91d:35188
 Liu, Feng Boundedness and convergence of solutions to a class of mechanical oscillation equations. (Chinese) (Not in MR)
 Luck, J. M. see Mehta, Anita, 91f:70018
 Luk'yanov, A. V. see Eliseev, S. V.; et al., 91f:70023
 Marco, María J. see Ferrer, Sebastián; et al., 91f:70009
 Martins, J. A. C. (with Oden, J. Tinsley; Simões, F. M. F.) A study of static and kinetic friction. 91c:73076
 Mehta, Anita (with Luck, J. M.) Novel temporal behavior of a nonlinear dynamical system: the completely inelastic bouncing ball. 91c:70030
 Mickens, Ronald E. (with Bota, K.) Periodic symmetry modes of two coupled identical singular oscillators. (Not in MR)

- Mikhailov, S. A. *see* Akulenko, L. D.; et al., 91d:76081
- Ma, Ye *see* Keller, Joseph B., 91j:34048
- Nagae, R. F. (with Rubisov, D. G.) Impulse motions in a one-dimensional system in a gravitational force field. 91m:70017
- Nesterov, S. V. *see* Akulenko, L. D.; et al., 91d:76081
- Newland, D. E. ★ Mechanical vibration analysis and computation. 91a:73044
- Oden, J. Tinsley *see* Martins, J. A. C.; et al., 91c:73076
- Osácar, Carlos *see* Ferrer, Sebastián; et al., 91j:70009
- Osadebe, N. N. *see* Kislikov, S. D., 91j:34068
- Palacián, Jesús F. *see* Ferrer, Sebastián; et al., 91j:70009
- Perestyuk, N. A. *see* Akhmetov, M. U., 91b:34079
- Pfirsch, D. Nonlinear instabilities, negative energy modes and generalized Cherry oscillators. 91d:58122
- Plotnikov, S. I. *see* Golubyshtnikov, A. N., 91b:70025
- Pokrovskii, A. V. *see* Krasnosel'skii, M. A.; et al., 91d:34076
- Pomeau, Yves Diffusion de phase d'un autooscillateur avec effet de retard. (English summary) [The effect of a delay term on phase diffusion of a self-oscillator] 91d:34037
- Rubisov, D. G. *see* Nagae, R. F., 91m:70017
- Rudenko, V. M. *see* Klimov, D. M.; et al., 91c:70029
- Sadeghi, Ali A. *see* Shidfar, Afima Abdullah, (Not in MR)
- Sakharovich, L. A. On a semi-infinite Toda chain. 91b:34096
- Samotlenko, V. G. (with Elgondyev, K. K.) Solutions of a differential equation that describes the motion of an oscillator under the action of "instantaneous" forces. (Russian) (see 91c:60008)
- Schmidt, Günter Zwangs- und parametererregte nichtlineare Schwingungen im Großen. [Forced and parameter-excited nonlinear oscillations in the large] 91k:70028
- Sein-Echaleuc, M. L. *see* Abad, A.; et al., 91d:58065
- Shidfar, Afima Abdullah (with Sadeghi, Ali A.) The periodic solutions of certain nonlinear oscillators. (Not in MR)
- Simões, F. M. F. *see* Martins, J. A. C.; et al., 91c:73076
- Sokolov, B. N. (with Turova, V. L.) ★ Оптимальное управление маятником в условиях неопределенных помех. (Russian) [Optimal control of a pendulum under conditions of indeterminate noise] 91a:70036
- Sun, J.-Q. (with Hsu, Chieh Su) Global analysis of nonlinear dynamical systems with fuzzy uncertainties by the cell mapping method. 91c:93066
- Tabor, Michael ★ Chaos and integrability in nonlinear dynamics. 91a:58066
- Takase, Shozo Localized modes in the long-time behavior of anharmonic lattices. 91d:82028
- Taylor, David Roy (with Leach, P. G. L.) Single resonance integrals for two-dimensional Hamiltonians. 91k:70017
- Toda, Morikazu ★ Nonlinear waves and solitons. 91f:35001
- Tongue, Benson H. A multiple-map strategy for interpolated mapping. 91a:58124
- Turova, V. L. *see* Sokolov, B. N., 91a:70036
- Vrahatis, Michael N. (with Bountis, Tasso; Budinsky, Nurit) A convergence-improving iterative method for computing periodic orbits near bifurcation points. 91b:58209
- Willems, M. *see* Fournier, G., 91b:58034
- Wyoff, D. (with Kaup, D. J.) The forced Toda lattice: an integrable system. 91a:70024
- Yamazaki, Susumu On the dynamical system $\dot{x}_k = -\exp[(x_{k-1} - x_{k+1})/2]$. 91b:70027
- The semi-infinite system of nonlinear differential equations $\dot{A}_k = 2A_k(A_{k+1} - A_{k-1})$; methods of integration and asymptotic time behaviours. 91b:58085
- Zabeletov, Yu. M. An asymptotic method for quasilinear oscillatory systems with nonperiodic generating solution. (Russian) 91d:34038
- Zhang, An Hou *see* Cheng, Yao, 91c:58087
- Zhuravlev, V. F. *see* Klimov, D. M.; et al., 91c:70029
- 70L05 Random vibrations [see also 73K35, 93Exx]**
- Davies, H. G. (with Liu, Qiang) The response envelope probability density function of a Duffing oscillator with random narrow-band excitation. 91b:70043
- Davoodi, H. *see* Noori, Mohammad, (Not in MR)
- Dimentberg, M. F. ★ Случайные процессы в динамических системах с переменными параметрами. (Russian) [Random processes in dynamical systems with variable parameters] 91g:70022
- Di Paola, Mario (with Petrucci, Giovanni) Spectral moments and pre-envelope covariances of nonseparable processes. 91a:70034
- Fan, Zu Yao *see* Fang, Dan Ping; et al., 91c:70045 and Shen, Xiao Feng; et al., 91c:70047
- Fang, Dan Ping (with Zhang, Hui Qiao; Fan, Zu Yao) Solving the nonstationary Fokker-Planck-Kolmogorov equation by a matrix continued fraction method. (Chinese. English summary) 91c:70045
- Hsieh, Shang Ren (with Shaw, Steven W.) The stability of modes at rest in a chaotic system. 91c:70071a
- (with Shaw, Steven W.) Erratum: "The stability of modes at rest in a chaotic system". 91c:70071b
- Jing, H. S. (with Sheu, K.-C.) Exact stationary solutions of the random response of a single-degree-of-freedom vibro-impact system. 91c:70072
- Karch, G. *see* Wedig, W., 91b:70024
- Kozák, P. Stability of the moments of double parametric random excitation of a damped Mathieu oscillator. (German and Serbo-Croatian summaries) 91b:70022
- Liu, Qiang *see* Davies, H. G., 91b:70043
- Nayfeh, Ali Hasan (with Serhan, S. J.) Response statistics of nonlinear systems to combined deterministic and random excitations. 91c:70019
- Noori, Mohammad (with Davoodi, H.) Comparison between equivalent linearization and Gaussian closure for random vibration analysis of several nonlinear systems. (Not in MR)
- Noslov, F. U. Random oscillations of nonlinear systems with gyroscopic terms. (Ukrainian. Russian summary) 91c:70046
- Averaging in gyroscopic systems with random actions. (Russian) (Not in MR)
- Pawłeta, Marian (with Socha, Lesław) Cumulant neglect closure of nonstationary solutions of stochastic system. 91m:70035
- Petrucci, Giovanni *see* Di Paola, Mario, 91a:70034
- Roberts, J. B. (with Spanos, Pol-T. D.) ★ Random vibration and statistical linearization. 91b:70023
- Serhan, S. J. *see* Nayfeh, Ali Hasan, 91c:70019
- Shaw, Steven W. *see* Hsieh, Shang Ren, 91c:70071a and 91c:70071b
- Shen, Xiao Feng (with Zhang, Hui Qiao; Fan, Zu Yao) Stability analysis of systems with excitations arising from randomly varying parameters. (Chinese. English summary) 91c:70047
- Sheu, K.-C. *see* Jing, H. S., 91c:70072
- Socha, Lesław *see* Pawłeta, Marian, 91m:70035
- Spanos, Pol-T. D. *see* Roberts, J. B., 91b:70023
- Wedig, W. (with Karch, G.) Invariante Maße und Lyapunovzahlen für Oszillatoren mit Parameterfluktuationen. [Invariant measures and Lyapunov numbers for oscillators with parameter fluctuations] 91b:70024
- Stability and bifurcation in stochastic systems. 91j:70028
- Wedig, W. (with Karch, G.) Invariant measures and Lyapunov numbers for oscillators with parameter fluctuations] 91b:70024
- Stability and bifurcation in stochastic systems. 91j:70028
- Zhu, Wei Qiu Exact solutions for stationary responses of several classes of nonlinear systems to parametric and/or external white noise excitations. 91c:70073
- Items with secondary classifications in 70L05**
- Adomian, George A. ★ Nonlinear stochastic systems theory and applications to physics. 91c:93081
- Ahlbehrendt, N. (with Sperling, L.) Biorthogonale Entwicklungen der Verteilungsdichte und ihre Anwendung zur Analyse stochastischer Systeme. II. Beispiele. (English and Russian summaries) [Biorthogonal expansions of the distribution density and their application in the analysis of stochastic systems. II. Examples] 91k:93076
- Arianatnam, S. T. (with Xie, Wei Chau) Lyapunov exponent and rotation number of a two-dimensional nilpotent stochastic system. 91b:60086
- Banks, H. T. (with Kojima, Fumio) Filtering problem for the stochastic vibration of flexible beams with tip bodies. 91c:73060
- Battézati, M. The diffusion equation for a classical mechanical system in an anharmonic potential. 91d:2065
- Bulsara, A. R. (with Schieve, W. C.; Jacobs, E. W.) Homoclinic chaos in systems perturbed by weak Langevin noise. 91a:58112
- Dimentberg, M. F. (with Menyailov, A. I.) Response analysis of vibroimpact systems with random excitation. 91c:34066
- Dzundza, A. I. Application of asymptotic methods in stochastic systems. (Russian) (see 91j:60001)
- Feng, Xiangbo (with Loparo, Kenneth A.) Almost sure instability of the random harmonic oscillator. 91k:34085
- Fraser, Simon J. *see* Irwin, Andrew J.; et al., 91b:58222
- Hanggi, Peter *see* Jung, Peter, 91f:2058
- (Hasegawa, Michiel) *see* Adomian, George A., 91c:93081
- Irwin, Andrew J. (with Fraser, Simon J.; Kapral, Raymond) Stochastically induced coherence in bistable systems. 91b:58222
- Jacobs, E. W. *see* Bulsara, A. R.; et al., 91a:58112
- Jung, Peter (with Hanggi, Peter) Resonantly driven Brownian motion: basic concepts and exact results. 91f:2058
- Kapitanik, Tomasz ★ Chaos in systems with noise. 91k:58086
- Kapral, Raymond *see* Irwin, Andrew J.; et al., 91b:58222
- Klocek-Dygas, M. M. (with Matkowsky, Bernard J.; Schuss, Z.) First-order dynamics driven by rapid Markovian jumps. 91c:60110
- Kojima, Fumio *see* Banks, H. T., 91c:73060
- Kovalova, A. S. On the separation of motions in nonlinear oscillatory systems with random perturbation. (Russian) 91m:34071
- de Lafontaine, J. Orbital dynamics in a stochastic atmosphere. 91b:70044
- Leizarowitz, Aris Exact results for the Lyapunov exponents of certain linear Ito systems. 91j:93120
- Le N'Y Dyong *see* Nguyen Dong Anh, 91c:34069
- Loparo, Kenneth A. *see* Feng, Xiangbo, 91k:34085
- Matkowsky, Bernard J. *see* Klocek-Dygas, M. M.; et al., 91c:60110
- Menyailov, A. I. *see* Dimentberg, M. F., 91c:34066
- (Miklaszewski, Ryszard) *see* Piszczek, K., 91b:70002
- Moshchuk, N. K. (with Sinitsyn, I. N.) Stochastic nonholonomic systems. 91k:70014
- Nguyen Dong Anh (with Le N'Y Dyong) Responses of linear dynamical systems of arbitrary order under the action of "white noise". (Russian) 91c:34069
- Niziol, J. *see* Piszczek, K., 91b:70002
- Novakovskaya, L. I. Construction of asymptotic solutions for first-order differential equations with random delay. 91c:34105
- Obraztsova, L. V. Determining the orientation elements of a rigid body in the presence of random perturbations. (Russian) 91d:70003
- Piszczek, K. (with Niziol, J.) ★ Random vibration of mechanical systems. 91b:70002
- Pomeau, Yves Diffusion de phase d'un autooscillateur avec effet de retard. (English summary) [The effect of a delay term on phase diffusion of a self-oscillator] 91d:34037
- Schieve, W. C. *see* Bulsara, A. R.; et al., 91a:58112
- Schuss, Z. *see* Klocek-Dygas, M. M.; et al., 91c:60110
- Sinitsyn, I. N. *see* Moshchuk, N. K., 91k:70014
- Socha, Lesław Equivalent linearization for dynamical systems excited by coloured noise. 91b:34079
- Sollman, Mohamed S. (with Thompson, J. M. T.) Stochastic penetration of smooth and fractal basin boundaries under noise excitation. 91c:58086
- Sperling, L. *see* Ahlbehrendt, N., 91k:93076
- Stone, Emily F. Power spectra of the stochastically forced Duffing oscillator. 91b:70022
- Thompson, J. M. T. *see* Sollman, Mohamed S., 91c:58086
- Trofimov, Yu. I. On the existence of a solution to a system of random differential equations of elliptic motion of spacecraft. (Russian) (see 91b:34004)
- (Watson, Margaret Helen) *see* Piszczek, K., 91b:70002
- Xie, Wei Chau *see* Arianatnam, S. T., 91b:60086
- Zhang, Weijian The spectral density of the nonlinear damping model: single DOF case. 91j:93118

70M05 Satellite problems (1985)

Trofimtsyn, Yu. I. On the existence of a solution to a system of random differential equations of elliptic motion of spacecraft. (Russian) (see 91b:34004)

Items with secondary classifications in 70M05

Lekhin, B. I. Quadrature solution of differential equations of variations of elements of motion of a point in a force field depending on two arbitrary functions of elliptic coordinates (construction of a proof). (Russian) (see 91b:34004)

70M20 Orbital mechanics

Beletskii, V. V. Regular and chaotic motions in a problem on the orientation of a satellite. (Russian) 91j:70029

Belikov, M. V. (with Talbotov, K. A.) An efficient algorithm for calculating the gravitational potential of the Earth and its first derivatives for solving satellite problems. (Russian. English summary) 91c:70074

Da Silva, P. A. F. see Vilhena de Moraes, R., 91c:70075

France, J. M. An asymptotic solution for Deprit's radial intermediary with atmospheric drag. (Spanish. English summary) 91a:70035

Gilbert, E. G. see Vinh, N. X.; et al., 91h:70025

Golikov, A. R. Numerical-analytical theory of the motion of artificial satellites of celestial bodies. (Russian) 91h:70020

Heimberger, Joachim (with Soffel, Michael; Ruder, Hanns) Relativistic effects in the motion of artificial satellites: the oblateness of the central body. II. 91c:70050

Hénon, Michel see Petit, Jean-Marc, 91f:70023

Howe, R. M. see Vinh, N. X.; et al., 91h:70025

Khrstov, O. see Lilov, L., 91c:70048

de Lafontaine, J. Orbital dynamics in a stochastic atmosphere. 91b:70044

Lilov, L. (with Khrstov, O.) The stability of equilibrium states of a satellite-gyrost at a damper. (Russian. English and Bulgarian summaries) 91c:70048

Liu, Zhi Min see Wang, Chao Zhu; et al., 91m:70036

Lu, Ping see Vinh, N. X.; et al., 91h:70025

Pál, Árpád (with Párv, Bazil) On the determination of the intermediate orbit elements of an artificial earth satellite by the averaging method. II. (see 91k:00029)

Párv, Bazil see Pál, Árpád, (91k:00029)

Petit, Jean-Marc (with Hénon, Michel) On a Cantor structure in a satellite scattering problem. 91f:70023

Qin, Hua Shu see Wang, Chao Zhu; et al., 91m:70036

Rimrott, F. P. J. ★ Introductory attitude dynamics. 91b:70045

Ruder, Hanns see Soffel, Michael; et al., 91c:70049 and Heimberger, Joachim; et al., 91c:70050

Schastok, J. see Soffel, Michael; et al., 91c:70049

Schneider, Manfred see Soffel, Michael; et al., 91c:70049

Sevryukov, P. F. Additional analytical first integrals of a problem on the motion of a satellite of a triaxial planet. (Russian) (see 91k:00028)

Sharma, Krishna Chandra see Valshampayan, Sarita V., (Not in MR)

Soffel, Michael (with Wirrer, R.; Schastok, J.; Ruder, Hanns; Schneider, Manfred) Relativistic effects in the motion of artificial satellites: the oblateness of the central body. I. 91c:70049

— see also Heimberger, Joachim; et al., 91c:70050

Stepanov, S. Ya. Singular directions in the equilibrium orientation of a gyrost at a circular orbit. (Russian) (see 91c:00006)

Talbotov, K. A. see Belikov, M. V., 91c:70074

Valshampayan, Sarita V. (with Sharma, Krishna Chandra) On some properties of planar motion of satellite under gravity. (Not in MR)

Vilhena de Moraes, R. (with Da Silva, P. A. F.) Influence of the resonance in a gravity-gradient stabilized satellite. 91c:70075

Vinh, N. X. (with Lu, Ping; Howe, R. M.; Gilbert, E. G.) Optimal interception with time constraint. 91h:70025

Wang, Chao Zhu (with Qin, Hua Shu; Liu, Zhi Min) Qualitative analysis for space proportional navigation. (Chinese. English summary) 91m:70036

Wirrer, R. see Soffel, Michael; et al., 91c:70049

Items with secondary classifications in 70M20

Asher, Robert B. (with Buckler, Kim; Fosh, Charles E.) Estimation of quaternions using both Euler angle and rate measurements. (see 91m:00031)

Atanasov, V. A. On the asymptotic stabilizability of the positions of relative equilibrium of a gyrost-satellite. (Russian) (Not in MR)

Blazhenova-Mikulich, L. Ya. Modeling of instrument errors and external actions in navigational problems. (Russian) 91i:93010

Buckler, Kim see Asher, Robert B.; et al., (91m:00031)

Chernous'ko, F. L. see Pivovarov, M. L., 91c:70023

Dang Dinh Hai Multiple solutions for a nonlinear second order differential equation. 91c:34027

Deprit, André (with Ferrer, Sebastián) Simplifications in the theory of artificial satellites. 91h:70009

Ferrández Leal, José Manuel (with San Satorio Lapeña, María Eugenia) General motion of a triaxial rigid body in a Newtonian force field. 91c:70033

Ferrer, Sebastián see Deprit, André, 91h:70009

Fosh, Charles E. see Asher, Robert B.; et al., (91m:00031)

Goltser, Ya. M. (with Kharlip, A. D.) On a problem of the stabilization of angular motions of a satellite with respect to the center of mass. (Russian. Kazakh summary) 91h:70005

Granevich, E. A. Development of complex modular arithmetic algorithms. (Russian) 91c:11152

Grioli, Giuseppe Regular precessions in a central Newtonian field of forces. 91a:70008

Gulyaev, V. I. (with Koshkin, V. L.; Vasil'ev, A. B.) Regularizing transformations in problems on optimal multi-impulse encounters. (Russian) 91f:70024

Kan, V. L. (with Kel'zon, A. S.) Stability and controllability in proportional navigation. 91h:70029

Kel'zon, A. S. see Kan, V. L., 91h:70029

Kharlip, A. D. see Goltser, Ya. M., 91h:70005

Kirpichnikov, S. N. Optimal two-impulse flights between close noncoplanar Kepler orbits. (Russian. English summary) 91c:70077

Koditschek, Daniel E. The application of total energy as a Lyapunov function for mechanical control systems. 91d:58237

Koshkin, V. L. see Gulyaev, V. I.; et al., 91f:70024

Park, Sungtae see Silverberg, Larry M., 91c:70017

Pivovarov, M. L. (with Chernous'ko, F. L.) Oscillations of a rigid body with a toroidal cavity filled with a viscous fluid. 91c:70023

Saitbatalov, A. A. Periodic motions that are generated from two-dimensional oscillations and rotations of a solid body on a circular orbit. (Russian) 91g:70004

San Satorio Lapeña, María Eugenia see Ferrández Leal, José Manuel, 91c:70033

Silverberg, Larry M. (with Park, Sungtae) Interactions between rigid-body and flexible-body motions in maneuvering spacecraft. 91c:70017

Sira-Ramirez, Hebert A variable structure control approach to the problem of soft landing on a planet. 91c:70052

Vasil'ev, A. B. see Gulyaev, V. I.; et al., 91f:70024

Zavalishchik, S. T. An addition to Lawden's theory. 91c:70051

70M99 None of the above, but in this section (1985)

Popescu, Mihai-Emilian (with Popescu, Tina) Functional analysis methods in the study of the optimal transfer. (Not in MR)

Popescu, Tina see Popescu, Mihai-Emilian, (Not in MR)

70P05 Variable mass, rockets

Guang, Yu see Zhu, Miao Long, (Not in MR)

Zavalishchik, S. T. An addition to Lawden's theory. 91c:70051

Zhu, Miao Long (with Guang, Yu) General varying law of the largest velocity of step-rockets. (Not in MR)

Items with secondary classifications in 70P05

Bekov, A. A. (with Mukhametkaliyeva, R. K.) Stability of coplanar libration points of the restricted variable-mass three-body problem. (Russian) (see 91c:70036)

Berkovich, L. M. A generalized nonstationary two-body problem and laws of the change of mass. (Russian) (see 91c:70036)

Crespo, G. (with Proto, A. N.; Plastino, A.; Otero, Dino) Information-theory approach to the variable-mass harmonic oscillator. 91g:81068

Das, Ranjeet Kumar (with Shrivastava, Ajay Kumar; Ishwar, B.) Existence of libration points in the elliptic restricted problem of three bodies with variable mass. 91c:70020

Elshaboury, S. M. Equations of motion of elliptically-restricted problem of a body with variable mass and two tri-axial bodies. 91h:70006

— Existence of particular solutions in the generalised restricted problem of three bodies with variable masses. (Not in MR)

Gilbert, E. G. see Vinh, N. X.; et al., 91h:70025

Howe, R. M. see Vinh, N. X.; et al., 91h:70025

Ishwar, B. see Das, Ranjeet Kumar; et al., 91c:70020

Kirgizbaev, Zh. K. The effect of force structure on the stability of motion of a system of variable mass. (Russian. Kazakh summary) 91h:70022

Lu, Ping see Vinh, N. X.; et al., 91h:70025

Luk'yamov, L. G. Stability of libration points in the restricted three-body problem with variable masses. 91c:70029

Luo, Shao Kai Relativistic generalized Appell equations for variable-mass nonholonomic systems of any order. (Chinese. English summary) 91h:70013

Mingilbaev, M. D. On an averaged restricted variable-mass three-body problem. (Russian) (see 91c:70036)

Mukhametkaliyeva, R. K. see Bekov, A. A., (91c:70036)

Otero, Dino see Crespo, G.; et al., 91g:81068

Plastino, A. see Crespo, G.; et al., 91g:81068

Polyakova, E. N. Celestial-mechanics aspects of two- and three-body problems with variable masses. (Russian. English summary) 91h:70009

Proto, A. N. see Crespo, G.; et al., 91g:81068

Shrivastava, Ajay Kumar see Das, Ranjeet Kumar; et al., 91c:70020

Sira-Ramirez, Hebert A variable structure control approach to the problem of soft landing on a planet. 91c:70052

Vinh, N. X. (with Lu, Ping; Howe, R. M.; Gilbert, E. G.) Optimal interception with time constraint. 91h:70025

Zavalishchik, S. T. Special nonlinear differential equations in generalized functions. 91h:34012

70Q05 Control of mechanical systems [see also 49-XX, 73K50, 93Cxx, 93Dxx]

Alfriend, Kyle T. see Longman, Richard W., (Not in MR)

Asher, Robert B. (with Buckler, Kim; Fosh, Charles E.) Estimation of quaternions using both Euler angle and rate measurements. (see 91m:00031)

Atanasov, V. A. On the asymptotic stabilizability of the positions of relative equilibrium of a gyrost-satellite. (Russian) (Not in MR)

Azlov, A. G. The motion of controllable mechanical systems with servoconstraints. 91m:70037

Bay, John S. (with Hemami, Hooshang) Dynamics of a learning controller for surface tracking robots on unknown surfaces. (Not in MR)

Bogatyreva, N. A. (with Pyatnitskii, E. S.) Optimal control of mechanical systems in potential fields. 91h:70021

Botkin, N. D. (with Krasov, A. L.) Positional control in a model problem of an aircraft taking off. (Russian) 91d:70018

- (with Kein, V. M.; Patsko, V. S.) Application of the methods of the theory of differential games to the problem of controlling an aircraft when landing. (Russian) 91d:70019
- Bryson, Arthur E., Jr. *see* Meier, Elke-Barbara, (Not in MR)
- Buckler, Kim *see* Asher, Robert B.; et al. (91m:00031)
- Chen, Yi-Feng (with Mita, Tutomu; Wakui, Shinji) A new and simple algorithm for sliding mode trajectory control of the robot arm. (Not in MR)
- Chernous'ko, F. L. *see* Rogov, N. N., (Not in MR)
- Chirkova, M. M. *see* Feigina, M. L., (91e:00007)
- Das, Arijit (with Singh, Sahjendra N.) Dual mode control of an elastic robotic arm: nonlinear inversion and stabilization by pole assignment. (Not in MR)
- Dawson, Darren M. (with Qu, Zhihua; Lewis, F. L.; Dorsey, John F.) Robust control for the tracking of robot motion. 91e:70076
- Degtyareva, E. V. *see* Golubev, Yu. F., 91h:70046
- De Luca, A. (with Lanari, L.; Ulivi, G.) Output regulation of a flexible robot arm. (see 91f:93002)
- Dorsey, John F. *see* Dawson, Darren M.; et al., 91e:70076
- Dunskaya, N. V. (with Pyatnitskii, E. S.) The objective potential method in problems of synthesizing controls for manipulator robots. 91h:70022
- (with Pyatnitskii, E. S.) Synthesis of the control of mechanical systems by the goal potential method. 91g:70023
- Eliseev, S. V. (with Kuznetsov, N. K.; Luk'yanov, A. V.) ★ Управление колебаниями роботов. (Russian) [Control of robot oscillations] 91h:70023
- Fedunov, B. E. Maximally fast braking of an object which performs a controlled motion under the action of forces of aerodynamic resistance and gravity. (Russian) (Not in MR)
- Feigina, M. L. (with Chirkova, M. M.) Control of the motion of nonlinear objects. (Russian) (see 91e:00007)
- Filimonov, A. E. *see* Gorbach'ev, N. V.; et al., (Not in MR)
- Fosha, Charles E. *see* Asher, Robert B.; et al., (91m:00031)
- Fradkov, A. L. *see* Tomchina, O. P., (Not in MR)
- Gao, Wei Bing *see* Qu, Zhi Qiang, (Not in MR)
- Georges, D. *see* Wang, De Ming; et al., (91f:93002)
- Golubev, Yu. F. (with Degtyareva, E. V.) Asymptotic solutions in the modeling of the dynamics of a walking apparatus. (Russian, English summary) 91h:70046
- Gorbach'ev, N. V. (with Filimonov, A. E.; Shpakov, A. N.; Shukhov, A. G.) Algorithms for the control of transport robots in flexible manufacturing systems. (Not in MR)
- Gubin, S. V. (with Kovalev, A. M.) Global controllability of scleronomic systems. (Russian) 91g:70024
- Gukasyan, A. A. Optimal control of a manipulator with electromechanical drive systems. (Russian, Armenian summary) (see 91g:00028)
- Gulyaev, V. I. (with Koshkin, V. L.; Vasil'ev, A. B.) Regularizing transformations in problems on optimal multi-impulse encounters. (Russian) 91f:70024
- Gusev, S. V. (with Makarov, I. A.) Stabilization of the programmed motion of a transport robot with a track-laying chassis. 91h:70047
- Haller, G. (with Stépán, G.) Codimension two bifurcation in an approximate model for delayed robot control. (see 91m:58001)
- Hamam, Y. *see* Wang, De Ming; et al., (91f:93002)
- Hemami, Hooshang *see* Bay, John S., (Not in MR)
- Ismailov, A. K. Optimal control in a problem on the contact of a beam with a rigid die. (Russian) (see 91a:00023)
- Józefczyk, Jerzy (with Kilanowski, Sławomir) An algorithm of adaptive control for some manipulators. (Russian and Polish summaries) (Not in MR)
- Kalenova, V. I. (with Morozov, V. M.; Salmima, M. A.) On the stabilization of steady motions of systems with cyclic coordinates. 91h:70026
- Kan, V. L. (with Kel'zon, A. S.) Stability and controllability in proportional navigation. 91h:70029
- Kein, V. M. *see* Botkin, N. D.; et al., 91d:70019
- Kel'zon, A. S. *see* Kan, V. L., 91h:70029
- Kilanowski, Sławomir *see* Józefczyk, Jerzy, (Not in MR)
- Kimbrough, Scott Stability enhancement and traction control of road vehicles. (Not in MR)
- Kirpichnikov, S. N. Optimal two-impulse flights between close noncoplanar Kepler orbits. (Russian, English summary) 91e:70077
- Koshkin, V. L. *see* Gulyaev, V. I.; et al., 91f:70024
- Kovalev, A. M. *see* Gubin, S. V., 91g:70024
- Krak, Yu. V. On forming the dynamics equations of manipulation robots as applied to motion control problems. 91h:70027
- Krasov, A. I. *see* Botkin, N. D., 91d:70018
- Krawczak, Maciej A method for suboptimal control of a manipulator-robot. (Polish, English and Russian summaries) 91f:70030
- Kuznetsov, N. K. *see* Eliseev, S. V.; et al., 91h:70023
- Kwak, Moon K. *see* Melrovitch, Leonard, (Not in MR)
- Lanari, L. *see* De Luca, A.; et al., (91f:93002)
- Larin, V. B. Control of a walking apparatus. (Not in MR)
- Lebedev, D. V. On the control of motion around the center of mass of a rotating rigid body. 91d:70020
- Lewis, F. L. *see* Dawson, Darren M.; et al., 91e:70076
- Longman, Richard W. (with Alfriend, Kyle T.) Energy optimal degree of controllability and observability for regulator and maneuver problems. (Not in MR)
- Luk'yanov, A. V. *see* Eliseev, S. V.; et al., 91h:70023
- Makarov, I. A. *see* Gusev, S. V., 91h:70047
- Matveeva, E. N. *see* Smirnov, E. Ya., 91h:70049
- Matyukhin, V. I. (with Pyatnitskii, E. S.) Control of the motion of manipulation robots based on the decomposition principle taking into account the dynamics of actuators. 91f:70025
- Meier, Elke-Barbara (with Bryson, Arthur E., Jr.) Efficient algorithm for time-optimal control of a two-link manipulator. (Not in MR)
- Meier zu Farwig, H. (with Unbehauen, H.) Discrete computer control of a triple-inverted pendulum. (Not in MR)
- Melrovitch, Leonard (with Kwak, Moon K.) Dynamics and control of spacecraft with retargeting flexible antennas. (Not in MR)
- Middleton, R. H. Adaptive control for robot manipulators using discrete time identification. (Not in MR)
- Mita, Tutomu *see* Chen, Yi-Feng; et al., (Not in MR)
- Morozov, V. M. *see* Kalenova, V. I.; et al., 91h:70026
- Nicosia, S. (with Tomei, Patrizio) Robot control by using only joint position measurements. 91f:70024
- Patsko, V. S. *see* Botkin, N. D.; et al., 91d:70019
- Pyatnitskii, E. S. *see* Matyukhin, V. I., 91f:70025; Dunskaya, N. V., 91g:70023; Bogatyreva, N. A., 91h:70021 and Dunskaya, N. V., 91h:70022
- Qu, Zhihua *see* Dawson, Darren M.; et al., 91e:70076
- Qu, Zhi Qiang (with Gao, Wei Bing) Dynamic output feedback variable structure control of large space structures. (Chinese, English summary) (Not in MR)
- Rakhimova, M. Yu. Control of the orientation of the axis of a body on a moving point. (Russian) 91f:70026
- Rogov, N. N. (with Chernous'ko, F. L.) Optimal control of the electric motor of a robot with an elastic element. (Not in MR)
- Salmima, M. A. *see* Kalenova, V. I.; et al., 91h:70026
- Samilenko, Yu. I. Dynamics of the evolution of a system of linear oscillators under parametric resonance control. 91f:70031
- Shamir, T. Remarks on some dynamical problems of controlling redundant manipulators. 91h:70048
- Shpakov, A. N. *see* Gorbach'ev, N. V.; et al., (Not in MR)
- Shukhov, A. G. *see* Gorbach'ev, N. V.; et al., (Not in MR)
- Singh, Sahjendra N. *see* Das, Arijit, (Not in MR)
- Sira-Ramirez, Hebert A variable structure control approach to the problem of soft landing on a planet. 91c:70052
- Smirnov, E. Ya. (with Matveeva, E. N.) Control of the rotational motion of a rigid body that contains a cavity with a fluid and a gas. (Russian) 91h:70049
- Sokolov, B. N. (with Turova, V. L.) ★ Оптимальное управление маятником в условиях неопределенных помех. (Russian) [Optimal control of a pendulum under conditions of indeterminate noise] 91a:70036
- Stépán, G. *see* Haller, G., (91m:58001)
- Timofeev, A. V. Adaptive control of robots. 91f:70027
- Tomchina, O. P. (with Fradkov, A. L.) Implicit and explicit standard models in a problem of the adaptive control of mechanical systems. (Russian) (Not in MR)
- Tomei, Patrizio *see* Nicosia, S., 91h:70024
- Turova, V. L. *see* Sokolov, B. N., 91a:70036
- Ulivi, G. *see* De Luca, A.; et al., (91f:93002)
- Unbehauen, H. *see* Meier zu Farwig, H., (Not in MR)
- Vasil'ev, A. B. *see* Gulyaev, V. I.; et al., 91f:70024
- Wakui, Shinji *see* Chen, Yi-Feng; et al., (Not in MR)
- Wang, De Ming (with Georges, D.; Hamam, Y.) Optimal path planning of manipulators with singular configurations, workspace and collision-free constraints. (see 91f:93002)
- van Willigenburg, L. G. First order controllability and the time optimal control problem for rigid articulated arm robots with friction. (Not in MR)
- Zhang, Bo² (with Zhang, Tian; Zhang, Jian Wei; Zhang, Ling¹) Motion planning for robots with topological dimension reduction method. 91d:70021
- Zhang, Jian Wei *see* Zhang, Bo²; et al., 91d:70021
- Zhang, Ling¹ *see* Zhang, Bo²; et al., 91d:70021
- Zhang, Tian *see* Zhang, Bo²; et al., 91d:70021
- Zubov, V. I. Construction of controlling force fields. 91m:70038

Items with secondary classifications in 70Q05

- Bacu, George (with Chou, Jack C. K.; Kesavan, H. K.) Constrained multibody systems: graph-theoretic Newton-Euler formulation. 91k:70004
- Bailliew, John *see* Martin, Daniel P., 91a:70004
- Bayoumi, M. M. *see* Mo, L., 91i:93071
- Beletskii, V. V. Regular and chaotic motions of the body of a two-legged mechanism. (Russian) 91j:70003
- Blaženecova-Mikulich, L. Yu. Modeling of instrument errors and external actions in navigational problems. (Russian) 91i:93010
- Bloch, Anthony M. (with McClamroch, N. Harris) Control of mechanical systems with classical nonholonomic constraints. 91a:93039
- (with Marsden, Jerrold E.) Control and stabilization of systems with homoclinic orbits. 91a:93050
- (with Marsden, Jerrold E.) Stabilization of rigid body dynamics by the energy-Casimir method. 91h:70012
- Boletina, Yu. V. Duality in the problem of optimal stabilization of coupled mechanical systems. (Not in MR)
- Brockett, Roger W. *see* Park, Frank C., 91a:70005 and Robotics, 91h:70003
- Byrnes, Christopher I. (with Hu, Xiao Ming; Isidori, Alberto) Robust feedback stabilization of nonlinear systems. 91h:93136
- (with Isidori, Alberto) On the attitude stabilization of rigid spacecraft. (Not in MR)
- Cetinkunt, Sahri (with Wu, Sijun) Output predictive adaptive control of a single-link flexible arm. (Not in MR)
- Chang, Po Rong Computer-aided-design tool for simplification of robot dynamic model based on manipulator system performance. (Not in MR)
- Chen, Yon-Ping (with Yeung, K. S.) Sliding-mode control of multi-link flexible manipulators. (Not in MR)
- Chentsov, A. G. *see* Nazarov, E. M., 91d:49040
- Chernous'ko, F. L. Decomposition of the control of a dynamical system. 91i:93006
- Chou, Jack C. K. *see* Bacu, George; et al., 91k:70004
- Clements, John C. Minimum-time turn trajectories to fly-to points. 91b:49049
- (Cox, I. J.) *see* Autonomous robot vehicles, 91e:70007
- Dancev, A. V. *see* Panchev, A. N.; et al., 91k:93003
- Dawson, Darren M. *see* Qu, Zhihua; et al., 91e:70076
- Degtyareva, E. N. A locally-optimal algorithm for automatic control of the motion of linear systems. 91f:93064
- Di Benedetto, M. D. *see* Slotine, J.-J. E., (Not in MR)

- Ding, Han. Flexibility control of redundant robots. (Chinese. English summary) (Not in MR)
- Donald, Bruce R. Planning and executing robot assembly strategies in the presence of uncertainty. (Not in MR) 91b:70003
- Dorsey, John F. *see* Qu, Zhihua; et al., 91b:93066
- Dritsas, L. *see* Tzafestas, Spyros G.; et al., 91b:70003
- Dwyer, T. A. W., III. Slew-induced deformation shaping on slow integral manifolds. 91d:73049
- Dymitruk, Anna. Vibration control of the system of strings connected in a node. 91c:73063
- Faibusovich, L. E. Mechanics, control and symplectic geometry. (Russian) 91m:49018
- Fedorov, Vyacheslav Vasil'evich *see* Perevoshchikov, A. G., 91c:49059
- Formalskii, A. M. (with Osipov, S. N.) On the problem of the time-optimal manipulator arm turning. (Not in MR)
- *see also* Lavrovskii, E. K., 91a:73030
- Gilbert, E. G. *see* Vinh, N. X.; et al., 91b:70025
- Goltser, Ya. M. (with Kharip, A. D.) On a problem of the stabilization of angular motions of a satellite with respect to the center of mass. (Russian. Kazakh summary) 91b:70005
- Hettich, R. (with Still, G.) Semi-infinite programming models in robotics. (see 91k:90010)
- Howe, R. M. *see* Vinh, N. X.; et al., 91b:70025
- Hu, Xiao Ming *see* Byrnes, Christopher L.; et al., 91b:93136
- Hughes, P. C. (with Sincarsin, G. B.) Dynamics of an elastic multibody chain. B. Global dynamics. 91c:70026
- Huijberts, H. J. C. (with van der Schaft, A. J.) Input-output decoupling with stability for Hamiltonian systems. 91m:93042
- Isidori, Alberto *see* Byrnes, Christopher L.; et al., 91b:93136 and (Not in MR)
- Izomir, D. B. (with Skoropad, S. V.) Digital control of the electric drive of a robot using sliding modes. (Not in MR)
- Johansson, Rolf. Quadratic optimization of motion coordination and control. 91b:49041
- Kanellakopoulos, J. *see* Tzafestas, Spyros G.; et al., 91b:70003
- Kang, Wei (with Krener, Arthur J.) Observation of a rigid body from measurement of a principle axis. 91a:93005
- Keis, I. A. Asymptotic and exponential stabilization of a nonlinear Hamiltonian system. (Russian. English and Estonian summaries) 91b:93089
- Kesavan, H. K. *see* Baciu, George; et al., 91k:70004
- Kharip, A. D. *see* Goltser, Ya. M., 91b:70005
- Kiryazov, P. (with Marinov, Pencho G.) On the optimal control synthesis for a class of nonlinear mechanical systems. (Russian and Bulgarian summaries) 91b:49043
- Klimova, E. V. Stabilization of a periodic system with a large parameter. (Russian) 91m:93103
- Koditschek, Daniel E. The application of total energy as a Lyapunov function for mechanical control systems. 91d:58237
- *see also* Rimon, Elon, 91m:58147
- Konoplev, V. A. Aggregate models in the mechanics of systems of solid bodies. 91m:70008
- Konstantinov, Michael Spiror. Struktur der Mechanismen und Roboter. [Structure of mechanisms and robots] 91b:70006
- Kozlov, Yu. M. ★ Адаптация и обучение в робототехнике. (Russian) [Adaptation and learning in robotics] 91d:93048
- Kozłowski, Krzysztof. Dynamics of manipulators and robots. (Polish. English summary) (Not in MR)
- Krener, Arthur J. *see* Kang, Wei, 91a:93005
- Kruško, P. D. Algorithms for acceleration-based control of the motion of mechanical systems. 91b:93074
- Conversion of Lyapunov's direct method in problems of dynamical system control. 91m:93084
- Kukushkin, A. P. The van Bouchout problem in a Riemannian space. (Russian) 91d:58057
- Lavrovskii, E. K. (with Formalskii, A. M.) Stabilization of a given position of an elastic rod. 91a:73030
- Lebedev, A. L. *see* Zabello, L. E.; et al., 91c:93037
- Leondes, Cornelius T. *see* Wang, Dau Chung, 91b:93084
- Leuering, Günter. Control and stabilization of a flexible robot arm. 91b:73073
- Li, Ze Xiang (with Sastry, S. Shankar) A unified approach for the control of multifingered robot hands. 91b:70006
- (with Sastry, S. Shankar) Issues in dextrous robot hands. 91b:70007
- Liu, Zhi Min *see* Wang, Chao Zhu; et al., 91m:70036
- Lu, Ping *see* Vinh, N. X.; et al., 91b:70025
- Marinov, Pencho G. *see* Kiryazov, P., 91b:49043
- Marsden, Jerrold E. *see* Bloch, Anthony M., 91a:93050 and 91b:70012
- Martin, Daniel P. (with Baillieu, John) Kinematically redundant manipulators: the hyperbolic behavior of the singularly perturbed necessary conditions. 91a:70004
- Martynenko, V. V. On the theory of the synthesis of a nonlinear controller. 91b:93050
- Matyukhin, V. I. Stability of the motions of manipulator robots in a decomposition mode. 91c:70005
- McClamroch, N. Harris *see* Bloch, Anthony M., 91a:93039
- Melkman, A. A. A positional method for the analysis of singular motions in extremal problems in dynamics. 91d:49022
- Ma, L. (with Bayoumi, M. M.) Hybrid adaptive control for robot manipulators. 91b:93071
- Murray, Richard M. (with Sastry, S. Shankar) Grasping and manipulation using multifingered robot hands. (see 91b:70003)
- Nazarov, E. M. (with Chentsov, A. G.) Duality and dynamic programming in a problem of the control of simple motion. 91d:49040
- Neshcheret, V. I. *see* Panchenkov, A. N.; et al., 91b:93003
- Nicosia, S. (with Tomei, Patrizio; Tornambè, Antonio) Observer-based control law for a class of nonlinear systems. 91d:93014
- Nijmeijer, Henk (with van der Schaft, A. J.) ★ Nonlinear dynamical control systems. 91d:93024
- Novitskii, V. V. Decomposition and modal control in linear systems. (Russian) 91c:93005
- Obratsova, L. V. Determining the orientation elements of a rigid body in the presence of random perturbations. (Russian) 91d:70003
- Oleif, J. E. *see* van der Schaft, A. J., 91b:93023
- Opeiko, A. F. *see* Zabello, L. E.; et al., 91c:93037
- Orlov, G. M. A method for the analytic construction of a control on the basis of optimal damping. (Russian) 91g:90213
- Osipov, S. N. *see* Formalskii, A. M., (Not in MR)
- Panchenkov, A. N. (with Ruzhnikov, G. M.; Daneev, A. V.; Sigalov, G. F.; Neshcheret, V. I.; Zabolonova, N. A.) ★ Асимптотические методы в задачах оптимального проектирования и управления движением. (Russian) [Asymptotic methods in problems of the optimal design and control of motion] 91b:93003
- Park, Frank C. (with Brockett, Roger W.) Harmonic maps and the optimal design of mechanisms. 91a:70005
- Perevoshchikov, A. G. Minimax methods for designing dynamical systems. (Russian. English summary) 91b:93033
- (with Fedorov, Vyacheslav Vasil'evich) Approximation of efficiency relations in the optimization of dynamical systems. (Russian) 91c:49059
- Lower bounds on a criterion in problems on the design of robots. (Russian) (Not in MR)
- Polozhii, T. G. Control of a linear inertial navigation system. (Russian) (Not in MR)
- Popescu, Mihai-Emilian (with Popescu, Tina) Functional analysis methods in the study of the optimal transfer. (Not in MR)
- Popescu, Tina *see* Popescu, Mihai-Emilian, (Not in MR)
- Postorolov, N. A. An algorithm for constructing a mathematical model of a linear system with a discrete controller. (Russian) (see 91b:00037)
- Qin, Hua Shu *see* Wang, Chao Zhu; et al., 91m:70036
- Qu, Zhihua (with Dorsey, John F.; Zhang, Xinfan; Dawson, Darren M.) Robust control of robots by the computed torque law. 91b:93066
- Reeds, J. A. (with Shepp, Larry A.) Optimal paths for a car that goes both forwards and backwards. 91b:49056
- Rimon, Elon (with Koditschek, Daniel E.) The construction of analytic diffeomorphisms for exact robot navigation on star worlds. 91m:58147
- Rimrott, F. P. J. ★ Introductory attitude dynamics. 91b:70045
- Roberson, Robert E. (with Schwertasek, Richard) ★ Dynamics of multibody systems. 91b:70007
- Ruzhnikov, G. M. *see* Panchenkov, A. N.; et al., 91b:93003
- Salmiva, M. A. *see* Samsonov, V. A., (Not in MR)
- Samsonov, V. A. (with Salmiva, M. A.) On the theory of the rotation regulator. (Russian) (Not in MR)
- Sastry, S. Shankar *see* Li, Ze Xiang, 91b:70007; 91c:70006 and Murray, Richard M., (91b:70003)
- van der Schaft, A. J. (with Oleif, J. E.) Model reduction of linear conservative mechanical systems. 91b:93023
- *see also* Nijmeijer, Henk, 91d:93024 and Huijberts, H. J. C., 91m:93042
- Schwertasek, Richard *see* Roberson, Robert E., 91b:70007
- Shchipanov, G. V. The fiftieth anniversary of publishing Professor G. V. Shchipanov's work: "Theory and methods of design of automatic regulators". 91b:93059
- Shepp, Larry A. *see* Reeds, J. A., 91b:49056
- Shrivastava, S. K. *see* Sinha, Sushil K., (Not in MR)
- Sigalov, G. F. *see* Panchenkov, A. N.; et al., 91b:93003
- Sincarsin, G. B. *see* Hughes, P. C., 91c:70026
- Sinha, Sushil K. (with Shrivastava, S. K.) Optimal explicit guidance of multistage launch vehicle along three-dimensional trajectory. (Not in MR)
- Skoropad, S. V. *see* Izomir, D. B., (Not in MR)
- Sletine, J.-J. E. (with Di Benedetto, M. D.) Hamiltonian adaptive control of spacecraft. (Not in MR)
- Spong, Mark W. Control of flexible-joint robots: a survey. (see 91m:93004)
- Sreenath, N. Accurate time critical control of many-body systems. 91d:93035
- Stavrakakis, George *see* Tzafestas, Spyros G., (Not in MR)
- Stifter, Sabine. Mathematische Verfahren für Kollisionsprobleme bei Robotern. [Mathematical methods for robot collision problems] (see 91k:00033)
- Still, G. *see* Hettich, R., (91k:90010)
- Tomei, Patrizio *see* Nicosia, S.; et al., 91d:93014
- Tomović, Rajko. Nonanalytic control of manipulators. (Not in MR)
- Tornambè, Antonio *see* Nicosia, S.; et al., 91d:93014
- Tzafestas, Spyros G. (with Dritsas, L.; Kanellakopoulos, J.) Robust robot control: a comparison of three techniques through simulation. 91b:70003
- (with Stavrakakis, George) Model reference adaptive control of industrial robots with actuator dynamics. (Not in MR)
- Vinh, N. X. (with Lu, Ping; Howe, R. M.; Gilbert, E. G.) Optimal interception with time constraint. 91b:70025
- Vorotnikov, V. I. Optimal stabilization of motion with respect to some of the variables. (Russian) 91b:93075
- Wang, Chao Zhu (with Qin, Hua Shu; Liu, Zhi Min) Qualitative analysis for space proportional navigation. (Chinese. English summary) 91m:70036
- Wang, Dau Chung (with Leondes, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. I, II. 91b:93084
- (Wilfong, G. T.) *see* Autonomous robot vehicles, 91c:70007
- Wu, Sijun *see* Cetinkunt, Sabri, (Not in MR)
- Yeung, K. S. *see* Chen, Yon-Ping, (Not in MR)
- Zabello, L. E. (with Lebedev, A. L.; Opeiko, A. F.) Synthesis of optimal controllers in linear systems with time lags under incomplete information. 91c:93037
- Zabolonova, N. A. *see* Panchenkov, A. N.; et al., 91b:93003
- Zarkh, M. A. Universal strategy for the second player in a linear differential game. 91b:90245
- Zavalishchin, S. T. Special nonlinear differential equations in generalized functions. 91b:34012
- Zhang, Xinfan *see* Qu, Zhihua; et al., 91b:93066

Items listed otherwise than by author

Autonomous robot vehicles ★ Autonomous robot vehicles. 91c:70007

Proceedings of Symposia in Applied Mathematics ★ Robotics. 91b:70003

Robotics ★ Robotics. 91b:70003

73-XX Mechanics of solids

73-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- Hetnarski, Ryszard B. *see* Keene, Frank W., (Not in MR)
 Keene, Frank W. (with Hetnarski, Ryszard B.) Bibliography on thermal stresses in shells. (Not in MR)
 Neer, Ahmed K. Bibliography of monographs and surveys on shells. (Not in MR)

73-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Bowen, Ray M. ★ Introduction to continuum mechanics for engineers. 91d:73001
 (Fernández Álvarez, Consuelo) *see* Parton, V. Z., 91e:73002
 Parton, V. Z. ★ Механика разрушения: от теории к практике. (Russian) [Fracture mechanics: from theory to practice] 91e:73001
 — ★ Mecánica de la destrucción. (Spanish) [Fracture mechanics] 91e:73002

Items with secondary classifications in 73-01

- de Boer, Reint (with Ehlers, W.) The development of the concept of effective stresses. 91e:73105
 Destuynder, Philippe ★ Modélisation des coques minces élastiques. (French) [The modelling of elastic thin shells] 91d:73041
 Ehlers, W. *see* de Boer, Reint, 91e:73105
 Schuster, Ernst ★ Grundlagen der Theoretischen Physik. Teil I. (German) [Foundations of theoretical physics. Part I] 91b:00003a

73-02 Research exposition (monographs, survey articles)

- Cleja-Tigoi, Sanda (with Soós, Eugen) Elastoviscoplastic models with relaxed configurations and internal state variables. (Not in MR)
 Lagnese, John E. ★ Boundary stabilization of thin plates. 91k:73001
 Soós, Eugen *see* Cleja-Tigoi, Sanda, (Not in MR)

Items with secondary classifications in 73-02

- Amiro, I. Ya. (with Zarutskii, V. A.) Statics, dynamics and stability of ribbed shells. (Russian. English summary) 91k:73078
 Arutyunyan, N. Kh. (with Movchan, A. B.; Nazarov, S. A.) Behavior of solutions of problems in elasticity theory in unbounded domains with paraboloidal and cylindrical inclusions or cavities. (Russian. English summary) 91b:73018
 Clarlet, Philippe G. ★ Plates and junctions in elastic multi-structures. 91b:73034
 Dobrushkin, V. A. ★ Краевые задачи динамической теории упругости для клиновидных областей. (Russian) [Boundary value problems of the dynamic theory of elasticity for wedge-shaped domains] 91e:73023
 Edelen, Dominic G. B. (with Lagoudas, Dimitris C.) ★ Gauge theory and defects in solids. 91k:73041
 Gershkovich, A. G. (with Tarlovskii, D. V.) Dynamical contact problems for a deformable half-space. (Russian. English summary) 91m:73068
 Holmes, Philip ★ Nonlinear dynamics, chaos, and mechanics. 91e:58113
 (Hutchinson, John W.) *see* Advances in applied mechanics, 91e:73003
 Lagoudas, Dimitris C. *see* Edelen, Dominic G. B., 91k:73041
 (Miklaszewski, Ryszard) *see* Piszczek, K., 91b:70002
 Movchan, A. B. *see* Arutyunyan, N. Kh.; et al., 91b:73018
 Nazarov, S. A. *see* Arutyunyan, N. Kh.; et al., 91b:73018
 Niziol, J. *see* Piszczek, K., 91b:70002
 Piszczek, K. (with Niziol, J.) ★ Random vibration of mechanical systems. 91b:70002
 Tarlovskii, D. V. *see* Gershkovich, A. G., 91m:73068
 Vasin, B. A. Constitutive relations in plasticity theory. (Russian. English summary) 91k:73054
 (Watson, Margaret Helen) *see* Piszczek, K., 91b:70002
 (Wu, Theodore Y.) *see* Advances in applied mechanics, 91e:73003
 Zarutskii, V. A. *see* Amiro, I. Ya., 91k:73078

Items listed otherwise than by author

- Advances in applied mechanics ★ Advances in applied mechanics. Vol. 25. 91e:73003

73-03 Historical (must also be assigned at least one classification number from Section 01)

- Griffiths, D. V. (with Sulim, G. T.) Development of the theory of thin-shelled inclusions at Lvov State University. (Ukrainian. Russian summary) (Not in MR)
 Sulim, G. T. *see* Griffiths, D. V., (Not in MR)

Items with secondary classifications in 73-03

- Banichuk, N. V. (with Ishlinskii, A. Yu.) Leonhard Euler and the mechanics of elastic systems. (Russian) (see 91e:01026)
 (Euler, Leonhard) *see* Banichuk, N. V., (91e:01026)
 Grattan-Guinness, I. Modes and manners of applied mathematics: the case of mechanics. 91e:01013
 Ishlinskii, A. Yu. *see* Banichuk, N. V., (91e:01026)
 Konoplyev, Yu. G. (with Sachenko, A. V.) Studies of the mechanics of shells and plates. (Russian) (see 91b:01139)
 Marichev, B. M. The development of the theory of vibrational processes and devices in the USSR. (Russian) (see 91a:01001)
 Sachenko, A. V. *see* Konoplyev, Yu. G., (91b:01139)

73-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 73-04

- Adjedj, Genevieve (with Aubry, Denis) Development of a hierarchical and adaptive finite element software. 91a:73066
 Anekwa, C. M. Application of formex algebra to bandwidth minimization. 91k:73083
 Aubry, Denis *see* Adjedj, Genevieve, 91a:73066
 Aufranc, Martial Numerical study of a junction between a three-dimensional elastic structure and a plate. 91b:73084
 Behravesch, A. The set algebra and structural analysis. (Not in MR)
 Beltzer, Abraham I. ★ Variational and finite element methods. 91c:65001
 Guedes, José Miranda (with Kikuchi, Noboru) Preprocessing and postprocessing for materials based on the homogenization method with adaptive finite element methods. 91k:73054
 Huang, Hou-Cheng ★ Static and dynamic analyses of plates and shells. 91a:73069
 Ioakimidis, N. I. The location of discontinuity intervals of sectionally analytic functions: application to the interface crack problem. 91k:65058
 Kikuchi, Noboru *see* Guedes, José Miranda, 91k:73054
 Perucchio, R. *see* Saxena, M., 91e:73110
 Saxena, M. (with Perucchio, R.) Element extraction for automatic meshing based on recursive spatial decompositions. 91e:73110
 Tsalkis, A. M. A method for the projection and decomposition of analytic functions in boundary value problems in elasticity theory. 91e:73088

73-06 Proceedings, conferences, collections, etc.

- (Achenbach, J. D.) *see* Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
 (Datta, S. K.) *see* Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
 (Fomina, V. M.) *see* Numerical methods for solving problems of the theory of elasticity and plasticity, 91k:73001
 (Hinton, E.) *see* Computational plasticity, 91f:73001
 (Hutchinson, John W.) *see* Advances in applied mechanics, 91e:73003
 (Kritzig, W. B.) *see* Computational mechanics of nonlinear response of shells, 91a:73001
 (Morozov, N. F.) *see* Studies in elasticity and plasticity, 91e:73004
 (Olate, E.) *see* Computational mechanics of nonlinear response of shells, 91a:73001 and Computational plasticity, 91f:73001
 (Owen, D. R. J.) *see* Computational plasticity, 91f:73001
 (Rajapakse, Y. S.) *see* Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
 (Wu, Theodore Y.) *see* Advances in applied mechanics, 91e:73003

Items listed otherwise than by author

- Advances in applied mechanics ★ Advances in applied mechanics. Vol. 25. 91e:73003
 All-Union Conference:
 Numerical Methods for Solving Problems of the Theory of Elasticity and Plasticity
 ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity] 91b:73001
 Atlanta, GA ★ Computational mechanics of nonlinear response of shells. 91a:73001
 Barcelona ★ Computational plasticity. Part I, II. 91f:73001
 Boulder, CO ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
 Computational mechanics of nonlinear response of shells ★ Computational mechanics of nonlinear response of shells. 91a:73001
 Computational plasticity ★ Computational plasticity. Part I, II. 91f:73001
 Conference:
 Computational Mechanics of Nonlinear Response of Shells ★ Computational mechanics of nonlinear response of shells. 91a:73001
 Computational Plasticity ★ Computational plasticity. Part I, II. 91f:73001
 Elastic waves and ultrasonic nondestructive evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
 Hannover ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91k:73004
 Itogi Nauki i Tekhniki ★ Механика деформируемого твердого тела. Том 21. (Russian) [Mechanics of deformable solids. Vol. 21] 91k:73003
 IUTAM Symposium:
 Elastic Wave Propagation and Ultrasonic Evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
 Krasnoyarsk ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity] 91k:73001
 Mechanics of deformable solids ★ Механика деформируемого твердого тела. Том 21. (Russian) [Mechanics of deformable solids. Vol. 21] 91k:73003
 Meeting:
 GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91k:73004
 Numerical methods for solving problems of the theory of elasticity and plasticity
 ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity] 91b:73001
 Proceedings:
 Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91k:73004
 Studies in elasticity and plasticity ★ Исследования по упругости и пластичности. Вып. 16. (Russian) [Studies in elasticity and plasticity. No. 16] 91e:73004
 Items with secondary classifications in 73-06
 (Barmis, A. A.) *see* Current mathematical problems in mechanics and their applications, 91b:00028
 (Brebba, C. A.) *see* Advances in boundary elements, 91f:00014
 (Connor, J. J.) *see* Advances in boundary elements, 91f:00014
 (Engelbrecht, Jiri K.) *see* Nonlinear waves in active media, 91b:00046
 (Gruber, Ralf) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91k:00050
 (Hutchinson, John W.) *see* Advances in applied mechanics, 91k:00011

- (Kirchgässner, Klaus) *see* Problems involving change of type, 91b:35001
 (Kohn, Robert V.) *see* Random media and composites, 91b:00052
 (Masugi, Gérard A.) *see* Continuum models and discrete systems, 91m:00029 and 91m:00030
 (Milton, Graeme W.) *see* Random media and composites, 91b:00052
 (Périan, Jacques) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91b:00050
 (Sabaev, E. F.) *see* Applied problems in oscillation theory, 91e:00007
 (Sedov, L. I.) *see* Current mathematical problems in mechanics and their applications, 91b:00028
 (Shaw, Richard Paul) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91b:00050
 (Wu, Theodore Y.) *see* Advances in applied mechanics, 91b:00011

Items listed otherwise than by author

- Advances in applied mechanics** ★ Advances in applied mechanics. Vol. 27. 91b:00011
Advances in boundary elements ★ Advances in boundary elements. Vol. 1. 91f:00014
Applied problems in oscillation theory ★ Прикладные проблемы теории колебаний. (Russian) [Applied problems in oscillation theory] 91e:00007

Birthday:

- Sedov, L. I.** ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028

- Cambridge, MA** ★ Advances in boundary elements. Vol. 1. 91f:00014

Colloquium:

- Nonlinear Waves in Active Media** ★ Nonlinear waves in active media. 91b:00046

Conference:

- Boundary Element Methods** ★ Advances in boundary elements. Vol. 1. 91f:00014
Current Mathematical Problems in Mechanics and their Applications ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028
Problems Involving Change of Type ★ Problems involving change of type. 91b:35001

Congress:

- Applied Mathematics** ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015
Differential Equations and Applications ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015

- Continuum models and discrete systems** ★ Continuum models and discrete systems. Vol. 1. 91m:00029
 — ★ Continuum models and discrete systems. Vol. 2. 91m:00030
Current mathematical problems in mechanics and their applications ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028
Dijon ★ Continuum models and discrete systems. Vol. 1. 91m:00029
 — ★ Continuum models and discrete systems. Vol. 2. 91m:00030

- Karlsruhe** ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00020
Lausanne ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

- Lecture Notes in Physics** ★ Problems involving change of type. 91b:35001

- Leesburg, VA** ★ Random media and composites. 91b:00052

- Málaga** ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015
Meeting:
GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00020
Moscow ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028
Nonlinear waves in active media ★ Nonlinear waves in active media. 91b:00046
Problems involving change of type ★ Problems involving change of type. 91b:35001

Proceedings:

- Congress on Applied Mathematics** ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015
Congress on Differential Equations and Applications ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015
Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00020
Symposium on Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

- Random media and composites** ★ Random media and composites. 91b:00052

- Stuttgart** ★ Problems involving change of type. 91b:35001

Symposium:

- Continuum Models and Discrete Systems** ★ Continuum models and discrete systems. Vol. 1. 91m:00029
 — ★ Continuum models and discrete systems. Vol. 2. 91m:00030
Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

- Tallinn** ★ Nonlinear waves in active media. 91b:00046

Workshop:

- Random Media and Composites** ★ Random media and composites. 91b:00052

73-08 Computational methods (1985)

- Alessandri, C.** *see* Tralli, A.; et al., (91b:00043)
Alline, Stefano *see* Tralli, A.; et al., (91b:00043)
Becker, Ingo *see* Schnack, Eckart; et al., (91b:00041)
Beltzer, Abraham I. Engineering analysis via symbolic computation—a breakthrough. (Not in MR)
Beskos, D. E. *see* Kontoni, D. P. N., (91b:00043)
Boncheva, N. (with Todorov, St.; Yankov, R.) On a generalization of solution methods for plastic solids using the finite-element method. (Bulgarian. English and Russian summaries) (Not in MR)
D'Aguanno, P. (with Panzeca, T.; Zito, M.) Some computational aspects of the BEM variational formulation. (see 91b:00041)
Drakaliev, P. *see* Gospodinov, G., (Not in MR)
Dumont, N. A. The hybrid boundary element method in elastostatics: overview of the theory and examples. (see 91b:00041)
Gospodinov, G. (with Drakaliev, P.) On the application of the boundary element method for a plane problem of elasticity theory. (Bulgarian. English and Russian summaries) (Not in MR)
Grannell, J. J. (with O'Callaghan, M. J. A.) The edge-function method for eigenvalues and eigenfunctions for two-dimensional elastodynamics in polygonal regions. (see 91b:00041)
Hall, W. S. (with Hibbs, T. T.) C(1) continuous, quadrilateral boundary elements applied to three-dimensional problems in potential theory. (see 91b:00042)
Hibbs, T. T. *see* Hall, W. S., (91b:00042)
Huang, Yu Ying A mixed FE-BE method for coupled vibrations of floating plates of complicated shape. (Not in MR)
Ji, Zhen Yi *see* Ye, Kai Yuan, (Not in MR)
Karaozmanoglu, Namik *see* Schnack, Eckart; et al., (91b:00041)
Kobayashi, Shochi Recent progress in BEM for elastodynamics. (see 91b:00044)
Kontoni, D. P. N. (with Beskos, D. E.) BEM dynamic analysis of materially nonlinear problems. (see 91b:00043)
Kreis, A. A different approach to 2-dimensional boundary element method in orthotropic linear elasticity theory. (see 91b:00043)
Ladopoulos, E. G. Cubature formulas for singular integral approximations used in three-dimensional elasticity. (Not in MR)
O'Callaghan, M. J. A. *see* Grannell, J. J., (91b:00041)
Panzeca, T. *see* D'Aguanno, P.; et al., (91b:00041)
Parreira, Pedro A numerical integration scheme for the Galerkin approach in boundary elements. (see 91b:00041)
Pollizotto, C. Variational principles for boundary element formulations in structural mechanics. (see 91b:00041)
Quislan, P. M. The edge function method (EFM) for 2-D regions with arbitrary boundaries, in fracture elastodynamics, thin plates and Laplace/Poisson problems. (see 91b:00041)
Schnack, Eckart (with Becker, Ingo; Karaozmanoglu, Namik) Modern coupling of FEM and BEM with mixed variational formulations. (see 91b:00041)
Smith, R. N. L. From rags to riches? Developments in the BEM for the solution of elastic fracture problems. (see 91b:00043)
Todorov, St. *see* Boncheva, N.; et al., (Not in MR)
Tralli, A. (with Alessandri, C.; Alline, Stefano) On B.E.M. solutions of elastic frictionless contact problems. (see 91b:00043)
Yankov, R. *see* Boncheva, N.; et al., (Not in MR)
Ye, Kai Yuan (with Ji, Zhen Yi) An exact element method for plane problem. (Not in MR)
Zito, M. *see* D'Aguanno, P.; et al., (91b:00041)

Items with secondary classifications in 73-08

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Beskos, D. E. *see* Providakis, C. P., (91b:00044)
Brebbia, C. A. (with Nowak, A. J.) A new approach for transforming domain integrals to the boundary. (see 91b:00050)
Brezzi, Franco *see* Hughes, Thomas J. R.; et al., (91b:00050)
Harari, Isaac *see* Hughes, Thomas J. R.; et al., (91b:00050)
Hughes, Thomas J. R. (with Brezzi, Franco; Masud, Arif; Harari, Isaac) Finite elements with drilling degrees of freedom: theory and numerical evaluations. (see 91b:00050)
Kakuda, K. *see* Tsutsumi, N., (91b:00041)
Katsikadelis, J. T. (with Nerantzaki, M. S.) Large deflections of thin plates by the boundary element method. (see 91b:00043)
Konyukhova, N. B. *see* Abramov, A. A.; et al., (Not in MR)
Masud, Arif *see* Hughes, Thomas J. R.; et al., (91b:00050)
Nerantzaki, M. S. *see* Katsikadelis, J. T., (91b:00043)
Nowak, A. J. *see* Brebbia, C. A., (91b:00050)
Pariiskii, B. S. *see* Abramov, A. A.; et al., (Not in MR)
Prikhod'ko, V. Yu. *see* Abramov, A. A.; et al., (Not in MR)
Providakis, C. P. (with Beskos, D. E.) Dynamic analysis of elastic plates. (see 91b:00044)
Tsutsumi, N. (with Kakuda, K.) The generalized boundary element method for nonlinear problems. (see 91b:00041)
Turortsev, G. An alternative analysis of clamped elastic plates using BEM. (see 91b:00043)
Tyutekin, V. V. *see* Abramov, A. A.; et al., (Not in MR)

73A05 Axiomatics, foundations of solid mechanics

- Brovka, G. L.** "Lagrangian" and "Eulerian" forms of constitutive relations of deformable solid bodies. (Russian) 91b:73001
Dai, Tian Min Axiomatizations of modern continuum mechanics. (Chinese) 91d:73002
Pitteri, Mario On a statistical-kinetic model for generalized continua. 91b:73002
Segor, Reuben On static theories and models. 91b:73001

Items with secondary classifications in 73A05

- Capriz, Gianfranco (with Virga, Epifanio G.) Interactions in general continua with microstructure. 91c:73001
- Cherepanov, G. P. Invariant integrals in continuum mechanics. 91j:73007
- Virga, Epifanio G. *see* Capriz, Gianfranco, 91c:73001

73Bxx Continuum mechanics of solids (constitutive description and properties)

Items with secondary classifications in 73Bxx

- Bowen, Ray M. ★ Introduction to continuum mechanics for engineers. 91d:73001 (Hendelman, G. H.) *see* Lin, Chia Chiao, 91a:00013
- Lin, Chia Chiao (with Segel, Lee A.) ★ Mathematics applied to deterministic problems in the natural sciences. 91a:00013
- (O'Malley, Robert E., Jr.) *see* Lin, Chia Chiao, 91a:00013
- Segel, Lee A. *see* Lin, Chia Chiao, 91a:00013
- Taharoui, Rabah Errata: "On a class of nonconvex functionals, and applications" [SIAM J. Math. Anal. 21 (1990), no. 1, 37-52]. (French) (Not in MR)

73B05 Constitutive equations

- Balla, Mihály *see* Szabó, László Albert, 91a:73002
- Bruce, Oscar P. The effective conductivity of an infinitely interchangeable mixture. 91f:73003
- Capriz, Gianfranco (with Virga, Epifanio G.) Interactions in general continua with microstructure. 9c:73001
- Chow, C. L. *see* Lu, T. J., (Not in MR)
- Danilchenko, V. A. (with Vladimirov, V. A.) Constitutive equations and the formulation of problems in continuum mechanics with internal variables. (Russian) 91j:73001
- Del Piero, Giampietro Constitutive equation and compatibility of the external loads for linear elastic masonry-like materials. (Italian summary) 91f:73004
- Foodick, Roger L. (with Hertog, Brian) Material symmetry and crystals. 91c:73002
- Frémond, Michel Sur l'aplatissement des matériaux. (English summary) [The flattening of materials] 91m:73001
- Frischmuth, Kurt (with Kosiński, W.) Can the finite memory of a simple material be nontrivial? (Russian and Polish summaries) 91k:73005
- Harris, David *see* Ostrowska-Maciejewska, J., 91b:73002
- Haupt, P. (with Tsakmakis, Ch.) On the application of dual variables in continuum mechanics. 91m:73002
- Hertog, Brian *see* Foodick, Roger L., 91c:73002
- Kosiński, W. *see* Frischmuth, Kurt, 91k:73005
- Lu, T. J. (with Chow, C. L.) On constitutive equations of inelastic solids with anisotropic damage. (Not in MR)
- Ostrowska-Maciejewska, J. (with Harris, David) Three-dimensional constitutive equations for rigid/perfectly plastic granular materials. 91b:73002
- Rivlin, R. S. Objectivity of the constitutive equation for a material with memory. 91c:73005
- Szabó, László Albert (with Balla, Mihály) Comparison of some stress rates. 91a:73002
- Tsakmakis, Ch. *see* Haupt, P., 91m:73002
- Vianello, Maurizio On the active part of the stress for elastic materials with internal constraints. 91k:73006
- Constraint manifolds with constant reaction spaces. (Italian summary) 91m:73003
- Virga, Epifanio G. *see* Capriz, Gianfranco, 91c:73001
- Vladimirov, V. A. *see* Danilchenko, V. A., 91j:73001

Items with secondary classifications in 73B05

- Arnold, Gary S. *see* Drew, Donald A.; et al., 91f:76054
- Baniotopoulos, C. C. Free boundary value problems arising in composite masonry structures. 91f:73031
- Biaz, E. On the notion of the stress tensor associated with \mathbb{R}^n -invariant constitutive laws admitting integral representations. 91m:58019
- Bruka, G. L. The concepts of a process image and of five-dimensional isotropy of material properties under finite deformations. 91c:73046
- "Lagrangian" and "Eulerian" forms of constitutive relations of deformable solid bodies. (Russian) 91f:73001
- Clebanu, Gh. Gr. Some results in the theory of instantaneously elastic materials. I. (Romanian. English summary) 91g:73005
- Dafalias, Y. F. Constitutive model for large viscoelastic deformations of elastomeric materials. 91k:73066
- Dačić, Cristian Thermo-electromagnetic rigid materials with memory. 91j:73053
- Del Piero, Giampietro Recent developments in the mechanics of materials which do not support tension. 91m:73012
- Drew, Donald A. (with Arnold, Gary S.; Lahey, Richard T., Jr.) Relation of microstructure to constitutive equations. 91f:76054
- Dzhondzhov, P. A uniqueness theorem for elastic media with special properties. (Russian. English and Bulgarian summaries) 91k:73013
- Ehlers, W. On thermodynamics of elasto-plastic porous media. (Russian and Polish summaries) 91c:73009
- Elkanski, Marek (with Epstein, Marcelo; Śniatycki, Jędrzej) G-structures and material homogeneity. 91j:73008
- Epstein, Marcelo *see* Elkanski, Marek; et al., 91j:73008
- Eringen, A. Cemal Theory of thermo-microstretch fluids and bubbly liquids. 91a:76008
- Fabrizio, Mauro Constitutive properties and constraints for viscous fluids with memory. (Italian) 91a:76006
- Gennal, Anna Maria (with Padovani, Cristina) Constitutive equations for masonry-like materials. 91k:73036
- Govindjee, Sanjay (with Simo, J. C.) A micro-mechanically based continuum damage model for carbon black-filled rubbers incorporating Mullins' effect. (Not in MR)

- Green, W. A. (with Shi, Jingyu) Plane deformations of membranes formed with elastic cords. 91c:73077
- Ha, Qiang (with Tong, Zhong Fang) A differential constitutive equation for nonlinear viscoelastic materials. (Chinese. English summary) 91a:73025
- Iannace, Donatella (with Romano, Antonio) Growth of macroscopic crystals and nonlocal theories. 91m:73004
- Laborde, Patrick (with Michrafy, Abderrahim) Étude d'un modèle avec endommagement. (English summary) [Study of a model involving damage] 91a:73056
- Lahey, Richard T., Jr. *see* Drew, Donald A.; et al., 91f:76054
- Levitas, V. I. The structure of constitutive equations for phase transitions in two-phase thermoclastoplastic composites. (Russian. English summary) 91k:73017
- Liu, I-Shih Extended thermodynamics of viscoelastic materials. 91d:73009
- Lucchesi, Massimiliano (with Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. II. 91a:73026
- Maugin, Gérard A. *see* Pouget, Joël, 91c:73038 and Sabir, M., 91c:73073
- Michrafy, Abderrahim *see* Laborde, Patrick, 91a:73056
- Padovani, Cristina *see* Gennal, Anna Maria, 91k:73036
- Podio-Guidugli, Paolo *see* Lucchesi, Massimiliano, 91a:73026
- Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. I. Basic equations. 91c:73038
- Pucci, Edvige (with Saccomandi, Giuseppe) Symmetries and conservation laws in micropolar elasticity. 91f:73002
- Raniecki, B. (with Samanta, S. K.) The thermodynamic model of a rigid-plastic solid with kinematic hardening, plastic spin and orientation variables. (Russian and Polish summaries) 91m:73010
- Romano, Antonio *see* Iannace, Donatella, 91m:73004
- Sabir, M. (with Maugin, Gérard A.) Microscopic foundations of the Barkhausen effect. (Russian and Polish summaries) 91c:73073
- Sacco, Elio Modelling and analysis of structure in no-tension materials. (Italian. English summary) 91k:73006
- Saccomandi, Giuseppe *see* Pucci, Edvige, 91f:73002
- Samanta, S. K. *see* Raniecki, B., 91m:73010
- Schaeffer, David G. Mathematical issues in the continuum formulation of slow granular flow. 91f:73014
- Seger, Reuben On statical theories and models. 91b:73001
- Shi, Jingyu *see* Green, W. A., 91c:73077
- Silber, G. Darstellungen höherstufig-tensorwertiger isotroper Funktionen. (English and Russian summaries) [Representations of higher-order tensor-valued isotropic functions] 91h:15033
- Simo, J. C. (with Vu-Quoc, L.) A geometrically exact rod model incorporating shear and torsion warping deformation. 91c:73074
- *see also* Govindjee, Sanjay, (Not in MR)
- Śniatycki, Jędrzej *see* Elkanski, Marek; et al., 91j:73008
- Tong, Zhong Fang *see* Ha, Qiang, 91a:73025
- Vasin, R. A. Constitutive relations in plasticity theory. (Russian. English summary) 91k:73054
- Vu-Quoc, L. *see* Simo, J. C., 91c:73074
- Wheeler, Lewis On the derivatives of the stretch and rotation with respect to the deformation gradient. 91j:73010

73B10 Symmetry groups

- Dăneşcu, Alexandru Material symmetry in deformed configurations. 91k:73007

Items with secondary classifications in 73B10

- Chadwick, P. (with Norris, A. N.) Conditions under which the slowness surface of an anisotropic elastic material is the union of aligned ellipsoids. 91j:73005
- Dăneşcu, Alexandru Material symmetry and propagation of transversal acceleration waves. 91f:73013
- Fedorov, A. F. *see* Fedorov, F. I., 91k:73049
- Fedorov, F. I. (with Fedorov, A. F.) On the structure of the Green-Christoffel tensor. 91k:73049
- Korsgaard, John On the representation of symmetric tensor-valued isotropic functions. 91k:73021
- On the representation of two-dimensional isotropic functions. 91m:73013
- Le Dret, Hervé Sur les fonctions de matrices convexes et isotropes. (English summary) [On convex isotropic functions of matrices] 91b:15009
- Levi, Decio (with Rogers, Colin) Group invariance of a neo-Hookean system: incorporation of stretch change. 91k:73021
- Lucchesi, Massimiliano Existence and uniqueness of stress for ideal plastic materials subject to finite deformations. (Italian. English summary) 91b:73052
- Luhr, C. P. (with Rubin, M. B.) The significance of projection operators in the spectral representation of symmetric second order tensors. 91k:73007
- Mugrabi, M. J. P. On the constraints of positive-definite strain energy in anisotropic elastic media. 91j:73006
- Norris, A. N. *see* Chadwick, P., 91j:73005
- Rogers, Colin *see* Levi, Decio, 91k:73021
- Rubin, M. B. *see* Luhr, C. P., 91k:73007
- Schab, E. S. Isovector fields and similarity solutions for general balance equations. 91m:35062
- Vianello, Maurizio On the active part of the stress for elastic materials with internal constraints. 91k:73006

73B18 Nonlocal theories

- Altan, S. Burhanettin Existence in nonlocal elasticity. (Russian and Polish summaries) 91k:73002
- Georgelin, Christine Résultats d'existence en élasticité tridimensionnelle non locale. (English summary) [Existence results in nonlocal three-dimensional elasticity] 91c:73003

Gould, Laurence I. Balance laws associated with nonlocal equations of motion for theories containing one dependent variable. 91c:73004

Iannece, Donatella (with Romano, Antonio) Growth of macroscopic crystals and nonlocal theories. 91m:73004

Nowinski, J. L. On a three-dimensional Kelvin problem for an elastic nonlocal medium. 91h:73003

Romano, Antonio see Iannece, Donatella, 91m:73004

Items with secondary classifications in 73B18

Altan, S. Burhanettin Some theorems in nonlocal thermoelasticity. 91c:73007

Cimmelli, Vito Antonio (with Starita, Giulio) Nonlocal variational theories for systems with an interface. 91g:73003

— (with Romano, Antonio; Starita, Giulio) The Gibbs principle for the equilibrium of crystals. 91g:73004

Frémond, Michel Sur l'aplatissement des matériaux. (English summary) [The flattening of materials] 91m:73001

Romano, Antonio see Cimmelli, Vito Antonio; et al., 91g:73004

Starita, Giulio see Cimmelli, Vito Antonio, 91g:73003 and 91g:73004

73B25 Polar theories

Dyzlewicz, Janusz (with Kolodziej, Czesław) Second dynamic, axially-symmetric problem of micropolar theory of elasticity. (French, Russian and Polish summaries) 91b:73003

— (with Kolodziej, Czesław) Axial-symmetric Lamb problems in micropolar theory of elasticity. (French, Russian and Polish summaries) 91b:73004

Grioli, Giuseppe Phenomenological introduction to continua with microstructure. (Italian. English summary) 91k:73008

Kolodziej, Czesław see Dyzlewicz, Janusz, 91b:73003 and 91b:73004

Pucci, Edvige (with Saccomandi, Giuseppe) Symmetries and conservation laws in micropolar elasticity. 91f:73002

Saccomandi, Giuseppe see Pucci, Edvige, 91f:73002

Scarpatta, Edoardo On the fundamental solutions in micropolar elasticity with voids. 91f:73003

Vukobrat, M. Dj. Conservation laws in micropolar elastodynamics and path-independent integrals. 91b:73005

Items with secondary classifications in 73B25

Debnath, Lokenath see Kumar, Rajneesh; et al., 91b:73045

Easwaran, C. V. (with Majumdar, S. R.) Causal fundamental solutions for the slow flow of a micropolar fluid. 91e:76011

Eringen, A. Cemal Theory of thermo-microstretch fluids and bubbly liquids. 91a:76008

Gogna, M. L. see Kumar, Rajneesh; et al., 91b:73045

Han, S. Y. (with Narasimhan, M. N. L.; Kennedy, T. C.) Dynamic propagation of a finite crack in a micropolar elastic solid. (Not in MR)

Kennedy, T. C. see Han, S. Y.; et al., (Not in MR)

Kumar, Rajneesh (with Gogna, M. L.; Debnath, Lokenath) On Lamb's plane problem in micropolar viscoelastic half-space with stretch. 91b:73045

Majumdar, S. R. see Easwaran, C. V., 91e:76011

Maugis, Gérard A. see Pouget, Joël, 91c:73038

Narasimhan, M. N. L. see Han, S. Y.; et al., (Not in MR)

Nazarov, S. A. (with Romashev, Yu. A.) Calculation of energy change in the Griffith problem for a Cosserat continuum. (Russian. English summary) 91b:73077

Pitteri, Mario On a statistical-kinetic model for generalized continua. 91b:73002

Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. I. Basic equations. 91c:73038

Romashev, Yu. A. see Nazarov, S. A., 91b:73077

Scalia, Antonio On some theorems in the theory of micropolar thermoelasticity. 91a:73006

Schiavone, Peter Generalised Fourier series for exterior problems in extensional motions of thin micropolar plates. 91j:73040

— Uniqueness in dynamic problems of thin micropolar plates. (Not in MR)

73B27 Nonhomogeneous materials; homogenization

Acerbi, Emilio (with Buttazzo, Giuseppe; Percival, D.) Thin inclusions in linear elasticity: a variational approach. 91b:73006

Brillard, Alain (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Boundary-homogenization methods in linear elasticity for isotropic homogeneous cylindrical bodies. (Spanish) (see 91j:00015)

— (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Homogénéisation de frontières par épiconvergence en élasticité linéaire. (English summary) [Homogenization of boundaries by epiconvergence in linear elasticity] 91b:73007

Buttazzo, Giuseppe see Acerbi, Emilio; et al., 91b:73006

Chigarev, A. V. An averaging method in dynamic problems in the theory of elasticity of structurally heterogeneous media. 91b:73004

Dvorak, George J. On uniform fields in heterogeneous media. 91g:73001

Francfort, Gilles A. (with Tartar, Luc) Comportement effectif d'un mélange de matériaux élastiques isotropes ayant le même module de cisaillement. (English summary) [Effective behavior of a mixture of isotropic materials with identical shear moduli] 91m:73005

Geymonat, Giuseppe (with Müller, Stefan; Triantafyllidis, Nicolas) Quelques remarques sur l'homogénéisation des matériaux élastiques nonlinéaires. (English summary) [Some remarks on the homogenization of nonlinearly elastic materials] 91k:73009

Huet, C. Application of variational concepts to size effects in elastic heterogeneous bodies. 91f:73002

James, Richard Dana (with Lipton, Robert; Lutoborski, Adam) Laminar elastic composites with crystallographic symmetry. 91b:73005

Lipton, Robert On the effective elasticity of a two-dimensional homogenised incompressible elastic composite. 91g:73002

— see also James, Richard Dana; et al., 91c:73005

Lobo-Hidalgo, Miguel see Brillard, Alain; et al., 91b:73007 and (91j:00015)

Lutoborski, Adam see James, Richard Dana; et al., 91b:73005

Milton, Graeme W. On characterizing the set of possible effective tensors of composites: the variational method and the translation method. 91c:73006

Müller, Stefan see Geymonat, Giuseppe; et al., 91k:73009

Ngatseng, Gabriel Asymptotic analysis for a stiff variational problem arising in mechanics. 91m:73006

Panasenko, G. P. (with Reztsov, M. V.) Asymptotic expansion of the solution of a system of equations in elasticity theory in an inhomogeneous thin layer. (Russian) 91b:73005

Papa, Gelsu About an averaging method. 91k:73010

Percival, D. see Acerbi, Emilio; et al., 91b:73006

Pérez, Eugenia see Brillard, Alain; et al., 91b:73007 and (91j:00015)

Reztsov, M. V. see Panasenko, G. P., 91b:73005

Tartar, Luc see Francfort, Gilles A., 91m:73009

Triantafyllidis, Nicolas see Geymonat, Giuseppe; et al., 91k:73009

Vigdergaus, S. B. Geometric characteristics of constant-stress boundaries of elastic bodies. 91a:73003

Items with secondary classifications in 73B27

Annis, B. D. (with Kolpakov, A. G.) Design of laminated and fibrous composites with prescribed characteristics. 91m:73054

Arutyunyan, N. Kh. (with Movchan, A. B.; Nazarov, S. A.) Behavior of solutions of problems in elasticity theory in unbounded domains with paraboloidal and cylindrical inclusions or cavities. (Russian. English summary) 91b:73018

Attouch, Hedy Homogénéisation. [Homogenization] 91m:49007

Auriault, J.-L. (with Strzelecki, T.; Bauer, Jacek; He, S.) Porous deformable media

saturated by a very compressible fluid: quasi-statics. 91k:76148

— see also Boutin, C., 91k:73059 and Mei, C. C., 91m:76117

Avellaneda, Marco Iterated homogenization and the effective properties of polycrystals. 91g:82056

— (with Milton, Graeme W.) Optimal bounds on the effective bulk modulus of polycrystals. 91c:73088

— see also Lipton, Robert, 91e:76050

Babuska, Ivo see Morgan, R. C., 91k:35034

Bakhvalov, N. S. (with Panasenko, G. P.; Sitaras, A. L.) The averaging method for partial differential equations and its applications. (Russian) 91k:35061

Bamberger, Alain (with Dermenjian, Y.; Joly, Patrick) Mathematical analysis of the

propagation of elastic guided waves in heterogeneous media. 91k:73038

Barabhanov, O. O. Limit surface loads in plasticity theory. 91m:73036

Bardzolas, Dem. (with Parton, V. Z.; Theocaris, Pericles S.) Integral equations in elasticity theory for a multiply connected domain with inclusions. 91g:73055

Bauer, Jacek see Auriault, J.-L.; et al., 91k:76148

Berviller, Marcel see Sabar, Hafid; et al., 91c:73041

Borodachev, A. N. A class of exact solutions of a nonaxisymmetric contact problem for a nonhomogeneous elastic half space. 91f:73035

Boutin, C. (with Auriault, J.-L.) Dynamic behaviour of porous media saturated by a

viscoelastic fluid. Application to bituminous concretes. 91k:73059

Brahim-Otsmane, Safia (with Francfort, Gilles A.; Murat, François) Homogenization in thermoelasticity. 91k:35243

Brillard, Alain (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Un problème d'homogénéisation de frontière en élasticité linéaire pour un corps cylindrique. (English summary) [A boundary homogenization problem in linear elasticity for a cylindrical body] 91g:73011

Bruno, Oscar P. The effective conductivity of an infinitely interchangeable mixture. 91f:73003

Buisson, Manuel see Sabar, Hafid; et al., 91c:73041

Buryachenko, V. A. see Parton, V. Z., 91k:73079

Chacha, Djamel Comportement macroscopique de plaques hétérogènes fissurées localement périodiques. (English summary) [Macroscopic behavior of heterogeneous and fissured locally periodic plates] 91m:73047

Chekhov, V. N. see Gué, A. N.; et al., 91j:73037

Christensen, R. M. see Nikhil, D. J., Jr., 91f:73033

Clarlet, Philippe G. (with Le Dret, Hervé) Justification of the boundary conditions of a clamped plate by an asymptotic analysis. (French summary) 91a:73036

Conca, Carlos (with Planchard, Jacques; Vanninathan, M.) Un problème de fréquences propres en couplage fluide-structure. (English summary) [A problem of eigenfrequencies in fluid-structure coupling] 91d:73051

Demengel, Françoise (with Tang, Qi) Convex function of a measure obtained by homogenization. 91g:28017

Dermenjian, Y. see Bamberger, Alain; et al., 91k:73038

Dhaliwal, Ranjit S. The Reissner-Sagoci problem for a nonhomogeneous elastic half-space. 91c:73021

Egorov, A. G. Damping of elastic waves in thin-layered saturated porous media. 91c:73030

Elhanowski, Marek (with Epstein, Marcelo; Śniatycki, Jędrzej) G-structures and material homogeneity. 91j:73008

Epstein, Marcelo see Elhanowski, Marek; et al., 91j:73008

Francfort, Gilles A. see Brahim-Otsmane, Safia; et al., 91k:35243

Gobert, A. T. see Pak, R. Y. S., 91g:73015

Govindjee, Sanjay (with Simo, J. C.) A micro-mechanically based continuum damage model for carbon black-filled rubbers incorporating Mullins' effect. (Not in MR)

Gründemann, Helmut Boundary element homogenization of composite materials. 91k:73103

Guedes, José Miranda (with Kikuchi, Noboru) Preprocessing and postprocessing for materials based on the homogenization method with adaptive finite element methods. 91h:73054

Gurevich, B. Ya. see Sadovnichaya, A. P.; et al., 91e:73030

Gué, A. N. (with Nemish, Yu. N.) ★ Метод возмущения формы границы в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007

— (with Korzh, V. P.; Chekhov, V. N.) Stability of a layered half-plane under the action of surface distributed loads. 91f:73037

He, S. see Auriault, J.-L.; et al., 91k:76148

Horsung, Ulrich (with Showalter, Ralph E.) Diffusion models for fractured media. 91d:76072

- Joly, Patrick. *see* Bamberger, Alain; et al., 91c:73038
- Kachalovskaya, N. E. (with Ulitko, A. F.) Equilibrium of an elastic medium with ellipsoidal inhomogeneity with smooth contact on its boundary. (Russian) 91d:73014
- Kalamkarov, A. L. A thermoelastic problem for constructive-inhomogeneous shells of regular structure. 91h:73041
- (with Kudryavtsev, B. A.; Parton, V. Z.) The boundary layer method in fracture mechanics of composites with periodic structure. 91h:73046
- *see also* Parton, V. Z.; et al., 91m:73022
- Kanasa, S. K. (with Kudryavtseva, L. T.) Elastic and thermoelastic characteristics of composites that are reinforced by unidirectional layered fibers. 91a:73050
- Karaliūnas, Romas J. Averaging equations of thermopiezoelectric composites. (Russian. English and Lithuanian summaries) 91j:73054
- Kikuchi, Noboru. *see* Guedes, José Miranda, 91h:73054
- Kirpichnikova, N. Ya. Methods for calculating successive approximations in the asymptotic space-time ray method of Gaussian beams. II. An isotropic inhomogeneous elastic medium. (Russian. English summary) 91a:73018
- (Kohn, Robert V.) *see* Random media and composites, 91b:00052
- Kolpakov, A. G. *see* Ananin, B. D., 91m:73054
- Koltsakis, M. (with Panagiotopoulos, P. D.) Nonmonotone skin effects in laminated plates in stretching. (see 91g:00043)
- Korsh, V. P. *see* Gur', A. N.; et al., 91j:73037
- Korshenko, G. P. Reduction of boundary value problems in the theory of elasticity of inhomogeneous media to systems of integral equations. (Russian) 91k:73032
- Kudryavtsev, B. A. *see* Kalamkarov, A. L.; et al., 91h:73046 and Parton, V. Z.; et al., 91m:73022
- Kudryavtseva, L. T. *see* Kanasa, S. K., 91a:73050
- Le Dret, Hervé. Modeling of the junction between two rods. (French summary) 91m:73042
- *see also* Claret, Philippe G., 91a:73036
- Leissa, A. W. (with Martin, Antonio Fermin) Some exact plane elasticity solutions for nonhomogeneous, orthotropic sheets. 91c:73089
- Levitas, V. I. The structure of constitutive equations for phase transitions in two-phase thermoplastic composites. (Russian. English summary) 91k:73017
- Lévy, Thérese. Filtration in a porous fissured rock: influence of the fissures connectivity. 91m:76116
- Lewicki, T. (with Telega, J. J.) Asymptotic method of homogenization of two models of elastic shells. (Russian and Polish summaries) 91d:73044
- Lipton, Robert (with Avellaneda, Marco) Darcy's law for slow viscous flow past a stationary array of bubbles. 91e:76050
- Lobo-Hidalgo, Miguel. *see* Brillard, Alain; et al., 91g:73011
- Lopatnikov, S. L. *see* Vinogradova, O. S., 91d:73078 and Sadovnichaya, A. P.; et al., 91c:73030
- Martin, Antonio Fermin. *see* Leissa, A. W., 91c:73089
- McCarthy, Matthew F. Nonlinear wave propagation in composites. 91e:73029
- Mel, C. C. (with Auriault, J.-L.) The effect of weak inertia on flow through a porous medium. 91m:76117
- Milton, Graeme W. *see* Avellaneda, Marco, 91c:73088 and Random media and composites, 91b:00052
- Morgan, R. C. (with Babulka, Ivo) An approach for constructing families of homogenized equations for periodic media. I. An integral representation and its consequences. 91k:35034
- Movchan, A. B. *see* Arutyunyan, N. Kh.; et al., 91h:73018 and Zarin, I. S.; et al., 91h:73037
- Murat, François. *see* Braham-Otsmane, Safia; et al., 91k:35243
- Nazarov, S. A. *see* Arutyunyan, N. Kh.; et al., 91h:73018 and Zarin, I. S.; et al., 91h:73037
- Nemish, Yu. N. * Элементы механики кусочно-однородных тел с неканоническими поверхностями раздела. (Russian) [Elements in the mechanics of piecewise homogeneous bodies with noncanonical interfaces] 91e:73026
- *see also* Gur', A. N., 91e:73007
- Nikkel, D. J., Jr. (with Christensen, R. M.) A micro-mechanical model for aligned fiber elastic-plastic composites. 91f:73033
- Oleinik, O. A. Frequencies of natural oscillations of bodies with concentrated masses. (Russian) 91c:35012
- Pak, R. Y. S. (with Gobert, A. T.) On the axisymmetric interaction of a rigid disc with a semi-infinite solid. (French summary) 91g:73015
- Panagiotopoulos, P. D. Semicoercive hemivariational inequalities. On the delamination of composite plates. 91a:73078
- *see also* Koltsakis, M., (91g:00043)
- Panasenko, G. P. *see* Bakhrvalov, N. S.; et al., 91k:35061
- Parton, V. Z. (with Buryachenko, V. A.) Stress fluctuations in elastic composites. 91k:73079
- (with Kudryavtsev, B. A.; Kalamkarov, A. L.) Generalization of the integral Fourier transform in boundary value problems of the mechanics of composites. 91m:73022
- *see also* Bardzokas, Dem.; et al., 91g:73055 and Kalamkarov, A. L.; et al., 91h:73046
- Patrizi, Maria Cristina. Discontinuity waves of order $r \geq 1$ in an inhomogeneous anisotropic linear elastic solid. 91e:73033
- Pérez, Eugenia. *see* Brillard, Alain; et al., 91g:73011
- Planchar, Jacques. *see* Conca, Carlos; et al., 91d:73051
- Polievskii, Dan. Homogenization of thermal flows: the influence of Grashof and Prandtl numbers. 91d:76075
- Purs, A. E. Separation of equations in elasticity theory of inhomogeneous bodies. (Russian. English and Estonian summaries) 91h:73022
- Quintela Estevez, Peregrina. A new model for nonlinear elastic plates with rapidly varying thickness. 91f:73021
- Ratzov, M. V. Properties of effective modules of composite plates. 91m:73048
- Sabar, Halid (with Berveiller, Marcel; Buisson, Manuel) Problème d'inclusion à frontière mobile. (English summary) [An inclusion problem with moving boundary] 91c:73041
- Sadovnichaya, A. P. (with Gurevich, B. Ya.; Lopatnikov, S. L.; Shapiro, S. A.) Integral representations of wave fields in piecewise-homogeneous porous media. (Russian) 91e:73030
- Sánchez-Palencia, E. Notes on the Saint-Venant principle for nonelongated bodies. (Spanish) 91h:73011
- Shapiro, S. A. *see* Sadovnichaya, A. P.; et al., 91e:73030
- Shardakov, I. N. Solving boundary value problems of inhomogeneous elastic bodies by the method of geometric imbedding in a differential formulation. (Russian) 91c:73021
- Showalter, Ralph E. *see* Hornung, Ulrich, 91d:76072
- Shtrass, A. L. *see* Bakhrvalov, N. S.; et al., 91k:35061
- Simo, J. C. *see* Govindjee, Sanjay, (Not in MR)
- Śniatycki, Jędrzej. *see* Eliaszewski, Marek; et al., 91j:73008
- Sokolowski, M. Application of the method of equivalent moments to statical and dynamical problems of elastic media with cylindrical holes and inclusions. (Italian summary) 91k:73050
- Strzelecki, T. *see* Auriault, J.-L.; et al., 91k:76148
- Surnev, V. B. (with Tolmachov, V. V.) Efficient parameters of the propagation of elastic waves in a medium with discrete inclusions. (Russian) (Not in MR)
- Tang, Qi. *see* Demengel, Françoise, 91g:28017
- Tarala, S. Averaging error estimates for composites with periodic structure. I. (Russian. English and Lithuanian summaries) 91c:35014
- Averaging error estimates for composites with periodic structure. II. (Russian. English and Lithuanian summaries) 91h:35040
- Averaging error estimates for composites with periodic structure. III. (Russian. English and Lithuanian summaries) 91m:35040
- Telega, J. J. Piezoelectricity and homogenization: application to biomechanics. (see 91m:00030)
- *see also* Lewicki, T., 91d:73044
- Theocaris, Pericles S. *see* Bardzokas, Dem.; et al., 91g:73055
- Tolmachov, V. V. *see* Surnev, V. B., (Not in MR)
- Torquato, Sal. Random heterogeneous media: microstructure and improved bounds on effective properties. 91k:82070
- Ulitko, A. F. *see* Kachalovskaya, N. E., 91d:73014
- Vanninathan, M. *see* Conca, Carlos; et al., 91d:73051
- Vernescu, Bogdan. Viscoelastic behavior of a porous medium with deformable skeleton. (Romanian. English summary) 91f:76035
- Vinogradova, O. S. (with Lopatnikov, S. L.) Added mass in equations of motion of multiphase media. (Russian) 91d:76078
- Willis, J. R. The overall behaviour of a nonlinear matrix reinforced by rigid inclusions or weakened by cavities. 91c:73059
- Wozniak, Cz. Mathematical modelling of delamination effects in layered composites. (Russian and Polish summaries) 91d:73046
- Wu, Chien H. Asymptotic solution of a crack in a vanishingly thin elliptic inhomogeneity. 91c:73103
- Zhou, Sha Ang. Material multipole mechanics of elastic dielectric composites. 91e:73106
- Zarin, I. S. (with Movchan, A. B.; Nazarov, S. A.) Application of tensors of elastic capacity, polarization and associated deformation. (Russian) 91k:73037
- Items listed otherwise than by author
- Leensburg, VA. * Random media and composites. 91b:00052
- Random media and composites. * Random media and composites. 91b:00052
- Workshop:
- Random Media and Composites. * Random media and composites. 91b:00052

73B30 Thermodynamics of solids {For gases and fluids, see 80-XX.}

- Abeysaratne, Rohan (with Knowles, James K.) On the driving traction acting on a surface of strain discontinuity in a continuum. 91d:73003
- Alfantis, E. C. *see* Kuttler, K., 91f:73004
- Altan, Ş. Burhanettin. Some theorems in nonlocal thermoelasticity. 91c:73007
- Amendola, G. (with Manes, A.) Vibrations in a spherical cavity in a Signorini-Cattaneo thermoelastic solid. (Italian. English summary) 91c:73008
- Angewand, Sigurd B. (with Gurtin, Morton E.) Multiphase thermomechanics with interfacial structure. II. Evolution of an isothermal interface. 91d:73004
- Anthony, K.-H. Defect dynamics and Lagrangian thermodynamics of irreversible processes. (see 91m:00030)
- Bark-Zollmann, Silvia. *see* Kluge, Gerhard, 91h:73011
- Blanchard, Dominique (with Geymonat, Giuseppe; Nicolas, Pierre) Dissipation dans les matériaux à variables internes attirées par un convexe. (English summary) [Dissipation in materials with internal variables trapped in a convex set] 91e:73006
- Brekelmans, W. A. M. *see* Starman, F. J. M.; et al., 91d:73010
- Chandrasekharasah, D. S. (with Keshavan, H. R.) Thermoelastic plane waves in a transversely isotropic body. 91m:73007
- Charalambakis, Nicolas (with Murat, François) Weak solutions to the initial-boundary value problem for the shearing of nonhomogeneous thermoviscoplastic materials. 91h:73008
- Cheban, V. G. *see* Lemuk, M. P.; et al., 91h:73016
- Chichinadze, R. K. (with Gegelia, T. G.) Solution in quadratures of the basic problems of thermoelasticity for a sphere and a spherical cavity. (German and Russian summaries) 91c:73009
- Chiorescu, Gh. Linear thermoelasticity in the director theory of rods. (Romanian summary) (Not in MR)
- Chiriac, S. Continuous data dependence in thermodynamics of materials with heat conduction and viscosity on unbounded domains. 91e:73007
- Claret, Michele (with Scialia, Antonio) Thermoelasticity of nonsimple materials with voids. 91k:73011
- Cimmelli, Vito Antonio (with Starita, Giulio) Nonlocal variational theories for systems with an interface. 91g:73003
- (with Romano, Antonio; Starita, Giulio) The Gibbs principle for the equilibrium of crystals. 91g:73004
- Cleban, Gh. Gr. Some results in the theory of instantaneously elastic materials. I. (Romanian. English summary) 91g:73005
- Colli, Pierluigi (with Frémond, Michel; Visintin, Augusto) Thermo-mechanical evolution of shape memory alloys. 91h:73009

- Dassios, George (with Kostopoulos, Vassilis) Thermoelastic Rayleigh scattering by a rigid ellipsoid. (Portuguese summary) 91k:73012
- (with Kostopoulos, Vassilis) On Rayleigh expansions in thermoelastic scattering. 91d:73005
- Day, William Alan The mean rate-of-working of a thermoelastic body. 91e:73008
- Dhaliwal, Ranjit S. see Saxena, Hirdeshwar S., 91c:73012 and 91k:73018
- Dzhondzhorov, P. A uniqueness theorem for elastic media with special properties. (Russian. English and Bulgarian summaries) 91k:73013
- Ehlers, W. On thermodynamics of elasto-plastic porous media. (Russian and Polish summaries) 91e:73009
- Falk, F. Elastic phase transitions and nonconvex energy functions. 91k:73006
- Fomin, S. A. A mathematical model of heat and mass exchange processes in contact welding. (Russian) (Not in MR)
- Frémond, Michel see Colli, Pierluigi; et al., 91b:73009
- Gegelia, T. G. see Chichladze, R. K., 91c:73009
- Gelashvili, D. M. Solution of boundary value problems of generalized moment thermoelasticity for a half-space. (Russian. English and Georgian summaries) (Not in MR)
- Geymonat, Giuseppe see Blanchard, Dominique; et al., 91e:73006
- Grinfel'd, M. A. Energy changes accompanying first-order phase transitions with small inherent deformation in solids. 91e:73010
- Gumenyuk, B. P. see Karnaukhov, V. G., 91h:73005
- Gurtin, Morton E. A mechanical theory for crystallization of a rigid solid in a liquid melt; melting-freezing waves. 91b:73010
- (with Struthers, Allan) Multiphase thermomechanics with interfacial structure. III. Evolving phase boundaries in the presence of bulk deformation. 91k:73014
- see also Angenent, Sigurd B., 91d:73004
- Haddow, J. B. (with Wegner, J. L.) Some thermodynamic aspects of finite amplitude unloading waves in hyperelastic strings. (German and Russian summaries) 91m:73006
- Hansen, Andrew C. Reexamining some basic definitions of modern mixture theory. 91a:73004
- Işcan, D. On uniqueness and continuous dependence in nonlinear thermodynamics of electromagnetic materials. 91d:73006
- Ignaczak, József (with Mrówka-Matejewska, Elżbieta) One-dimensional Green's function in temperature-rate dependent thermoelasticity. 91d:73007
- James, Richard Dana (with Kinderlehrer, David) Theory of diffusionless phase transitions. 91e:73011
- Relation between microscopic and macroscopic properties in crystals undergoing phase transformation. 91e:73012
- Janssen, J. D. see Starinans, F. J. M.; et al., 91d:73010
- Jiang, Song Numerical solution for the Cauchy problem in nonlinear 1-D-thermoelasticity. (German summary) 91d:73008
- Karnaukhov, V. G. (with Gumenyuk, B. P.) * Термомеханика предварительно деформированных вязкоупругих тел. (Russian) [Thermomechanics of predeformed viscoelastic bodies] 91h:73005
- Keshavan, H. R. see Chandrasekharanah, D. S., 91m:73007
- Kinderlehrer, David see James, Richard Dana, 91e:73011
- Kleiber, Michael see Wriggers, P.; et al., (91f:73001)
- Kluge, Gerhard (with Bark-Zollmann, Silvia) Thermodynamische Begründung einer rheologischen Gleichung mit Gedächtnis. (English summary) [Thermodynamic justification of a rheological equation with memory] 91b:73011
- Knowles, James K. see Abergatne, Rohan, 91d:73003
- Kostopoulos, Vassilis see Dassios, George, 91d:73005 and 91k:73012
- Kuttler, K. (with Aifantis, E. C.) Existence, uniqueness, and long-time behavior of materials with nonmonotone equations of state and higher-order gradients. 91f:73004
- Lennyuk, M. P. (with Suchanov, V. G.) A quasistatic problem in thermoelasticity for an infinite two-layer cylindrically anisotropic plate with a round hole. (Russian) 91e:73013
- (with Suchanov, V. G.) A quasistatic problem in thermoelasticity for an infinite three-layer cylindrically anisotropic plate with a circular hole. (Russian) 91k:73015
- (with Cheban, V. G.; Yakobets, D. S.) A coupled quasistatic problem of thermoelasticity for a two-component semibounded plate. (Russian) 91k:73016
- Levitas, V. I. The structure of constitutive equations for phase transitions in two-phase thermoelastoplastic composites. (Russian. English summary) 91k:73017
- Li, Xu A dual conservation law for thermoelasticity. 91c:73010
- Liu, I-Shih Extended thermodynamics of viscoelastic materials. 91d:73009
- Maksudov, F. G. (with Mamedov, Yu. M.) Potential theory for quasi-static problems of uncoupled thermoelasticity. 91f:73005
- Mamedov, Yu. M. see Maksudov, F. G., 91f:73005
- Manes, A. see Amendola, G., 91c:73008
- Meirmanov, A. M. (with Shemetov, N. V.) On the correctness of the phenomenological model of equilibrium phase transitions in a deformable elastic medium. 91j:73003
- Micunović, M. V. Materials with thermoplastic memory. (see 91m:00030)
- Miehe, C. see Wriggers, P.; et al., (91f:73001)
- Mokrik, R. I. (with Olyarnik, I. V.) Application of an ortho-exponential transformation to the study of nonstationary equations in thermoelasticity and thermoviscoelasticity. 91c:73011
- Montanaro, Adriano On the Clausius-Planck inequality within theories for differential materials. (Italian summary) 91m:73009
- Moodie, T. Bryant see Onck, T. S., 91c:73015
- Morro, Angelo (with Vianello, Maurizio) Minimal and maximal free energy for materials with memory. (Italian summary) 91b:73012
- Mrówka-Matejewska, Elżbieta see Ignaczak, József, 91d:73007
- Müller, Ingo On the size of the hysteresis in pseudoelasticity. 91a:73005
- Murat, François see Charalambakis, Nicolas, 91b:73008
- Nguyen Quoc Son Stabilité et bifurcation des systèmes dissipatifs standards à comportement indépendant du temps physique. (English summary) [Stability and bifurcation of time-independent standard dissipative systems] 91e:73014
- Nicolas, Pierre see Blanchard, Dominique; et al., 91e:73006
- Nowacki, J. P. (with Trimarco, C.) Note on thermal inclusion in elastic dielectric material. (Italian summary) 91h:73006
- Olyarnik, I. V. see Mokrik, R. I., 91c:73011
- Onck, T. S. (with Moodie, T. Bryant) Boundary-initiated wave phenomena in thermoelastic materials. 91c:73015
- Pereira, Duval Carvalho (with Perla Menzala, G.) Exponential decay of solutions to a coupled system of equations of linear thermoelasticity. (Portuguese summary) 91e:73016
- Perla Menzala, G. see Pereira, Duval Carvalho, 91e:73016
- Racke, Reinhard On the Cauchy problem in nonlinear 3-d thermoelasticity. 91e:73017
- Ranicki, B. (with Samanta, S. K.) The thermodynamic model of a rigid-plastic solid with kinematic hardening, plastic spin and orientation variables. (Russian and Polish summaries) 91m:73010
- Rokne, J. G. see Saxena, Hirdeshwar S.; et al., 91k:73018
- Romano, Antonio see Cimmelli, Vito Antonio; et al., 91g:73004
- Samanta, S. K. see Ranicki, B., 91m:73010
- Saxena, Hirdeshwar S. (with Dhaliwal, Ranjit S.) Eigenvalue approach to coupled thermoelasticity. 91c:73012
- (with Dhaliwal, Ranjit S.; Rokne, J. G.) Half-space problem in one-dimensional generalized magnetothermoelasticity. 91k:73018
- Scallia, Antonio On some theorems in the theory of micropolar thermoelasticity. 91a:73006
- see also Claretta, Michele, 91k:73011
- Shemetov, N. V. see Meirmanov, A. M., 91j:73003
- Simo, J. C. see Wriggers, P.; et al., (91f:73001)
- Starita, Giulio see Cimmelli, Vito Antonio, 91g:73003 and 91g:73004
- Starinans, F. J. M. (with Brekelmans, W. A. M.; Janssen, J. D.) A thermodynamic theory for a restricted class of contact behaviour. 91d:73010
- Struthers, Allan see Gurtin, Morton E., 91k:73014
- Suchanov, V. G. see Lennyuk, M. P., 91e:73013 and 91k:73015
- Trimarco, C. see Nowacki, J. P., 91h:73006
- Vasilevich, Yu. V. A contact problem of thermoelasticity for an orthotropic half-space. (Russian) 91j:73004
- Vianello, Maurizio see Morro, Angelo, 91b:73012
- Vianello, Augusto see Colli, Pierluigi; et al., 91b:73009
- Vukobrat, M. Dj. Conservation laws in thermoelastic membrane theory. (German and Serbo-Croatian summaries) 91c:73013
- Wegner, J. L. see Haddow, J. B., 91m:73006
- Wriggers, P. (with Miehe, C.; Kleiber, Michael; Simo, J. C.) On the coupled thermo-mechanical treatment of necking problems via finite-element-methods. (see 91f:73001)
- Wrebel, G. Netlike representation of the thermoelastic medium. (Russian and Bulgarian summaries) 91d:73011
- Yakobets, D. S. see Lennyuk, M. P.; et al., 91k:73016
- Zanzotto, Giovanni Thermoelastic stability of multiple growth twins in quartz and general geobarothermometric implications. (Italian summary) 91h:73007

Items with secondary classifications in 73B30

- Abd-Alla, Abo-el-Nour N. (with Maugin, Gérard A.) Nonlinear equations for thermoelastic magnetizable conductors. 91k:73002
- Aifantis, E. C. see Charalambakis, Nicolas; et al., 91m:73034
- Allam, M. A. M. On reduction of thermo-viscoelastic equations to integral equations. I. 91e:73019
- Álvarez Vázquez, L. J. (with Viano Rey, Juan M.) Obtaining a model of linear thermoelastic torsion in beams by asymptotic methods. (Spanish) (see 91j:00015)
- Anan, B. D. (with Kolpakov, A. G.) Design of laminated and fibrous composites with prescribed characteristics. 91m:73054
- Bassiouny, E. see Maugin, Gérard A., 91c:73072
- Bera, Rajajit Kumar see Mukhopadhyay, B., 91k:73062
- Bercia, Romeo Existence and uniqueness for linear thermoviscoelasticity of integral type. 91k:73058
- Berviller, Marcel see Sahar, Hafid; et al., 91c:73041
- Borrelli, Alessandra (with Patria, Maria Cristina) Discontinuity waves through a linear thermoviscoelastic solid of integral type. 91m:73039
- Brahim-Ottmane, Safia (with Francfort, Gilles A.; Murat, François) Homogenization in thermoelasticity. 91k:35243
- Bruno, Oscar P. The effective conductivity of an infinitely interchangeable mixture. 91i:73003
- Buisson, Mannel see Sahar, Hafid; et al., 91c:73041
- Cadet, S. see Maugin, Gérard A., 91k:73046
- Charalambakis, Nicolas (with Rigatos, A.; Aifantis, E. C.) The stabilizing role of higher-order strain gradients in nonlinear thermoviscoelasticity. 91m:73034
- Cleja-Tigoiu, Sanda Large elasto-plastic deformations for materials with relaxed configurations. II. Role of the complementary plastic factor. 91d:73032
- Clément, Philippe (with Prüss, Jan) Completely positive measures and Feller semigroups. 91d:45011
- Cocks, A. C. F. (with Leckie, F. A.) Creep constitutive equations for damaged materials. (see 91e:73003)
- Danilenko, V. A. (with Vladimirov, V. A.) Constitutive equations and the formulation of problems in continuum mechanics with internal variables. (Russian) 91j:73001
- Dascalu, Cristian Thermoelastomagnetic rigid materials with memory. 91j:73053
- Singular surfaces in the linear theory of thermoelastomagnetic rigid materials. 91k:73093
- Dinariev, O. Yu. Some properties of relaxation kernels in systems with heredity. 91d:80003
- Drugan, W. J. (with Shen, Yinong) Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations. 91g:73032a
- (with Shen, Yinong) Erratum: "Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations". 91g:73032b
- Edelen, Dominic G. B. (with Lagoudas, Dimitris C.) * Gauge theory and defects in solids. 91i:73041
- Ehlers, W. Eine neue thermodynamische Interpretation elastisch-plastischen Materialverhaltens. [A new thermodynamic interpretation of the behavior of elastoplastic materials] 91j:73024
- Eringen, A. Cemal Theory of thermo-microstretch fluids and bubbly liquids. 91a:76008

- Eve, R. A. (with Reddy, B. D.; Rockafellar, R. Tyrrell) An internal variable theory of elastoplasticity based on the maximum plastic work inequality. 91b:73021
- Fabrizio, Mauro (with Morro, Angelo) Fading memory spaces and approximate cycles in linear viscoelasticity. 91b:73047
- Feireisl, Eduard Forced vibrations in one-dimensional nonlinear thermoelasticity as a local coercive-like problem. 91b:73015
- Flyachok, V. M. Fundamental theorems of the generalized thermoelasticity of anisotropic shells. (Russian) 91g:73049
- Fosdick, Roger L. (with Warner, W. H.; Yu, J. H.) Steady, structured shock waves in a viscoelastic solid of differential type. 91b:73060
- Francfort, Gilles A. see Brahim-Ottomane, Safia; et al., 91k:35243
- Fusco, D. (with Manganaro, N.) Evolution equations compatible with quasilinear hyperbolic models involving source-like terms. 91b:35194
- Galanin, M. P. Construction and investigation of a difference scheme for a one-dimensional dynamic coupled problem of thermoelasticity. (Russian) 91k:73105
- Goi, I. O. see Kolyano, Yu. M., 91b:80009
- Golden, J. M. (with Graham, G. A. C.) Energy balance criteria for viscoelastic fracture. 91g:73057
- Gouin, Henri Variational theory of mixtures in continuum mechanics. 91j:80003
- Variational method for fluid mixtures of grade n . (see 91m:80030)
- Graham, G. A. C. see Golden, J. M., 91g:73057
- Griñafel, M. A. Instabilities and waves in heterogeneous systems. 91d:76043
- Gurtin, Morton E. On the isothermal motion of a phase interface. 91e:80006
- Hetnarski, Ryszard B. see Keene, Frank W., (Not in MR)
- Honein, T. see Simo, J. C., 91m:73035
- Iannace, Donatella (with Romano, Antonio) Solidification of small crystals and nonlocal theories. 91e:80015
- (with Romano, Antonio) Growth of macroscopic crystals and nonlocal theories. 91m:73004
- (with Romano, Antonio; Starita, Giulio) The Gibbs principle for the equilibrium of systems with two simple or composed phases. (Italian summary) 91d:80005
- Jiang, Song Far field behavior of solutions to the equations of nonlinear 1-D-thermoelasticity. 91f:35050
- (with Racke, Reinhard) On some quasilinear hyperbolic-parabolic initial-boundary value problems. 91e:35145
- Global existence of smooth solutions in one-dimensional nonlinear thermoelasticity. 91f:35194
- Rapidly decreasing behaviour of solutions in nonlinear 3-D-thermoelasticity. 91f:35032
- Kalamkarov, A. L. A thermoelastic problem for constructive-inhomogeneous shells of regular structure. 91h:73041
- see also Parton, V. Z.; et al., 91m:73022
- Kanann, S. K. (with Kudryavtseva, L. T.) Elastic and thermoelastic characteristics of composites that are reinforced by unidirectional layered fibers. 91a:73050
- Keene, Frank W. (with Hetnarski, Ryszard B.) Bibliography on thermal stresses in shells. (Not in MR)
- Kinderlehrer, David Phase transitions in crystals: towards the analysis of microstructure. 91f:35114
- (Kirchgässner, Klaus) see Problems involving change of type, 91b:35001
- Kolpakov, A. G. see Annin, B. D., 91m:73054
- Kolyano, Yu. M. (with Goi, I. O.) A nonclassical problem of heat conduction for crystals with inclusions. (Russian) 91b:80009
- Kudryavtsev, B. A. see Parton, V. Z.; et al., 91m:73022
- Kudryavtseva, L. T. see Kanann, S. K., 91a:73050
- Lagnese, John E. The reachability problem for thermoelastic plates. 91f:93018
- Lagoudas, Dimitris C. see Eden, Dominic G. B., 91b:73041
- Leckie, F. A. see Cocks, A. C. F., (91f:73003)
- Lels, R. Initial-boundary value problems in elasticity. 91d:35216
- Leroy, Yves M. see Molinari, Alain, 91b:73026
- Lin, Pei Xiong Maximization of entropy for an elastic body free of surface traction. 91j:73015
- Luca, Ioana Waves in a thermoviscoelastic half-space of integral type. 91a:73024
- Manganaro, N. see Fusco, D., 91b:35194
- Martin, John B. (with Nappi, A.) An internal variable formulation for perfectly plastic and linear hardening relations in plasticity. 91k:73053
- Maugin, Gérard A. (with Bassiouny, E.) Continuum thermodynamics of electromechanical hysteresis in ceramics. 91c:73072
- (with Cadet, S.) Existence of solitary waves in martensitic alloys. 91k:73046
- see also Pouget, Joël, 91c:73038; Sabir, M., 91c:73073 and Abd-Alla, Abo-el-Nour N., 91k:73092
- Molinari, Alain (with Leroy, Yves M.) Existence and stability of stationary shear bands with mixed-boundary conditions. (French summary) 91b:73026
- Monaco, R. On the approximation of continuum stochastic systems by a discrete stochastic system: a problem with moving boundary. 91k:35220
- Morro, Angelo see Fabrizio, Mauro, 91b:73047
- Mukherjee, Animesh (with Sengupta, P. R.) Surface waves in thermoviscoelastic media of higher order. 91m:73026
- Mekhopadhyay, B. (with Bera, Rajajit Kumar) Infinite viscoelastic solid containing distributed instantaneous and continuous heat sources with thermal relaxation. 91k:73062
- Mukoyama, Toyohiko On the Cauchy problem for quasilinear hyperbolic-parabolic coupled systems in higher-dimensional spaces. 91d:35148
- Müller, Stefan Minimizing sequences for nonconvex functionals, phase transitions and singular perturbations. 91f:49020
- Murst, François see Brahim-Ottomane, Safia; et al., 91k:35243
- Nappi, A. see Martin, John B., 91k:73053
- Necas, Jindřich Dynamic in the nonlinear thermo-visco-elasticity. (see 91m:35005)
- (with Roubíček, Tomáš) Approximation of a nonlinear thermoelastic problem with a moving boundary via a fixed-domain method. (Russian and Czech summaries) 91j:35290
- Nemish, Yu. N. ★ Элементы механики кусочно-однородных тел с неканоническими поверхностями раздела. (Russian) [Elements in the mechanics of piecewise homogeneous bodies with noncanonical interfaces] 91e:73026
- Niezgódka, Marek (with Sprekels, Jürgen) Convergent numerical approximations of the thermomechanical phase transitions in shape memory alloys. 91m:65309
- Nyashin, Yu. L. (with Trusov, P. V.) Residual stresses: calculation and control. (Russian. English summary) 91g:73018
- Ortner, Norbert (with Wagner, Peter²) Some new fundamental solutions. 91e:35067
- Parton, V. Z. (with Kudryavtsev, B. A.; Kalamkarov, A. L.) Generalization of the integral Fourier transform in boundary value problems of the mechanics of composites. 91m:73022
- Patria, Maria Cristina see Borrelli, Alessandra, 91m:73039
- Payne, Lawrence E. Continuous dependence on geometry with applications in continuum mechanics. 91f:35038
- Ponce, Gustavo (with Racke, Reinhard) Global existence of small solutions to the initial value problem for nonlinear thermoelasticity. 91g:35225
- Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. I. Basic equations. 91c:73038
- Povos, M. A note on the quasi-static problem of periodic linearized thermoviscoelasticity. 91f:73020
- Prüss, Jan see Clément, Philippe, 91d:45011
- Racke, Reinhard L^p - L^q -estimates for solutions to the equations of linear thermoelasticity in exterior domains. 91j:35051
- Blow-up in nonlinear three-dimensional thermoelasticity. 91b:35072
- see also Jiang, Song, 91c:35145 and Ponce, Gustavo, 91g:35225
- Reddy, B. D. see Eve, R. A.; et al., 91a:73021
- Rigatos, A. see Charalambakis, Nicolas; et al., 91m:73034
- Rockafellar, R. Tyrrell see Eve, R. A.; et al., 91a:73021
- Rogers, Robert C. On a linear model of mechanical phase transitions. 91j:80004
- Romano, Antonio see Iannace, Donatella, 91c:80015; 91d:80005 and 91m:73004
- Roubíček, Tomáš A finite-element approximation of Stefan problems in heterogeneous media. (see 91m:35004)
- see also Necas, Jindřich, 91j:35290
- Rousselet, Bernard Optimisation d'un système surfacique (équation de la chaleur). [Optimization of a surface system (the heat equation)] 91a:49012
- Sabar, Hafid (with Berveiller, Marcel; Buisson, Manuel) Problème d'inclusion à frontière mobile. (English summary) [An inclusion problem with moving boundary] 91c:73041
- Sabir, M. (with Maugin, Gérard A.) Microscopic foundations of the Barkhausen effect. (Russian and Polish summaries) 91c:73073
- Sachenkov, A. V. (with Timerbaev, R. M.) Application of general solutions of equations in elasticity theory to plate deformation problems. (Russian) 91k:73074
- Sengupta, P. R. see Mukherjee, Animesh, 91m:73026
- Shen, Yinong see Dragan, W. J., 91g:73032a and 91g:73032b
- Simo, J. C. (with Honein, T.) Variational formulation, discrete conservation laws, and path-domain independent integrals for elasto-viscoplasticity. 91m:73035
- Sobolevskii, P. E. Investigation of a mathematical model of thermoelasticity. 91a:34045
- Sofonea, Mircea Some remarks on the behaviour of the solution in dynamic processes for rate-type models. 91j:73026
- Sprekels, Jürgen (with Zheng, Song Mu) Global solutions to the equations of a Ginzburg-Landau theory for structural phase transitions in shape memory alloys. 91m:82097
- One-dimensional thermomechanical phase transitions with nonconvex potentials of Ginzburg-Landau type. 91g:35221
- see also Niezgódka, Marek, 91m:65309
- Starita, Giulio see Iannace, Donatella; et al., 91d:80005
- Steidten, T. Application of multigrid methods to mechanical and thermomechanical problems. (see 91k:65013)
- Stein, Claude Sur les équations générales de la dynamique des milieux continus anélastiques. (English summary) [On the general equations of the dynamics of inelastic continua] 91d:73012
- Suliciu, I. On modelling phase transitions by means of rate-type constitutive equations. Shock wave structure. 91c:73054
- Tang, Yong Jin see Wang, Xu Cheng, (Not in MR)
- Tarzia, Domingo Alberto On heat flux in materials with or without phase change. (see 91g:00044)
- Timerbaev, R. M. see Sachenkov, A. V., 91k:73074
- Trufanov, N. A. A three-dimensional problem of viscoelasticity for a structure made of a thermo-unstable material with volume relaxation. (Russian) (see 91k:00025)
- Trusov, P. V. see Nyashin, Yu. L., 91g:73018
- Vianello, Maurizio On Blinowski's second grade materials. 91d:73013
- Vialo Rey, Juan M. see Álvarez Vázquez, L. J., (91j:00015)
- Vladimirov, V. A. see Danilenko, V. A., 91j:73001
- Wagner, Peter² see Ortner, Norbert, 91e:35067
- Wang, Xu Cheng (with Tang, Yong Jin) A finite element analysis of temperature fields in general shells. (Chinese. English summary) (Not in MR)
- Warner, W. H. see Fosdick, Roger L.; et al., 91k:73060
- Yu, J. H. see Fosdick, Roger L.; et al., 91k:73060
- Yuan, Long Wei A nonlinear principle of viscoelastic-viscoplastic analogue. (Chinese summary) 91c:73045
- Zheng, Song Mu see Sprekels, Jürgen, 91m:82097

Items listed otherwise than by author

Conference:

- Problems Involving Change of Type ★ Problems involving change of type. 91b:35001
 Lecture Notes in Physics ★ Problems involving change of type. 91b:35001
 Problems involving change of type ★ Problems involving change of type. 91b:35001
 Stuttgart ★ Problems involving change of type. 91b:35001

73B35 Random materials

- Items with secondary classifications in 73B35
 Deodatis, George see Shinornika, Masanobu, 91m:73070

Shinozuka, Masanobu (with Deodatis, George) Simulation of stochastic processes by spectral representation. 91m:73070

73B40 Anisotropic materials

- Chadwick, P. (with Norris, A. N.) Conditions under which the slowness surface of an anisotropic elastic material is the union of aligned ellipsoids. 91j:73005
 Cowin, Stephen C. see Mehrabadi, Morteza M., 91c:73014
 Dongre, Changsong (with Ting, Thomas C. T.) Explicit expressions of Barnett-Lothe tensors and their associated tensors for orthotropic materials. 91a:73007
 Mehrabadi, Morteza M. (with Cowin, Stephen C.) Eigentensors of linear anisotropic elastic materials. 91c:73014
 Musgrave, M. J. P. On the constraints of positive-definite strain energy in anisotropic elastic media. 91j:73006
 Norris, A. N. see Chadwick, P., 91j:73005
 Ostrowska-Maciejewska, J. (with Rychlewski, Jan) Plane elastic and limit states in anisotropic solids. (Russian and Polish summaries) 91b:73013
 Philippidis, T. P. see Theocaris, Pericles S., 91m:73011
 Rychlewski, Jan see Ostrowska-Maciejewska, J., 91b:73013
 Theocaris, Pericles S. (with Philippidis, T. P.) Elastic eigenstates of a medium with transverse isotropy. (Russian and Polish summaries) 91m:73011
 Ting, Thomas C. T. see Dongre, Changsong, 91a:73007

Items with secondary classifications in 73B40

- Amelishko, D. N. see Komarov, G. V.; et al., 91c:73074
 Azhotkin, V. D. Gaussian beams of anisotropic Love waves and their summation. (Russian. English summary) 91m:73025
 Barkovskii, L. M. (with Borzdov, G. N.; Lavrinenko, A. V.) Evolution operators in crystal acoustics taking into account spatial dispersion. (Russian. English summary) 91g:73019
 Barnett, D. M. (with Lothe, J.; Gundersen, S. A.) Zero curvature transonic states and free surface waves in anisotropic elastic media. 91c:73028
 Borodich, F. M. Hertz contact problems for an elastic anisotropic half-space with initial stresses. 91a:73061
 — Dynamic contact of a blunt body with an anisotropic linearly elastic medium. 91a:73014
 Borrelli, Alessandra (with Patria, Maria Cristina) Discontinuity waves through a linear thermoviscoelastic solid of integral type. 91m:73039
 Borzdov, G. N. see Barkovskii, L. M.; et al., 91g:73019
 Budreck, David E. (with Rose, James H.) Three-dimensional inverse scattering in anisotropic elastic media. 91g:73022
 Bulavenko, E. V. On the Neumann problem for an operator of elasticity theory. 91c:35091
 Bulyshev, G. G. The characteristic form of equations in the dynamics of anisotropic elastoviscoplastic media. 91k:73055
 Buryachenko, V. A. see Parton, V. Z., 91k:73079
 Chandrasekharanah, D. S. (with Keshavan, H. R.) Thermoelastic plane waves in a transversely isotropic body. 91m:73007
 Dvoskin, L. M. see Komarov, G. V.; et al., 91c:73074
 Dzondzhorov, P. A uniqueness theorem for elastic media with special properties. (Russian. English and Bulgarian summaries) 91k:73013
 Elliott, Charles M. (with Mikelić, Andre; Shiller, M.) Constrained anisotropic elastic materials in unilateral contact with or without friction. 91k:73096
 Flyachak, V. M. Fundamental theorems of the generalized thermoelasticity of anisotropic shells. (Russian) 91g:73049
 Grigolyuk, E. I. (with Kulikov, G. M.) An analytic method for solving nonlinear problems in the theory of multilayered anisotropic plates. 91k:73070
 Gundersen, S. A. see Barnett, D. M.; et al., 91c:73028
 Huang, Xiao Ling The problem of equilibrium of an infinite anisotropic elastic plane surface with periodic rectilinear cracks. (Chinese) 91g:73014
 Hwu, Chyan Bin (with Ting, Thomas C. T.) Solutions for the anisotropic elastic wedge at critical wedge angles. 91k:73008
 Joly, Patrick Un nouveau résultat d'existence d'ondes guidées en milieu élastique hétérogène. (English summary) [A new existence result for guided waves in elastic heterogeneous media] 91k:73045
 Kalinin, V. M. see Voitsekhovskii, S. A., 91c:73006
 Kaloerov, S. A. Complex potentials in a plane problem of elasticity theory for a multiply connected anisotropic body with cracks. (Russian) 91k:73030
 Kardomateas, G. A. Bending of a cylindrically orthotropic curved beam with linearly distributed elastic constants. 91a:73033
 Keshavan, H. R. see Chandrasekharanah, D. S., 91m:73007
 Knops, R. J. A Phragmén-Lindelöf theorem for the free elastic cylinder. (Italian summary) 91m:73017
 Kobele, V. V. Isoperimetric inequalities in the anisotropic rod torsion problem. 91j:73047
 Komarov, G. V. (with Dvoskin, L. M.; Amelishko, D. N.) On an approach to the solution of a contact problem for a transversely isotropic half-space. (Russian) 91c:73074
 Kulikov, G. M. see Grigolyuk, E. I., 91k:73070
 Kulikovskii, A. G. Peculiarities of the behavior of nonlinear quasitransversal waves in an elastic medium with a small anisotropy. (Russian) 91c:73031
 Lavrinenko, A. V. see Barkovskii, L. M.; et al., 91g:73019
 Leissa, A. W. (with Martin, Antonio Fermin) Some exact plane elasticity solutions for nonhomogeneous, orthotropic sheets. 91c:73089
 Lenyuk, M. P. (with Sucheivan, V. G.) A quasistatic problem in thermoelasticity for an infinite two-layer cylindrically anisotropic plate with a round hole. (Russian) 91c:73013
 Lin, Yi-Han (with Wan, Frederic Y. M.) Semi-infinite orthotropic cantilevered strips and the foundations of plate theories. 91a:73038
 Lothe, J. see Barnett, D. M.; et al., 91c:73028
 Martin, Antonio Fermin see Leissa, A. W., 91c:73089
 Mikelić, Andre see Elliott, Charles M.; et al., 91k:73096
 Parton, V. Z. (with Buryachenko, V. A.) Stress fluctuations in elastic composites. 91k:73079
 Patria, Maria Cristina Discontinuity waves of order $r \geq 1$ in an inhomogeneous anisotropic linear elastic solid. 91c:73033

— see also Borrelli, Alessandra, 91m:73039

- Rose, James H. see Budreck, David E., 91g:73022
 Shiller, M. see Elliott, Charles M.; et al., 91k:73096
 Silber, G. Darstellungen höherstufig-tensorwertiger isotroper Funktionen. (English and Russian summaries) [Representations of higher-order tensor-valued isotropic functions] 91h:15033
 Sneddon, I. N. The problem of Boussinesq and Cerruti: a new approach to an old problem. 91g:73009
 Sucheivan, V. G. see Lenyuk, M. P., 91c:73013
 Soo, Zhigang Singularities, interfaces and cracks in dissimilar anisotropic media. 91a:73058
 Ting, Thomas C. T. see Hwu, Chyan Bin, 91k:73008
 Tonon, Maria Luisa Strain energy for a transversally isotropic elastic rod. (Italian. English summary) 91j:73023
 Tsikhizari, Z. E. Distribution of the eigenvalues of a problem on a transversally isotropic semicylinder. (Russian) 91b:35084
 Tvardovskii, V. V. Further results on rectilinear line cracks and inclusions in anisotropic medium. 91c:73102
 Vasilevich, Yu. V. A contact problem of thermoelasticity for an orthotropic half-space. (Russian) 91j:73004
 — Solution of the first fundamental problem for an orthotropic half-space. (Russian. English summary) 91c:73022
 Voitsekhovskii, S. A. (with Kalinin, V. M.) An estimate for the rate of convergence in W_2^1 -norm of the projection-difference scheme for the first boundary value problem in elasticity theory in the anisotropic case. (Russian) 91c:73086
 Wan, Frederic Y. M. see Lin, Yi-Han, 91a:73038

73B50 Stress concentrations

Chan, H. C. M. The principle of asymptotic proportionality. 91c:73015

Items with secondary classifications in 73B50

- Blum, Heribert Numerical treatment of corner and crack singularities. 91b:65122
 Brewster, M. E. see Moore, Andrew M.; et al., 91b:76042
 Buchukuri, T. V. (with Gegelia, T. G.) Boundary value problems in elasticity theory with concentrated singularities. 91a:35059
 Buchwald, V. T. see Moore, Andrew M.; et al., 91b:76042
 Destuynder, Philippe (with Michavila Pitarch, Francisco F.; Ousset, Yves; Santos, Anastasio) Utilisation du taux de restitution de l'énergie dans l'analyse à deux échelles de l'endommagement d'un joint collé. (English summary) [Use of the energy release rate in a two-scale damage analysis of a bonded joint] 91b:73076
 Dvorkin, George J. On uniform fields in heterogeneous media. 91g:73001
 Gegelia, T. G. see Buchukuri, T. V., 91a:35059
 Huang, Hong Ci see Ma, Mo, 91c:73115
 Kaloerov, S. A. Elastic equilibrium of a multiply connected isotropic plate with cracks. (Russian) 91k:73031
 Kanaun, S. K. (with Kudryavtseva, L. T.) Elastic and thermoelastic characteristics of composites that are reinforced by unidirectional layered fibers. 91a:73050
 Kudryavtseva, L. T. see Kanaun, S. K., 91a:73050
 Laurent-Gengoux, P. (with Neveu, D.) Calcul des singularités par la méthode des éléments finis. (English summary) [A finite-element computation of singularities] 91d:65173
 Michavila Pitarch, Francisco F. see Destuynder, Philippe; et al., 91b:73076
 Moore, Andrew M. (with Buchwald, V. T.; Brewster, M. E.) A Stokesian entry flow. 91b:76042
 Morar, G. A. (with Popov, G. Ya.) On the construction of discontinuous solutions in the three-dimensional theory of elasticity. (Russian) 91m:73018
 Movchan, N. V. (with Nazarov, S. A.) On the stress-deformed state near vertices of cones. 91j:73016
 Mu, Mo (with Huang, Hong Ci) Extrapolation acceleration and MG methods for calculating stress intensity factors on re-entrant domains. 91c:73115
 Nazarov, S. A. see Movchan, N. V., 91j:73016
 Neveu, D. see Laurent-Gengoux, P., 91d:65173
 Nowinski, J. L. On a three-dimensional Kelvin problem for an elastic nonlocal medium. 91k:73003
 Ousset, Yves see Destuynder, Philippe; et al., 91b:73076
 Popov, G. Ya. see Morar, G. A., 91m:73018
 Sadykhov, V. E. Stresses in a bi-elastic layer with a boundary shear crack. 91c:73069
 Santos, Anastasio see Destuynder, Philippe; et al., 91b:73076
 Vlasov, V. I. ★ Методы решения краевых задач и асимптотики решения при сингулярном деформировании области. (Russian) [Methods for solving boundary value problems and the asymptotic behavior of solutions in the case of the singular deformation of the domain] 91a:30040
 Vukobrat, M. Dj. Conservation laws in thermoelastic membrane theory. (German and Serbo-Croatian summaries) 91c:73013

73B99 None of the above, but in this section

- Bador, Janusz Quasi-abelian gauge theory of axisymmetric deformation of shells of revolution. 91c:73018
 — Extension of many-time Hamiltonian formalism to the theory of deformable bodies. 91k:73019
 Belov, P. A. see Obratsov, I. F.; et al., 91m:73014
 Benallal, Ahmed (with Billardon, René; Geymonat, Giuseppe) Phénomènes de localisation à la frontière d'un solide. (English summary) [Localization phenomena at the boundary of solids] 91g:73006
 Billardon, René see Benallal, Ahmed; et al., 91g:73006
 Borg, S. F. ★ Matrix-tensor methods in continuum mechanics. 91c:73019
 Butler, Hans Remark on the paper: "Configuration dependent pressure potentials" [J. Elasticity 19 (1988), no. 1, 77–84; MR 89m:73007] by D. Fisher. 91k:73020
 Cherepanov, G. P. Invariant integrals in continuum mechanics. 91j:73007

- Chopard, Bastien A cellular automata model of large-scale moving objects. 91c:73029
- Davini, C. (with Parry, G. P.) Invariants for defective crystals. (see 91m:00030)
- Del Piero, Giampaolo Recent developments in the mechanics of materials which do not support tension. 91m:73012
- Dokainish, M. A. see Underhill, W. R. C.; et al., 91g:73008
- Dong, Lian Ke (with Zhang, Hong Tu) Static conservation laws of incompatible deformations and their applications. (Chinese. English summary) 91f:73006
- Elpat'evskii, A. N. see Obratsov, I. F.; et al., 91m:73014
- Elhanowski, Marek (with Epstein, Marcelo) On uniformity and homogeneity of elastic materials with internal constraints. 91b:73014
- (with Epstein, Marcelo; Śniatycki, Jędrzej) G-structures and material homogeneity. 91j:73008
- Epstein, Marcelo see Elhanowski, Marek, 91b:73014 and 91j:73008
- Fisher, Dawn An analysis of some body forces and surface forces that are together conservative. 91b:73015
- see also Butler, Hans, 91k:73020
- Geymonat, Giuseppe see Benallal, Ahmed; et al., 91g:73006
- Gao, Zhong Heng Spin and rotation velocity of the stretching frame in continuum. 91h:73016
- Gurtin, Morton E. (with Struthers, Allan; Williams, William O.) A transport theorem for moving interfaces. 91b:73017
- Gur', A. N. (with Nemish, Yu. N.) ★ Метод возмущения формы границы в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007
- Haillig, R. R. Some remarks on the difference between a bounding surface and a material surface. 91g:73007
- Jiang, Qing see Li, Hao²; et al., 91j:73009
- Korsgaard, John On the representation of symmetric tensor-valued isotropic functions. 91k:73021
- On the representation of two-dimensional isotropic functions. 91m:73013
- Kranyk, M. Causal theories of evolution and wave propagation in mathematical physics. 91c:73016
- Li, Hao³ (with Lü, Yun Bing; Jiang, Qing) Noether's theory and its application to continuum mechanics. (Chinese) 91j:73009
- Lü, Yun Bing see Li, Hao²; et al., 91j:73009
- Loehr, C. P. (with Rubin, M. B.) The significance of projection operators in the spectral representation of symmetric second order tensors. 91k:73007
- Maugin, Gérard A. Sur la conservation de la pseudo-quantité de mouvement en mécanique et électrodynamique des milieux continus. (English summary) [On the balance law of pseudo-momentum in the mechanics and electrodynamics of continua] 91k:73022
- Mazlia, P. Green's operator for determination of the effective properties in random media. (see 91m:00030)
- Murdoch, A. I. A coordinate-free approach to surface kinematics. 91k:73023
- Nakagawa, Masahiro A theoretical study of smectic focal domains. 91a:73008
- Natsirovili, D. G. (with Svanadze, M. Zh.) Potential methods in the problems of linear theory of elastic mixtures. 91k:73024
- Nemish, Yu. N. see Gur', A. N., 91f:73007
- Obratsov, I. F. (with Elpat'evskii, A. N.; Belov, P. A.) A general approach to the formulation of linear models of media of different smoothness. 91m:73014
- Oravas, G. E. see Underhill, W. R. C.; et al., 91g:73008
- Parry, G. P. see Davini, C., (91m:00030)
- Rubin, M. B. see Loehr, C. P., 91k:73007
- Śniatycki, Jędrzej see Elhanowski, Marek; et al., 91j:73008
- Sobotka, Zdeněk Deformational relativity of rheological viscoelastic bodies. (Not in MR)
- Stolz, Claude Sur les équations générales de la dynamique des milieux continus anélastiques. (English summary) [On the general equations of the dynamics of inelastic continua] 91d:73012
- Struthers, Allan see Gurtin, Morton E.; et al., 91b:73017
- Svanadze, M. Zh. see Natsirovili, D. G., 91k:73024
- Turski, J. A principal fiber bundle formulation of the dynamics of pseudo-rigid bodies. 91c:73017
- Underhill, W. R. C. (with Dokainish, M. A.; Oravas, G. E.) On the derivation of Lagrangian strain tensors. 91g:73008
- Vergin, A. Metric-torsion gauge theory of continuum line defects. 91c:73018
- Vianello, Maurizio On Blinowski's second grade materials. 91d:73013
- Wheeler, Lewis On the derivatives of the stretch and rotation with respect to the deformation gradient. 91j:73010
- Williams, William O. see Gurtin, Morton E.; et al., 91b:73017
- Zhang, Hong Tu see Dong, Lian Ke, 91f:73006
- Items with secondary classifications in 73B99
- Ambrosio, Luigi Existence of minimal energy configurations of nematic liquid crystals with variable degree of orientation. 91h:58025
- Badur, Janusz Singular gauge transformations in dynamics of dislocations and disclinations. 91j:73056
- Beskos, D. E. see Manolis, G. D., 91c:73037
- de Boer, Reint (with Ehlers, W.) The development of the concept of effective stresses. 91c:73105
- Caricato, G. On the fundamental equation of the relativistic mechanics of a continuous system. (Italian summary) 91d:83075
- Casal, Pierre (with Gouin, Henri) Invariance properties of inviscid fluids of grade n . 91h:76004
- Cavaglia, Giacomo (with Morro, Angelo) Generalized symmetries and conservation laws: a Noether-type approach. 91m:58045
- (with Morro, Angelo) On the generation of conservation laws in viscoelasticity. 91c:73052
- (with Morro, Angelo) Conservation laws in viscoelasticity. 91g:73030
- Chen, Yi-Chao On strong ellipticity and the Legendre-Hadamard condition. 91m:73021
- Chertova, N. V. see Gulyaev, Yu. V., (Not in MR)
- Cohen, Robert Adam (with Taylor, Michael E.) Weak stability of the map $x/|x|$ for liquid crystal functionals. 91g:58053
- Dăneșcu, Alexandru Material symmetry in deformed configurations. 91k:73007
- Dav, F. (with Podio-Guidugli, Paolo) Stress and strain in a continuum in terms of coordinate transformations. (Italian. English summary) 91k:73025
- Deng, K. M. (with He, Z. X.; Long, Qi Wei; Wang, K. L.; Yang, J. L.) A new gauge field theory of a continuum with dislocations and disclinations. 91m:73064
- Drew, Donald A. Evolution of geometric statistics. 91h:76079
- Duan, Zhu Ping (with Huang, Y. L.) A four-dimensional nonlinear geometric theory of defect continuum. 91j:73057
- Dunwoody, J. Criteria for simple fluid dissipation. 91k:76011
- Edelen, Dominic G. B. A new look at the compatibility problem of elasticity theory. 91b:73049
- Ehlers, W. see de Boer, Reint, 91c:73105
- Epstein, Marcelo (with Maugin, Gérard A.) The energy-momentum tensor and material uniformity in finite elasticity. 91k:73064
- (with Maugin, Gérard A.) Sur le tenseur de moment matériel d'Eshelby en élasticité non linéaire. (English summary) [On Eshelby's material-moment tensor in nonlinear elasticity] 91d:73018
- Fazio, C. J. A study of the mathematical foundations of the endochronic theory of plasticity. 91h:73025
- Fedorov, A. F. see Fedorov, F. I., 91k:73049
- Fedorov, F. I. (with Fedorov, A. F.) On the structure of the Green-Christoffel tensor. 91k:73049
- Fosdick, Roger L. (with Hertog, Brian) The Maxwell relation and Eshelby's conservation law for minimizers in elasticity theory. 91c:73023
- Gambin, W. A model of rigid-ideally plastic crystal. (Russian and Polish summaries) 91g:73024
- A simplified model of rigid-ideally plastic crystal. (Russian and Polish summaries) 91g:73025
- Giaquinta, Mariano (with Modica, Giuseppe; Souček, Jiří) Liquid crystals: relaxed energies, dipoles, singular lines and singular points. 91m:58034
- Golubynskii, A. N. (with Plotnikov, S. I.) On the separation of energy from mass in inhomogeneous discrete mechanical systems. 91h:70025
- Gouin, Henri see Casal, Pierre, 91h:76004
- Gulyaev, Yu. V. (with Chertova, N. V.) Gauge theory of plastic deformation in continuum mechanics. (Not in MR)
- van Groesen, E. (with Mainardi, Francesco) Balance laws and centro velocity in dissipative systems. 91k:35152
- Guo, Zhong Heng Derivatives of the principal invariants of a second-order tensor. 91h:15009
- Hansen, Andrew C. Reexamining some basic definitions of modern mixture theory. 91a:73004
- Haupt, P. (with Tsakmakis, Ch.) On the application of dual variables in continuum mechanics. 91m:73002
- He, Z. X. see Deng, K. M.; et al., 91m:73064
- Hertog, Brian see Fosdick, Roger L., 91c:73023
- Hoger, Anne On the dead load boundary value problem. 91m:73041
- Hu, Cheng Dong (with Liu, Wei²; Wang, Zai Shen) The basic dynamical equations of multibody systems. I. (Chinese. English summary) 91h:73045
- Huang, Y. L. see Duan, Zhu Ping, 91j:73057
- James, Richard Dana (with Lipton, Robert; Lutoborski, Adam) Laminar elastic composites with crystallographic symmetry. 91c:73005
- Jodelt, Max, Jr. (with Olver, Peter J.) On the equation $\text{grad } f = M \text{ grad } g$. 91k:35054
- Karyakin, M. I. see Zubov, L. M., 91k:73095
- (Kohn, Robert V.) see Random media and composites, 91h:00052
- Lipton, Robert see James, Richard Dana; et al., 91c:73005
- Liu, Wei³ see Hu, Cheng Dong; et al., 91h:73045
- Long, Qi Wei see Deng, K. M.; et al., 91m:73064
- Lorot, Benjamin Acceleration waves in elastic-plastic porous media: interlacing and separation properties. 91k:73039
- Lutoborski, Adam see James, Richard Dana; et al., 91c:73005
- Mainardi, Francesco see van Groesen, E., 91k:35152
- Manolis, G. D. (with Beskos, D. E.) Boundary integral equation formulation for dynamic poroelasticity. 91c:73037
- Maugin, Gérard A. see Pouget, Joël, 91c:73039; Epstein, Marcelo, 91d:73018 and 91k:73064
- Maxian, Tina A. see Spilker, Robert L., 91f:73031
- Michopoulos, J. G. (with Theocaris, Pericles S.) The directional instability of the running crack: a deterministic and stochastic approach. (Not in MR)
- (Milton, Graeme W.) see Random media and composites, 91h:00052
- Modica, Giuseppe see Giaquinta, Mariano; et al., 91m:58034
- Morro, Angelo see Cavaglia, Giacomo, 91c:73052; 91g:73030 and 91m:58045
- Nigmatullin, R. R. (with Sutugin, N. N.) Structure of inhomogeneous media within the random fractal model. 91h:82065
- Olver, Peter J. see Jodelt, Max, Jr., 91k:35054
- Pitteri, Mario Some problems in nonlinear elasticity of crystalline solids. 91k:73035
- Plotnikov, S. I. see Golubynskii, A. N., 91h:70025
- Podio-Guidugli, Paolo see Dav, F., 91k:73025
- Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. II. Propagation of solitons. 91c:73039
- Powstenka, Yu. Z. Connection between nonmetric differential geometry and mathematical theory of imperfections. 91m:73065
- Remardy, Michael Local existence of solutions of the Dirichlet initial-boundary value problem for incompressible hypoelastic materials. 91k:35151
- Rubinstein, Jacob (with Torquato, Sal) Bounds on various electrostatic and hydrodynamic capacities. (see 91h:00052)
- Rychlewski, Jan Symmetry of tensor functions and a spectral theorem. (Russian. English summary) 91h:15034
- Rymasz, Cz. Boundary value problems for a filtration model of the linear theory of elasticity and their generalized solutions. (Russian and Polish summaries) 91c:73046

- Saxl, Ivan ★ Stereology of objects with internal structure. 91h:60020
 Scarpetta, Edoardo A uniqueness theorem in the nonlinear dynamics of elastic materials with voids. 91e:73059
 Sedov, L. I. Some remarks on the relativistic concepts of velocity and acceleration. 91f:3004
 Senčak, Jiří see Giacinto, Mariano; et al., 91m:58034
 Spilker, Robert L. (with Maxian, Tina A.) A mixed-penalty finite element formulation of the linear biphasic theory for soft tissues. 91f:73031
 Sutugin, N. N. see Nigmatullin, R. R., 91h:82065
 Taylor, Michael E. see Cohen, Robert Adam, 91g:58053
 Theocaris, Pericles S. see Michopoulos, J. G., (Not in MR)
 Tiersten, Harry F. ★ A development of the equations of electromagnetism in material continua. 91e:78012
 Torquato, Sai see Rubinstein, Jacob, (91b:00052)
 Tsakmakis, Ch. see Haupt, P., 91m:73002
 Wang, K. L. see Deng, K. M.; et al., 91m:73064
 Wang, Zai Shen see Hu, Cheng Dong; et al., 91h:73045
 Wilczek, Frank Gauge theory of deformable bodies. 91g:58090
 Yang, J. L. see Deng, K. M.; et al., 91m:73064
 Yin, Wan Lee Some kinematical results concerning steady flows and extensional flows. 91e:76005
 Zubov, L. M. (with Karyakin, M. I.) Dislocations and disclinations in nonlinearly elastic bodies with moment stresses. 91h:73095

Items listed otherwise than by author

- Leesburg, VA ★ Random media and composites. 91b:00052
 Random media and composites ★ Random media and composites. 91b:00052
 Workshop:
 Random Media and Composites ★ Random media and composites. 91b:00052

73Cxx Elasticity {For the biharmonic equation, see 31A30, 31B30.}

- Tahrousi, Rabah Errata: "On a class of nonconvex functionals, and applications" [SIAM J. Math. Anal. 21 (1990), no. 1, 37-52; (French) (Not in MR)]

73C02 Classical linear elasticity

- Abdu, Mokhamed Abdalla Akhmed see Mkhitarian, S. M., 91j:73011
 Adibi, H. see Jasson, M. A., (91b:00041)
 Arutyunyan, N. Kh. (with Movchan, A. B.; Nazarov, S. A.) Behavior of solutions of problems in elasticity theory in unbounded domains with paraboloidal and cylindrical inclusions or cavities. (Russian. English summary) 91h:73018
 Chandrasekharalah, D. S. A complete solution in elastodynamics. 91m:73015
 Ciares, Alberto Explicit L^2 estimate for the solutions of the elasticity system. (Italian. English summary) 91h:73019
 — Upper-bound formulas and completeness theorems for the three-dimensional elasticity system. (Italian. English summary) 91h:73020
 Constanta, C. ★ A mathematical analysis of bending of plates with transverse shear deformation. 91m:73016
 Dhaliwal, Ranjit R. The Reissner-Sagoci problem for a nonhomogeneous elastic half-space. 91e:73021
 Gomilko, A. M. (with Grichenko, V. T.) Convergence of expansions in homogeneous solutions in a two-dimensional problem for a half-strip with nonsmooth loads. 91h:73021
 Grichenko, V. T. see Gomilko, A. M., 91h:73021
 Heise, U. Mechanical aspects in the formulation of elastostatic problems as boundary integral equations. (see 91b:00043)
 Hwa, Chyan Bin (with Ting, Thomas C. T.) Solutions for the anisotropic elastic wedge at critical wedge angles. 91h:73008
 Ito, Hiroya Extended Korn's inequalities and the associated best possible constants. 91h:73025
 Jasson, M. A. (with Adibi, H.) The two-dimensional Papkovitch-Neuber formula. (see 91b:00041)
 Kachalovskaya, N. E. (with Ulitko, A. F.) Equilibrium of an elastic medium with ellipsoidal inhomogeneity with smooth contact on its boundary. (Russian) 91d:73014
 Knope, R. J. A Phragmén-Lindelöf theorem for the free elastic cylinder. (Italian summary) 91m:73017
 Kondrat'ev, V. A. (with Oleinik, O. A.) Hardy's and Korn's type inequalities and their applications. (Italian summary) 91h:73026
 Kwon, Kil H. see Yoo, Yung M.; et al., 91j:73012
 Mkhitarian, S. M. (with Abdu, Mokhamed Abdalla Akhmed) On the comparison of different methods for solving the Carleman integral equation that arises in elasticity theory. (Russian. Armenian summary) 91j:73011
 Morar, G. A. (with Popov, G. Ya.) On the construction of discontinuous solutions in the three-dimensional theory of elasticity. (Russian) 91m:73018
 Movchan, A. B. Polarization and Wiener capacity matrices for an operator in elasticity theory in doubly connected domains. (Russian) 91h:73009
 — see also Arutyunyan, N. Kh.; et al., 91h:73018
 Nazarov, S. A. see Arutyunyan, N. Kh.; et al., 91h:73018
 Nyashin, Yu. I. see Shragin, I. V., 91h:73010
 Oleinik, O. A. see Kondrat'ev, V. A., 91h:73026
 Park, Chan W. see Yoo, Yung M.; et al., 91j:73012
 Popov, G. Ya. see Morar, G. A., 91m:73018
 Puro, A. E. Separation of equations in elasticity theory of inhomogeneous bodies. (Russian. English and Estonian summaries) 91h:73022
 Savva, Ya. G. Boundary value and variational problems for a combined mathematical model in elasticity theory. (Russian) 91h:73027
 Shragin, I. V. (with Nyashin, Yu. I.) Formulation of a boundary value problem for determining residual stresses. (Russian) 91h:73010
 Sneedon, I. N. The problem of Boussinesq and Cerruti: a new approach to an old problem. 91g:73009
 Ting, Thomas C. T. see Hwa, Chyan Bin, 91h:73008
 Ulitko, A. F. see Kachalovskaya, N. E., 91d:73014
 Wang, Min Zhong see Wang, Wei⁴, 91m:73019
 Wang, Wei⁴ (with Wang, Min Zhong) On single-valuedness of the Papkovitch-Neuber general solution in two-dimensional elasticity. 91m:73019
 Yoo, Yung M. (with Park, Chan W.; Kwon, Kil H.) A mathematical study of the boundary integral equation of linear elasticity. 91j:73012
 Items with secondary classifications in 73C02
 Angel, Y. C. On the static and dynamic equilibrium of concentrated loads in linear acoustics and linear elasticity. 91h:73016
 Aufranc, Martial Plaques raidies par des poutres. (English summary) [Plates stiffened by rods] 91h:73024
 Borodich, F. M. Dynamic contact of a blunt body with an anisotropic linearly elastic medium. 91a:73014
 Buchukari, T. V. (with Gegelia, T. G.) Boundary value problems in elasticity theory with concentrated singularities. 91a:35059
 Bugrov, A. N. The method of fictitious domains in problems of the linear theory of elasticity with nonhomogeneous boundary conditions of the first kind. (Russian) 91h:73057
 Belavenko, E. V. On the Neumann problem for an operator of elasticity theory. 91e:35091
 Chadwick, P. (with Norris, A. N.) Conditions under which the slowness surface of an anisotropic elastic material is the union of aligned ellipsoids. 91h:73005
 Chekhov, V. N. see Gur', A. N.; et al., 91j:73037
 Chen, Dal-Heng (with Nisitani, Hironobu; Noguchi, Hiroshi) Analysis of elastodynamic problems based on the principle of superposition. Extension of the body force method to elastodynamic problems. 91d:73030
 Ciares, Alberto A complement to the theory of elastostatics with non-absolutely continuous data. (Italian summary) 91e:73020
 Claret, Philippe G. (with Miara, Bernadette) Justification d'un modèle bidimensionnel de coque "peu profonde" en élasticité linéarisée. (English summary) [Justification of a two-dimensional shallow shell model in linearized elasticity] 91h:73037
 Dahlberg, Björn E. J. (with Kenig, Carlos E.) L^p estimates for the three-dimensional systems of elastostatics on Lipschitz domains. 91h:35053
 Darmaev, T. G. (with Liselkin, V. D.) Application of special transformations for the numerical solution of a one-dimensional problem in the theory of elasticity and shells. (Russian) 91g:73066
 Deineka, V. S. see Sergienko, I. V.; et al., 91j:73022
 Dejalnash, M. A. see Underhill, W. R. C.; et al., 91g:73008
 Dyszlewicz, Janusz (with Kolodziej, Czesław) Second dynamic, axially-symmetric problem of micropolar theory of elasticity. (French, Russian and Polish summaries) 91h:73003
 — (with Kolodziej, Czesław) Axial-symmetric Lamb problems in micropolar theory of elasticity. (French, Russian and Polish summaries) 91h:73004
 Freeden, Willi (with Gervens, Theo; Mason, John C.) A minimum norm interpolation method for determining the displacement field of a homogeneous isotropic elastic body from discrete data. 91d:73065
 Gegelia, T. G. see Buchukari, T. V., 91a:35059
 Gervens, Theo see Freeden, Willi; et al., 91d:73065
 Gomilko, A. M. (with Grichenko, V. T.; Meleshko, V. V.) Homogeneous solutions in a problem on the equilibrium of an elastic cylinder of finite length. (Russian) 91e:73076
 Goodwell, G. (with Whiteman, J. R.) Pointwise superconvergence of recovered gradients for piecewise linear finite element approximations to problems of planar linear elasticity. 91h:73081
 Grichenko, V. T. see Gomilko, A. M.; et al., 91e:73076
 Gur', A. N. (with Korzh, V. P.; Chekhov, V. N.) Stability of a layered half-plane under the action of surface distributed loads. 91j:73037
 Hanson, M. T. (with Keer, L. M.) A simplified analysis for an elastic quarter-space. 91j:73059
 Hargé, Thierry Valeurs propres d'un corps élastique. (English summary) [Eigenvalues for an elastic body] 91j:73020
 Ha, Hal Chang Necessary and sufficient conditions for correct use of generalized variational principles of elasticity in approximate solutions. 91e:73118
 Huang, Hong Ci see Ma, Mo, 91e:73115
 Isakimidis, N. I. Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems. 91h:73048
 Jung, Michael (with Langer, Ulrich¹; Semmler, Ulrich) Two-level hierarchically preconditioned conjugate gradient methods for solving linear elasticity finite element equations. 91e:65082
 Kalinichenko, V. I. (with Koshchil, V. F.) Dual methods in elasticity theory. (Russian) 91h:73106
 Kamenetskii, D. S. (with Ryaben'kii, V. S.) Solution of boundary value problems for the Laplace equation in a domain with a cut by the method of difference potentials. (Russian) 91j:65172
 Karchevskii, M. M. see Voloshanovskaya, S. N., 91h:73030
 Keer, L. M. see Hanson, M. T., 91j:73059
 Kenig, Carlos E. see Dahlberg, Björn E. J., 91h:35053
 Kolodziej, Czesław see Dyszlewicz, Janusz, 91h:73003 and 91h:73004
 Kupets, A. S. Quasiregular solutions for systems of differential equations of hypoelliptic type. 91h:35046
 Korobitsyna, Zh. L. (with Kuznetsov, S. B.) Numerical realization of the method of fictitious domains for an axisymmetric static problem in elasticity theory. (Russian) 91e:73113
 Korzh, V. P. see Gur', A. N.; et al., 91j:73037
 Koshchil, V. F. see Kalinichenko, V. I., 91h:73106
 Kovalenko, E. V. More precise equations for the deformation of elastic plates. 91h:73060
 Kuznetsov, S. B. see Korobitsyna, Zh. L., 91e:73113
 Kuznetsov, Yuri Alekseevich (with Obozgin, G. K.) ★ Многосеточный метод для трехмерной задачи теории упругости. (Russian) [A multigrid method for a three-

- dimensional problem in elasticity theory] 91f:73047
- Langer, Ulrich¹ *see* Jung, Michael; et al. 91f:65082
- Lazarev, M. I. (with Matekhin, N. A.) Boundary value problems in stresses. (Russian) 91h:35106
- Lisetskii, V. D. *see* Darmaev, T. G., 91g:73066
- Litvinov, V. G. (with Rubezhanskii, Yu. I.) Convergence of solutions of problems in Timoshenko's theory of shells to the solution of problems in Kirchhoff-Love theory. (Russian) 91j:73045
- Mason, John C. *see* Freeden, Willi; et al. 91d:73065
- Matekhin, N. A. *see* Lazarev, M. I., 91h:35106
- Maz'ya, V. G. Inversion formulas for boundary integral equations and their applications. (Russian) 91d:45012
- Meleshko, V. V. *see* Gomilko, A. M.; et al., 91e:73076
- Miura, Bernadette *see* Clariet, Philippe G., 91h:73037
- Movchan, A. B. (with Nazarov, S. A.) A stressed-deformed state near the vertices of a three-dimensional absolutely rigid peak that penetrates an elastic body. 91d:73060
- Mu, Me (with Huang, Hong Ci) Extrapolation acceleration and MG methods for calculating stress intensity factors on re-entrant domains. 91e:73115
- Mugrave, M. J. P. On the constraints of positive-definite strain energy in anisotropic elastic media. 91j:73066
- Nazarov, S. A. Behavior at infinity of the solutions of Lamé and Stokes systems in a sector of a layer. (Russian. Armenian summary) 91g:35049
- Elliptic inequalities for thin elastic bodies with a small friction coefficient. 91h:35139
- *see also* Movchan, A. B., 91d:73060
- Nikiforovskii, S. V. Two-sided estimates for the eigenvalues of the Lamé operator in a difference variant. (Russian) 91e:73114
- Nisltant, Hiroshi *see* Chen, Dai-Heng; et al., 91d:73030
- Noguchi, Hiroshi *see* Chen, Dai-Heng; et al., 91d:73030
- Norris, A. N. *see* Chadwick, P., 91j:73005
- Oravas, G. A. *see* Underhill, W. R. C.; et al., 91g:73008
- Osgood, G. K. *see* Kuznetsov, Yuri Aleksandrovich, 91h:73047
- Päivrinta, Lassi The behaviour of fields near a corner of a flat plate. 91f:35081
- Philippidis, T. P. *see* Theocaris, Pericles S., 91m:73011
- Piltner, R. (with Taylor, Robert Leroy) A boundary element algorithm using compatible boundary displacements and tractions. 91a:73076
- Rubezhanskii, Yu. I. *see* Litvinov, V. G., 91j:73045
- Ryaben'ki, V. S. *see* Kamenetskii, D. S., 91j:65172
- Sachl, Pier Luigi On the problem of torsion in finite elasticity. II. Some general remarks in the case of uniform torsion. 91e:73058
- Sachenkov, A. V. (with Timerbaev, R. M.) Application of general solutions of equations in elasticity theory to plate deformation problems. (Russian) 91k:73074
- Saffellin, E. G. *see* Strehlov, E. V., 91g:73068
- Semenov, V. I. Saint-Venant conditions for quasiconformal deformations. 91k:30057
- Semmler, Ulrich *see* Jung, Michael; et al., 91f:65082
- Sergienko, I. V. (with Deineka, V. S.; Skorpetskii, V. V.) ★ Задача о динамическом равновесии среди тонких малопроизвольных включений, их собственных значений и формах. (Russian) [Problems on the dynamic equilibrium of media with thin low-durability inclusions, their eigenvalues and forms] 91j:73022
- Skorpetskii, V. V. *see* Sergienko, I. V.; et al., 91j:73022
- Skorokhodov, S. L. Analytic solution of the Dirichlet problem for T-shaped and cross-shaped domains. (Russian) 91j:35040
- Strehlov, E. V. A difference scheme for the first boundary value problem in elasticity theory for bodies of revolution. (Russian) 91g:73067
- (with Saffellin, E. G.) The iterative method of variable directions for solving a problem in elasticity theory for bodies of revolution. (Russian) 91g:73068
- Taylor, Robert Leroy *see* Piltner, R., 91a:73076
- Theocaris, Pericles S. (with Philippidis, T. P.) Elastic eigenstates of a medium with transverse isotropy. (Russian and Polish summaries) 91m:73011
- Timerbaev, R. M. *see* Sachenkov, A. V., 91k:73074
- Toson, Maria Luisa Strain energy for a transversally isotropic elastic rod. (Italian. English summary) 91k:73023
- Tsikhlistav, Z. E. Distribution of the eigenvalues of a problem on a transversally isotropic semicylinder. (Russian) 91h:35084
- Underhill, W. R. C. (with Dokainish, M. A.; Oravas, G. A.) On the derivation of Lagrangian strain tensors. 91g:73008
- Veloshanovskaya, S. N. (with Karchevskii, M. M.) On the solvability of a problem on the geometrically nonlinear bending of a nonclosed spherical shell. (Russian) 91i:73030
- Whiteman, J. R. Calculation of the forms of singularities in elliptic boundary value problems. (see 91m:65065)
- *see also* Goodsell, G., 91c:73081
- Xu, Hai Xiang The problem of multiple solutions for systems of second-order quasilinear elliptic Euler equations in $W^{1,p}_0(\Omega, \mathbb{R}^n)$. (Chinese) 91h:35039
- Yakhno, V. G. ★ Обратные задачи для дифференциальных уравнений упругости. (Russian) [Inverse problems for differential equations of elasticity] 91m:73030

73C03 Complex variable techniques (1985)

- Silvestrov, V. V. The first and the second fundamental problems in elasticity theory on a double-sheeted Riemann surface. (Russian) (see 91b:00025)

73C05 Stress functions

- Huettli, Stephen P. Some comments on the optimization problem for shear stress magnitude. 91k:73028
- Ton Tran Cong On the completeness of the Papkovitch-Neuber solution. 91e:73022
- Wang, Lu Nan *see* Wang, Min Zhong, 91b:73023
- Wang, Min Zhong (with Wang, Lu Nan) Derivation of some special stress function from Beltrami-Schaefer stress function. 91h:73023

Items with secondary classifications in 73C05

- Chandrasekharalah, D. S. A complete solution in elastodynamics. 91m:73015
- Morozov, N. F. *see* Movchan, A. B.; et al., 91c:73068
- Movchan, A. B. (with Morozov, N. F.; Nazarov, S. A.) A three-dimensional crack with smoothly joining edges. (Russian. English summary) 91c:73068
- Nazarov, S. A. *see* Movchan, A. B.; et al., 91c:73068
- Rvachev, M. A. On statically possible fields in simply connected volumes. 91h:35265
- Xie, Wei An Problems of finite plates with cracks. (Chinese. English summary) 91c:73071

73C10 Saint-Venant's principle

- Horgan, Cornelius O. (with Payne, Lawrence E.) On Saint-Venant's principle in finite anti-plane shear: an energy approach. 91a:73009
- Knops, R. J. (with Rionero, Salvatore; Payne, Lawrence E.) Saint-Venant's principle on unbounded regions. 91f:73008
- Mielke, Alexander Corrigendum to: "Saint-Venant's problem and semi-inverse solutions in nonlinear elasticity" [Arch. Rational Mech. Anal. 102 (1988), no. 3, 205-229; MR 89h:73016]. 91f:73009
- Payne, Lawrence E. *see* Horgan, Cornelius O., 91a:73009 and Knops, R. J.; et al., 91f:73008
- Rionero, Salvatore *see* Knops, R. J.; et al., 91f:73008
- Sánchez-Palencia, E. Notes on the Saint-Venant principle for nonelongated bodies. (Spanish) 91h:73011

Items with secondary classifications in 73C10

- Arutyunyan, N. Kh. (with Movchan, A. B.; Nazarov, S. A.) Behavior of solutions of problems in elasticity theory in unbounded domains with paraboloidal and cylindrical inclusions or cavities. (Russian. English summary) 91h:73018
- Bogen, Yu. A. An estimate of Saint-Venant type for an equation of composite type. (Russian) 91j:35192
- Kesavan, S. Symmetrization and isoperimetric inequalities. (see 91e:00036)
- Knops, R. J. A Phragmén-Lindelöf theorem for the free elastic cylinder. (Italian summary) 91m:73017
- Mielke, Alexander Normal hyperbolicity of center manifolds and Saint-Venant's principle. 91e:58171
- Movchan, A. B. *see* Arutyunyan, N. Kh.; et al., 91h:73018
- Nazarov, S. A. *see* Arutyunyan, N. Kh.; et al., 91h:73018
- Zalewska, M. The energy estimates of solutions of the Neumann boundary value problem in irregular domains. (Russian and Polish summaries) 91j:35098

73C15 Uniqueness theorems

- Constantinescu, Andrei An uniqueness theorem for an elastic body containing a cavity having a singular line. 91a:73010

Items with secondary classifications in 73C15

- Dzhondzhorov, P. A uniqueness theorem for elastic media with special properties. (Russian. English and Bulgarian summaries) 91k:73013
- Horgan, Cornelius O. (with Payne, Lawrence E.; Simmonds, J. G.) Existence, uniqueness, and decay estimates for solutions in the nonlinear theory of elastic, edge-loaded, circular tubes. 91h:73024
- Knops, R. J. (with Rionero, Salvatore; Payne, Lawrence E.) Saint-Venant's principle on unbounded regions. 91f:73008
- Kondrat'ev, V. A. (with Oleinik, O. A.) Hardy's and Korn's type inequalities and their applications. (Italian summary) 91k:73026
- Lyantse, V. E. (with Storozh, O. G.) A nonclassical boundary value problem in the theory of plates. (Russian. English summary) 91d:73015
- Oleinik, O. A. *see* Kondrat'ev, V. A., 91k:73026
- Payne, Lawrence E. *see* Horgan, Cornelius O.; et al., 91h:73024 and Knops, R. J.; et al., 91f:73008
- Rionero, Salvatore *see* Knops, R. J.; et al., 91f:73008
- Schlaiffler, Peter Uniqueness in dynamic problems of thin micropolar plates. (Not in MR)
- Simmonds, J. G. *see* Horgan, Cornelius O.; et al., 91h:73024
- Storozh, O. G. *see* Lyantse, V. E., 91d:73015

73C25 Thermal stress problems (1985)

- Fedichev, A. F. Asymptotics of eigenvalues in spectral problems in interconnected thermoelasticity. (Russian) (see 91b:00025)

73C30 Anisotropic bodies (1985)

Items with secondary classifications in 73C30

- Kreis, A. A different approach to 2-dimensional boundary element method in orthotropic linear elasticity theory. (see 91b:00043)

73C35 Mixed boundary value problems [see also 45F05]

- Abramyan, B. L. Some dual integral equations with Bessel functions that are encountered in problems in elasticity theory. (Russian. Armenian summary) 91j:73013
- Afyan, B. A. (with Stepanyan, S. P.) The stressed state of an elastic half-plane that is weakened by finite and semi-infinite cracks. (Russian. Armenian summary) 91c:73019
- Antipov, Yu. A. Analytic solution of a two-dimensional problem for a half-plane with a crack that is close to the boundary. (Russian) 91g:73010
- Bardzokas, Dem. (with Parton, V. Z.; Theocaris, Pericles S.) A plane problem in elasticity theory for an orthotropic domain with defects. 91k:73029
- Boiko, A. V. (with Karpenko, L. N.) On an integral equation of the problem for an elastic strip with a slit. 91h:73008

- Brillard, Alain (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Un problème d'homogénéisation de frontière en élasticité linéaire pour un corps cylindrique. (English summary) [A boundary homogenization problem in linear elasticity for a cylindrical body] 91g:73011
- Bui, Huy Duong Symétrie, dualité et variables conjuguées dans les équations intégrales de frontière. (English summary) [Symmetry, duality and conjugate variables in boundary integral equations] 91g:73012
- Cialdea, Alberto A complement to the theory of elastostatics with non-absolutely continuous data. (Italian summary) 91c:73020
- Dobrushkin, V. A. * Красные задачи динамической теории упругости для клиновидных областей. (Russian) [Boundary value problems of the dynamic theory of elasticity for wedge-shaped domains] 91c:73023
- Fabrikant, V. I. * Applications of potential theory in mechanics. 91g:73013
- Filshin, L. A. Periodic solutions in the theory of elasticity and electroelasticity for a cylinder in R^3 . (Russian) 91c:73012
- Flavin, J. N. Upper estimates for an elastostatic displacement problem. 91c:73024
- Gober, A. T. see Pak, R. Y. S., 91g:73015
- Gomilko, A. M. (with Grichenko, V. T.; Meleshko, V. V.) The method of homogeneous solutions in a mixed problem for an elastic half-strip. 91a:73011
- Grichenko, V. T. see Gomilko, A. M.; et al., 91a:73011
- Huang, Xiao Ling The problem of equilibrium of an infinite anisotropic elastic plane surface with periodic rectilinear cracks. (Chinese) 91g:73014
- Jiang, Chi Ping see Liu, You Wen, (Not in MR)
- Kaloev, S. A. Complex potentials in a plane problem of elasticity theory for a multiply connected anisotropic body with cracks. (Russian) 91k:73030
- Elastic equilibrium of a multiply connected isotropic plate with cracks. (Russian) 91k:73031
- Karpenko, L. N. see Botko, A. V., 91h:73008
- Kech, W. W. A unified proof for the uniqueness of solution to mixed boundary-value problems for both elasticity and viscoelasticity theory. 91h:73009
- Khrapkov, A. A. see Zlatin, A. N., 91j:73014
- Kovalenko, G. P. Reduction of boundary value problems in the theory of elasticity of inhomogeneous media to systems of integral equations. (Russian) 91k:73032
- Kuliev, S. A. On the solution of problems in elasticity theory by the method of analytic functions. 91k:73010
- Ladopoulos, E. G. see Zisis, V. A., 91h:73011
- Lit'kov, A. M. (with Mogilevskaia, S. G.) Hypersingular integrals in two-dimensional problems in elasticity theory. 91c:73025
- Liu, You Wen (with Jiang, Chi Ping) Problems of collinear cracks between bonded dissimilar materials under antiplane concentrated forces. (Not in MR)
- Lobo-Hidalgo, Miguel see Brillard, Alain; et al., 91g:73011
- Lomonosov, L. N. The first fundamental problem on the axisymmetric stressed state of a space with two spherical cavities. (Russian) (Not in MR)
- Lyantse, V. E. (with Storozh, O. G.) A nonclassical boundary value problem in the theory of plates. (Russian. English summary) 91d:73015
- Meleshko, V. V. see Gomilko, A. M.; et al., 91c:73011
- Mogilevskaia, S. G. see Lit'kov, A. M., 91c:73025
- Nemish, Yu. N. * Элементы механики кусочно-однородных тел с неканоническими поверхностями раздела. (Russian) [Elements in the mechanics of piecewise homogeneous bodies with noncanonical interfaces] 91c:73026
- Nikolaev, A. G. (with Protosenko, V. S.) The first and the second fundamental axisymmetric problems in elasticity theory for doubly connected domains bounded by the surfaces of a sphere and a spheroid. 91d:73016
- Nüller, B. M. (with Slepian, A. L.) A class of mixed problems in elasticity theory for a strip and a wedge that are solvable in quadratures. (Russian) 91k:73033
- Oakes, Alexandria Testing convergence schemes on the solution of two-dimensional boundary value problems in elasticity. 91d:73017
- Osip, P. N. Modification of singular integral equations for two-dimensional problems in elasticity theory for an arbitrary multiply connected domain with a rectilinear cut. (Russian) 91k:73034
- Pak, R. Y. S. (with Gober, A. T.) On the axisymmetric interaction of a rigid disc with a semi-infinite solid. (French summary) 91g:73015
- Parton, V. Z. see Bardokas, Dem.; et al., 91k:73029
- Pérez, Eugenia see Brillard, Alain; et al., 91g:73011
- Protosenko, V. S. see Nikolaev, A. G., 91d:73016
- Prasov, A. I. Solution of a mixed problem in elasticity theory for a strip that lies on a rigid foundation. (Russian. English summary) (Not in MR)
- Shardakov, I. N. Solving boundary value problems of inhomogeneous elastic bodies by the method of geometric imbedding in a differential formulation. (Russian) 91c:73021
- Shvestov, V. V. Fundamental problems in elasticity theory on a multi-sheeted Riemann surface. (Russian) 91c:73013
- On the elastic stress and strain state near a spatial crack on a two-sheeted surface. 91c:73010
- Slepian, A. L. see Nüller, B. M., 91k:73033
- Stepanyan, S. P. see Aftan, B. A., 91c:73019
- Storozh, O. G. see Lyantse, V. E., 91c:73015
- Theocaris, Pericles S. see Bardokas, Dem.; et al., 91k:73029
- Vasilevich, Yu. V. Solution of the first fundamental problem for an orthotropic half-space. (Russian. English summary) 91c:73022
- Yin, Chang Yan (with Zu, Cheng De) Plane problems of a finite disc containing an internal crack. (Not in MR)
- Zisis, V. A. (with Ladopoulos, E. G.) Singular integral approximations in Hilbert spaces for elastic stress analysis of a circular ring with curvilinear cracks. 91h:73011
- Ziyev, M. Reduction of a mixed problem in elasticity theory for a rectangle to a singular integro-differential equation. (Russian. Tajiki summary) (Not in MR)
- Zlatin, A. N. (with Khrapkov, A. A.) An elastic half-plane that is weakened by a semi-infinite crack that is parallel to its boundary. (Russian) 91j:73014
- Zu, Cheng De see Yin, Chang Yan, (Not in MR)
- Items with secondary classifications in 73C35
- Abdu Mokhamed Abdalla Akhmed see Mkhitarany, S. M., (Not in MR)
- Aizkovich, S. M. Asymptotic solution of a class of dual equations for small values of the parameter. 91m:45006
- Aleksandrov, Viktor Mikhailovich (with Kudish, I. I.) Asymptotic methods in the Griffith problem. 91a:73055
- Ang, W. T. A pair of arbitrarily-oriented coplanar cracks in an anisotropic elastic slab. (Not in MR)
- Babeshko, V. A. On the nonuniqueness of solutions of dynamic mixed problems for systems of stamps. 91c:73038
- Bakhvalov, N. S. * Решение первой краевой задачи для системы уравнений теории упругости методом фиктивных областей. (Russian) [Solution of the first boundary value problem for a system of equations in elasticity theory by the method of fictitious domains] 91d:65194
- Becker, Ingo see Schnack, Eckart; et al., (91b:00041)
- Belkikhina, I. G. On an analysis of the difference solution of a crack problem. 91c:73067
- Biskup, A. G. see Mossakovskii, V. I.; et al., 91d:73059
- Bugrov, A. N. The method of fictitious domains in problems of the linear theory of elasticity with nonhomogeneous boundary conditions of the first kind. (Russian) 91h:73057
- Costabel, Martin (with Stephan, E. P.) Integral equations for transmission problems in linear elasticity. 91g:73021
- Deng, Qing Ping A class of elastoplastic problems with the second boundary value condition. (Chinese) 91f:49014
- Durán, Ricardo G. Finite elements in $H(\text{curl})$ with applications to elasticity. 91g:65238
- Gomilko, A. M. (with Grichenko, V. T.; Meleshko, V. V.) Homogeneous solutions in a problem on the equilibrium of an elastic cylinder of finite length. (Russian) 91c:73076
- Goodsell, G. (with Whiteman, J. R.) Pointwise superconvergence of recovered gradients for piecewise linear finite element approximations to problems of planar linear elasticity. 91c:73081
- Grichenko, V. T. see Gomilko, A. M.; et al., 91c:73076
- Haslinger, Jaroslav (with Horák, Václav) On identification of critical curves. (Russian and Czech summaries) 91d:49005
- Horák, Václav see Haslinger, Jaroslav, 91d:49005
- Kalinin, V. M. see Voinitskiy, S. A., 91c:73086
- Karsoosmanoglu, Namik see Schnack, Eckart; et al., (91b:00041)
- Kreis, A. A different approach to 2-dimensional boundary element method in orthotropic linear elasticity theory. (see 91b:00043)
- Kudish, I. I. see Aleksandrov, Viktor Mikhailovich, 91a:73055
- Kuznetsov, Sergei Vladimirovich Normal quasisolutions of integral equations in elasticity theory. (Russian) 91a:45016
- Le, K. Ch. see Stumpf, Helmut, 91i:73039
- Leis, R. Initial-boundary value problems in elasticity. 91d:35216
- Levan, A. (with Royer, Jean René) Theoretical basis of regularized integral equations for elastostatic crack problems. 91m:73061
- Meleshko, V. V. see Gomilko, A. M.; et al., 91c:73076
- Mkhitarany, S. M. (with Abdu Mokhamed Abdalla Akhmed) Different methods for solving the Carleman integral equation. (Russian. Armenian summary) (Not in MR)
- Monegato, Giovanni (with Prösdorf, Siegfried) On the numerical treatment of an integral equation arising from a cruciform crack problem. 91c:65210
- (Morozov, N. F.) see Studies in elasticity and plasticity, 91c:73004
- Mossakovskaya, L. V. see Mossakovskii, V. I.; et al., 91d:73059
- Mossakovskii, V. I. (with Biskup, A. G.; Mossakovskaya, L. V.) Solution of a contact problem with friction and adhesion. 91d:73059
- Natroschvili, D. G. (with Svanadze, M. Zh.) Potential methods in the problems of linear theory of elastic mixtures. 91k:73024
- Nazarov, S. A. Asymptotic behavior of the solution of an elliptic boundary value problem in a thin domain. (Russian) 91f:35093
- (with Polyakova, O. R.) Stress intensity factors for drawing together parallel cracks in a two-dimensional domain. 91h:73049
- Nüller, B. M. Contact problems for a system of elastic half-planes. 91j:73063
- Podio-Guidugli, Paolo (with Vergara-Caffarelli, Giorgio) Surface interaction potentials in elasticity. 91c:73025
- Polyakova, O. R. see Nazarov, S. A., 91h:73049
- Prösdorf, Siegfried see Monegato, Giovanni, 91c:65210
- Puzanov, Yu. E. see Zelenstov, V. B., 91c:73104
- Royer, Jean René see Levan, A., 91m:73061
- Sadykhov, V. E. Stresses in a bi-elastic layer with a boundary shear crack. 91c:73069
- Schnack, Eckart (with Becker, Ingo; Karsoosmanoglu, Namik) Modern coupling of FEM and BEM with mixed variational formulations. (see 91b:00041)
- Shifrin, E. I. Isoperimetric estimates for solutions of a class of pseudodifferential equations and their application to crack problems. 91k:35117
- Sokolowski, Jan Sensitivity analysis of the Signorini variational inequality. 91f:49052
- Soldatov, A. P. A Riemann contact problem. (Russian) (Not in MR)
- Stephan, E. P. see Costabel, Martin, 91g:73021
- Stumpf, Helmut (with Le, K. Ch.) Variational principles of nonlinear fracture mechanics. 91i:73039
- Svanadze, M. Zh. see Natroschvili, D. G., 91k:73024
- Tsalik, A. M. A method for the projection and decomposition of analytic functions in boundary value problems in elasticity theory. 91c:73088
- Tvardovskii, V. V. Further results on rectilinear line cracks and inclusions in anisotropic medium. 91c:73102
- Vergara-Caffarelli, Giorgio see Podio-Guidugli, Paolo, 91c:73025
- Voinitskiy, S. A. (with Kalinin, V. M.) An estimate for the rate of convergence in W_2^1 -norm of the projection-difference scheme for the first boundary value problem in elasticity theory in the anisotropic case. (Russian) 91c:73086
- Vorovich, I. I. * Математические проблемы нелинейной теории оболочек. (Russian) [Mathematical problems in the nonlinear theory of shallow shells] 91g:73050
- Wang, Yin Bang A method to solve boundary integral equations for the Griffith crack problem under asymmetric loadings. (Chinese. English summary) (Not in MR)
- Whiteman, J. R. see Goodsell, G., 91c:73081
- Zelenstov, V. B. (with Puzanov, Yu. E.) An efficient method for solving integral equations in problems of crack theory. (Russian) 91c:73104

Items listed otherwise than by author

Studies in elasticity and plasticity ★ Исследования по упругости и пластичности. Вып. 16. (Russian) [Studies in elasticity and plasticity. No. 16] 91c:73004

73C40 Nonhomogeneous bodies and inclusions (1985)

- Buryachenko, V. A. (with Lipanov, A. M.) Effective characteristics of elastic physically nonlinear composites. (Not in MR)
 Fedik, I. I. see Smirnov, L. G.; et al. (Not in MR)
 Lipanov, A. M. see Buryachenko, V. A. (Not in MR)
 Milyavskaya, F. B. Biaxial stretching of a plate with a circular hole that is made of aging elastoplastic material. (Russian) (see 91b:00025)
 Pritmak, S. V. see Smirnov, L. G.; et al. (Not in MR)
 Smirnov, L. G. (with Pritmak, S. V.; Fedik, I. I.) Elastic stresses in a half-space with a heterogeneous spherical inclusion. (Russian) (Not in MR)
 Tartar, Luc *H*-measures and small amplitude homogenization. (see 91b:00052)

73C50 Nonlinear elasticity

- Chernykh, K. F. Nonlinear plane elasticity theory and its application to physically and geometrically nonlinear fracture mechanics. (Russian. English summary) 91m:73020
 — Two-dimensional problems in nonlinear elasticity theory (a single wedge disclination). (Russian) (see 91k:00010)
 Epstein, Marcelo (with Maugin, Gérard A.) Sur le tenseur de moment matériel d'Eshelby en élasticité non linéaire. (English summary) [On Eshelby's material-moment tensor in nonlinear elasticity] 91d:73018
 Fedarov, S. I. ★ О численных алгоритмах для одной модели двухмерной геометрически нелинейной упругости. (Russian) [Numerical algorithms for a model of two-dimensional geometrically nonlinear elasticity] 91g:73016
 Fiedick, Roger L. (with Hertog, Brian) The Maxwell relation and Eshelby's conservation law for minimizers in elasticity theory. 91c:73023
 Hertog, Brian see Fiedick, Roger L., 91c:73023
 Horgan, Cornelius O. (with Payne, Lawrence E.; Simmonds, J. G.) Existence, uniqueness, and decay estimates for solutions in the nonlinear theory of elastic, edge-loaded, circular tubes. 91k:73024
 Kinderlehrer, David Phase transitions in crystals: towards the analysis of microstructure. 91k:73014
 Kotsakis, E. K. see Panagiotopoulos, P. D., 91c:73027
 Lin, Pei Xiong Maximization of entropy for an elastic body free of surface traction. 91j:73015
 Marcellini, Paolo The stored-energy for some discontinuous deformations in nonlinear elasticity. 91d:73019
 Maugin, Gérard A. see Epstein, Marcelo, 91d:73018
 Novikov, N. A. (with Sporykhin, A. N.) A functional of nonlinear elasticity theory with prescribed boundary conditions in different configurations. 91c:73024
 Panagiotopoulos, P. D. (with Kotsakis, E. K.) The nonmonotone skin effects in plane elasticity problems obeying to linear elastic and subdifferential material laws. (German and Russian summaries) 91c:73027
 Payne, Lawrence E. see Horgan, Cornelius O.; et al., 91b:73024
 Pitteri, Mario Some problems in nonlinear elasticity of crystalline solids. 91k:73035
 Podio-Guidugli, Paolo (with Vergara-Caffarelli, Giorgio) Surface interaction potentials in elasticity. 91c:73025
 Quintela Estevez, Peregrina Critical points in the energy of hyperelastic materials. (French summary) 91c:73026
 Simmonds, J. G. see Horgan, Cornelius O.; et al., 91b:73024
 Sporykhin, A. N. see Novikov, N. A., 91c:73024
 Tahmouei, Rahab Sur une classe de fonctionnelles non convexes et applications. (English summary) [On a class of nonconvex functionals, and applications] 91h:73012
 Vergara-Caffarelli, Giorgio see Podio-Guidugli, Paolo, 91c:73025
 Zhang, Ke Wei Polyconvexity and stability of equilibria in nonlinear elasticity. 91d:73020
- Items with secondary classifications in 73C50
- Acerbi, Emilio (with Fusco, Nicola) Local regularity for minimizers of nonconvex integrals. 91h:49041
 Avellaneda, Marco Iterated homogenization and the effective properties of polycrystals. 91g:82056
 Biaz, E. On the notion of the stress tensor associated with \mathbb{R}^n -invariant constitutive laws admitting integral representations. 91m:58019
 Buryachenko, V. A. (with Lipanov, A. M.) Effective characteristics of elastic physically nonlinear composites. (Not in MR)
 Cauret, J.-J. (with Colombeau, J.-F.; LeRoux, Alain Yves) Discontinuous generalized solutions of nonlinear nonconservative hyperbolic equations. 91c:35085
 Chen, Yi-Chao On strong ellipticity and the Legendre-Hadamard condition. 91m:73021
 Chen, Zhi Da see Shang, Yong, 91h:73051 and 91h:73052
 Colombeau, J.-F. (with LeRoux, Alain Yves; Noussair, A.; Perrot, B.) Microscopic profiles of shock waves and ambiguities in multiplications of distributions. 91c:35086
 — see also Cauret, J.-J.; et al., 91c:35085
 Dobordzhidze, L. G. A plane inverse problem of a nonlinear theory of isolated rectilinear equilibrium cracks. (Russian. English and Georgian summaries) (Not in MR)
 Esham, Benjamin F., Jr. (with Weinacht, Richard J.) Hyperbolic-parabolic singular perturbations for scalar nonlinearities. 91a:35021
 — (with Weinacht, Richard J.) Hyperbolic-parabolic singular perturbations for quasilinear equations. 91a:35022
 Feireisl, Eduard Time-dependent invariant regions for parabolic systems related to one-dimensional nonlinear elasticity. (Russian and Czech summaries) 91h:35131
 Fiedick, Roger L. (with Hertog, Brian) Material symmetry and crystals. 91c:73002
 Fox, D. D. see Simo, J. C.; et al., 91b:73068 and 91d:73045
 Fu, Y. B. (with Scott, N. H.) The evolution law of one-dimensional weak nonlinear shock waves in elastic nonconductors. 91c:73041
 — (with Scott, N. H.) The evolutionary behaviour of plane transverse weak nonlinear shock waves in unstrained incompressible isotropic elastic nonconductors. 91c:73042
 Furta, S. D. Bifurcations of equilibrium forms of an inhomogeneous nonlinearly elastic rod in a gravity force field. (Russian) 91c:73063
 Fusco, Nicola see Acerbi, Emilio, 91h:49041
 Gao, Yang On the extreme variational principles for nonlinear elastic plates. 91c:73116
 Geymonat, Giuseppe (with Müller, Stefan; Triantafyllidis, Nicolas) Quelques remarques sur l'homogénéisation des matériaux élastiques nonlinéaires. (English summary) [Some remarks on the homogenization of nonlinearly elastic materials] 91k:73009
 Giacquinta, Mariano (with Modica, Giuseppe; Souček, Jiří) Erratum and addendum to: "Cartesian currents, weak diffeomorphisms and existence theorems in nonlinear elasticity" [Arch. Rational Mech. Anal. 106 (1989), no. 2, 97–159; MR 90c:80044]. 91h:58050
 Gilquin, H. (with Serre, Denis) Well-posedness of the Riemann problem; consistency of the Godunov's scheme. 91h:65113
 Glowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91f:73038
 Grigolyuk, E. I. (with Kulikov, G. M.) An analytic method for solving nonlinear problems in the theory of multilayered anisotropic plates. 91k:73070
 Hertog, Brian see Fiedick, Roger L., 91c:73002
 Horgan, Cornelius O. Some remarks on axisymmetric solutions in finite elastostatics for compressible materials. 91h:73050
 — (with Payne, Lawrence E.) On Saint-Venant's principle in finite anti-plane shear: an energy approach. 91a:73009
 Hrusa, William J. (with Renardy, Michael) Corrections to: "An existence theorem for the Dirichlet problem in the elastodynamics of incompressible materials" [Arch. Rational Mech. Anal. 102 (1988), no. 2, 95–117; MR 89i:35096]. 91a:35114
 Karwowski, Andrzej J. Asymptotic models for a long, elastic cylinder. 91m:73060
 Karyakin, M. I. see Zubov, L. M., 91k:73095
 Knops, R. J. A Phragmén-Lindelöf theorem for the free elastic cylinder. (Italian summary) 91m:73017
 Kulikov, G. M. see Grigolyuk, E. I., 91k:73070
 Le, K. Ch. see Stumpf, Helmut, 91h:73039
 LeRoux, Alain Yves see Cauret, J.-J.; et al., 91c:35085 and Colombeau, J.-F.; et al., 91c:35086
 Le Tallec, Patrick see Glowinski, Roland, 91f:73038
 Levi, Decio (with Rogers, Colin) Group invariance of a neo-Hookean system: incorporation of stretch change. 91k:73021
 Li, Zhi Ping The finite element incremental method for nonlinear elasticity. 91j:73066
 Lipanov, A. M. see Buryachenko, V. A. (Not in MR)
 Luo, En Generalized Hamilton-type quasivariational principles in geometrically nonlinear elastodynamics. (Chinese. English summary) (Not in MR)
 Massoudi, M. see Rajagopal, K. R.; et al., 91m:73028
 Milson, P. Calcul de la dérivée d'une grandeur par rapport à un fond de fissure par la méthode θ . (English summary) [Calculation of the derivative of a quantity with respect to a crack-tip by the θ -method] 91a:73057
 Mielke, Alexander Normal hyperbolicity of center manifolds and Saint-Venant's principle. 91i:58171
 — Corrigendum to: "Saint-Venant's problem and semi-inverse solutions in nonlinear elasticity" [Arch. Rational Mech. Anal. 102 (1988), no. 3, 205–229; MR 89h:73016]. 91f:73009
 Modica, Giuseppe see Giacquinta, Mariano; et al., 91h:58050
 Moroz, N. G. Application of the method of integral equations for solving problems in the three-dimensional theory of the stability of deformable bodies. 91h:73057
 Müller, Stefan see Geymonat, Giuseppe; et al., 91k:73009
 Negrón-Marrero, Pablo V. A numerical method for detecting singular minimizers of multidimensional problems in nonlinear elasticity. 91j:65116
 Noussair, A. see Colombeau, J.-F.; et al., 91c:35086
 Parashchiv, Iuliana Acceleration waves in transversally isotropic nonlinear elastic solids. 91h:73019
 Paumier, Jean-Claude Existence theorems for nonlinear elastic plates with periodic boundary conditions. (French summary) 91k:73072
 Payne, Lawrence E. see Horgan, Cornelius O., 91b:73009
 Perrot, B. see Colombeau, J.-F.; et al., 91c:35086
 Quintela Estevez, Peregrina A new model for nonlinear elastic plates with rapidly varying thickness. 91f:73021
 — Nonlinear elastic plates with rapidly varying thickness. Analysis of the influence of the behavior of the forces when the average thickness of the plate tends to zero. (Spanish) (see 91i:00015)
 Racke, Reinhard Blow-up in nonlinear three-dimensional thermoelasticity. 91h:35072
 — On the Cauchy problem in nonlinear 3-d thermoelasticity. 91c:73017
 Rajagopal, K. R. (with Massoudi, M.; Wineman, A. S.) Exact solutions in nonlinear elastodynamics. 91m:73028
 Renardy, Michael Local existence of solutions of the Dirichlet initial-boundary value problem for incompressible hypoelastic materials. 91k:35151
 — see also Hrusa, William J., 91a:35114
 Rifai, M. S. see Simo, J. C.; et al., 91b:73068 and 91d:73045
 Rogers, Colin see Levi, Decio, 91k:73021
 Rycklyns, Philippe Configurations isotopes en élasticité non linéaire. (English summary) [Isotopic configurations in nonlinear elasticity] 91c:58030
 Sacchi, Pier Luigi On the problem of torsion in finite elasticity. II. Some general remarks in the case of uniform torsion. 91c:73058
 Scott, N. H. see Fu, Y. B., 91c:73041 and 91c:73042
 Serre, Denis see Gilquin, H., 91h:65113
 Shang, Yong (with Chen, Zhi Da) On large deformation unilateral contact problem with friction. I. Incremental variational equations. 91h:73051
 — (with Chen, Zhi Da) On unilateral contact large deformation problem with friction. II. Nonlinear finite element technique and its application. 91h:73052
 Simo, J. C. (with Fox, D. D.; Rifai, M. S.) Formulation and computational aspects of a stress resultant geometrically exact shell model. 91h:73068

- (with Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. III. Computational aspects of the nonlinear theory. 91d:73045
- (with Vu-Quoc, L.) A geometrically exact rod model incorporating shear and torsion warping deformation. 91c:73074
- Souček, Jiří *see* Glasziou, Mariano; et al., 91b:58050
- Stumpf, Helmut (with Le, K. Ch.) Variational principles of nonlinear fracture mechanics. 91c:73039
- Ting, Thomas C. T. *see* Zhu, Guangshan, 91c:73040
- Triantafyllidis, Nicolas *see* Geymonat, Giuseppe; et al., 91k:73009
- Vu-Quoc, L. *see* Simo, J. C., 91c:73074
- Weinacht, Richard J. *see* Esham, Benjamin F., Jr., 91a:35021 and 91a:35022
- Wineman, A. S. *see* Rajagopal, K. R.; et al., 91m:73028
- Zhang, Ke Wei¹ On the Dirichlet problem for a class of quasilinear elliptic systems of partial differential equations in divergence form. 91b:35043
- Biting theorems for Jacobians and their applications. (French summary) 91k:49016
- Zhu, Guangshan (with Ting, Thomas C. T.) Classification of 2×2 non-strictly hyperbolic systems for plane waves in isotropic elastic solids. 91c:73040
- Zubov, L. M. Energy contour integrals in the nonlinear theory of elastic plates and shells. 91b:73069
- (with Karyakin, M. I.) Dislocations and disclinations in nonlinearly elastic bodies with moment stresses. 91k:73095

73C99 None of the above, but in this section

- Akopyan, A. S. (with Zargaryan, S. S.) On the solution of integral equations of two axisymmetric problems in elasticity theory for domains with edges. (Russian. Armenian summary) 91a:73012
- Aron, M. On the stability of Varley-Day solutions for harmonic materials. 91h:73013
- Chen, Yi-Chao On strong ellipticity and the Legendre-Hadamard condition. 91m:73021
- Cialdea, Alberto Elastostatics with nonabsolutely continuous data. 91h:73014
- Davì, F. (with Podio-Guidugli, Paolo) Stress and strain in a continuum in terms of coordinate transformations. (Italian. English summary) 91b:73025
- Freeden, Willi (with Reuter, Richard) A constructive method for solving the displacement boundary-value problem of elastostatics by use of global basis systems. 91a:73013
- Gennari, Anna Maria (with Padovani, Cristina) Constitutive equations for masonry-like materials. 91k:73036
- Hayes, Michael Much ado about ellipses and ellipsoids. 91d:73021
- Kalamkarov, A. L. *see* Parton, V. Z.; et al., 91m:73022
- Kudryavtsev, B. A. *see* Parton, V. Z.; et al., 91m:73022
- Mityushev, V. V. Solution of a problem of crack theory by the method of functional equations. (Russian) 91g:73017
- Movchan, A. B. *see* Zorin, I. S.; et al., 91k:73037
- Movchan, N. V. (with Nazarov, S. A.) On the stress-deformed state near vertices of cones. 91j:73016
- Nazarov, S. A. *see* Movchan, N. V., 91j:73016 and Zorin, I. S.; et al., 91k:73037
- Nyashin, Yu. I. (with Trusov, P. V.) Residual stresses: calculation and control. (Russian. English summary) 91g:73018
- Padovani, Cristina *see* Gennari, Anna Maria, 91k:73036
- Parton, V. Z. (with Kudryavtsev, B. A.; Kalamkarov, A. L.) Generalization of the integral Fourier transform in boundary value problems of the mechanics of composites. 91m:73022
- Podio-Guidugli, Paolo *see* Davì, F., 91b:73025
- Reuter, Richard *see* Freeden, Willi, 91a:73013
- Sachenkov, A. V. (with Timerbaev, R. M.) A static-geometric analogy in the mechanics of a deformable solid. (Russian. English summary) 91f:73011
- Saltaev, N. V. Generalized hydrodynamic potential and its analogues in elasticity theory. 91h:73015
- Sharafutdinov, V. A. The method of integral photo-elasticity in the case of weak optical anisotropy. (Russian. English and Estonian summaries) 91b:73026
- Shardakov, I. N. Solution of boundary value problems of elasticity theory by the geometric embedding method in a differential formulation. (Russian) (see 91k:00025)
- Shvab, A. A. On a problem of local continuation in elasticity theory. (Russian) 91m:73023
- Timerbaev, R. M. *see* Sachenkov, A. V., 91f:73011
- Trusov, P. V. *see* Nyashin, Yu. I., 91g:73018
- Zargaryan, S. S. *see* Akopyan, A. S., 91a:73012
- Zorin, I. S. (with Movchan, A. B.; Nazarov, S. A.) Application of tensors of elastic capacity, polarization and associated deformation. (Russian) 91k:73037

Items with secondary classifications in 73C99

- Altan, Ş. Burhanettin Existence in nonlocal elasticity. (Russian and Polish summaries) 91h:73002
- Attea, M. (with Benbourhim, M. N.) Spline elastic manifolds. 91f:65127
- Azanov, N. P. Equations of Saint-Venant and Beltrami-Mitchell compatibility in a Riemannian space. (Russian) 91m:53018
- Babuska, Ivo (with Pitkäranta, J.) The plate paradox for hard and soft simple support. 91h:73059
- Benbourhim, M. N. *see* Attea, M., 91f:65127
- Bova, P. G. (with Koshchil, A. F.; Shcheglov, V. A.) A posteriori estimates for the solution in problems of theory of thin plates. (Russian) (see 91b:73001)
- Brillard, Alain (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Boundary-homogenization methods in linear elasticity for isotropic homogeneous cylindrical bodies. (Spanish) (see 91f:00015)
- (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Homogénéisation de frontières par épi-convergence en élasticité linéaire. (English summary) [Homogenization of boundaries by epi-convergence in linear elasticity] 91k:73007
- Chacha, Djamel Comportement macroscopique de plaques hétérogènes fissurées localement périodiques. (English summary) [Macroscopic behavior of heterogeneous and fissured locally periodic plates] 91m:73047
- Clarlet, Philippe G. ★ Plates and junctions in elastic multi-structures. 91h:73034

- A new class of variational problems arising in the modeling of elastic multi-structures. 91f:65166
- Clorancescu, Delfina (with Oleinik, O. A.; Tronel, Gérard) On Korn's inequalities for frame type structures and junctions. (French summary) 91f:35054
- Cleja-Tigela, Sanda (with Soós, Eugen) Elastoviscoplastic models with relaxed configurations and internal state variables. (Not in MR)
- Del Piero, Giampaolo Constitutive equation and compatibility of the external loads for linear elastic masonry-like materials. (Italian summary) 91k:73004
- Recent developments in the mechanics of materials which do not support tension. 91m:73012
- Ferapontov, E. V. Reciprocal transformations and their invariants. 91a:58210
- Francfort, Gilles A. (with Tartar, Luc) Comportement effectif d'un mélange de matériaux élastiques isotropes ayant le même module de cisaillement. (English summary) [Effective behavior of a mixture of isotropic materials with identical shear moduli] 91m:73005
- Geymonat, Giuseppe (with Rosati, Mario Valerio; Valente, V.) Numerical analysis for eversion in elastic spherical caps equilibrium. 91c:73048
- Gürlebeck, Klaus (with Sprössig, Wolfgang) ★ Quaternionic analysis and elliptic boundary value problems. 91k:35002a
- (with Sprössig, Wolfgang) ★ Quaternionic analysis and elliptic boundary value problems. 91k:35002b
- Gur, A. N. (with Nemish, Yu. N.) ★ Метод возмущения формы границы в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007
- Hardt, Robert (with Kinderlehrer, David) Variational principles with linear growth. 91c:73117
- Ikehata, Masaru Inversion formulas for the linearized problem for an inverse boundary value problem in elastic prospecting. 91k:35325
- Jodelt, Max, Jr. (with Oliver, Peter J.) On the equation $\text{grad } f = M \text{ grad } g$. 91k:35054
- Kalamkarov, A. L. (with Kudryavtsev, B. A.; Parton, V. Z.) The boundary layer method in fracture mechanics of composites with periodic structure. 91h:73046
- Kinderlehrer, David *see* Hardt, Robert, 91c:73117
- Koltsakis, M. (with Panagiotopoulos, P. D.) Nonmonotone skin effects in laminated plates in stretching. (see 91g:00043)
- Koshchil, A. F. *see* Bova, P. G.; et al., (91b:73001)
- Kudryavtsev, B. A. *see* Kalamkarov, A. L.; et al., 91h:73046
- Leal, C. Concentrated forces. Asymptotic study. (French summary) 91f:35035
- Lenyuk, M. P. (with Suchevan, V. G.) A quasistatic problem in thermoelasticity for an infinite two-layer cylindrically anisotropic plate with a round hole. (Russian) 91c:73013
- Lobo-Hidalgo, Miguel *see* Brillard, Alain; et al., 91h:73007 and (91j:00015)
- Nemish, Yu. N. *see* Gur, A. N., 91f:73007
- Oleinik, O. A. *see* Clorancescu, Delfina; et al., 91f:35054
- Oliver, Peter J. *see* Jodelt, Max, Jr., 91k:35054
- Panagiotopoulos, P. D. *see* Koltsakis, M., (91g:00043)
- Panasenko, G. P. (with Reztsov, M. V.) Asymptotic expansion of the solution of a system of equations in elasticity theory in an inhomogeneous thin layer. (Russian) 91h:73005
- Parton, V. Z. *see* Kalamkarov, A. L.; et al., 91h:73046
- Pérez, Eugenia *see* Brillard, Alain; et al., 91h:73007 and (91j:00015)
- Pierce, John Festus ★ Singularity theory, rod theory, and symmetry-breaking loads. 91h:73056
- Pipkin, Allen C. The relaxed energy density for isotropic elastic membranes. 91h:73067
- Pitkäranta, J. *see* Babuska, Ivo, 91h:73059
- Raulf, Günter ★ Randwertprobleme für elliptische Systeme auf Lipschitzgebieten. (German) [Boundary value problems for elliptic systems on Lipschitz domains] 91j:35096
- Reztsov, M. V. *see* Panasenko, G. P., 91h:73005
- Rosati, Mario Valerio *see* Geymonat, Giuseppe; et al., 91c:73048
- Rymarz, Cz. Boundary value problems for a filtration model of the linear theory of elasticity and their generalized solutions. (Russian and Polish summaries) 91c:73046
- Sacco, Ello Modelling and analysis of structure in no-tension materials. (Italian. English summary) 91h:73006
- Saltaev, N. V. Analogues of generalized hydrodynamic potentials in the theory of Lamé and Maxwell equations. 91f:35262
- Sánchez-Palencia, E. On the edge singularities in composite media. Influence of an asymptotic. 91k:35009
- Asymptotic problems in the theory of thin elastic shells. (see 91j:00015)
- Santos, Lisa A diffusion problem with gradient constraint. 91h:35062
- Shcheglov, V. A. *see* Bova, P. G.; et al., (91b:73001)
- Soós, Eugen *see* Cleja-Tigela, Sanda, (Not in MR)
- Sprössig, Wolfgang *see* Gürlebeck, Klaus, 91k:35002a and 91k:35002b
- Suchevan, V. G. *see* Lenyuk, M. P., 91h:73013
- Tartar, Luc *see* Francfort, Gilles A., 91m:73005
- Tronel, Gérard *see* Clorancescu, Delfina; et al., 91f:35054
- Valente, V. *see* Geymonat, Giuseppe; et al., 91c:73048
- Villaggio, Piero A mathematical theory of the guillotine. 91c:73062
- Yin, Chuan Yan *see* Zhou, Huan Wen, 91a:73049
- Zhou, Huan Wen (with Yin, Chuan Yan) An existence theorem for solutions to the equations for large deflections of flat spherical shells. (Chinese. English summary) 91a:73049

73Dxx Wave propagation in and vibrations of solids

Items with secondary classifications in 73Dxx

- (Hainsworth, R. N.) *see* Rabinovich, M. I., 91f:00011
- Rabinovich, M. I. (with Trubetskoy, D. I.) ★ Oscillations and waves in linear and nonlinear systems. 91f:00011
- Trubetskoy, D. I. *see* Rabinovich, M. I., 91f:00011

73D05 Impact and explosion problems [see also 76L05]

- Ameria, Luigi On the elastic impact of two vibrating strings with different characteristic

- velocities: study of a free-boundary unilateral problem. (Italian summary) 91c:73028
- Borodich, F. M. Dynamic contact of a blunt body with an anisotropic linearly elastic medium. 91c:73014
- Martins, J. A. C. (with Pires, E. B.) A class of impact problems in linear elasticity. (see 91c:00043)
- Pires, E. B. see Martins, J. A. C., 91c:00043
- Wang, Duo see Zhang, Tao, 91h:73016
- Zhang, Tao (with Wang, Duo) Elasticity analysis of the relationships between impact force and indentation. (Chinese. English summary) 91h:73016

Items with secondary classifications in 73D05

- Borodich, F. M. Hertz contact problems for an elastic anisotropic half-space with initial stresses. 91c:73061
- Bunimovich, A. I. (with Yakunina, G. E.) On the form of a body of revolution of minimal resistance under unbroken penetration into plastically compressible media. 91h:73042
- Fosdick, Roger L. (with Warner, W. H.; Yu, J. H.) Steady, structured shock waves in a viscoelastic solid of differential type. 91h:73060
- Fu, Y. B. (with Scott, N. H.) One-dimensional shock waves in simple materials with memory. 91h:73048
- Gorshkov, A. G. (with Tarlakovskii, D. V.) Dynamical contact problems for a deformable body. (Russian. English summary) 91m:73068
- Khanov, R. K. Numerical study of a system of differential equations that describe the interaction of a two-dimensional wave with a cylindrical ring in the ground. (Russian) (see 91j:00012)
- Kholodov, A. S. see Petrov, I. B.; et al., 91h:73058
- Kritskaya, S. S. (with Rogach, D. I.) Solution of an initial-boundary value problem that is connected with the longitudinal shock of a viscoelastic rod. (Russian) (see 91a:41002)
- Krupenik, V. L. Transformation of the vibration modes of a string that interacts with two straight stretched obstacles. 91h:73044
- Martins, J. A. C. (with Trabucho, Luis) A mathematical formulation for a generalized Hertz impact problem. 91c:73075
- Nikitin, L. V. (with Tyurekhodzhev, A. N.) Wave propagation and vibration of elastic rods with interfacial frictional slip. 91j:73062
- Petrov, I. B. (with Tormasov, A. G.) Numerical realization of three-dimensional shock problems. (Russian. English summary) 91g:65286
- (with Tormasov, A. G.; Kholodov, A. S.) On the use of hybridized grid-characteristic schemes for the numerical solution of three-dimensional problems of the dynamics of deformable solid bodies. (Russian) 91h:73058
- Rogach, D. I. see Kritskaya, S. S., 91a:41002
- Scott, N. H. see Fu, Y. B., 91h:73048
- Singh, Manu C. Similarity analysis of hyperbolic partial differential equations arising in nonlinear unidirectional wave motion. 91g:35169
- Stronge, W. J. Rigid body collisions with friction. 91g:70005
- Tarlakovskii, D. V. see Gorshkov, A. G., 91m:73068
- Tormasov, A. G. see Petrov, I. B., 91g:65286 and 91h:73058
- Trabucho, Luis see Martins, J. A. C., 91c:73075
- Tyurekhodzhev, A. N. see Nikitin, L. V., 91j:73062
- Warner, W. H. see Fosdick, Roger L.; et al., 91h:73060
- Yakunina, G. E. see Bunimovich, A. I., 91h:73042
- Yu, J. H. see Fosdick, Roger L.; et al., 91h:73060

73D10 Integral transforms

Items with secondary classifications in 73D10

- Andriyanov, V. L. (with Krysov, S. V.) Interaction of a material point with a string on an elastic foundation. (Russian) 91c:73037
- Angel, Y. C. On the static and dynamic equilibrium of concentrated loads in linear acoustics and linear elasticity. 91k:73016
- Bykovtsev, A. S. (with Kramarovskii, D. B.) Unsteady supersonic motion of a complex discontinuity. 91c:73027
- Cheban, V. G. (with Forna, G. A.) Solution of a problem of the propagation of an electroelastic wave in a piezoelectric ceramic rod. (Russian) (Not in MR)
- Dyzlewicz, Janusz (with Kolodziej, Czeslaw) Axial-symmetric Lamb problems in micropolar theory of elasticity. (French, Russian and Polish summaries) 91h:73004
- Fat'yanov, A. G. ★ Нестационарные сейсмические волновые поля в неоднородных анизотропных средах с поглощением энергии. (Russian) [Non-steady-state seismic wave fields in nonhomogeneous anisotropic media with energy absorption] 91h:86001
- Forna, G. A. see Cheban, V. G., (Not in MR)
- Kalamkarov, A. L. see Parton, V. Z.; et al., 91m:73022
- Kees, W. W. Longitudinal oscillations in a homogeneous elastic beam in the form of a truncated circular cone. (Romanian) 91a:73042
- Khotoryanskii, N. M. A variant of the correspondence principle for nonstationary dynamical problems in viscoelasticity. (Russian) 91j:73031
- Kolodziej, Czeslaw see Dyzlewicz, Janusz, 91h:73004
- Kramarovskii, D. B. see Bykovtsev, A. S., 91c:73027
- Krysov, S. V. see Andriyanov, V. L., 91c:73037
- Kudryatsev, B. A. see Parton, V. Z.; et al., 91m:73022
- Mokrik, R. I. (with Otiyarnik, I. V.) Application of an ortho-exponential transformation to the study of nonstationary equations in thermoelasticity and thermoviscoelasticity. 91c:73011
- Otiyarnik, I. V. see Mokrik, R. I., 91c:73011
- Parton, V. Z. (with Kudryatsev, B. A.; Kalamkarov, A. L.) Generalization of the integral Fourier transform in boundary value problems of the mechanics of composites. 91m:73022
- Rabnowski, T. Surface waves in an isotropic elastic nonhomogeneous semi-space. (Russian and Polish summaries) 91d:73022
- Sokolowski, M. Application of the method of equivalent moments to static and dynamical problems of elastic media with cylindrical holes and inclusions. (Italian summary) 91h:73050

73D15 Body waves

- Bamberger, Alain (with Dermenjian, Y.; Joly, Patrick) Mathematical analysis of the propagation of elastic guided waves in heterogeneous media. 91k:73038
- Barkovskii, L. M. (with Borzdov, G. N.; Lavrinenko, A. V.) Evolution operators in crystal acoustics taking into account spatial dispersion. (Russian. English summary) 91g:73019
- Borzdov, G. N. see Barkovskii, L. M.; et al., 91g:73019
- Bykovtsev, A. S. (with Kramarovskii, D. B.) Unsteady supersonic motion of a complex discontinuity. 91c:73027
- Chadwick, P. see Ting, Thomas C. T., 91k:73002
- Dermenjian, Y. see Bamberger, Alain; et al., 91k:73038
- Getman, I. P. (with Ustinov, Yu. A.) On the energy flux under conditions of resonance of semi-bounded bodies. 91m:73024
- Gurevich, B. Ya. see Sadovnichaya, A. P.; et al., 91c:73030
- Higdon, Robert L. Radiation boundary conditions for elastic wave propagation. 91h:73017
- Joly, Patrick see Bamberger, Alain; et al., 91k:73038
- Kramarovskii, D. B. see Bykovtsev, A. S., 91c:73027
- Lavrinenko, A. V. see Barkovskii, L. M.; et al., 91g:73019
- Lopatnikov, S. L. see Sadovnichaya, A. P.; et al., 91c:73030
- Loret, Benjamin Acceleration waves in elastic-plastic porous media: interlacing and separation properties. 91h:73039
- McCarthy, Matthew F. Nonlinear wave propagation in composites. 91c:73029
- Sadovnichaya, A. P. (with Gurevich, B. Ya.; Lopatnikov, S. L.; Shapiro, S. A.) Integral representations of wave fields in piecewise-homogeneous porous media. (Russian) 91c:73030
- Shapiro, S. A. see Sadovnichaya, A. P.; et al., 91c:73030
- Ting, Thomas C. T. (with Chadwick, P.) Harmonic waves in a periodically laminated anisotropic elastic composite. (see 91k:73002)
- Ustinov, Yu. A. see Getman, I. P., 91m:73024

Items with secondary classifications in 73D15

- Anishkovich, E. M. (with Kondrashkov, V. V.) Application of catastrophe theory to the study of the structural stability of seismic structures. (Russian) 91g:86007
- Borrelli, Alessandra (with Patria, Maria Cristina) Discontinuity waves through a linear thermoviscoelastic solid of integral type. 91m:73039
- Boulanger, Ph. (with Hayes, Michael) Finite amplitude motions in some nonlinear elastic media. 91f:73020
- Chadwick, P. (with Norris, A. N.) Conditions under which the slowness surface of an anisotropic elastic material is the union of aligned ellipsoids. 91j:73005
- Chandrasekharala, D. S. (with Keshavan, H. R.) Thermoelastic plane waves in a transversely isotropic body. 91m:73007
- (Gol'din, S. V.) see Anishkovich, E. M., 91g:86007
- Hager, William W. (with Rostamian, Rouben) Total absorption in elastic media. 91c:73036
- Hayes, Michael see Boulanger, Ph., 91f:73020
- Joly, Patrick Un nouveau résultat d'existence d'ondes guidées en milieu élastique hétérogène. (English summary) [A new existence result for guided waves in elastic heterogeneous media] 91k:73045
- Kamel, Aladin H. see Squazzero, P.; et al., 91g:73070
- Keshavan, H. R. see Chandrasekharala, D. S., 91m:73007
- Kindelan, M. see Squazzero, P.; et al., 91g:73070
- Kondrashkov, V. V. see Anishkovich, E. M., 91g:86007
- Kotalski, Z. Elastic waves in randomly stratified medium. Analytical results. 91k:73043
- Norris, A. N. see Chadwick, P., 91j:73005
- Patria, Maria Cristina see Borrelli, Alessandra, 91m:73039
- Rostamian, Rouben see Hager, William W., 91c:73036
- Saltanov, N. V. On representations of general solutions of the Lamé equation and the vector wave equation. (Russian. English summary) 91f:35069
- Squazzero, P. (with Kindelan, M.; Kamel, Aladin H.) Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. 91g:73070
- Stickler, David C. Some relationships between reflection and transmission coefficients for stratified elastic media. 91c:73035
- de Vicente, Santiago Harmonic analysis of parasitic waves on a first-order artificial boundary for acoustic-wave equations. (Spanish) (see 91j:00015)

73D20 Surface waves

- Arzhotin, V. D. Gaussian beams of anisotropic Love waves and their summation. (Russian. English summary) 91m:73025
- Barnett, D. M. (with Lothe, J.; Gundersen, S. A.) Zero curvature transonic states and free surface waves in anisotropic elastic media. 91c:73028
- Das, Tapan Kumar (with Sengupta, P. R.) Surface waves in general visco-elastic media of higher order. 91h:73040
- Dowalkh, M. A. (with Ogden, R. W.) On surface waves and deformations in a pre-stressed incompressible elastic solid. 91g:73020
- Gundersen, S. A. see Barnett, D. M.; et al., 91c:73028
- It's, E. N. Propagation of surface waves across a narrow layer between quarter spaces. (Russian) 91h:73027
- Kirpichnikova, N. Ya. (with Kiselev, A. P.) Anomalous polarization of Love and Rayleigh elastic waves in a layered structure. (Russian. English summary) (Not in MR)
- Kiselev, A. P. see Kirpichnikova, N. Ya., (Not in MR)
- Kuipers, M. (with van de Ven, A. A. F.) Rayleigh-gravity waves in a heavy elastic medium. 91h:73028
- Lothe, J. see Barnett, D. M.; et al., 91c:73028
- Mukherjee, Animesh (with Sengupta, P. R.) Surface waves in thermoviscoelastic media of higher order. 91m:73026
- Ogden, R. W. see Dowalkh, M. A., 91g:73020
- O'Leary, P. M. Response of a class of low-loss viscoelastic materials to an oscillating source. 91h:73051

- Rożnowski, T. Surface waves in an isotropic elastic nonhomogeneous semi-space. (Russian and Polish summaries) 91d:73022
- Sengupta, P. R. *see* Das, Tapan Kumar, 91k:73040 and Mukherjee, Animesh, 91m:73026
- van de Ven, A. A. F. *see* Kuipers, M., 91b:73028

Items with secondary classifications in 73D20

- Abd-Alla, Abo-el-Nour N. (with Maugin, Gérard A.) Linear and nonlinear surface waves on magnetostrictive substrates. 91m:73063
- Askar, Attila *see* Can, Mehmet, 91f:76023
- Attou, D. *see* Maugin, Gérard A., 91f:73032
- Austin, David M. *see* Gregory, R. D., 91e:73035
- Can, Mehmet (with Askar, Attila) Nonlinear elastic surface gravity waves: continuous and discontinuous solutions. 91f:76023
- Debnath, Lokenath *see* Mukherjee, Animesh; et al., 91k:73061
- Domanski, W. Surface and boundary waves for linear hyperbolic systems: applications to basic equations of electrodynamics and mechanics of continuum. (Russian and Polish summaries) 91i:35121
- Frydrychowicz, Wacław (with Singh, Mansa C.) Discontinuous solutions of nonlinear wave phenomena by similarity approach. 91m:35139
- Gregory, R. D. (with Austin, David M.) Scattering of waves by a semicylindrical groove in the surface of an elastic half-space. 91e:73035
- Hunter, John K. Nonlinear surface waves. 91a:35105
- Lenz, J. *see* Majorkowska-Knap, K., 91j:73055
- Majorkowska-Knap, K. (with Lenz, J.) Nonexistence of Bleustein-Gulyaev-waves in nonclassical dielectric, centrosymmetric cubic crystals. 91j:73055
- Mangin, Gérard A. (with Attou, D.) An asymptotic theory of thin piezoelectric plates. 91f:73032
- *see also* Abd-Alla, Abo-el-Nour N., 91m:73063
- Mukherjee, Animesh (with Sengupta, P. R.; Debnath, Lokenath) Surface waves in higher order visco-elastic media under the influence of gravity. 91k:73061
- Sengupta, P. R. *see* Mukherjee, Animesh; et al., 91k:73061
- Singh, Mansa C. *see* Frydrychowicz, Wacław, 91m:35139
- Surnev, V. B. (with Tolmachév, V. V.) Efficient parameters of the propagation of elastic waves in a medium with discrete inclusions. (Russian) (Not in MR)
- Tolmachév, V. V. *see* Surnev, V. B., (Not in MR)

73D25 Wave diffraction and dispersion

- Abrahams, I. D. (with Wickham, G. R.) General Wiener-Hopf factorization of matrix kernels with exponential phase factors. 91k:73018
- Andronov, I. V. Scattering of a flexural wave by a finite rectilinear crack in an elastic plate. 91e:73031
- Modeling of scattering processes on a crack in an elastic plate by means of a zero-range potential. (Russian. English summary) (Not in MR)
- Angel, Y. C. Singular integral equation for antiplane-wave scattering by a semi-infinite crack. 91e:73032
- Austin, David M. *see* Gregory, R. D., 91e:73035
- Babich, V. M. The passage of a wave through a thin layer. 91d:73023
- Bencheikh, L. Modified fundamental solutions for the scattering of elastic waves by a cavity. 91e:73033
- Berger, N. E. *see* Phanord, D. D., 91j:73018 and 91j:73019
- Budaev, B. V. Diffraction of elastic waves by a free wedge. Reduction to a singular integral equation. (Russian. English summary) 91b:73029
- Caviglia, Giacomo (with Morro, Angelo) A uniqueness theorem for the scattering of harmonic waves in a fluid-solid medium. (Italian summary) 91d:73024
- Costabel, Martin (with Stephan, E. P.) Integral equations for transmission problems in linear elasticity. 91g:73021
- Dravinski, Marijan *see* Eshraghi, Hossein, (Not in MR)
- Eshraghi, Hossein (with Dravinski, Marijan) Scattering of elastic waves by nonaxisymmetric three-dimensional dipping layer. (Not in MR)
- Getman, I. P. (with Ustinov, Yu. A.) Wave propagation in an elastic longitudinally nonhomogeneous cylinder. 91m:73027
- Givoli, Dan (with Keller, Joseph B.) Nonreflecting boundary conditions for elastic waves. 91e:73034
- Gorkovets, A. A. (with Kremlev, A. N.) Unitarity and a recurrent method for calculating scattering matrices for plane waves on an elastic layered medium. (Russian) 91k:73041
- Gregory, R. D. (with Austin, David M.) Scattering of waves by a semicylindrical groove in the surface of an elastic half-space. 91e:73035
- Hadouni, Hichem (with Maugin, Gérard A.) Une onde solitaire se propageant sur un substrat élastique recouvert d'un film mince. (English summary) [A solitary wave propagating on an elastic substrate coated with a thin film] 91b:73030
- Hager, William W. (with Rostamian, Rouben) Total absorption in elastic media. 91e:73036
- Keller, Joseph B. *see* Givoli, Dan, 91e:73034
- Kiriaki, Kiriakie Low-frequency expansions for a penetrable ellipsoidal scatterer in an elastic medium. 91b:73031
- Kremlev, A. N. *see* Gorkovets, A. A., 91k:73041
- Krishnasamy, G. (with Schmerr, L. W.; Rudolph, Thomas J.; Rizzo, F. J.) Hypersingular boundary integral equations: some applications in acoustic and elastic wave scattering. 91e:73029
- Leppington, F. G. The effective boundary conditions for a perforated elastic sandwich panel in a compressible fluid. 91b:73032
- Martin, Paul Andrew Thin interface layers: adhesives, approximations and analysis. (see 91k:73002)
- Maugin, Gérard A. *see* Hadouni, Hichem, 91b:73030
- Morro, Angelo *see* Caviglia, Giacomo, 91d:73024
- Nakano, Masayoshi The Wiener-Hopf technique applied to the diffraction problem due to a slit. 91j:73017
- Pence, Thomas J. On the encounter of an acoustic shear pulse with a phase boundary in an elastic material: reflection and transmission behavior. 91k:73042
- Phanord, D. D. (with Berger, N. E.) Multiple scattering of elastic waves by a distribution of identical spheres. 91j:73018
- (with Berger, N. E.) Reciprocity relations and energy theorems for multiple scattering of elastic waves. 91j:73019
- Putaper, A. I. Nonlinear interactions of longitudinal and flexural waves in a rod. (Russian) (see 91b:34004)
- Rizzo, F. J. *see* Krishnasamy, G.; et al., 91e:73029
- Rostamian, Rouben *see* Hager, William W., 91e:73036
- Rudolph, Thomas J. *see* Krishnasamy, G.; et al., 91e:73029
- Schmerr, L. W. *see* Krishnasamy, G.; et al., 91e:73029
- Stephan, E. P. *see* Costabel, Martin, 91g:73021
- Surnev, V. B. (with Tolmachév, V. V.) Efficient parameters of the propagation of elastic waves in a medium with discrete inclusions. (Russian) (Not in MR)
- Tolmachév, V. V. *see* Surnev, V. B., (Not in MR)
- Ustinov, Yu. A. *see* Getman, I. P., 91m:73027
- Vasudevan, Nareesh An elastic wave scattering problem relating to the rapid movement of a fracture in a plate. II. Numerical results. (Not in MR)
- Wickham, G. R. *see* Abrahams, I. D., 91k:73018

Items with secondary classifications in 73D25

- Abrahams, I. D. (with Wickham, G. R.) Acoustic scattering by two parallel slightly staggered rigid plates. 91j:76056
- (Achenbach, J. D.) *see* Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
- Apostolopoulos, Theodore (with Kiriaki, Kiriakie; Polyzos, Demosthenes) The inverse scattering problem for a rigid ellipsoid in linear elasticity. 91e:73043
- Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Bielestein, Norman (with Cohen, Jack K.) Stacking of narrow aperture common shot inversions. 91a:73017
- Byas, E. A. Time fields for reflective waves in three-dimensional layered media with weakly curvilinear interfaces and laterally inhomogeneous layers. (Russian) 91b:86009
- Brio, M. (with Hunter, John K.) Rotationally invariant hyperbolic waves. 91f:35161
- Budreck, David E. (with Rose, James H.) Three-dimensional inverse scattering in anisotropic elastic media. 91g:73022
- Cohen, Jack K. *see* Bielestein, Norman, 91a:73017
- Dassios, George (with Kostopoulos, Vassilis) Thermoelastic Rayleigh scattering by a rigid ellipsoid. (Portuguese summary) 91k:73012
- (with Kostopoulos, Vassilis) On Rayleigh expansions in thermoelastic scattering. 91d:73005
- (Datta, S. K.) *see* Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
- Dawson, Trevor W. (with Fawcett, John A.) A boundary integral equation method for acoustic scattering in a waveguide with nonplanar surfaces. 91d:76070
- Deshwal, P. S. *see* Mohan, Narinder, 91j:86001
- Ding, Yu (with Planchard, Jacques) Une méthode numérique pour le problème inverse des ondes acoustiques en régime harmonique diffractées par une surface rigide en 2D. [A numerical method for solving the inverse problem of acoustical waves diffracted by a two-dimensional rigid surface in a harmonic region] 91g:76075
- Dyzlewicz, Janusz (with Kolodziej, Czesław) Second dynamic, axially-symmetric problem of micropolar theory of elasticity. (French, Russian and Polish summaries) 91b:73003
- Eshov, N. E. (with Smagin, S. I.) Solution of three-dimensional stationary problems of diffraction by the method of potentials. 91h:76070
- Falzarini, L. S. (with Shapiro, S. A.) Scattering of seismic waves and the fractal character of inhomogeneities of the lithosphere. (Russian) 91a:86008
- Fat'yanov, A. G. A semi-analytic method for solving direct dynamical problems in layered media. (Russian) 91b:86002
- Fawcett, John A. *see* Dawson, Trevor W., 91d:76070
- Go'din, S. V. Boundary effects with integral continuation of wave fields. (Russian) 91a:86009
- Howe, M. S. Scattering by a surface inhomogeneity on an elastic half-space, with application to fluid-structure interaction noise. 91e:76099
- Hunter, John K. *see* Brio, M., 91f:35161
- IPlinski, A. S. (with Mikheev, A. G.) Diffraction of a wave by a periodic reflecting surface. (Russian) 91k:35048
- It's, E. N. Propagation of surface waves across a narrow layer between quarter spaces. (Russian) 91b:73027
- Jones, C. Mal' A. Scattering by a semi-infinite sandwich panel perforated on one side. 91k:76143
- Karlsson, Anders (with Kristensson, Gerhard) Wave splitting in the time domain for a radially symmetric geometry. 91f:35154
- Katranov, A. G. *see* Likhachyov, V. M.; et al., 91f:33013
- Kawashita, Mishio (with Soga, Hideo) Mode-conversion of the scattering kernel for the elastic wave equation. 91j:35213
- Kiriaki, Kiriakie *see* Apostolopoulos, Theodore; et al., 91e:73043
- Kolodziej, Czesław *see* Dyzlewicz, Janusz, 91b:73003
- Kostopoulos, Vassilis *see* Dassios, George, 91d:73005 and 91k:73012
- Kotulski, Z. Elastic waves in randomly stratified medium. Analytical results. 91k:73043
- Kristensson, Gerhard *see* Karlsson, Anders, 91f:35154
- Likhachyov, V. M. (with Katranov, A. G.; Stashkevich, A. I.) Calculation of a special function in mathematical diffraction theory. (Russian) 91f:33013
- MacCamy, Richard C. *see* Bielak, J., 91m:65270
- McCoy, John J. (with Wales, Stephen C.) Another interpretation and derivation of one-way wave theories. 91f:35079
- Meister, E. (with Speck, F.-O.) The explicit solution of elastodynamical diffraction problems by symbol factorization. (German and Russian summaries) 91d:35061
- Mikheev, A. G. *see* IPlinski, A. S., 91k:35048
- Miklowitz, Julius Modern corner, edge, and crack problems in linear elastodynamics involving transient waves. 91h:73023
- Mohan, Narinder (with Deswal, P. S.) P-wave scattering at vertical barriers in a deep ocean. 91j:86001

Pekurovskii, L. E. (with Poruchikov, V. B.; Sozonenko, Yu. A.) ★ Взаимодействие волн с телами. (Russian) [Interaction of waves with bodies] 91j:76060

Planchar, Jacques see Ding, Yu, 91g:76075

Polyzois, Demosthenes see Apostolopoulos, Theodore; et al., 91e:73043

Poruchikov, V. B. see Pekurovskii, L. E.; et al., 91j:76060

(Rajapakse, Y. S.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002

Rose, James H. see Budreck, David E., 91g:73022

Shapiro, S. A. see Fainman, I. S., 91a:86008

Shibata, Yoshihiro (with Soga, Hideo) Scattering theory for the elastic wave equation. 91f:35204

Smagla, S. I. see Ershov, N. E., 91h:76070

Smyshlyayev, V. P. Ray-mode representations of Green's function in a three-dimensional homogeneous waveguide. (Russian. English summary) 91h:76072

Soga, Hideo Asymptotic solutions of the elastic wave equation and reflected waves near boundaries. 91k:35144

— see also Shibata, Yoshihiro, 91f:35204 and Kawashita, Mitsuho, 91j:35213

Sozonenko, Yu. A. see Pekurovskii, L. E.; et al., 91j:76060

Speck, F.-O. see Meister, E., 91d:35061

Spivack, Mark Operator splitting for the random wave moment equations. 91h:65210

Stashkevich, A. I. see Likhachev, V. M.; et al., 91f:33013

Stephan, E. P. see Wendland, Wolfgang L., 91k:35063

Stickler, David C. Some relationships between reflection and transmission coefficients for stratified elastic media. 91c:73035

Tew, R. H. Ray theory of the diffraction of sound by an inhomogeneous membrane. 91e:76103

Wales, Stephen C. see McCoy, John J., 91f:35079

Wall, David J. N. Uniqueness theorems for the inverse problem of elastodynamic boundary scattering. 91h:73022

Wendland, Wolfgang L. (with Stephan, E. P.) A hypersingular boundary integral method for two-dimensional screen and crack problems. 91k:35063

Wickham, G. R. see Abraham, I. D., 91j:76056

Yamamoto, Kazuhiro The behaviour of scattered plane waves of elastic wave equations and applications to scattering theory. 91k:35190

Items listed otherwise than by author

Boulder, CO ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002

Elastic waves and ultrasonic nondestructive evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002

IUTAM Symposium:

Elastic Wave Propagation and Ultrasonic Evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002

73D30 Linear vibrations [see also 70Jxx]

Andreev, V. P. (with Gudkov, V. V.) Elastic oscillations of an isotropic infinite cylinder of a special cross section. (Russian) 91h:73033

Andriyanov, V. L. (with Krysov, S. V.) Interaction of a material point with a string on an elastic foundation. (Russian) 91h:73037

Babeshko, V. A. On the nonuniqueness of solutions of dynamic mixed problems for systems of stamps. 91e:73038

— see also Obratsov, I. F., 91d:73026

Bolgov, A. A. (with Tishchenko, V. N.) A representation of solutions of dynamical problems in elasticity theory. (Russian) 91h:73019

De Silva, C. N. see Meshenish, A., 91h:73020

Egorov, A. G. Damping of elastic waves in thin-layered saturated porous media. 91c:73030

El-Attary, Mohamed (with Khater, Ahmed) Wave propagation due to a moving line load on a pre-stressed elastic plate. 91e:73039

Folk, Robert T. see Herczynski, Andrzej, 91h:73034

Gudkov, V. V. see Andreev, V. P., 91h:73033

Geyadere, J.-L. Uncertainty bounds for energy of imperfectly described vibration fields. Application to the validity of truncated modal expansion. 91d:73025

Hargé, Thierry Valeurs propres d'un corps élastique. (English summary) [Eigenvalues for an elastic body] 91j:73020

Herczynski, Andrzej (with Folk, Robert T.) Orthogonality condition for the Pochhammer-Three modes. 91h:73034

Kaplanov, Yu. D. Equations of high-frequency long-wave vibrations of an elastic layer lying on an acoustic half-space. 91f:73012

Khater, Ahmed see El-Attary, Mohamed, 91e:73039

Kotelnik, Z. Elastic waves in randomly stratified medium. Analytical results. 91k:73043

Krupenik, V. L. Transformation of the vibration modes of a string that interacts with two straight stretched obstacles. 91k:73044

Krysov, S. V. see Andriyanov, V. L., 91h:73037

Meshenish, A. (with De Silva, C. N.) Shock waves in curved beams. 91h:73020

Moodie, T. Bryant Wave solutions for variable loading of cavities in inhomogeneous plates. 91j:73021

Obratsov, I. F. (with Babeshko, V. A.) Some features of the oscillation of semibounded domains. 91d:73026

Pustovoi, K. S. (with Troyanovskii, I. E.; Shadakov, I. N.) An approach to solving three-dimensional dynamical problems in elasticity and viscoelasticity theory for bodies of complex form. 91d:73027

Shadakov, I. N. see Pustovoi, K. S.; et al., 91d:73027

Tishchenko, V. N. see Bolgov, A. A., 91h:73019

Troyanovskii, I. E. see Pustovoi, K. S.; et al., 91d:73027

Vasil'ev, D. G. Two-term asymptotics of the spectrum of natural frequencies of a thin elastic shell. 91d:73028

Items with secondary classifications in 73D30

Adamchik, Yu. A. Asymptotics of the norm square of a solution of a problem on natural torsional oscillations of a sphere that is filled with a radially inhomogeneous elastic medium. (Russian) 91m:86008

Akulenko, L. D. (with Mikhailov, S. A.; Nesterov, S. V.) Oscillations of an oscillator near the interface of two fluids. 91d:76081

Amendola, G. (with Manes, A.) Vibrations in a spherical cavity in a Signorini-Cattaneo thermoelastic solid. (Italian. English summary) 91c:73008

Banerjee, Prasanta K. see Israeli, A. S. M., 91a:73075

Banichuk, N. V. (with Ivanova, S. Yu.; Sharanyuk, A. V.) ★ Динамика конструкций. Анализ и оптимизация. (Russian) [Dynamics of structures. Analysis and optimization] 91m:73055

Banks, H. T. (with Fabiano, R. H.; Wang, Yun) Inverse problem techniques for beams with tip body and time hysteresis damping. (Portuguese summary) 91e:73080

Caviglia, Giacomo (with Morro, Angelo) Generalized symmetries and conservation laws: a Noether-type approach. 91m:58045

Chen, Goong (with Zhou, Jian Xin) The wave propagation method for the analysis of boundary stabilization in vibrating structures. 91h:73072

— see also Huang, Fa Lun; et al., 91h:47038

Chen, Shu Ping (with Triggiani, Roberto) Characterization of domains of fractional powers of certain operators arising in elastic systems, and applications. 91m:47054

Cowan, Lawrence C. (with Dupont, Todd F.; Wheeler, Mary F.) A priori estimates for mixed finite element methods for the wave equation. 91f:65163

Datko, R. Some second-order vibrating systems cannot tolerate small time delays in their damping. 91c:34042

Debnath, Lokenath see Kumar, Rajneesh; et al., 91h:73045

Dupont, Todd F. see Cowan, Lawrence C.; et al., 91f:65163

Ebin, David G. (with Simanca, Santiago R.) Small deformations of incompressible bodies with free boundary. 91j:35288

Elishakoff, Isaac Some questions in eigenvalue problems in engineering. (see 91m:65005)

Fabiano, R. H. see Banks, H. T.; et al., 91e:73080

Fedorov, F. I. Three-dimensional perturbation theory. (Russian. English summary) 91a:65088

Gogna, M. L. see Kumar, Rajneesh; et al., 91h:73045

van Groesen, E. see Mainardi, Francesco, 91d:35129

Harichandran, Ronald S. see Zhang, Yan, 91e:73112

Horgan, Cornelius O. (with Payne, Lawrence E.) Lower bounds for free membrane and related eigenvalues. (Italian summary) 91h:35237

Huang, Fa Lun (with Liu, Kang Sheng; Chen, Goong) Differentiability of the semigroup associated with a structural damping model. 91h:47038

Israeli, A. S. M. (with Banerjee, Prasanta K.) Advanced development of time-domain BEM for two-dimensional scalar wave propagation. 91a:73075

Ivanova, S. Yu. see Banichuk, N. V.; et al., 91m:73055

Jiang, Song L^p - L^q estimates for solutions to the damped plate equation in exterior domains. 91k:35043

Kecs, W. W. Longitudinal oscillations in a homogeneous elastic beam in the form of a truncated circular cone. (Romanian) 91h:73042

Khludnev, A. M. Optimal control of a plate over an obstacle. 91e:49005

Klirin, E. Ya. The Fourier method in a problem of the vibrations of a cylindrical shell. (Russian) (see 91k:00010)

Kobayashi, Shoichi Recent progress in BEM for elastodynamics. (see 91b:00044)

Krasny, M. Causal theories of evolution and wave propagation in mathematical physics. 91c:73016

Kumar, Rajneesh (with Gogna, M. L.; Debnath, Lokenath) On Lamb's plane problem in micropolar viscoelastic half-space with stretch. 91h:73045

Lasticka, Irena Asymptotic behavior of the solutions of the Kirchhoff plate with nonlinear dissipation in the bending moment. 91f:35052

— (with Triggiani, Roberto) Exact controllability of the Euler-Bernoulli equation with boundary controls for displacement and moment. 91h:93016

Lawrenyuk, S. P. Existence of the generalized solutions of the Cauchy problem for degenerate equations of the type of oscillation of a plate. (Russian) 91e:35062

— A problem without initial conditions for an equation of the type of oscillation of a plate. (Russian. English summary) 91f:35179

— The Cauchy problem for a degenerate equation of plate oscillation type. (Russian) 91f:35180

Le Dret, Hervé Vibrations of a folded plate. (French summary) 91g:73046

Leray, Jean An elastic half-plane and the theory of generalized functions. (Russian) 91m:35186

Liu, Kang Sheng see Huang, Fa Lun; et al., 91h:47038

Luca, Ioana Waves in a thermoviscoelastic half-space of integral type. 91a:73024

Mainardi, Francesco (with van Groesen, E.) Energy propagation in linear hyperbolic systems. 91d:35129

Manes, A. see Amendola, G., 91c:73008

Mel'nik, V. N. Existence and uniqueness theorems for the generalized solution to one-dimensional nonstationary problems in coupled electroelasticity. (Russian) 91j:35264

Mikhailov, S. A. see Akulenko, L. D.; et al., 91d:76081

Mokole, E. L. (with Mullikin, A. L.; Stedd, M. B.) Exact and steady-state solutions to sinusoidally excited, half-infinite chains of harmonic oscillators with one isotopic defect. 91g:82042

Morro, Angelo see Caviglia, Giacomo, 91m:58045

Mullikin, A. L. see Mokole, E. L.; et al., 91g:82042

Nesterov, S. V. see Akulenko, L. D.; et al., 91d:76081

Newland, D. E. ★ Mechanical vibration analysis and computation. 91a:73044

Nikitin, L. V. (with Tyurekhodzhev, A. N.) Wave propagation and vibration of elastic rods with interfacial frictional slip. 91j:73062

Oleinik, O. A. Frequencies of natural oscillations of bodies with concentrated masses. (Russian) 91c:35012

Payne, Lawrence E. see Horgan, Cornelius O., 91h:35237

Petyt, Maurice ★ Introduction to finite element vibration analysis. 91c:73054

Racke, Reinhard L^p - L^q -estimates for solutions to the equations of linear thermoelasticity in exterior domains. 91j:35051

Sanchez Hubert, J. (with Sánchez-Palencia, E.) ★ Vibration and coupling of continuous systems. 91c:00018

Sánchez-Palencia, E. see Sanchez Hubert, J., 91c:00018

- Sarychev, A. V. (with Shuvalov, A. L.) Stability of acoustic axes in an elastic medium. (Russian. English summary) 91h:73024
- Scarpeta, Edoardo On the fundamental solutions in micropolar elasticity with voids. 91f:73003
- (Shapiro, Z. Ya.) see Leray, Jean, 91m:35186
- Sharanyuk, A. V. see Banichuk, N. V.; et al., 91m:73055
- Shatina, A. V. Asymptotic properties of solutions of a class of mechanical systems with an infinite number of degrees of freedom. (Russian) 91h:34081
- Shkred, A. V. A problem on the oscillations of an elastic transversally isotropic half-cylinder. 91d:47035
- Shuvalov, A. L. see Sarychev, A. V., 91h:73024
- Simana, Santiago R. see Ebin, David G., 91j:35288
- Simoner, I. V. Asymptotic analysis of three-dimensional dynamical equations of thin two-layer elastic plates. 91e:73079
- Slod, M. B. see Mokole, E. L.; et al., 91g:82042
- Sumbatyan, M. A. A plane contact problem for an elastic layer at high oscillation frequencies. 91e:73107
- Triggiani, Roberto see Lasiecka, Irena, 91h:93016 and Chen, Shu Ping, 91m:47054
- Tyurekhodzhev, A. N. see Nikitin, L. V., 91j:73062
- Wang, Yun see Banks, H. T.; et al., 91e:73080
- Wheeler, Mary F. see Cownar, Lawrence C.; et al., 91h:65163
- Zhang, Yan (with Harichandran, Ronald S.) Implicit subdomain integration for dynamic analysis of large-scale structural systems. 91e:73112
- Zhou, Jian Xia see Chen, Goong, 91h:73072

73D35 Nonlinear vibrations [see also 70Kxx]

- Abdella, K. see Tait, R. J.; et al., 91m:73029
- Barclay, D. W. see Moodie, T. Bryant, 91k:73047
- Bychenkov, V. A. (with Krysov, S. V.) Application of the phase-plane method to the study of steady oscillations in one-dimensional elastic systems excited by moving loads. (Russian) (see 91e:00007)
- Cadet, S. see Maugis, Gérard A., 91h:73046
- Chirijă, S. (with Rionero, Salvatore) Some continuous data dependence and uniqueness results for nonlinear elastodynamics on unbounded domain. 91e:73040
- Coleman, Bernard D. (with Newman, Daniel C.) On waves in slender elastic rods. 91h:73021
- Dresig, H. see Vulfson, I. I., 91d:73029
- Duncan, Dugald B. see Tait, R. J.; et al., 91m:73029
- Feireisl, Eduard Forced vibrations in one-dimensional nonlinear thermoelasticity as a local coercive-like problem. 91h:73015
- Joly, Patrick Un nouveau résultat d'existence d'ondes guidées en milieu élastique hétérogène. (English summary) [A new existence result for guided waves in elastic heterogeneous media] 91k:73045
- Krysov, S. V. see Bychenkov, V. A., (91e:00007)
- Kalikinskii, A. G. Peculiarities of the behavior of nonlinear quasitransversal waves in an elastic medium with a small anisotropy. (Russian) 91e:73031
- Massoudi, M. see Rajagopal, K. R.; et al., 91m:73028
- Maugis, Gérard A. (with Cadet, S.) Existence of solitary waves in martensitic alloys. 91h:73046
- Moodie, T. Bryant (with Barclay, D. W.) Padé-extended wavefront expansions and nonlinear dissipative waves. 91h:73047
- Newman, Daniel C. see Coleman, Bernard D., 91h:73021
- Rajagopal, K. R. (with Massoudi, M.; Wineman, A. S.) Exact solutions in nonlinear elastodynamics. 91m:73028
- Rionero, Salvatore see Chirijă, S., 91e:73040
- Samosonov, A. M. (with Sokurinskaya, E. V.) Energy exchange between nonlinear waves in elastic waveguides and external media. 91e:73032
- Sokurinskaya, E. V. see Samosonov, A. M., 91e:73032
- Tait, R. J. (with Abdella, K.; Duncan, Dugald B.) Approximate Riemann solvers and waves on a nonlinear elastic string. 91m:73029
- Vulfson, I. I. (with Dresig, H.) Methods for the analysis of the vibrations of mechanisms. (Russian. English summary) 91d:73029
- Wineman, A. S. see Rajagopal, K. R.; et al., 91m:73028

Items with secondary classifications in 73D35

- Abd-Alla, Abo-el-Neer N. (with Maugis, Gérard A.) Nonlinear equations for thermoelastic magnetizable conductors. 91h:73092
- Antman, Stuart S. (with Szymczak, William G.) Nonlinear elastoplastic waves. 91j:73027
- Askar, Atilla see Can, Mehmet, 91f:76023
- Banichuk, N. V. (with Ivanova, S. Yu.; Sharanyuk, A. V.) ★ Динамика конструкций. Анализ и оптимизация. (Russian) [Dynamics of structures. Analysis and optimization] 91m:73055
- Can, Mehmet (with Askar, Atilla) Nonlinear elastic surface gravity waves: continuous and discontinuous solutions. 91f:76023
- Choi, Q-Hueng (with Jung, Tacksun) On periodic solutions of the nonlinear suspension bridge equation with a rotary inertia term. 91h:35032
- Chruszczak, A. Strong solutions of nonlinear equations of vibrations of shells. 91h:73025
- Chueshov, I. D. A problem on nonlinear oscillations of a shallow shell in a quasistatic formulation. 91h:35217
- Currò, Carmela Wave features of a hodograph-like transformation for quasilinear hyperbolic systems. (Italian summary) 91i:35005
- El Naschie, M. S. On certain homoclinic soliton in elastic stability. 91e:73050
- Engelbrecht, Jüri K. (with Fridman, V. E.; Pelinovskii, E. N.) ★ Nonlinear evolution equations. 91h:35222
- Ermentrout, G. Bard Oscillator death in populations of "all to all" coupled nonlinear oscillators. 91c:34055
- Esham, Benjamin F., Jr. (with Weinacht, Richard J.) Hyperbolic-parabolic singular perturbations for scalar nonlinearities. 91a:35021

- (with Weinacht, Richard J.) Hyperbolic-parabolic singular perturbations for quasilinear equations. 91a:35022
- Fazio, Riccardo A nonlinear hyperbolic free boundary value problem. 91f:65203
- Feireisl, Eduard Time-dependent invariant regions for parabolic systems related to one-dimensional nonlinear elasticity. (Russian and Czech summaries) 91f:35131
- Fitzgibbon, William E. Limiting behavior of the strongly damped extensible beam equation. 91g:35050
- Fitzpatrick, J. A. (with Rice, H. J.) Equivalent time domain procedures for bispectral analysis. 91e:73095
- Fridman, V. E. Steady waves in active birefracting media. 91f:35234
- see also Engelbrecht, Jüri K.; et al., 91k:35222
- Fu, Y. B. (with Scott, N. H.) The evolution law of one-dimensional weak nonlinear shock waves in elastic nonconductors. 91e:73041
- (with Scott, N. H.) The evolutionary behaviour of plane transverse weak nonlinear shock waves in unstrained incompressible isotropic elastic nonconductors. 91e:73042
- Głowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91f:73038
- Ivanova, S. Yu. see Banichuk, N. V.; et al., 91m:73055
- Jung, Tacksun see Choi, Q-Hueng, 91h:35032
- Le Tallec, Patrick see Głowinski, Roland, 91f:73038
- Martynenko, Mikhailo D. (with Nguen Dang Bik) The existence of solitary waves propagating in an elastostatic space. 91h:73056
- Maugis, Gérard A. see Abd-Alla, Abo-el-Neer N., 91h:73092
- McKenna, P. J. (with Walter, Wolfgang L.) Travelling waves in a suspension bridge. 91a:73043
- Medeiros, L. A. (with Miranda, M. Milla) On a nonlinear wave equation with damping. 91h:35211
- Miranda, M. Milla see Medeiros, L. A., 91h:35211
- Newland, D. E. ★ Mechanical vibration analysis and computation. 91m:73044
- Nguen Dang Bik see Martynenko, Mikhailo D., 91h:73056
- Park, Sungtae see Silverberg, Larry M., 91e:70017
- Pelinovskii, E. N. see Engelbrecht, Jüri K.; et al., 91k:35222
- Perera, Dacal Carvalhe Existence, uniqueness and asymptotic behavior for solutions of the nonlinear beam equation. 91d:35144
- Potashnikov, D. V. A problem on the decay of an arbitrary discontinuity for a flexible thread. 91a:73031
- Rice, H. J. see Fitzpatrick, J. A., 91e:73095
- Scott, N. H. see Fu, Y. B., 91e:73041 and 91e:73042
- Sharanyuk, A. V. see Banichuk, N. V.; et al., 91m:73055
- Silverberg, Larry M. (with Park, Sungtae) Interactions between rigid-body and flexible-body motions in maneuvering spacecraft. 91e:70017
- Singh, Manas C. Similarity analysis of hyperbolic partial differential equations arising in nonlinear unidirectional wave motion. 91g:35169
- Szymczak, William G. see Antman, Stuart S., 91j:73027
- Torrejón, Ricardo (with Yong, Jiong Min) On a quasilinear wave equation with memory. 91m:35153
- Valid, Roger Élastodynamique non linéaire des coques minces en énergie complémentaire. (English summary) [Nonlinear elastodynamics of thin shells in complementary energy] 91f:73027
- Walter, Wolfgang L. see McKenna, P. J., 91a:73043
- Weinacht, Richard J. see Esham, Benjamin F., Jr., 91a:35021 and 91a:35022
- Yong, Jiong Min see Torrejón, Ricardo, 91m:35153

73D40 Singular surfaces

- Fu, Y. B. (with Scott, N. H.) The evolution law of one-dimensional weak nonlinear shock waves in elastic nonconductors. 91e:73041
- (with Scott, N. H.) The evolutionary behaviour of plane transverse weak nonlinear shock waves in unstrained incompressible isotropic elastic nonconductors. 91e:73042
- (with Scott, N. H.) One-dimensional shock waves in simple materials with memory. 91h:73048
- Gupta, Kishan Chand see Singh, Avtar, (Not in MR)
- Nistor, I. Acceleration waves in nonlinear Cosserat media. (Romanian summary) 91a:73016
- Patra, Maria Cristina Discontinuity waves of order $r \geq 1$ in an inhomogeneous anisotropic linear elastic solid. 91e:73033
- Scott, N. H. see Fu, Y. B., 91e:73041; 91e:73042 and 91h:73048
- Singh, Avtar (with Gupta, Kishan Chand) Propagation of discontinuities in a nonhomogeneous viscoelastic rod with varying cross-section. (Not in MR)

Items with secondary classifications in 73D40

- Antman, Stuart S. (with Szymczak, William G.) Nonlinear elastoplastic waves. 91j:73027
- Balashov, D. B. (with Kamenyazh, Ya. A.) Simple waves in an elastic-ideally plastic medium. 91g:73027
- Bykovtsev, A. G. The process of plastic loading behind the front of an unloading shock wave. 91g:73028
- Bykovtsev, A. S. (with Kramarovskii, D. B.) Unsteady supersonic motion of a complex discontinuity. 91g:73027
- Dascalu, Cristian Singular surfaces in the linear theory of thermoelectromagnetic rigid materials. 91k:73093
- De Silva, C. N. see Meshenish, A., 91h:73020
- Dragan, W. J. (with Shen, Yining) Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations. 91g:73032a

- (with Shen, Yinong) Erratum: "Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations". 91g:73032b
- Frydrychowicz, Wacław (with Singh, Mansa C.) Discontinuous solutions of nonlinear wave phenomena by similarity approach. 91m:35139
- Garaizar, Xabier (with Glimm, James; Guo, W.) Elastic deformation and slug flow as applications of front tracking. 91d:73063
- Gilquin, H. (with Serre, Denis) Well-posedness of the Riemann problem; consistency of the Godunov's scheme. 91h:65113
- Glimm, James see Garaizar, Xabier; et al. 91d:73063
- Gelfin, S. V. The method of discontinuities in problems of geophysics and tomography. (Russian) 91a:86010
- Guo, W. see Garaizar, Xabier; et al. 91d:73063
- Kamenyash, Ya. A. see Balashov, D. B.; et al. 91g:73027
- Kramarovskii, D. B. see Bykovtsov, A. S.; et al. 91c:73027
- Lalicata, M. V. see Torrisi, Mariano; et al. 91g:73032
- Li, Yong Chi see Tang, Zhi Jing; et al. 91a:73020
- Moshenish, A. (with De Silva, C. N.) Shock waves in curved beams. 91h:73020
- Pember, Richard B. see Trangenstein, John A.; et al. 91h:73027
- Peace, Thomas J. On the encounter of an acoustic shear pulse with a phase boundary in an elastic material: reflection and transmission behavior. 91k:73042
- Potashnikov, D. V. A problem on the decay of an arbitrary discontinuity for a flexible thread. 91a:73031
- Serre, Denis see Gilquin, H.; et al. 91h:65113
- Shen, Yinong see Dragan, W. J.; et al. 91g:73032a and 91g:73032b
- Singh, Mansa C. see Frydrychowicz, Wacław; et al. 91m:35139
- Suliciu, L. On modelling phase transitions by means of rate-type constitutive equations. Shock wave structure. 91e:73054
- Szymczak, William G. see Antman, Stuart S.; et al. 91g:73027
- Tang, Zhi Jing (with Ting, Thomas C. T.; Li, Yong Chi) Two-dimensional stress wave analysis in incompressible elastic solids. 91a:73020
- Ting, Thomas C. T. (with Wang, Tankin) The Goursat-Riemann problem for plane waves in isotropic elastic solids with velocity boundary conditions. 91k:73051
- see also Tang, Zhi Jing; et al. 91a:73020
- Torrisi, Mariano (with Lalicata, M. V.) Some similarity solution for a hyperelastic half space with finite deformations. 91g:73032
- Trangenstein, John A. (with Pember, Richard B.) The Riemann problem for longitudinal motion in an elastic-plastic bar. 91h:73027
- Wang, Tankin see Ting, Thomas C. T.; et al. 91k:73051

73D50 Inverse problems [see also 35Lxx, 35R30]

- Apostolopoulos, Theodore (with Kiriaki, Kiriaki; Polyzos, Demosthenes) The inverse scattering problem for a rigid ellipsoid in linear elasticity. 91e:73043
- Beylkin, G. (with Burridge, R.) Linearized inverse scattering problems in acoustics and elasticity. 91c:73034
- Bleistein, Norman Large wave number aperture-limited Fourier inversion and inverse scattering. 91h:73035
- (with Cohen, Jack K.) Stacking of narrow aperture common shot inversions. 91a:73017
- Budreck, David E. (with Rose, James H.) Inverse scattering in general anisotropic elastic media. (see 91k:73002)
- (with Rose, James H.) Three-dimensional inverse scattering in anisotropic elastic media. 91g:73022
- Burridge, R. see Beylkin, G.; et al. 91c:73034
- Cohen, Jack K. see Bleistein, Norman; et al. 91a:73017
- Kiriaki, Kiriaki see Apostolopoulos, Theodore; et al. 91e:73043
- Lomazov, V. A. A problem of diagnosis of elastic semibounded bodies. 91h:73036
- Ortaglio, Michael L. An inverse scattering formula that uses all the data. 91e:73044
- Polyzos, Demosthenes see Apostolopoulos, Theodore; et al. 91e:73043
- Rose, James H. see Budreck, David E.; et al. 91g:73022 and 91k:73002
- Sacks, Paul E. (with Symes, William W.) Velocity inversion from common offset data. 91h:73037
- Stickler, David C. Some relationships between reflection and transmission coefficients for stratified elastic media. 91c:73035
- Symes, William W. see Sacks, Paul E.; et al. 91h:73037
- Tsilbulchik, G. M. Continuation of elastic displacement fields and an inverse problem on the reconstruction of sources. (Russian) 91h:73038
- Wall, David J. N. Uniqueness theorems for the inverse problem of elastodynamic boundary scattering. 91h:73022
- Yakhno, V. G. ★ Обратные задачи для дифференциальных уравнений упругости. (Russian) [Inverse problems for differential equations of elasticity] 91m:73030

Items with secondary classifications in 73D50

- (Achenbach, J. D.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
- Assous, F. (with Collino, F.) A numerical method for the exploration of sensitivity: the case of the identification of the 2D stratified elastic medium. 91d:86008
- Banks, H. T. (with Fabiano, R. H.; Wang, Yun) Inverse problem techniques for beams with tip body and time hysteresis damping. (Portuguese summary) 91e:73000
- Collino, F. see Assous, F.; et al. 91d:86008
- Darwish, A. A. On the inverse scattering problem for a generalized Sturm-Liouville differential operator. 91g:34046
- (Datta, S. K.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
- Ding, Hua² (with Zheng, Zhe Min; Xu, Shou Ze) A new approach to inverse problems of wave equations. 91k:65118
- Fabiano, R. H. see Banks, H. T.; et al. 91e:73000
- Glebov, A. F. A class of optimization algorithms for solving inverse kinematic problems. (Russian) 91c:86009
- de Hoop, Adrianna T. Reciprocity theorems for acoustic wave fields in fluid/solid configurations. 91c:76097
- (Rajapakse, Y. S.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002

- Ramm, Alexander G. Uniqueness result for inverse problem of geophysics. I. 91j:35283
- Wang, Yun see Banks, H. T.; et al. 91e:73000
- Xu, Shou Ze see Ding, Hua²; et al. 91k:65118
- Zheng, Zhe Min see Ding, Hua²; et al. 91k:65118
- Zhu, Ben Ren Discretized inverse scattering problems and Gelfand-Levitan equations. 91d:65213

Items listed otherwise than by author

- Boulder, CO ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
- Elastic waves and ultrasonic nondestructive evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
- IUTAM Symposium:
Elastic Wave Propagation and Ultrasonic Evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002

73D70 Random waves

Items with secondary classifications in 73D70

- Dimenberg, M. F. ★ Случайные процессы в динамических системах с переменными параметрами. (Russian) [Random processes in dynamical systems with variable parameters] 91g:70022
- Gozani, Joseph Two-scale expansion of wave propagation in a random medium. 91m:35228
- Kotlinski, Z. Elastic waves in randomly stratified medium. Analytical results. 91k:73043
- Spivack, Mark Operator splitting for the random wave moment equations. 91h:65210

73D99 None of the above, but in this section

- Angel, Y. C. On the static and dynamic equilibrium of concentrated loads in linear acoustics and linear elasticity. 91k:73016
- Beskos, D. E. see Manolis, G. D.; et al. 91c:73037
- Bychenkov, V. A. (with Utkin, G. A.) Integro-differential equations of the motion of an elastic ring. (Russian) (see 91k:34004)
- Chen, Dai-Heng (with Nisitani, Hironobu; Noguchi, Hiroshi) Analysis of elastodynamic problems based on the principle of superposition. Extension of the body force method to elastodynamic problems. 91d:73030
- Citrini, Claudio (with Marchionna, Clelia) On the motion of a string vibrating against a gluing obstacle. (Italian summary) 91c:73036
- Corberó, Jaime see Santos, Juan E.; et al. 91h:73039
- Dinescu, Alexandru Material symmetry and propagation of transversal acceleration waves. 91f:73013
- Deineka, V. S. see Sergienko, I. V.; et al. 91j:73022
- Ding, Yu (with Planchard, Jacques) Méthode d'optimisation pour résoudre le problème d'impédance inverse des ondes acoustiques en régime harmonique en 2 dimensions. [An optimization method for solving the inverse impedance problem for acoustical waves in a harmonic region in two dimensions] (Not in MR)
- Douglas, Jim, Jr. see Santos, Juan E.; et al. 91h:73039
- Fedorov, A. F. see Fedorov, F. I.; et al. 91k:73049
- Fedorov, F. I. (with Fedorov, A. F.) On the structure of the Green-Christoffel tensor. 91k:73049
- Kirpichnikova, N. Ya. Methods for calculating successive approximations in the asymptotic space-time ray method of Gaussian beams. II. An isotropic inhomogeneous elastic medium. (Russian. English summary) 91a:73018
- Li, Yong Chi see Tang, Zhi Jing; et al. 91a:73020
- Loktionov, B. A. (with Pleshkevich, A. L.) The difference method for solving the eikonal equation. (Russian) 91c:73045
- Lovera, Oscar M. see Santos, Juan E.; et al. 91h:73039
- Loe, En Generalized Hamilton-type quasivariational principles in geometrically nonlinear elastodynamics. (Chinese. English summary) (Not in MR)
- Malnardi, Francesco (with Vitali, Giuliano) Applications of the method of steepest descents in wave-propagation problems. 91h:73017
- Manolis, G. D. (with Beskos, D. E.) Boundary integral equation formulation for dynamic poroelasticity. 91c:73037
- Marchionna, Clelia see Citrini, Claudio; et al. 91c:73036
- Maugin, Gérard A. see Pouget, Joël; et al. 91c:73038 and 91c:73039
- Miklowitz, Julius Modern corner, edge, and crack problems in linear elastodynamics involving transient waves. 91h:73023
- Molotkov, L. A. A study of the propagation of waves in models of cracked media. (Russian. English summary) 91g:73023
- Nisitani, Hironobu see Chen, Dai-Heng; et al. 91d:73030
- Noguchi, Hiroshi see Chen, Dai-Heng; et al. 91d:73030
- Paraschiv, Iuliana Acceleration waves in transversally isotropic nonlinear elastic solids. 91a:73019
- Planchard, Jacques see Ding, Yu; (Not in MR)
- Pleshkevich, A. L. see Loktionov, B. A.; et al. 91c:73045
- Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. I. Basic equations. 91c:73038
- (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. II. Propagation of solitons. 91c:73039
- Rymarz, Cz. Boundary value problems for a filtration model of the linear theory of elasticity and their generalized solutions. (Russian and Polish summaries) 91e:73046
- Santos, Juan E. (with Douglas, Jim, Jr.; Corberó, Jaime; Lovera, Oscar M.) A model for wave propagation in a porous medium saturated by a two-phase fluid. 91h:73039
- Sarychev, A. V. (with Shuvalov, A. L.) Stability of acoustic axes in an elastic medium. (Russian. English summary) 91h:73024
- Sergienko, I. V. (with Deineka, V. S.; Skopetskii, V. V.) ★ Задачи о динамическом равновесии сред с тонкими малопорочными включениями, их собственными значениями и формами. (Russian) [Problems on the dynamic equilibrium of media with thin low-durability inclusions, their eigenvalues and forms] 91j:73022
- Shuvalov, A. L. see Sarychev, A. V.; et al. 91h:73024

- Skopetski, V. V. *see* Sergienko, I. V.; et al., 91b:73022
- Sokolowski, M. Application of the method of equivalent moments to static and dynamical problems of elastic media with cylindrical holes and inclusions. (Italian summary) 91b:73050
- Tang, Zhi Jing (with Ting, Thomas C. T.; Li, Yong Chi) Two-dimensional stress wave analysis in incompressible elastic solids. 91a:73020
- Ting, Thomas C. T. (with Wang, Tankin) The Goursat-Riemann problem for plane waves in isotropic elastic solids with velocity boundary conditions. 91k:73051
- *see also* Tang, Zhi Jing; et al., 91a:73020 and Zhu, Guangshan, 91c:73040
- Utkin, G. A. *see* Bychenkov, V. A., (91b:34004)
- Vitali, Giallano *see* Mainardi, Francesco, 91b:73017
- Wang, Min Hua Applications of the theory of positive symmetric systems to problems of elastomechanics. (Chinese) (Not in MR)
- Wang, Tankin *see* Ting, Thomas C. T., 91k:73051
- Zhu, Guangshan (with Ting, Thomas C. T.) Classification of 2×2 non-strictly hyperbolic systems for plane waves in isotropic elastic solids. 91c:73040
- Zvolinskii, N. V. Frictional self-induced oscillations of an elastic layer. (Russian) 91k:73052

Items with secondary classifications in 73D99

- Abramov, Yu. Sh. Regular waveguide systems that generate two-parameter operator pencils of waveguide type. (Russian) (see 91k:00025)
- Afanasyev, S. B. (with Kozlov, E. A.) An algorithm for solving two-dimensional wave elastoplastic problems by the Godunov method. (Russian) 91b:73019
- Altan, Ş. Barhanettin Some theorems in nonlocal thermoelasticity. 91c:73007
- Bera, Rasajit Kumar *see* Mukhopadhyay, B., 91b:73062
- Bercovier, Michel *see* Ross, Dora, 91k:73099
- Brie, M. An example of a Riemann problem of second kind. 91a:35104
- Bulychev, G. G. The characteristic form of equations in the dynamics of anisotropic elastoviscoplastic media. 91k:73055
- Cadet, S. *see* Maugin, Gérard A., 91b:73046
- Caviglia, Giacomo (with Morro, Angelo; Pagani, Enrico) Inhomogeneous waves in viscoelastic media. 91b:73044
- Chandrasekharalah, D. S. A complete solution in elastodynamics. 91m:73015
- Chelminski, K. (with Lada, Andrzej; Sidz, L.) Remarks on the wave front of polarization: polarized solutions for the evolution three-dimensional Lamé system. 91b:58147
- Chigarev, A. V. An averaging method in dynamic problems in the theory of elasticity of structurally heterogeneous media. 91b:73064
- Cohen, Harley (with Thomas, R. S. D.) Decay of transient waves in inhomogeneous anisotropic elastic shells. 91b:73026
- (with Thomas, R. S. D.) Transient waves in inhomogeneous elastic shells of variable thickness. (Not in MR)
- Dzhondzhorov, P. A uniqueness theorem for elastic media with special properties. (Russian. English and Bulgarian summaries) 91k:73013
- El Naschie, M. S. (with Kapitaniak, Tomasz) Envelope soliton chaos model for mechanical system. (see 91m:58001)
- (Engelbrecht, Jüri K.) *see* Nonlinear waves in active media, 91b:00046
- Fat'yanov, A. G. A semi-analytic method for solving direct dynamical problems in layered media. (Russian) 91b:86002
- Fusco, D. (with Manganaro, N.) Evolution equations compatible with quasilinear hyperbolic models involving source-like terms. 91b:35194
- Galkov, A. L. (with Meshcheryakov, Yu. I.) Propagation of an elastoplastic wave in a material with dislocation kinetics of plastic deformation. 91b:73041
- Garaizar, Xabier (with Glimm, James; Guo, W.) Elastic deformation and slug flow as applications of front tracking. 91d:73063
- Georgiadis, H. G. An integral equation approach to self-similar plane-elastodynamic crack problems. 91k:73088
- Glimm, James *see* Garaizar, Xabier; et al., 91d:73063
- Gumenyuk, B. P. *see* Karnaukhov, V. G., 91b:73005
- Guo, W. *see* Garaizar, Xabier; et al., 91d:73063
- Guz', A. N. (with Nemish, Yu. N.) ★ Метод возмущения формы границы в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007
- Haber, Robert B. *see* Tortorelli, Daniel A.; et al., 91b:73071
- Haddow, J. B. (with Wegner, J. L.) Some thermodynamic aspects of finite amplitude unloading waves in hyperelastic strings. (German and Russian summaries) 91m:73008
- Hai, Wen Hua Simplification of the general equations for the elastodynamics of a rigid-plastic material. (Chinese. English summary) 91c:73050
- Hayes, Michael Much ado about ellipses and ellipsoids. 91d:73021
- Hughes, Thomas J. R. *see* Hulbert, Gregory M., 91b:73044
- Hulbert, Gregory M. (with Hughes, Thomas J. R.) Space-time finite element methods for second-order hyperbolic equations. 91b:73044
- Ienija, Gabriela Arbitrary acceleration waves in liquid crystals. I. Waves in subfluids. 91b:76007
- Arbitrary acceleration waves in liquid crystals. II. Waves in liquid crystals. 91b:76008
- Ito, Hiroya On a mixed problem of linear elastodynamics with a time-dependent discontinuous boundary condition. 91j:35169
- Jiang, Song Rapidly decreasing behaviour of solutions in nonlinear 3-D-thermoelasticity. 91i:35032
- Kapitaniak, Tomasz *see* El Naschie, M. S., (91m:58001)
- Karnaukhov, V. G. (with Gumenyuk, B. P.) ★ Термомеханика предварительно деформированных вязкоупругих тел. (Russian) [Thermomechanics of predeformed viscoelastic bodies] 91b:73005
- Kozlov, E. A. *see* Afanasyev, S. B., 91b:73019
- Lada, Andrzej *see* Chelminski, K.; et al., 91b:58147
- Leis, R. Initial-boundary value problems in elasticity. 91d:35216
- Lopatnikov, S. L. *see* Vinogradova, O. S., 91d:76078
- Lu, Stephen C.-Y. *see* Tortorelli, Daniel A.; et al., 91b:73071
- Manganaro, N. *see* Fusco, D., 91b:35194
- Maugin, Gérard A. (with Cadet, S.) Existence of solitary waves in martensitic alloys. 91k:73046
- Meleshko, S. V. Double waves in an ideal rigidly plastic body under plane deformation. 91b:73028
- Meshcheryakov, Yu. I. *see* Galkov, A. L., 91b:73041
- Melodenski, M. S. ★ Общая теория упругих колебаний Земли. (Russian) [General theory of the elastic oscillations of the Earth] 91b:86021
- Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012
- *see also* Öncü, T. S., 91e:73015
- Morre, Angelo *see* Caviglia, Giacomo; et al., 91b:73044
- Moskal'kov, M. N. (with Utebaev, D.) Investigation of efficient difference schemes for dynamic problems in elasticity theory in the class of nonsmooth solutions. (Russian) 91b:73088
- Mukhopadhyay, B. (with Bera, Rasajit Kumar) Infinite viscoelastic solid containing distributed instantaneous and continuous heat sources with thermal relaxation. 91k:73062
- Nagiev, R. F. (with Rubisov, D. G.) Impulse motions in a one-dimensional system in a gravitational force field. 91m:70017
- Nakhmei, E. L. (with Nuller, B. M.) Dynamic contact problems for an orthotropic elastic half-plane and a composite plane. (Russian) (Not in MR)
- Natroshtvili, D. G. (with Svanadze, M. Zh.) Potential methods in the problems of linear theory of elastic mixtures. 91k:73024
- Nemish, Yu. N. *see* Guz', A. N., 91f:73007
- Nistor, I. Acceleration waves in nonlinear Cosserat media. (Romanian summary) 91a:73014
- Nuller, B. M. *see* Nakhmei, E. L., (Not in MR)
- Öncü, T. S. (with Moodie, T. Bryant) Boundary-initiated wave phenomena in thermoelastic materials. 91e:73015
- Pagani, Enrico *see* Caviglia, Giacomo; et al., 91b:73044
- Perela, Ducival Carvalho (with Perla Menzala, G.) Exponential decay of solutions to a coupled system of equations of linear thermoelasticity. (Portuguese summary) 91c:73016
- Perla Menzala, G. *see* Perela, Ducival Carvalho, 91c:73016
- Racke, Reinhard On the Cauchy problem in nonlinear 3-d thermoelasticity. 91b:73017
- Ross, Dora (with Bercovier, Michel) Traveling waves in a cylinder rolling on a flat surface. (French summary) 91k:73099
- Rubisov, D. G. *see* Nagiev, R. F., 91m:70017
- Sachenkov, A. V. (with Timerbaev, R. M.) Application of general solutions of equations in elasticity theory to plate deformation problems. (Russian) 91k:73074
- Scarpeta, Edoardo A uniqueness theorem in the nonlinear dynamics of elastic materials with voids. 91e:73059
- Schiarone, Peter Uniqueness in dynamic problems of thin micropolar plates. (Not in MR)
- Sidz, L. *see* Chelminski, K.; et al., 91b:58147
- Solov'ev, V. S. On detecting nonlinear effects in seismology. (Russian) (Not in MR)
- Stevenson, Randy C. Green's function for the Helmholtz equation of a scalar wave in an anisotropic halfspace. 91e:35076
- Svanadze, M. Zh. *see* Natroshtvili, D. G., 91k:73024
- Swaters, Gordon E. *see* Moodie, T. Bryant, 91d:76012
- Thomas, R. S. D. *see* Cohen, Harley, 91b:73026 and (Not in MR)
- Timerbaev, R. M. *see* Sachenkov, A. V., 91k:73074
- Toson, Maria Luisa Strain energy for a transversally isotropic elastic rod. (Italian. English summary) 91b:73023
- Tortorelli, Daniel A. (with Lu, Stephen C.-Y.; Haber, Robert B.) Design sensitivity analysis for elastodynamic systems. 91b:73071
- Utebaev, D. *see* Moskal'kov, M. N., 91b:73088
- Vichnevetsky, Robert A quantum-like theory of wave propagation in periodic structures. 91d:65144
- Vinogradova, O. S. (with Lopatnikov, S. L.) Added mass in equations of motion of multiphase media. (Russian) 91d:76078
- Vukobrat, M. Dj. Conservation laws in micropolar elastodynamics and path-independent integrals. 91b:73005
- Wegner, J. L. *see* Haddow, J. B., 91m:73008
- Yamamoto, Kazuhiko Exponential energy decay of solutions of elastic wave equations with the Dirichlet condition. 91f:35155
- Zharli, O. Ya. The method of eigenfunction expansion in problems of dynamic electroelasticity. 91d:73058

Items listed otherwise than by author

- Colloquium:
 Nonlinear Waves in Active Media ★ Nonlinear waves in active media. 91b:00046
 Nonlinear waves in active media ★ Nonlinear waves in active media. 91b:00046
 Tallinn ★ Nonlinear waves in active media. 91b:00046

73Exx Plasticity

- Naghdi, P. M. A critical review of the state of finite plasticity. (Not in MR)

73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)

- Alfantis, E. C. *see* Dafalias, Y. F., 91c:73047
- Cocks, A. C. F. (with Leckie, F. A.) Creep constitutive equations for damaged materials. (see 91e:73003)
- Comi, Claudia (with Corigliano, Alberto) An extension of a shakedown theorem in elastoplastic dynamics. (Italian. English summary) 91j:73023
- (with Corigliano, Alberto; Maier, Giallo) Extremum properties of finite-step solutions in elastoplasticity with nonlinear mixed hardening. 91m:73031
- *see also* Corigliano, Alberto, 91i:73018

- Corigliano, Alberto (with Comi, Claudia) Extension to internal-variable constitutive laws of nonshakedown theorems in structural elastic-plastic dynamics. (Italian. English summary) 91h:73018
— see also Comi, Claudia, 91j:73023 and 91m:73031
- Dafalias, Y. F. (with Aifantis, E. C.) On the microscopic origin of the plastic spin. 91e:73047
- Ehlers, W. Eine neue thermodynamische Interpretation elastisch-plastischen Materialverhaltens. [A new thermodynamic interpretation of the behavior of elastoplastic materials] 91j:73024
- Fazio, C. J. A study of the mathematical foundations of the endochronic theory of plasticity. 91h:73025
- Gambis, W. A model of rigid-ideally plastic crystal. (Russian and Polish summaries) 91j:73024
— A simplified model of rigid-ideally plastic crystal. (Russian and Polish summaries) 91j:73025
- Hill, Rodney Constitutive modelling of orthotropic plasticity in sheet metals. 91g:73026
— A theoretical perspective on in-plane forming of sheet metal. 91m:73032
- Leckie, F. A. see Cocks, A. C. F., (91e:73003)
- Maier, Giulio see Comi, Claudia, et al., 91m:73031
- Martin, John B. (with Nappi, A.) An internal variable formulation for perfectly plastic and linear hardening relations in plasticity. 91h:73053
- Nappi, A. see Martin, John B., 91h:73053
- Parker, David F. Some generalized similarity solutions for plastic flow. 91e:73048
- Schaeffer, David G. Mathematical issues in the continuum formulation of slow granular flow. 91f:73014
— see also Shearer, Michael, 91d:73031
- Shearer, Michael (with Schaeffer, David G.) The quasidynamic approximation in critical state plasticity. 91d:73031
- Vasin, R. A. Constitutive relations in plasticity theory. (Russian. English summary) 91j:73054
- Weichert, D. Shakedown of shell-like structures allowing for certain geometrical nonlinearities. (Russian and Polish summaries) 91e:73049
- Items with secondary classifications in 73E05
- Aifantis, E. C. see Charalambakis, Nicolas, et al., 91m:73034
- Balashov, D. B. (with Kamenyazh, Ya. A.) Simple waves in an elastic-ideally plastic medium. 91g:73027
- Balla, Mihály see Szabó, László Albert, 91a:73002
- Barashanov, O. O. Limit surface loads in plasticity theory. 91m:73036
- Brovka, G. I. The concepts of a process image and of five-dimensional isotropy of material properties under finite deformations. 91e:73046
- Bykovtsev, G. I. see Shitikov, A. V., 91e:73062
- Caddemi, S. (with Martin, John B.) Convergence of the Newton-Raphson algorithm in elastic-plastic incremental analysis. 91j:73069
- Chanyuev, A. I. A mechanical model of an elastoplastic body. 91e:73051
- Charalambakis, Nicolas (with Rigatos, A.; Aifantis, E. C.) The stabilizing role of higher-order strain gradients in nonlinear thermoviscoplasticity. 91m:73034
- Christensen, R. M. see Nikkel, D. J., Jr., 91f:73033
- Cimetière, A. (with Destuynder, Philippe) A bending and buckling model for elastic-plastic plates. 91f:73025
- Collins, Ian F. The mathematical structure of the equations for quasi-static plane strain deformations of granular material. 91f:73015
- Comi, Claudia (with Maier, Giulio) Extremum theorem and convergence criterion for an iterative solution to the finite-step problem in elastoplasticity with mixed nonlinear hardening. 91h:73046
- Demengel, Françoise (with Tang, Qi) Convex function of a measure obtained by homogenization. 91g:28017
- Destuynder, Philippe see Cimetière, A., 91f:73025
- Durban, David A comparative study of simple shear at finite strains of elastoplastic solids. 91j:73033
- Ehlers, W. On thermodynamics of elasto-plastic porous media. (Russian and Polish summaries) 91e:73069
- Erlikhman, F. M. see Kerkhman, V. I., 91h:73028
- Eve, R. A. (with Gültop, T.; Reddy, B. D.) An internal variable finite-strain theory of plasticity within the framework of convex analysis. 91j:73034
- Feljó, R. A. (with Zouain, N.) A contribution to structural plasticity by optimization techniques. I. Potential functionals for rates and increments of stress and strain. (see 91f:73001)
- Gültop, T. see Eve, R. A.; et al., 91j:73034
- Harireche, O. see Loret, Benjamin; et al., 91f:73016
- Harris, David see Ostrowska-Maciejewska, J., 91h:73062
- Haupt, P. (with Tsakmakis, Ch.) On the application of dual variables in continuum mechanics. 91m:73002
- Honein, T. see Simo, J. C., 91m:73035
- Huang, Zhu Ping An upper displacement bound in dynamic shakedown problems for elastokinematic work-hardening materials. 91h:73040
- Huidobro Rojo, J. A. (with Robles, Arturo) A numerical algorithm for an elastoplasticity problem with mixed hardening. (Spanish. English summary) 91h:73043
- Kamenyazh, Ya. A. see Balashov, D. B., 91g:73027
- Kattan, P. I. see Voyiadis, G. Z., 91g:73034
- Kennedy, J. G. see Simo, J. C., (91f:73001)
- Kerkhman, V. I. (with Erlikhman, F. M.) A variational method for solving an elastoplastic problem for a body with a circular hole. 91h:73028
- Kukudzhanov, V. N. The mathematical modelling of dynamic elastoplastic processes of large deformations and damage. (see 91h:00032)
- Laborde, Patrick (with Michrafy, Abderrahim) Étude d'un modèle avec endommagement. (English summary) [Study of a model involving damage] 91a:73056
- Levitas, V. I. The structure of constitutive equations for phase transitions in two-phase thermoelastoplastic composites. (Russian. English summary) 91h:73017
- Li, Z. H. see Owen, D. R. J., 91h:73066
- Loret, Benjamin (with Prevost, J. H.; Harireche, O.) Loss of hyperbolicity in elastic-plastic solids with deviatoric associativity. 91f:73016
— Acceleration waves in elastic-plastic porous media: interlacing and separation properties. 91h:73039
- Lucchesi, Massimiliano (with Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. II. 91a:73026
- Maier, Giulio see Comi, Claudia, 91h:73046
- Martin, John B. see Caddemi, S., 91j:73069
- Matzenmiller, Anton ★ Ein rationales Lösungskonzept für geometrisch und physikalisch nichtlineare Strukturberechnungen. (German) [A rational solution concept for geometrically and physically nonlinear analysis of structures] 91f:73030
- Maugis, Gérard A. see Sabir, M., 91e:73073
- Michrafy, Abderrahim see Laborde, Patrick, 91a:73056
- Moran, B. (with Ortiz, Michael; Shih, C. F.) Formulation of implicit finite element methods for multiplicative finite deformation plasticity. 91e:73083
- Nikkel, D. J., Jr. (with Christensen, R. M.) A micro-mechanical model for aligned fiber elastic-plastic composites. 91f:73033
- Ortiz, Michael see Moran, B.; et al., 91e:73083
- Ostrowska-Maciejewska, J. (with Rychlewski, Jan) Plane elastic and limit states in anisotropic solids. (Russian and Polish summaries) 91h:73013
— (with Harris, David) Three-dimensional constitutive equations for rigid/perfectly plastic granular materials. 91h:73002
- Owen, D. R. J. (with Li, Z. H.) Refined finite element laminated models for the static and dynamic elasto-plastic analysis of anisotropic shells. 91h:73066
- Pečerski, R. B. The plastic spin concept and the theory of finite plastic deformations with induced anisotropy. (Russian and Polish summaries) 91g:73033
- Peleshko, V. A. Conditions for the mathematical well-posedness of a variant of differential-nonlinear relations of plasticity and methods for solving boundary value problems. (Russian) 91m:73033
- Per'kov, V. B. see Tolokonnikov, L. A., 91h:73057
- Percival, D. Perfectly plastic plates: a variational definition. 91h:73035
- Pitrova, Vladislav Shape optimization of an elastoplastic body for the model with strain-hardening. (Russian and Czech summaries) 91j:73050
- Pitman, E. Bruce Computations of granular flow in a hopper. 91f:73017
- Podio-Guidugli, Paolo see Lucchesi, Massimiliano, 91a:73026
- Polizzotto, C. Variational principles for boundary element formulations in structural mechanics. (see 91b:00041)
- Prevost, J. H. see Loret, Benjamin; et al., 91f:73016
- Raniecki, B. (with Samanta, S. K.) The thermodynamic model of a rigid-plastic solid with kinematic hardening, plastic spin and orientation variables. (Russian and Polish summaries) 91m:73010
- Reddy, B. D. see Eve, R. A.; et al., 91j:73034
- Rigatos, A. see Charalambakis, Nicolas; et al., 91m:73034
- Robles, Arturo see Huidobro Rojo, J. A., 91h:73043
- Rychlewski, Jan see Ostrowska-Maciejewska, J., 91h:73013
- Sabir, M. (with Maugis, Gérard A.) Microscopic foundations of the Barkhausen effect. (Russian and Polish summaries) 91e:73073
- Samanta, S. K. see Raniecki, B., 91m:73010
- Shih, C. F. see Moran, B.; et al., 91e:73083
- Shitikov, A. V. (with Bykovtsev, G. I.) Finite deformations of elastoplastic media. 91f:73062
- Simo, J. C. (with Kennedy, J. G.) Finite strain elastoplasticity in stress resultant geometrically exact shells. (see 91f:73001)
— (with Honein, T.) Variational formulation, discrete conservation laws, and path-domain independent integrals for elasto-viscoplasticity. 91m:73035
- Sobotka, Zdeněk ★ Theory of plasticity and limit design of plates. 91h:73062
- Sofonea, Mircea Some remarks on the behaviour of the solution in dynamic processes for rate-type models. 91j:73026
- Szabó, László Albert (with Balla, Mihály) Comparison of some stress rates. 91a:73002
- Tang, Qi see Demengel, Françoise, 91g:28017
- Teodosio, C. The plastic spin: microstructural origin and computational significance. (see 91f:73001)
- Tolokonnikov, L. A. (with Per'kov, V. B.) Some effective solutions of a problem on the flow of a metal in a layer. 91h:73057
- Tsakmakis, Ch. see Haupt, P., 91m:73002
- Voyiadis, G. Z. (with Kattan, P. I.) A generalized Eulerian two-surface cyclic plasticity model for finite strains. 91g:73034
- Yuan, Long Wei A nonlinear principle of viscoelastic-viscoplastic analogue. (Chinese summary) 91e:73045
- Zouain, N. see Feljó, R. A., (91f:73001)

73E20 Limit analysis

- Artem'ev, I. T. Analysis of a discontinuous velocity field in a rigidly plastic wedge with limit shear and rupture strength. (Russian) (see 91b:00025)
- Huang, Zhu Ping An upper displacement bound in dynamic shakedown problems for elastokinematic work-hardening materials. 91h:73040

Items with secondary classifications in 73E20

- Demengel, Françoise Compactness theorems for spaces of functions with bounded derivatives and applications to limit analysis problems in plasticity. 91h:46059
- Gao, Yang Extended bounding theorems for nonlinear limit analysis. 91j:73035
- Hill, Rodney A theoretical perspective on in-plane forming of sheet metal. 91m:73032
- Jiang, Yansheng ★ Slope analysis using boundary elements. 91h:73091
- Sobotka, Zdeněk ★ Theory of plasticity and limit design of plates. 91h:73062

73E50 Time-dependent problems

- Collins, Ian F. The mathematical structure of the equations for quasi-static plane strain deformations of granular material. 91f:73015

Flitman, L. M. Nonseparated high-velocity elastoplastic flow around a blunt body. (Russian) 91f:73025

Hal, Wen Hua Simplification of the general equations for the plastodynamics of a rigid-plastic material. (Chinese. English summary) 91e:73050

Harireche, O. *see* Loret, Benjamin; et al., 91f:73016

Loret, Benjamin (with Prevost, J. H.; Harireche, O.) Loss of hyperbolicity in elastic-plastic solids with deviatoric associativity. 91f:73016

Peleshko, V. A. Conditions for the mathematical well-posedness of a variant of differential-nonlinear relations of plasticity and methods for solving boundary value problems. (Russian) 91m:73033

Pitman, E. Bruce Computations of granular flow in a hopper. 91f:73017

Prevost, J. H. *see* Loret, Benjamin; et al., 91f:73016

Items with secondary classifications in 73E50

Adamov, V. I. *see* Markin, A. A., (91k:00025)

Afanas'ev, S. B. (with Kozlov, E. A.) An algorithm for solving two-dimensional wave elastoplastic problems by the Godunov method. (Russian) 91f:73019

Alfantis, E. C. *see* Charalambakis, Nicolas; et al., 91m:73034

Bulychev, G. G. The characteristic form of equations in the dynamics of anisotropic elastoviscoplastic media. 91k:73055

Charalambakis, Nicolas (with Rigatos, A.; Alfantis, E. C.) The stabilizing role of higher-order strain gradients in nonlinear thermoviscoplasticity. 91m:73034

Cleja-Tigoiu, Sanda Large elasto-plastic deformations for materials with relaxed configurations. II. Role of the complementary plastic factor. 91d:73032

Colli, Pierluigi (with Comincioli, Valeriano; Naldi, Giovanni; Torelli, Alessandro) A mathematical study of the plasticity effects in muscle contraction. 91k:73090

Comi, Claudia (with Corigliano, Alberto) An extension of a shakedown theorem in elastic-plastic dynamics. (Italian. English summary) 91f:73023

— *see also* Corigliano, Alberto, 91f:73018

Comincioli, Valeriano *see* Colli, Pierluigi; et al., 91k:73090

Corigliano, Alberto (with Comi, Claudia) Extension to internal-variable constitutive laws of nonshakedown theorems in structural elastic-plastic dynamics. (Italian. English summary) 91f:73018

— *see also* Comi, Claudia, 91f:73023

Eve, R. A. (with Reddy, B. D.; Rockafellar, R. Tyrrell) An internal variable theory of elastoplasticity based on the maximum plastic work inequality. 91a:73021

Gao, Yang Bound theorem on finite dynamic deformations of plasticity. 91b:73051

Kholodov, A. S. *see* Petrov, I. B.; et al., 91k:73058

Kozlov, E. A. *see* Afanas'ev, S. B., 91f:73019

Markin, A. A. (with Adamov, V. I.) Nonuniqueness and stability of processes of finite elastoplastic deformation. (Russian) (see 91k:00025)

Micunovic, M. V. Materials with thermoplastic memory. (see 91m:00030)

Naldi, Giovanni *see* Colli, Pierluigi; et al., 91k:73090

Parker, David F. Some generalized similarity solutions for plastic flow. 91e:73048

Petrov, I. B. (with Tormasov, A. G.) Numerical realization of three-dimensional shock problems. (Russian. English summary) 91g:65286

— (with Tormasov, A. G.; Kholodov, A. S.) On the use of hybridized grid-characteristic schemes for the numerical solution of three-dimensional problems of the dynamics of deformable solid bodies. (Russian) 91h:73058

Reddy, B. D. *see* Eve, R. A.; et al., 91a:73021

Rigatos, A. *see* Charalambakis, Nicolas; et al., 91m:73034

Rockafellar, R. Tyrrell *see* Eve, R. A.; et al., 91a:73021

Schaeffer, David G. Mathematical issues in the continuum formulation of slow granular flow. 91f:73014

— *see also* Shearer, Michael, 91d:73031

Shearer, Michael (with Schaeffer, David G.) The quasidynamic approximation in critical state plasticity. 91d:73031

Sofonea, Mircea Some remarks on the behaviour of the solution in dynamic processes for rate-type models. 91f:73026

Torelli, Alessandro *see* Colli, Pierluigi; et al., 91k:73090

Tormasov, A. G. *see* Petrov, I. B., 91g:65286 and 91h:73058

73E60 Viscoplasticity

Alfantis, E. C. *see* Charalambakis, Nicolas; et al., 91m:73034

Bulychev, G. G. The characteristic form of equations in the dynamics of anisotropic elastoviscoplastic media. 91k:73055

Charalambakis, Nicolas (with Rigatos, A.; Alfantis, E. C.) The stabilizing role of higher-order strain gradients in nonlinear thermoviscoplasticity. 91m:73034

Honein, T. *see* Simo, J. C., 91m:73035

Leroy, Yves M. *see* Molinari, Alain, 91h:73026

Molinari, Alain (with Leroy, Yves M.) Existence and stability of stationary shear bands with mixed-boundary conditions. (French summary) 91h:73026

Rigatos, A. *see* Charalambakis, Nicolas; et al., 91m:73034

Simo, J. C. (with Honein, T.) Variational formulation, discrete conservation laws, and path-domain independent integrals for elastoviscoplasticity. 91m:73035

Sofonea, Mircea Some remarks on the behaviour of the solution in dynamic processes for rate-type models. 91f:73026

Items with secondary classifications in 73E60

Antontsev, S. N. Localization of solutions for degenerate equations in continuum mechanics. 91f:35259

Belytschko, T. *see* Fish, J., 91a:73068

Benallal, Ahmed (with Geymonat, Giuseppe) Sur le problème en vitesses pour les solides élastoviscoplastiques endommageables en présence de zone rompue. (English summary) [On the rate boundary value problem for elastic-viscoplastic damageable solids containing a ruptured zone] 91e:73099

Chenot, J. L. *see* Coupez, T., (91f:73001)

Coupez, T. (with Chenot, J. L.) A new approach for enforcing the incompressibility in the finite element viscoplastic flow formulation. (see 91f:73001)

Fish, J. (with Belytschko, T.) A finite element with a unidirectionally enriched strain field for localization analysis. 91a:73068

Geymonat, Giuseppe *see* Benallal, Ahmed, 91e:73099

Glowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91f:73038

Govindjee, Sanjay *see* Simo, J. C., 91m:73038

Ionescu, Ioan R. Error estimates of an Euler method for a quasistatic elastic-viscoplastic problem. (German and Russian summaries) 91c:73044

Kayumov, Sh. (with Sadykov, M. K.) A regularized difference scheme for solving boundary value problems of nonlinear filtration. (Russian) 91e:76000

Klimov, V. S. Periodic and bounded solutions of evolution problems in the mechanics of viscoplastic media. 91m:35034

Koshur, V. D. (with Nemirovskii, Yu. V.) ★ Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91c:73098

Ladevize, Pierre La méthode à grand incrément de temps pour l'analyse de structures à comportement non linéaire décrit par variables internes. (English summary) [The large-time-increment method for the analysis of structures with nonlinear behavior described by internal variables] 91h:73089

Le Tallec, Patrick ★ Numerical analysis of viscoelastic problems. 91h:73029

— *see also* Glowinski, Roland, 91f:73038

Levitas, V. I. The structure of constitutive equations for phase transitions in two-phase thermoelectroplastic composites. (Russian. English summary) 91k:73017

Nemirovskii, Yu. V. *see* Koshur, V. D., 91c:73098

Sadykov, M. K. *see* Kayumov, Sh., 91e:76000

Simo, J. C. (with Govindjee, Sanjay) Nonlinear B-stability and symmetry preserving return mapping algorithms for plasticity and viscoplasticity. 91m:73038

Vasin, R. A. Constitutive relations in plasticity theory. (Russian. English summary) 91k:73054

Yuan, Long Wei A nonlinear principle of viscoelastic-viscoplastic analogue. (Chinese summary) 91c:73045

73E70 Plastic waves

Afanas'ev, S. B. (with Kozlov, E. A.) An algorithm for solving two-dimensional wave elastoplastic problems by the Godunov method. (Russian) 91f:73019

Antman, Stuart S. (with Szymczak, William G.) Nonlinear elastoplastic waves. 91f:73027

Balashov, D. B. (with Kamenyarch, Ya. A.) Simple waves in an elastic-ideally plastic medium. 91g:73027

Bykovtsev, A. G. The process of plastic loading behind the front of an unloading shock wave. 91f:73028

Galkov, A. L. (with Meshcheryakov, Yu. I.) Propagation of an elastoplastic wave in a material with dislocation kinetics of plastic deformation. 91h:73041

Kamenyarch, Ya. A. *see* Balashov, D. B., 91g:73027

Kozlov, E. A. *see* Afanas'ev, S. B., 91f:73019

Martynenko, Mikhail D. (with Nguen Dang Bik) The existence of solitary waves propagating in an elastoplastic space. 91k:73056

Meleshko, S. V. Double waves in an ideal rigidly plastic body under plane deformation. 91f:73028

Meshcheryakov, Yu. I. *see* Galkov, A. L., 91h:73041

Nguen Dang Bik *see* Martynenko, Mikhail D., 91k:73056

Pember, Richard B. *see* Trangenstein, John A., 91f:73027

Szymczak, William G. *see* Antman, Stuart S., 91f:73027

Trangenstein, John A. (with Pember, Richard B.) The Riemann problem for longitudinal motion in an elastic-plastic bar. 91h:73027

Items with secondary classifications in 73E70

Bulychev, G. G. The characteristic form of equations in the dynamics of anisotropic elastoviscoplastic media. 91k:73055

Drugan, W. J. (with Shen, Yinong) Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations. 91g:73032a

— (with Shen, Yinong) Erratum: "Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations". 91g:73032b

Flitman, L. M. Nonseparated high-velocity elastoplastic flow around a blunt body. (Russian) 91f:73025

Harireche, O. *see* Loret, Benjamin; et al., 91f:73016

Loret, Benjamin (with Prevost, J. H.; Harireche, O.) Loss of hyperbolicity in elastic-plastic solids with deviatoric associativity. 91f:73016

— Acceleration waves in elastic-plastic porous media: interlacing and separation properties. 91k:73039

Prevost, J. H. *see* Loret, Benjamin; et al., 91f:73016

Shen, Yinong *see* Drugan, W. J., 91g:73032a and 91g:73032b

73E99 None of the above, but in this section

Barabanov, O. O. Limit surface loads in plasticity theory. 91m:73036

Berviller, Marcel *see* Sabar, Hafid; et al., 91c:73041

Dulson, Manuel *see* Sabar, Hafid; et al., 91c:73041

Buzinovich, A. I. (with Yakunina, G. E.) On the form of a body of revolution of minimal resistance under unbroken penetration into plastically compressible media. 91h:73042

Chanyshv, A. I. A mechanical model of an elastoplastic body. 91e:73051

Chertova, N. V. *see* Grinyev, Yu. V., (Not in MR)

Erlikhman, F. M. *see* Kerschman, V. L., 91f:73028

Eve, R. A. (with Reddy, B. D.; Rockafellar, R. Tyrrell) An internal variable theory of elastoplasticity based on the maximum plastic work inequality. 91a:73021

Farzani, Ruzsida H. (with Mohamed, A. Sh.) Free boundary elastic-plastic problem. (Not in MR)

- Feijóo, R. A. (with Zouain, N.) A contribution to structural plasticity by optimization techniques. I. Potential functionals for rates and increments of stress and strain. (see 91f:73001)
- see also Zouain, N.; et al., (91f:73001)
- Govindjee, Sanjay see Simo, J. C., 91m:73038
- Griyaev, Yu. V. (with Chertova, N. V.) Gauge theory of plastic deformation in continuum mechanics. (Not in MR)
- Hecke, M. see Zouain, N.; et al., (91f:73001)
- Kerchman, V. I. (with Erlikhman, F. M.) A variational method for solving an elastoplastic problem for a body with a circular hole. 91h:73028
- Mamedov, A. K. An inverse problem of the reconstruction of the deformation diagram of an elastoplastic plate. (Russian) 91a:73022
- Mohamed, A. Sh. see Farzan, Ruzsán H., (Not in MR)
- Nguyen Quoc Son (with Triantafyllidis, Nicolas) Plastic bifurcation and postbifurcation analysis for generalized standard continua. 91h:73043
- Pen'kov, V. B. see Tolokonnikov, L. A., 91k:73057
- Reddy, B. D. see Eve, R. A.; et al., 91a:73021
- Rockafellar, R. Tyrrell see Eve, R. A.; et al., 91a:73021
- Sabar, Hafid (with Berveiller, Marcel; Buisson, Manuel) Problème d'inclusion à frontière mobile. (English summary) [An inclusion problem with moving boundary] 91c:73041
- Sensashov, S. I. A method for constructing exact solutions of equations of ideal plasticity. (Russian) 91f:73029
- Antiplane elastoplastic flow. (Russian. English summary) 91j:73030
- Serfaty, G. A. On the regularity of weak solutions of variational problems of plasticity theory. 91m:73037
- Sha, De Song (with Sun, Huan Chun; Zhang, Zhong Ding; Yin, Fu Xin) A variational inequality principle in solid mechanics and application in physically nonlinear problems. 91c:73042
- Simo, J. C. (with Govindjee, Sanjay) Nonlinear B -stability and symmetry preserving return mapping algorithms for plasticity and viscoplasticity. 91m:73038
- Sun, Huan Chun see Sha, De Song; et al., 91c:73042
- Tang, Qi Justification of elastoplastic plate models. 91c:73043
- Ting, Tsun Wu Free-boundary values in an elastic-plastic torsion problem. 91g:73029
- Tolokonnikov, L. A. (with Pen'kov, V. B.) Some effective solutions of a problem on the flow of a metal in a layer. 91k:73057
- Triantafyllidis, Nicolas see Nguyen Quoc Son, 91h:73043
- Yakunina, G. E. see Bunimovich, A. I., 91h:73042
- Yin, Fu Xin see Sha, De Song; et al., 91c:73042
- Zhang, Zhong Ding see Sha, De Song; et al., 91c:73042
- Zouain, N. (with Feijóo, R. A.; Hecke, M.) A contribution to structural plasticity by optimization techniques. II. Analysis of model discretization and mathematical programming algorithms for elastic-plastic incremental analysis. (see 91f:73001)
- see also Feijóo, R. A., (91f:73001)
- Items with secondary classifications in 73E99
- Artyunyan, N. Kh. (with Radaev, Yu. N.) Elastoplastic torsion of a cylindrical rod under finite deformations. 91c:73027
- Badur, Janusz Singular gauge transformations in dynamics of dislocations and disclinations. 91j:73056
- Benallal, Ahmed (with Billardon, René; Geymonat, Giuseppe) Phénomènes de localisation à la frontière d'un solide. (English summary) [Localization phenomena at the boundary of solids] 91g:73006
- Billardon, René see Benallal, Ahmed; et al., 91g:73006
- Boncheva, N. (with Todorov, St.; Yankov, R.) On a generalization of solution methods for plastic solids using the finite-element method. (Bulgarian. English and Russian summaries) (Not in MR)
- Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113
- Borkowski, A. (with Jendo, S.) ★ Structural optimization. Vol. 2. 91j:73046
- Bolovatski, V. M. Numerical-analytic solutions of some two- and three-dimensional boundary value problems in the mechanics of condensable media. (Russian) (see 91g:00031)
- Burguera, M. (with Vialto Rey, Juan M.) Numerical method for stress approximation in unilateral contact between two perfect plastic bodies. (see 91f:73001)
- (with Vialto Rey, Juan M.) Approximation of stress in a problem of unilateral contact between two perfectly plastic bodies. (Spanish) (see 91j:00015)
- Chernopazov, S. A. see Nyashin, Yu. I., 91c:73077
- Cleja-Tigola, Sanda (with Soós, Eugen) Elastoviscoplastic models with relaxed configurations and internal state variables. (Not in MR)
- Colli, Pierluigi (with Comincioli, Valeriano; Naldi, Giovanni; Torelli, Alessandro) A mathematical study of the plasticity effects in muscle contraction. 91k:73090
- Comincioli, Valeriano see Colli, Pierluigi; et al., 91k:73090
- Del Piero, Gianpiero Constitutive equation and compatibility of the external loads for linear elastic masonry-like materials. (Italian summary) 91f:73004
- Deng, Qing Ping A class of elastoplastic problems with the second boundary value condition. (Chinese) 91f:49014
- Dong, Lian Ke (with Zhang, Hong Tu) Static conservation laws of incompatible deformations and their applications. (Chinese. English summary) 91f:73006
- Dringisla, Lucia A special class of hypoelectric materials and soil liquefaction. 91d:73056
- Ehlers, W. On thermodynamics of elasto-plastic porous media. (Russian and Polish summaries) 91c:73009
- Gao, Yang (with Strang, Gilbert) Dual extremum principles in finite deformation elastoplastic analysis. 91a:73028
- (with Onat, E. T.) Rate variational extremum principles for finite elastoplasticity. 91f:73022
- Geymonat, Giuseppe see Benallal, Ahmed; et al., 91g:73006
- Gershkov, A. G. (with Tariakovskii, D. V.) Dynamical contact problems for a deformable half-space. (Russian. English summary) 91m:73068
- Guerreiro, João Nisan C. see Loula, Abimael F. D., 91a:73070
- Hadjikov, L. M. see Valeva, V. V., (91f:73001)
- Hardt, Robert (with Kinderlehrer, David) Variational principles with linear growth. 91c:73117
- Hill, Rodney A theoretical perspective on in-plane forming of sheet metal. 91m:73032
- (Hinton, E.) see Computational plasticity, 91f:73001
- Huang, Hou-Cheng ★ Static and dynamic analyses of plates and shells. 91a:73069
- Ito, Kazufumi (with Kunisch, Karl) An augmented Lagrangian technique for variational inequalities. 91h:49011
- Jendo, S. see Borkowski, A., 91j:73046
- Kawohl, Bernhard On a family of torsional creep problems. 91h:35126
- Kerchman, V. I. On the problem of the spreading and extrusion of a layer of a nonlinearly viscous fluid. 91h:76005
- Kinderlehrer, David see Hardt, Robert, 91c:73117
- Koralev, L. A. A variational solution of an elastoplastic problem for an infinite plane with a hole. (Russian) (see 91k:00025)
- Kunisch, Karl see Ito, Kazufumi, 91h:49011
- Ladevèze, Pierre La méthode à grand incrément de temps pour l'analyse de structures à comportement non linéaire décrit par variables internes. (English summary) [The large-time-increment method for the analysis of structures with nonlinear behavior described by internal variables] 91h:73069
- Léger, Alain (with Potier-Ferry, Michel) Bifurcations for plastic bodies in the plastic range. 91g:73038
- Loula, Abimael F. D. (with Guerreiro, João Nisan C.) Finite element analysis of nonlinear creeping flows. 91a:73070
- Lucchesi, Massimiliano Existence and uniqueness of stress for ideal plastic materials subject to finite deformations. (Italian. English summary) 91h:73052
- L'vov, G. I. (with Odintsova, E. V.) A contact problem for creep of a shallow shell that is reinforced by a strap. (Russian) 91g:73059
- Micunović, M. V. Materials with thermoplastic memory. (see 91m:00030)
- Müller, Ingo On the size of the hysteresis in pseudoelasticity. 91a:73005
- Naldi, Giovanni see Colli, Pierluigi; et al., 91k:73090
- Nguyen Quoc Son Stabilité et bifurcation des systèmes dissipatifs standards à comportement indépendant du temps physique. (English summary) [Stability and bifurcation of time-independent standard dissipative systems] 91c:73014
- Nyashin, Yu. I. (with Chernopazov, S. A.) On the formulation of a contact problem in elastoplasticity. 91c:73077
- Odintsova, E. V. see L'vov, G. I., 91g:73059
- Onat, E. T. see Gao, Yang, 91f:73022
- (Ohata, E.) see Computational plasticity, 91f:73001
- (Owen, D. R. J.) see Computational plasticity, 91f:73001
- Pollizotto, C. Variational principles for boundary element formulations in structural mechanics. (see 91b:00041)
- Errata: "An energy approach to the boundary element method. II. Elastic-plastic solids" [Comput. Methods Appl. Mech. Engrg. 69 (1988), no. 3, 263–276; 90b:65210]. 91g:65247
- Potier-Ferry, Michel see Léger, Alain, 91g:73038
- Radaev, Yu. N. see Artyunyan, N. Kh., 91c:73027
- (Reitman, M. I.) see Borkowski, A., 91j:73046
- Renardy, Michael Local existence of solutions of the Dirichlet initial-boundary value problem for incompressible hypoelectric materials. 91k:35151
- Sachenkov, A. V. (with Timerbaev, R. M.) A static-geometric analogy in the mechanics of a deformable solid. (Russian. English summary) 91f:73011
- (Sare, M.) see Borkowski, A., 91j:73046
- Schaeffer, David G. Instability and ill-posedness in the deformation of granular materials. 91c:73071
- Serfaty, G. A. Differential properties of solutions of variational problems for functionals of linear growth. (Russian) 91j:49024
- Differential properties of extremals of variational problems that arise in the theory of plasticity. 91j:49025
- Regularity of weak solutions of variational problems in plasticity theory. 91j:49059
- Soós, Eugen see Cleja-Tigola, Sanda, (Not in MR)
- Strang, Gilbert see Gao, Yang, 91a:73028
- Tariakovskii, D. V. see Gershkov, A. G., 91m:73068
- Timerbaev, R. M. see Sachenkov, A. V., 91f:73011
- Todorov, St. see Boncheva, N.; et al., (Not in MR)
- Torelli, Alessandro see Colli, Pierluigi; et al., 91k:73090
- Valeva, V. V. (with Hadjikov, L. M.) On a plane problem of electroelastoplasticity. (see 91f:73001)
- Vialto Rey, Juan M. see Burguera, M., (91f:73001) and (91j:00015)
- Vigdergauz, S. B. Geometric characteristics of constant-stress boundaries of elastic bodies. 91a:73003
- Walgraef, D. Flow field effects on dynamical instabilities. 91c:76063
- Watanabe, Osamu ★ Variational principles of elastoplasticity in finite deformation. 91k:73065
- Wiekowski, Z. Dual finite element analysis for two-dimensional plasticity problems. (see 91f:73001)
- Yankov, R. see Boncheva, N.; et al., (Not in MR)
- Zhang, Hong Tu see Dong, Lian Ke, 91f:73006
- Items listed otherwise than by author
- Barcelona ★ Computational plasticity. Part I, II. 91f:73001
- Computational plasticity ★ Computational plasticity. Part I, II. 91f:73001
- Conference:
- Computational Plasticity ★ Computational plasticity. Part I, II. 91f:73001

73Fxx Viscoelasticity

Le Tallec, Patrick ★ Numerical analysis of viscoelastic problems. 91h:73029

73F05 Creep and relaxation functions

Items with secondary classifications in 73F05

- Frischmuth, Kurt (with Kosiński, W.) Can the finite memory of a simple material be nontrivial? (Russian and Polish summaries) 91k:73005
- Kosiński, W. see Frischmuth, Kurt, 91k:73005
- Mahnken, Rolf (with Stein, Erwin) Adaptive time-step control in creep analysis. 91b:73087
- Stein, Erwin see Mahnken, Rolf, 91b:73087

73F15 Time-dependent problems

- Auriault, J.-L. see Boutin, C., 91k:73059
- Bera, Rajajit Kumar see Mukhopadhyay, B., 91k:73062
- Bercia, Romeo Existence and uniqueness for linear thermoviscoelasticity of integral type. 91k:73058
- Borrelli, Alessandra (with Patria, Maria Cristina) Discontinuity waves through a linear thermoviscoelastic solid of integral type. 91m:73039
- Boutin, C. (with Auriault, J.-L.) Dynamic behaviour of porous media saturated by a viscoelastic fluid. Application to bituminous concretes. 91k:73059
- Brilla, Igor Bifurcations of generalized von Kármán equations for circular viscoelastic plates. (Russian and Slovak summaries) 91k:73018
- Brilla, Jozsef On analysis of time dependent problems of mathematical viscoelasticity. (see 91h:00032)
- Caviglia, Giacomo (with Morro, Angelo) On the generation of conservation laws in viscoelasticity. 91k:73052
- (with Morro, Angelo) Conservation laws in viscoelasticity. 91g:73030
- (with Morro, Angelo; Pagani, Enrico) Inhomogeneous waves in viscoelastic media. 91k:73044
- Chipot, M. (with Vergara-Caffarelli, Giorgio) Viscoelasticity without initial condition. 91a:73023
- Chukmasov, S. A. see Gulyaev, Yu. G.; et al., 91k:73053
- Debnath, Lokenath see Kumar, Rajneesh; et al., 91b:73045 and Mukherjee, Animesh; et al., 91k:73061
- Druyan, V. M. see Gulyaev, Yu. G.; et al., 91k:73053
- Feedick, Roger L. (with Warner, W. H.; Yu, J. H.) Steady, structured shock waves in a viscoelastic solid of differential type. 91k:73060
- Gogna, M. L. see Kumar, Rajneesh; et al., 91b:73045
- Gulyaev, Yu. G. (with Druyan, V. M.; Chukmasov, S. A.; Kostizhev, G. P.; Lev, O. I.) A problem-oriented method for solving the second boundary value problem of the mechanics of a nonlinearly viscous medium. 91k:73053
- Ionescu, Ioan R. Error estimates of an Euler method for a quasistatic elastic-visco-plastic problem. (German and Russian summaries) 91c:73044
- Khoturyanskii, N. M. A variant of the correspondence principle for nonstationary dynamical problems in viscoelasticity. (Russian) 91j:73031
- Kostizhev, G. P. see Gulyaev, Yu. G.; et al., 91k:73053
- Kritskaya, S. S. (with Rogach, D. I.) Solution of an initial-boundary value problem that is connected with the longitudinal shock of a viscoelastic rod. (Russian) (see 91a:41002)
- Kumar, Rajneesh (with Gogna, M. L.; Debnath, Lokenath) On Lamb's plane problem in micropolar viscoelastic half-space with stretch. 91b:73045
- Lev, O. I. see Gulyaev, Yu. G.; et al., 91k:73053
- Luce, Ioana Waves in a thermoviscoelastic half-space of integral type. 91a:73024
- Manole, D. La détermination de la solution dans la théorie de la viscoélasticité linéaire. [Deriving solutions in the theory of linear viscoelasticity] 91g:73031
- Morro, Angelo see Caviglia, Giacomo; et al., 91b:73044; 91k:73052 and 91g:73030
- Mukherjee, Animesh (with Sengupta, P. R.; Debnath, Lokenath) Surface waves in higher order visco-elastic media under the influence of gravity. 91k:73061
- Mukhopadhyay, B. (with Bera, Rajajit Kumar) Infinite viscoelastic solid containing distributed instantaneous and continuous heat sources with thermal relaxation. 91k:73062
- Netas, Jindřich Dynamic in the nonlinear thermo-visco-elasticity. (see 91m:35005)
- Orlov, V. P. (with Sobolevskii, P. E.) Investigation of mathematical models of multidimensional viscoelastic media. (Russian. English summary) 91b:73046
- Pagani, Enrico see Caviglia, Giacomo; et al., 91b:73044
- Patria, Maria Cristina see Borrelli, Alessandra, 91m:73039
- Rogach, D. I. see Kritskaya, S. S., (91a:41002)
- Sengupta, P. R. see Mukherjee, Animesh; et al., 91k:73061
- Sobolevskii, P. E. see Orlov, V. P., 91b:73046
- Suliciu, I. On modelling phase transitions by means of rate-type constitutive equations. Shock wave structure. 91k:73054
- Talybly, I. Kh. Deformation of a viscoelastic cylinder fastened to a body under nonisothermal dynamic loading. (Not in MR)
- Trusfaner, N. A. A three-dimensional problem of viscoelasticity for a structure made of a thermo-unstable material with volume relaxation. (Russian) (see 91k:00025)
- Vergara-Caffarelli, Giorgio see Chipot, M., 91a:73023
- Warner, W. H. see Feedick, Roger L.; et al., 91k:73060
- Yu, J. H. see Feedick, Roger L.; et al., 91k:73060
- Items with secondary classifications in 73F15
- Agranovich, Yu. Ya. (with Sobolevskii, P. E.) Investigation of a mathematical model of a viscoelastic fluid. (Russian. English summary) 91b:35091
- Akhatov, I. Sh. Shear instability in stratified viscoelastic and gas-fluid media. 91a:76043
- Baranger, Jacques (with Sandri, Dominique) Approximation par éléments finis d'écoulements de fluides viscoélastiques: existence de solutions approchées et majoration d'erreur. I. Contraintes discontinues. (English summary) [Finite-element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints] 91m:65268
- Brilla, Igor Equivalent formulations of generalized von Kármán equations for circular viscoelastic plates. (Russian and Slovak summaries) 91g:35062
- Brio, M. (with Hunter, John K.) Rotationally invariant hyperbolic waves. 91f:35161
- Brokate, Martin (with Sprekels, Jürgen) Existence and optimal control of mechanical processes with hysteresis in viscous solids. 91k:35099
- Bychenkov, V. A. (with Krysov, S. V.) Application of the phase-plane method to the study of steady oscillations in one-dimensional elastic systems excited by moving loads. (Russian) (see 91e:00007)
- Caviglia, Giacomo (with Morro, Angelo) A uniqueness theorem for the scattering of harmonic waves in a fluid-solid medium. (Italian summary) 91d:73024
- Charalambakis, Nicolas (with Murat, François) Weak solutions to the initial-boundary value problem for the shearing of nonhomogeneous thermoviscoplastic materials. 91b:73008
- Chirijă, S. Continuous data dependence in thermodynamics of materials with heat conduction and viscosity on unbounded domains. 91e:73007
- Choi, U. Jin (with MacCamy, Richard C.) Fractional order Volterra equations. 91g:65300
- Cohen, Donald S. (with White, Andrew B., Jr.) Sharp fronts due to diffusion and viscoelastic relaxation in polymers. 91k:35058
- Coleman, Bernard D. On the loss of regularity of shearing flows of viscoelastic fluids. 91g:76005
- Cook, L. Pamela (with Schleiner, G.; Weinacht, Richard J.) Composite type, change of type, and degeneracy in first order systems with applications to viscoelastic flows. 91f:35188
- Cotsiolis, Athanasios (with Oskolkov, A. P.; Shadiev, R. D.) A priori estimates on the semiaxis for solutions of equations of motion of linear viscoelastic fluids with an infinite Dirichlet integral and their applications. (Russian. English summary) 91h:35261
- Das, Tapan Kumar (with Sengupta, P. R.) Surface waves in general visco-elastic media of higher order. 91k:73040
- David, J. M. see Solze, C.; et al., 91k:73053
- Desanti, Annick see Solze, C.; et al., 91k:73053
- Engler, Hans Weak solutions of a class of quasilinear hyperbolic integro-differential equations describing viscoelastic materials. 91k:35052
- Esham, Benjamin F., Jr. (with Weinacht, Richard J.) Boundary conditions for viscoelastic flows. (Italian summary) 91k:76012
- Fabiano, R. H. (with Ito, Kazufumi) Semigroup theory in linear viscoelasticity: weakly and strongly singular kernels. 91b:34137
- (with Ito, Kazufumi) Semigroup theory and numerical approximation for equations in linear viscoelasticity. 91b:45021
- Fraenkel, L. E. On a linear, partly hyperbolic model of viscoelastic flow past a plate. 91c:76002
- Fu, Y. B. (with Scott, N. H.) One-dimensional shock waves in simple materials with memory. 91k:73048
- Golden, J. M. (with Graham, G. A. C.) Energy balance criteria for viscoelastic fracture. 91g:73057
- Graham, G. A. C. see Golden, J. M., 91g:73057
- Gailloué, C. (with Saut, Jean-Claude) Existence results for the flow of viscoelastic fluids with a differential constitutive law. 91h:76007
- (with Saut, Jean-Claude) Global existence and one-dimensional nonlinear stability of shearing motions of viscoelastic fluids of Oldroyd type. (French summary) 91c:76003
- Gumenyuk, B. P. see Karnaukhov, V. G., 91h:73005
- Gupta, Kishan Chand see Singh, Avtar, (Not in MR)
- Gayader, J.-L. Uncertainty bounds for energy of imperfectly described vibration fields. Application to the validity of truncated modal expansion. 91d:73025
- Hannagan, Kenneth B. Stabilization of the viscoelastic Timoshenko beam. 91b:93141
- Hunter, John K. see Brio, M., 91f:35161
- Ito, Kazufumi see Fabiano, R. H., 91b:34137 and 91b:45021
- Jarnšek, JH Contact problems with given time-dependent friction force in linear viscoelasticity. 91k:73097
- Joseph, Daniel D. Hyperbolicity, change of type, wave speeds and related matters. 91a:76007
- Mathematical problems associated with the elasticity of liquids. 91e:76014
- Karnaukhov, V. G. (with Gumenyuk, B. P.) ★ Термомеханика предварительно деформированных вязкоупругих тел. (Russian) [Thermomechanics of predeformed viscoelastic bodies] 91h:73005
- Khrushov, E. Ya. An averaged model of a strongly inhomogeneous medium with memory. 91k:35031
- Kim, Jong Uhn A one-dimensional dynamic contact problem in linear viscoelasticity. 91f:35182
- Krysov, S. V. see Bychenkov, V. A., (91e:00007)
- Leroy, Yves M. see Molinari, Alain, 91h:73026
- Le Tallec, Patrick (with Ravachol, Michel) Finite element approximation of viscoelastic progressively incompressible flows. 91f:65171
- Leugering, Günter On the reachability problem of a viscoelastic beam during a slewing maneuver. 91b:93013
- On boundary feedback stabilizability of a viscoelastic beam. 91i:93090
- MacCamy, Richard C. see Choi, U. Jin, 91g:65300
- Mainardi, Francesco (with Vitali, Giuliano) Applications of the method of steepest descents in wave-propagation problems. 91h:73017
- Manzhirev, A. V. Torsion of a growing cylinder by a rigid stamp. (Russian) 91j:73061
- Meleshko, S. V. Group properties of equations of motion of a viscoelastic medium. (Russian) 91b:35008
- Milosavljević, A. I. The spectrum of small oscillations of a viscoelastic hereditary medium. (Russian) 91a:47016
- An abstract integro-differential equation with a periodic coefficient. I. (Russian) 91k:47126a
- An abstract integro-differential equation with a periodic coefficient. II. (Russian) 91k:47126b
- Mokrik, R. I. (with Oliynik, I. V.) Application of an ortho-exponential transformation to the study of nonstationary equations in thermoelasticity and thermoviscoelasticity. 91c:73011
- Molinari, Alain (with Leroy, Yves M.) Existence and stability of stationary shear bands with mixed-boundary conditions. (French summary) 91h:73026
- Morro, Angelo see Caviglia, Giacomo, 91d:73024
- Mukherjee, Animesh (with Sengupta, P. R.) Surface waves in thermoviscoelastic media of higher order. 91m:73026
- Murat, François see Charalambakis, Nicolas, 91b:73008
- O'Leary, P. M. Response of a class of low-loss viscoelastic materials to an oscillating source.

91c:73015

- Oliynik, I. V. *see* Makriz, R. I., 91c:73011
- Orlov, V. P. (with Sobolevskii, P. E.) On mathematical models of a viscoelasticity with a memory. 91c:35226
- On the stability of the zero solution of a one-dimensional mathematical model of viscoelasticity. 91h:35317
- Oskolkov, A. P. *see* Cotsiolis, Athanasios; et al., 91h:35261
- Petrov, I. B. (with Tormasov, A. G.) Numerical realization of three-dimensional shock problems. (Russian. English summary) 91g:65286
- Pustovoi, K. S. (with Troyanovskii, I. E.; Shardakov, I. N.) An approach to solving three-dimensional dynamical problems in elasticity and viscoelasticity theory for bodies of complex form. 91d:73027
- Ravachol, Michel *see* Le Tallec, Patrick, 91f:65171
- Sandri, Dominique *see* Baranger, Jacques, 91m:65268
- Sant, Jean-Claude *see* Guillopé, C., 91c:76003 and 91h:76007
- Schleifinger, G. *see* Cook, L. Pamela; et al., 91f:35188
- Scott, N. H. *see* Fu, Y. B., 91h:73048
- Senashov, S. I. Group classification of an equation of a viscoelastic rod. (Russian) 91j:35014
- Sengupta, P. R. *see* Das, Tapun Kumar, 91h:73040 and Mukherjee, Animesh, 91m:73026
- Shadiev, R. D. *see* Cotsiolis, Athanasios; et al., 91h:35261
- Shardakov, I. N. *see* Pustovoi, K. S.; et al., 91d:73027
- Sidorenko, V. V. Motion around a fixed point of a rigid body with flexible rods that admits the symmetry group of a regular polyhedron. (Russian) 91m:70007
- Singh, Avtar (with Gupta, Kishan Chand) Propagation of discontinuities in a nonhomogeneous viscoelastic rod with varying cross-section. (Not in MR)
- Sobolevskii, P. E. *see* Agranovich, Yu. Ya., 91h:35091 and Orlov, V. P., 91c:35226
- Sobotka, Zdeněk Deformational relativity of rheological viscoelastic bodies. (Not in MR)
- Selas, C. (with David, J. M.; Desanti, Annick) Dynamic and acoustic response of coupled structure/dense fluid axisymmetric systems excited by a random wall pressure field. 91a:73053
- Sprekels, Jürgen *see* Brekate, Martin, 91c:35099
- Starovoltov, E. I. (with Vorob'ev, S. A.) A study of the solution of a system of integro-differential equations that describes the oscillations of a three-layer viscoelastic shell. (Russian. English summary) (Not in MR)
- Sukacheva, T. G. *see* Sviridnyak, G. A., 91h:58100
- Sviridnyak, G. A. Solvability of a model problem in the dynamics of an incompressible viscoelastic fluid. (Russian) 91c:35125
- (with Sukacheva, T. G.) Rapid-slow dynamics of viscoelastic media. 91h:58100
- Tormasov, A. G. *see* Petrov, I. B., 91g:65286
- Troyanovskii, I. E. *see* Pustovoi, K. S.; et al., 91d:73027
- Vernescu, Bogdan Viscoelastic behavior of a porous medium with deformable skeleton. (Romanian. English summary) 91h:76035
- Vitali, Giuliano *see* Mainardi, Francesco, 91h:73017
- Vorob'ev, S. A. *see* Starovoltov, E. I., (Not in MR)
- Weinacht, Richard J. *see* Cook, L. Pamela; et al., 91f:35188 and Esham, Benjamin F., Jr., 91h:76012
- White, Andrew B., Jr. *see* Cohen, Donald S., 91h:35058

73F20 Aging of materials

Items with secondary classifications in 73F20

- Manzhrov, A. V. Torsion of a growing cylinder by a rigid stamp. (Russian) 91j:73061

73F99 None of the above, but in this section

- Allan, M. A. M. On reduction of thermo-viscoelastic equations to integral equations. I. 91f:73019
- Atkinson, Colla (with Bourne, J. P.) Stress singularities in angular sectors of viscoelastic media. 91e:73056
- *see also* Bourne, J. P., 91e:73055
- Bourne, J. P. (with Atkinson, Colla) Stress singularities in viscoelastic media. II. Plane-strain stress singularities at corners. 91e:73055
- *see also* Atkinson, Colla, 91e:73056
- Fabrizio, Mauro (with Morro, Angelo) Fading memory spaces and approximate cycles in linear viscoelasticity. 91h:73047
- Hu, Qiang (with Tong, Zhong Fang) A differential constitutive equation for nonlinear viscoelastic materials. (Chinese. English summary) 91a:73025
- Morro, Angelo *see* Fabrizio, Mauro, 91h:73047
- Powas, M. A note on the quasi-static problem of periodic linearized thermoviscoelasticity. 91f:73020
- Tong, Zhong Fang *see* Hu, Qiang, 91a:73025
- Yuan, Long Wei A nonlinear principle of viscoelastic-viscoplastic analogue. (Chinese summary) 91c:73045

Items with secondary classifications in 73F99

- Bleus, Eveline A. La puissance dissipée à la propagation d'une fissure dans un solide visco-élastique non linéaire. [Power dissipated during crack propagation in a nonlinear viscoelastic solid] 91c:73066
- Bark-Zollmann, Silvia *see* Kluge, Gerhard, 91h:73011
- Bielski, W. R. *see* Telega, J. J., 91h:73064
- Brilla, Igor Postbuckling analysis of circular viscoelastic plates. 91g:73035
- Bunimovich, A. I. (with Yakunina, G. E.) On the form of a body of revolution of minimal resistance under unbroken penetration into plastically compressible media. 91h:73042
- Fabrizio, Mauro Constitutive properties and constraints for viscous fluids with memory. (Italian) 91a:76006
- Glowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91f:73038
- Gumenyuk, B. P. *see* Karnaukhov, V. G., 91h:73005
- Herrmann, J. M. (with Schovanec, L.) Quasi-static mode III fracture in a nonhomogeneous viscoelastic body. (Not in MR)
- Jiang, Qing *see* Li, Hao³; et al., 91j:73009
- Karnaukhov, V. G. (with Gumenyuk, B. P.) ★ Термомеханика предварительно деформированных вязкоупругих тел. (Russian) [Thermomechanics of predeformed viscoelastic bodies] 91h:73005
- Kees, W. W. A unified proof for the uniqueness of solution to mixed boundary-value problems for both elasticity and viscoelasticity theory. 91h:73009
- Kluge, Gerhard (with Bark-Zollmann, Silvia) Thermodynamische Begründung einer rheologischen Gleichung mit Gedächtnis. (English summary) [Thermodynamic justification of a rheological equation with memory] 91h:73011
- Le Tallec, Patrick *see* Glowinski, Roland, 91f:65171
- Li, Hao³ (with Lü, Yun Bing; Jiang, Qing) Noether's theory and its application to continuum mechanics. (Chinese) 91j:73009
- Lü, I-Shih Extended thermodynamics of viscoelastic materials. 91d:73009
- Lü, Yun Bing *see* Li, Hao³; et al., 91j:73009
- Malik, David S. (with Nohel, John A.; Plohr, Bradley J.) Dynamics of shear flow of a non-Newtonian fluid. 91e:76013
- Maugin, Gérard A. *see* Pouget, Joël, 91c:73038
- Meleshko, S. V. Group properties of equations of motion of a viscoelastic medium. (Russian) 91h:35008
- Morro, Angelo (with Vianello, Maurizio) Minimal and maximal free energy for materials with memory. (Italian summary) 91h:73012
- Müller, Ingo On the size of the hysteresis in pseudoplasticity. 91a:73005
- Nohel, John A. *see* Malik, David S.; et al., 91e:76013
- Plohr, Bradley J. *see* Malik, David S.; et al., 91e:76013
- Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. I. Basic equations. 91c:73038
- Schovanec, L. *see* Herrmann, J. M., (Not in MR)
- Telega, J. J. (with Bielski, W. R.) Variational formulation of the transient motion of a rolling cylinder undergoing plane finite deformations. 91a:73064
- Vianello, Maurizio *see* Morro, Angelo, 91h:73012
- Yakunina, G. E. *see* Bunimovich, A. I., 91h:73042

73Gxx Finite deformations

Items with secondary classifications in 73Gxx

- Haupt, P. (with Tsakmakis, Ch.) On the application of dual variables in continuum mechanics. 91m:73002
- Tsakmakis, Ch. *see* Haupt, P., 91m:73002

73G05 Finite elasticity

- Abeyaratne, Rohan (with Knowles, James K.) Equilibrium shocks in plane deformations of incompressible elastic materials. 91h:73048
- Bertin, Giuseppe (with Valent, Tullio) Local existence for live traction problems in finite elasticity. (Italian summary) 91m:73040
- Bondar', V. D. Finite plane deformations of an incompressible elastic material. 91h:73030
- Boulanger, Ph. (with Hayes, Michael) Finite amplitude motions in some nonlinear elastic media. 91f:73020
- Carroll, M. M. (with Horgan, Cornelius O.) Finite strain solutions for a compressible elastic solid. 91h:73063
- Cleja-Tigola, Sanda Large elasto-plastic deformations for materials with relaxed configurations. II. Role of the complementary plastic factor. 91d:73032
- Dragan, W. J. (with Shen, Yinong) Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations. 91g:73032a
- (with Shen, Yinong) Erratum: "Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations". 91g:73032b
- Edelen, Dominic G. B. A new look at the compatibility problem of elasticity theory. 91h:73049
- Epstein, Marcelo (with Maugin, Gérard A.) The energy-momentum tensor and material uniformity in finite elasticity. 91h:73064
- Fu, D. (with Rajagopal, K. R.; Szeri, A. Z.) Nonhomogeneous deformations in a wedge of Mooney-Rivlin material. 91e:73057
- Green, W. A. (with Shi, Jingyu) Deformations of discrete elastic networks. 91h:73031
- Hayes, Michael *see* Boulanger, Ph., 91f:73020
- Hill, James M. Some integrable and exact similarity solutions for plane finite elastic deformations. 91d:73033
- Hoger, Anne On the dead load boundary value problem. 91m:73041
- Horgan, Cornelius O. Some remarks on axisymmetric solutions in finite elastostatics for compressible materials. 91h:73050
- *see also* Carroll, M. M., 91h:73063
- Knowles, James K. *see* Abeyaratne, Rohan, 91h:73048
- Lalicata, M. V. *see* Turrisi, Mariano, 91j:73032
- Levi, Decio (with Rogers, Colin) Group invariance of a neo-Hookean system: incorporation of stretch change. 91h:73021
- Lacchesi, Massimiliano (with Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. II. 91a:73026
- Maugin, Gérard A. *see* Epstein, Marcelo, 91h:73064
- Podio-Guidugli, Paolo *see* Lacchesi, Massimiliano, 91a:73026
- Quintela Estevez, Peregrina A new model for nonlinear elastic plates with rapidly varying thickness. 91f:73021
- Rajagopal, K. R. *see* Fu, D.; et al., 91e:73057
- Rogers, Colin *see* Levi, Decio, 91h:73021
- Sacchi, Pier Luigi On the problem of torsion in finite elasticity. II. Some general remarks in the case of uniform torsion. 91e:73058

Scarpatta, Edoardo A uniqueness theorem in the nonlinear dynamics of elastic materials with voids. 91c:73059

Shen, Yinnong *see* Drugan, W. J., 91g:73032a and 91g:73032b

Shi, Jingyu *see* Green, W. A., 91h:73031

Stegmann, D. J. Tension-field theory. 91c:73060

Suyunskaliyev, N. Kh. ★ Некоторые задачи теории конечных упругих деформаций. (Russian) [Some problems in the theory of finite elastic deformations] 91c:73061

Szeri, A. Z. *see* Fu, D., et al., 91c:73057

Terrill, Mariano (with Alicata, M. V.) Some similarity solution for a hyperelastic half space with finite deformations. 91j:73032

Valent, Tullio *see* Bertin, Giuseppe, 91m:73040

Items with secondary classifications in 73G05

Abdella, K. *see* Tait, R. J.; et al., 91m:73029

Abeysaratne, Rohan (with Knowles, James K.) On the driving traction acting on a surface of strain discontinuity in a continuum. 91d:73003

Adamov, V. I. *see* Markin, A. A., (91k:00025)

Algoetino, Franco (with Cicala, Placido) A laterally compressed hyperelastic plate under large deformations. (Italian, English summary) 91m:73046

Antman, Stuart S. (with Pierce, John Festus) The intricate global structure of buckled states of compressible columns. 91c:58033

Bertin, Gianluigi *see* Valent, Tullio, 91k:35193

Bielski, W. R. *see* Telega, J. J., 91a:73064

Chekhov, V. N. *see* Gurf, A. N.; et al., 91j:73037

Chen, Zhi Da *see* Shang, Yong, 91h:73051 and 91h:73052

Cicala, Placido *see* Algoetino, Franco, 91m:73046

Cohen, Harley (with Wang, Chao Chen) On a finite disk method for hyperelastic rods and shells. 91h:73053

Duncan, Dugald B. *see* Tait, R. J.; et al., 91m:73029

Fosdick, Roger L. (with Hertog, Brian) Material symmetry and crystals. 91c:73002

Fox, D. D. *see* Sime, J. C.; et al., 91d:73045 and 91h:73039

Gao, Yang On the extreme variational principles for nonlinear elastic plates. 91c:73116

Gilguy, H. (with Serre, Denis) Well-posedness of the Riemann problem; consistency of the Godunov's scheme. 91h:65113

Green, W. A. (with Shi, Jingyu) Plane deformations of membranes formed with elastic cords. 91c:73077

Grigolyuk, E. I. (with Larchenko, V. V.) The phenomenon of bifurcation stability under conditions of singular perturbation. 91c:73064

Gurf, A. N. (with Korzh, V. P.; Chekhov, V. N.) Stability of a layered half-plane under the action of surface distributed loads. 91j:73037

Haddow, J. B. (with Wegner, J. L.) Some thermodynamic aspects of finite amplitude unloading waves in hyperelastic strings. (German and Russian summaries) 91m:73008

Hertog, Brian *see* Fosdick, Roger L., 91c:73002

Hodges, Dewey H. A mixed variational formulation based on exact intrinsic equations for dynamics of moving beams. 91c:73072

Horgan, Cornelius O. (with Payne, Lawrence E.) On Saint-Venant's principle in finite anti-plane shear: an energy approach. 91a:73009

Hsi, Shih Pi (with Ni, Wei-Ming) Uniqueness property of large deformation of a heavy cantilever. 91a:73032

Karwowski, Andrzej J. Asymptotic models for a long, elastic cylinder. 91m:73060

Karyakin, M. I. *see* Zubov, L. M., 91h:73095

Knowles, James K. *see* Abeysaratne, Rohan, 91d:73003

Korzh, V. P. *see* Gurf, A. N.; et al., 91j:73037

Larchenko, V. V. *see* Grigolyuk, E. I., 91c:73064

Le, K. Ch. *see* Stumpf, Helmut, 91h:73039

Makowski, J. (with Stumpf, Helmut) Buckling equations for elastic shells with rotational degrees of freedom undergoing finite strain deformation. 91h:73054

Markin, A. A. (with Adamov, V. I.) Nonuniqueness and stability of processes of finite elastoplastic deformation. (Russian) (see 91k:00025)

Massonni, M. *see* Rajagopal, K. R.; et al., 91h:73028

Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012

Ni, Wei-Ming *see* Hsi, Shih Pi, 91a:73032

Owen, Nicholas C. Some remarks on the stability of the homogeneous deformation for an elastic bar. 91g:73042

Payne, Lawrence E. *see* Horgan, Cornelius O., 91a:73009

Pence, Thomas J. On the encounter of an acoustic shear pulse with a phase boundary in an elastic material: reflection and transmission behavior. 91k:73042

Pierce, John Festus *see* Antman, Stuart S., 91c:58033

Pipkin, Allen C. The relaxed energy density for isotropic elastic membranes. 91h:73067

Rajagopal, K. R. (with Massonni, M.; Wineman, A. S.) Exact solutions in nonlinear elastodynamics. 91m:73028

Rifai, M. S. *see* Sime, J. C.; et al., 91d:73045 and 91h:73039

Schlifer, Michael Parallel algorithms for the numerical solution of incompressible finite elasticity problems. 91m:65278

Serre, Denis *see* Gilguy, H., 91h:65113

Shang, Yong (with Chen, Zhi Da) On large deformation unilateral contact problem with friction. I. Incremental variational equations. 91h:73051

— (with Chen, Zhi Da) On unilateral contact large deformation problem with friction. II. Nonlinear finite element technique and its application. 91h:73052

Shi, Jingyu *see* Green, W. A., 91h:73031

Sime, J. C. (with Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. III. Computational aspects of the nonlinear theory. 91d:73045

— (with Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. IV. Variable thickness shells with through-the-thickness stretching. 91h:73039

— (with Vu-Quoc, L.) A geometrically exact rod model incorporating shear and torsion warping deformation. 91c:73074

Stumpf, Helmut (with Le, K. Ch.) Variational principles of nonlinear fracture mechanics. 91h:73039

— *see also* Makowski, J., 91h:73054

Swaters, Gordon E. *see* Moodie, T. Bryant, 91d:76012

Tait, R. J. (with Abdella, K.; Duncan, Dugald B.) Approximate Riemann solvers and waves on a nonlinear elastic string. 91m:73029

Telega, J. J. (with Bielski, W. R.) Variational formulation of the transient motion of a rolling cylinder undergoing plane finite deformations. 91a:73064

Valent, Tullio (with Bertin, Gianluigi) On local existence, uniqueness, and analytic dependence on a parameter for the traction boundary problem in finite elastostatics. (Italian summary) 91k:35193

Vald, Roger Le principe non linéaire d'énergie complémentaire en théorie des coques. (English summary) [The nonlinear principle of complementary energy in shell theory] 91c:73086

— Elastodynamique non linéaire des coques minces en énergie complémentaire. (English summary) [Nonlinear elastodynamics of thin shells in complementary energy] 91f:73027

Vu-Quoc, L. *see* Sime, J. C., 91c:73074

Waa, Frederik Y. M. Finite axial extension and torsion of elastic helicoidal shells. 91c:73058

Wang, Chao Chen *see* Cohen, Harley, 91h:73053

Wegner, J. L. *see* Haddow, J. B., 91m:73008

Wheeler, Lewis On the derivatives of the stretch and rotation with respect to the deformation gradient. 91j:73010

White, L. W. Estimation of elastic parameters in a nonlinear elliptic model of a plate. 91m:73049

Wineman, A. S. *see* Rajagopal, K. R.; et al., 91h:73028

Wolfe, Peter Asymptotic analysis of a rod with small bending stiffness. 91m:73044

Zubov, L. M. Energy contour integrals in the nonlinear theory of elastic plates and shells. 91h:73069

— (with Karyakin, M. I.) Dislocations and disclinations in nonlinearly elastic bodies with moment stresses. 91h:73095

73G20 Finite plasticity

Adamov, V. I. *see* Markin, A. A., (91k:00025)

Artyunyan, N. Kh. (with Radaev, Yu. N.) Elastoplastic torsion of a cylindrical rod under finite deformations. 91a:73027

Brooks, G. L. The concepts of a process image and of five-dimensional isotropy of material properties under finite deformations. 91c:73046

Bykovtsev, G. I. *see* Shitikov, A. V., 91c:73062

Deg'Innocenti, S. (with Padovani, Cristina; Pasquinelli, G.) An improved numerical method to integrate the equation of motion in finite elastoplasticity problems. (see 91f:73001)

Durban, David A comparative study of simple shear at finite strains of elastoplastic solids. 91j:73033

Eve, R. A. (with Reddy, B. D.) Variational principles and finite element approximations to problems in finite-strain plasticity. (see 91f:73001)

— (with Giliot, T.; Reddy, B. D.) An internal variable finite-strain theory of plasticity within the framework of convex analysis. 91j:73034

Gao, Yang (with Strang, Gilbert) Dual extremum principles in finite deformation elastoplastic analysis. 91a:73028

— (with Onat, E. T.) Rate variational extremum principles for finite elastoplasticity. 91c:73022

— Bound theorem on finite dynamic deformations of plasticity. 91h:73051

— Extended bounding theorems for nonlinear limit analysis. 91j:73035

Giliot, T. *see* Eve, R. A.; et al., 91j:73034

Kattan, P. L. *see* Voyiadis, G. Z., 91g:73034

Kukudzhanov, V. N. The mathematical modelling of dynamic elastoplastic processes of large deformations and damage. (see 91h:00032)

Lucchesi, Massimiliano Existence and uniqueness of stress for ideal plastic materials subject to finite deformations. (Italian, English summary) 91h:73052

Markin, A. A. (with Adamov, V. I.) Nonuniqueness and stability of processes of finite elastoplastic deformation. (Russian) (see 91k:00025)

Onat, E. T. *see* Gao, Yang, 91a:73022

Padovani, Cristina *see* Deg'Innocenti, S.; et al., (91f:73001)

Pasquinelli, G. *see* Deg'Innocenti, S.; et al., (91f:73001)

Pecherski, R. B. The plastic spin concept and the theory of finite plastic deformations with induced anisotropy. (Russian and Polish summaries) 91g:73033

Radaev, Yu. N. *see* Artyunyan, N. Kh., 91a:73027

Reddy, B. D. *see* Eve, R. A.; et al., 91j:73034 and (91f:73001)

Shitikov, A. V. (with Bykovtsev, G. I.) Finite deformations of elastoplastic media. 91c:73062

Strang, Gilbert *see* Gao, Yang, 91a:73028

Teodosio, C. The plastic spin: microstructural origin and computational significance. (see 91f:73001)

Voyiadis, G. Z. (with Kattan, P. L.) A generalized Eulerian two-surface cyclic plasticity model for finite strains. 91g:73034

Watanabe, Osamu Variational principles of elastoplasticity in finite deformation. 91h:73065

Items with secondary classifications in 73G20

Aifantis, E. C. *see* Dafalias, Y. F., 91c:73047

Antman, Stuart S. (with Szymczak, William G.) Nonlinear elastoplastic waves. 91j:73027

Cleja-Tigola, Sanda Large elasto-plastic deformations for materials with relaxed configurations. II. Role of the complementary plastic factor. 91d:73032

Dafalias, Y. F. (with Aifantis, E. C.) On the microscopic origin of the plastic spin. 91c:73047

Drugan, W. J. (with Shen, Yinnong) Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations. 91g:73032a

— (with Shen, Yinnong) Erratum: "Finite deformation analysis of restrictions on moving strong discontinuity surfaces in elastic-plastic materials: quasi-static and dynamic deformations". 91g:73032b

(Hinton, E.) *see* Computational plasticity, 91f:73001

Ilin, V. P. (with Popov, V. N.) Convergence of a difference solution for a one-dimensional problem of crystallization of metal in a mold. (Russian) (Not in MR)

Kennedy, J. G. *see* Simo, J. C., 91f:73001

Moran, B. (with Ortiz, Michael; Shih, C. F.) Formulation of implicit finite element methods for multiplicative finite deformation plasticity. 91c:73003

Naghdi, P. M. A critical review of the state of finite plasticity. (Not in MR)

(Oñate, E.) *see* Computational plasticity, 91f:73001

Ortiz, Michael *see* Moran, B.; et al., 91c:73003

(Owen, D. R. J.) *see* Computational plasticity, 91f:73001

Popov, V. N. *see* Ilin, V. P., (Not in MR)

Raniecki, B. (with Samanta, S. K.) The thermodynamic model of a rigid-plastic solid with kinematic hardening, plastic spin and orientation variables. (Russian and Polish summaries) 91m:73010

Samanta, S. K. *see* Raniecki, B., 91m:73010

Shen, Yisong *see* Drugan, W. J., 91g:73032a and 91g:73032b

Shih, C. F. *see* Moran, B.; et al., 91c:73003

Simo, J. C. (with Kennedy, J. G.) Finite strain elastoplasticity in stress resultant geometrically exact shells. (see 91f:73001)

Szymczak, William G. *see* Antman, Stuart S., 91f:73027

Vasin, R. A. Constitutive relations in plasticity theory. (Russian. English summary) 91k:73054

Items listed otherwise than by author

Barcelona ★ Computational plasticity. Part I, II. 91f:73001

Computational plasticity ★ Computational plasticity. Part I, II. 91f:73001

Conference:

Computational Plasticity ★ Computational plasticity. Part I, II. 91f:73001

73G25 Finite viscoelasticity

Dafalias, Y. F. Constitutive model for large viscoelastic deformations of elastomeric materials. 91k:73066

Items with secondary classifications in 73G25

Aifantis, E. C. *see* Dafalias, Y. F., 91c:73047

Blaes, Eveline A. La puissance dissipée à la propagation d'une fissure dans un solide visco-élastique non linéaire. [Power dissipated during crack propagation in a nonlinear viscoelastic solid] 91c:73066

Dafalias, Y. F. (with Aifantis, E. C.) On the microscopic origin of the plastic spin. 91f:73047

Frischmuth, Kurt (with Kosiński, W.) Can the finite memory of a simple material be nontrivial? (Russian and Polish summaries) 91k:73005

Gumenyuk, B. P. *see* Karnaukhov, V. G., 91h:73005

Karnaukhov, V. G. (with Gumenyuk, B. P.) ★ Термомеханика предварительно деформированных вязкоупругих тел. (Russian) [Thermomechanics of predeformed viscoelastic bodies] 91h:73005

Kosiński, W. *see* Frischmuth, Kurt, 91k:73005

Le Tallec, Patrick ★ Numerical analysis of viscoelastic problems. 91h:73029

73G99 None of the above, but in this section

Serras, H. *see* Van Keer, R., 91e:00031

Van Keer, R. (with Serras, H.) On a partial integro-differential equation related to the dynamical concept for industrial rubber materials. (see 91e:00031)

Items with secondary classifications in 73G99

Aron, M. On the stability of Varley-Day solutions for harmonic materials. 91h:73013

Butler, Hans Remark on the paper: "Configuration dependent pressure potentials" [J. Elasticity 19 (1988), no. 1, 77-84; MR 89m:73007] by D. Fisher. 91k:73020

(Fisher, Dawn) *see* Butler, Hans, 91k:73020

Frémond, Michel Sur l'aplatissement des matériaux. (English summary) [The flattening of materials] 91m:73001

73Hxx Stability (linear and nonlinear)

Achenbach, M. *see* Atanacković, T. M., 91f:73023

Atanacković, T. M. (with Achenbach, M.) Stability of an extensible rotating rod. 91f:73023

Krätzig, W. B. Fundamentals of numerical algorithms for static and dynamic instability phenomena of thin shells. (see 91a:73001)

Mang, Herbert Anton Erratum: "Buckling pressures from linear initial buckling analyses of thin, elastic shells using the FEM as boundaries of corresponding buckling pressures from geometrically nonlinear pre-buckling analyses" [Z. Angew. Math. Mech. 69 (1989), no. 4, T254-T256]. (German) (Not in MR)

Items with secondary classifications in 73Hxx

Amiro, I. Ya. (with Zarutskii, V. A.) Statics, dynamics and stability of ribbed shells. (Russian. English summary) 91k:73078

(Krätzig, W. B.) *see* Computational mechanics of nonlinear response of shells, 91a:73001

(Oñate, E.) *see* Computational mechanics of nonlinear response of shells, 91a:73001

Verovich, I. I. ★ Математические проблемы нелинейной теории оболочек. (Russian) [Mathematical problems in the nonlinear theory of shallow shells] 91g:73050

Zarutskii, V. A. *see* Amiro, I. Ya., 91k:73078

Items listed otherwise than by author

Atlanta, GA ★ Computational mechanics of nonlinear response of shells. 91a:73001

Computational mechanics of nonlinear response of shells ★ Computational mechanics of nonlinear response of shells. 91a:73001

Conference:

Computational Mechanics of Nonlinear Response of Shells ★ Computational mechanics of nonlinear response of shells. 91a:73001

73H05 Buckling

Antman, Stuart S. Global properties of buckled states of plates that can suffer thickness changes. 91h:73053

— *see also* Negrón-Marrero, Pablo V., 91h:73055

Brilla, Igor Postbuckling analysis of circular viscoelastic plates. 91g:73035

Canisius, T. D. G. Comment on: "Postbuckling behavior of laminated plates using a direct energy-minimization technique" [AIAA J. 27 (1989), no. 12, 1785-1792] by P. J. Minguet, J. Dugundji and P. Lagace. (Not in MR)

Damil, N. (with Potier-Ferry, Michel) A new method to compute perturbed bifurcations: application to the buckling of imperfect elastic structures. 91g:73036

Day, William Alan (with Karwowski, Andrzej J.; Papanicolaou, George) Buckling of randomly imperfect beams. 91c:73047

(Dugundji, John) *see* Canisius, T. D. G., (Not in MR)

El Naschie, M. S. On the susceptibility of local elastic buckling to chaos. (German and Russian summaries) 91c:73067

Fonaré, A. A. On the determination of the buckled forms of a circular plate. 91d:73034

Furta, S. D. Bifurcations of equilibrium forms of an inhomogeneous nonlinearly elastic rod in a gravity force field. (Russian) 91c:73063

Geymonat, Giuseppe (with Rosati, Mario Valerio; Valente, V.) Numerical analysis for eversion in elastic spherical caps equilibrium. 91c:73048

Grayhack, William T. (with Mahar, Thomas J.) Buckling of rib-stiffened plates: an asymptotic approach. 91d:73035

Grigolyuk, É. I. (with Larchenko, V. V.) The phenomenon of bifurcation stability under conditions of singular perturbation. 91c:73064

Gristchak, V. Z. Bifurcations and postbuckling behavior of vibrating of the nonhomogeneous, nonlinear elastic system with multiple independent bifurcation parameters. 91d:73036

Kang, Sheng Liang The singular perturbation method applied to the nonlinear stability problem of a shallow spherical shell. II. 91c:73065

Karwowski, Andrzej J. *see* Day, William Alan; et al., 91c:73047

Kuo, Yee Hsiung *see* Lee, Sen Yung, (Not in MR)

Lahsch, Franz Karl Qualitative und quantitative behaviour of non-linearly elastic rings under hydrostatic pressure. (see 91m:58001)

(Lagace, Paul) *see* Canisius, T. D. G., (Not in MR)

Larchenko, V. V. Bifurcation methods for analyzing the perturbation of a spectrum of critical pressures of shells of revolution and some of their applications. 91f:73037

— *see also* Grigolyuk, É. I., 91c:73064

Lee, Sen Yung (with Kuo, Yee Hsiung) Divergence-type stability of a nonuniform column. (Not in MR)

Léger, Alain (with Potier-Ferry, Michel) Bifurcations for plastic bodies in the plastic range. 91g:73038

Li, Long Yuan Theory of perturbation finite element analysis for solution of nonlinear buckling critical loads of structures. (Not in MR)

van Lieshout, Petrus Henricus ★ A variational approach to magneto-elastic buckling problems. 91h:73032

Mahar, Thomas J. *see* Grayhack, William T., 91d:73035

Makowski, J. (with Stumpf, Helmut) Buckling equations for elastic shells with rotational degrees of freedom undergoing finite strain deformation. 91h:73054

(Minguet, Pierre J.) *see* Canisius, T. D. G., (Not in MR)

Negrón-Marrero, Pablo V. (with Antman, Stuart S.) Singular global bifurcation problems for the buckling of anisotropic plates. 91h:73055

Papanicolaou, George *see* Day, William Alan; et al., 91c:73047

Pasmier, Jean-Claude (with Rao, B.) Qualitative and quantitative analysis of buckling of shallow shells. 91a:73029

Pierce, John Festus ★ Singularity theory, rod theory, and symmetry-breaking loads. 91h:73056

Pogorelov, A. V. Loss of stability of conical shells under external pressure. 91c:73066

— Loss of stability of conical shells under twisting. 91h:73033

Potier-Ferry, Michel *see* Damil, N., 91g:73036 and Léger, Alain, 91g:73038

Rao, B. *see* Pasmier, Jean-Claude, 91a:73029

Reissner, E. On buckling of crosswise rigid elastic cantilever plates. 91c:73067

Rosati, Mario Valerio *see* Geymonat, Giuseppe; et al., 91c:73048

Schiavino, A. (with Valente, V.) Numerical solution of a turning point problem in elasticity. 91d:73037

Sebe, Gabriel (with Tucsnak, Marius) The influence of a perfect fluid on the critical loading of a rod immersed in it. 91g:73039

Stumpf, Helmut *see* Makowski, J., 91h:73054

Tarnai, T. Buckling patterns of shells and spherical honeycomb structures. 91c:73049

Tucsnak, Marius Buckling of nonlinearly elastic rods immersed in a fluid. 91g:73040

— *see also* Sebe, Gabriel, 91g:73039

Valente, V. *see* Geymonat, Giuseppe; et al., 91c:73048 and Schiavino, A., 91d:73037

Wolfe, Peter Bifurcation theory of an elastic conducting wire subject to magnetic forces. 91g:73041

Items with secondary classifications in 73H05

Antman, Stuart S. (with Pierce, John Festus) The intricate global structure of buckled states of compressible columns. 91c:58033

Baginski, Frank E. Upper and lower bounds for eigenvalues of the Laplacian on a spherical cap. 91i:35137

— Errata: "Upper and lower bounds for eigenvalues of the Laplacian on a spherical cap" [Quart. Appl. Math. 48 (1990), no. 3, 569-573; MR 91i:35137]. (Not in MR)

Bermas, I. M. (with Srubshchik, L. S.) Nonaxisymmetric loss of stability of shallow spherical shells. 91m:73051

Brand, Helmut R. Envelope equations near the onset of a hexagonal pattern. 91c:76047

- Bratus', A. S. Condition of extremum for eigenvalues of elliptic boundary value problems. 91m:35174
- Brilla, Igor Bifurcations of generalized von Kármán equations for circular viscoelastic plates. (Russian and Slovak summaries) 91f:73018
- Equivalent formulations of generalized von Kármán equations for circular viscoelastic plates. (Russian and Slovak summaries) 91g:35062
- Cai, Song Bo see Wang, Lei², 91a:73039
- Chenais, Denise see Rousselet, Bernard, 91k:47041
- Chien, Ch'eng Sheng Predictor-corrector methods for large sparse problems. 91k:65101
- Cimetière, A. (with Destuynder, Philippe) A bending and buckling model for elastic-plastic plates. 91f:73025
- Dems, K. (with Mróz, Z.) Sensitivity of buckling load and vibration frequency with respect to shape of stiffened and unstiffened plates. 91a:73037
- Destuynder, Philippe see Cimetière, A., 91f:73025
- Dickey, R. W. Minimum energy solution for the spherical shell. 91b:73065
- Dinkler, Dieter (with Kröplin, Bernd) Stability of dynamically loaded structures. (see 91a:73001)
- Elgar, S. see Puzeshki, C.; et al., 91d:58167
- Eliseev, V. V. (with Zeragiya, D. P.) On the problem of the torsion of a rod. (Russian. English and Georgian summaries) (Not in MR)
- Fox, D. D. see Simo, J. C.; et al., 91d:73045
- Healey, Timothy J. (with Treacy, J. A.) Exact block diagonalization of large eigenvalue problems for structures with symmetry. 91k:73084
- Krishna, R. C. see Puzeshki, C.; et al., 91d:58167
- Kröplin, Bernd see Dinkler, Dieter, (91a:73001)
- Küpper, Tassilo (with Troger, H.; Vanderbauwhede, A.; Werner, Bodo) Minisymposium I: Verzweigung in mechanischen Systemen. [Minisymposium I: bifurcation in mechanical systems] 91j:58039
- Miersemann, Erich (with Mittelmann, Hans D.) A free boundary problem and stability for the rectangular plate. 91d:35245
- Mittelmann, Hans D. see Miersemann, Erich, 91d:35245
- Moscattelli, Vincenzo Bruno (with Thompson, Mark) Asymptotic distribution of Liusternik-Schnirelman eigenvalues for elliptic nonlinear operators. 91m:35177
- Mróz, Z. see Dems, K., 91a:73037
- Nguyen Quoc Son (with Triantafyllidis, Nicolas) Plastic bifurcation and postbifurcation analysis for generalized standard continua. 91b:73043
- Palmushin, V. N. A version of the refined nonlinear iterative-type theory of thin elastic three-layered shells. 91k:73038
- Puzeshki, C. (with Elgar, S.; Krishna, R. C.) Bispectral analysis of [systems] possessing chaotic motion. 91d:58167
- Pierce, John Festus see Antman, Stuart S., 91e:58033
- Rifai, M. S. see Simo, J. C.; et al., 91d:73045
- Rousselet, Bernard (with Chenais, Denise) Continuité et différentiabilité d'éléments propres: application à l'optimisation de structures. (English summary) [Continuity and differentiability of eigenelements: application to the optimization of structures] 91k:47041
- Shen, Mao Shan (with Wei, De Min) A catastrophic model for vibrational buckling of elastic arches. 91k:73068
- Simo, J. C. (with Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. III. Computational aspects of the nonlinear theory. 91d:73045
- Spillers, W. R. A note on some qualitative results for beams and rods. 91g:73043
- Srubshchik, L. S. see Bermus, I. M., 91m:73051
- Steindl, A. Mehrfache Hopfverzweigung eines flüssigkeitsdurchströmten, elastisch gelagerten Schlauchs unter O(2)-Symmetrie. [Multiple Hopf bifurcation of an elastically mounted hose with interior flow under O(2)-symmetry] 91k:58029
- Teodorescu, P. P. (with Toma, Ileana) An application of the linear equivalence method to the postcritical study of a Bernoulli-Euler bar. 91a:73034
- Thompson, Mark see Moscatelli, Vincenzo Bruno, 91m:35177
- Toma, Ileana see Teodorescu, P. P., 91a:73034
- Treacy, J. A. see Healey, Timothy J., 91k:73084
- Triantafyllidis, Nicolas see Nguyen Quoc Son, 91b:73043
- Troger, H. see Küpper, Tassilo; et al., 91j:58039
- Vanderbauwhede, A. see Küpper, Tassilo; et al., 91j:58039
- Wang, Lei² (with Cai, Song Bo) Navier's method for solving the problem of bending, buckling and vibration of quadrilateral plates with all edges simply supported. (Chinese. English summary) 91a:73039
- Wei, De Min see Shen, Mao Shan, 91k:73068
- Werner, Bodo see Küpper, Tassilo; et al., 91j:58039
- Wolfe, Peter Bifurcation theory of a conducting rod subject to magnetic forces. 91k:73040
- Asymptotic analysis of a rod with small bending stiffness. 91m:73044
- Zeragiya, D. P. see Eliseev, V. V., (Not in MR)
- Technical stability of a fluid-carrying rectilinear pipeline. 91e:73069
- Conditions for technical stability of a dynamic process characterizing the rotation of a solid body on a vertical elastic rod. 91d:73038
- Neustupa, Jiří Stability of a vibrating and rotating beam. (see 91m:65005)
- Posbergh, T. A. see Simo, J. C.; et al., 91j:73036
- Scott, R. A. see Beale, D. G., 91e:73068
- Shen, Mao Shan (with Wei, De Min) A catastrophic model for vibrational buckling of elastic arches. 91k:73068
- Simo, J. C. (with Posbergh, T. A.; Marsden, Jerrold E.) Stability of coupled rigid body and geometrically exact rods: block diagonalization and the energy-momentum method. 91j:73036
- Wang, Chang Yi Nonlinear deformations of a slender rod rotated at one end. 91k:73022
- Wei, De Min see Shen, Mao Shan, 91k:73068
- Yun, Tian Quan Asymmetric dynamic instability of axisymmetric polar dimpling of thin shallow spherical shells. 91e:73051
- Items with secondary classifications in 73H10
- Anan'evskii, I. M. (with Kolmanovskii, V. B.) Stabilization of some controllable systems with aftereffect. 91a:93048
- Ariaratnam, S. T. (with Xie, Wei Chau) Lyapunov exponents and stochastic bifurcations. (see 91m:70002)
- Banichuk, N. V. (with Bratus', A. S.) Optimization of the stability of elastic nonconservative systems. (Russian) 91k:73080
- (with Bratus', A. S.; Myshkis, A. D.) Destabilizing action of small dissipative forces on nonconservative systems. 91k:70020
- Bloch, Anthony M. Stability analysis of a rotating flexible system. 91e:70022
- Boletin, V. V. (with Dubovskikh, Yu. A.; Zhinzher, N. I.) Wave motion of elongated elastic bodies subjected to nonlinear flutter. 91c:73065
- Bratus', A. S. see Banichuk, N. V.; et al., 91k:70020 and 91k:73080
- Dubovskikh, Yu. A. see Boletin, V. V.; et al., 91c:73065
- Griestak, V. Z. Bifurcations and postbuckling behavior of vibrating of the nonhomogeneous, nonlinear elastic system with multiple independent bifurcation parameters. 91d:73036
- Hadian, J. (with Nayfeh, Ali Hasan) Modal interaction in circular plates. 91j:73042
- Hariche, O. see Lore, Benjamin; et al., 91f:73016
- Ichikawa, Akira Stability of flexible systems. 91c:93057
- Ider, S. Kemal Stability analysis of constraints in flexible multibody systems dynamics. 91k:73076
- Kolmanovskii, V. B. see Anan'evskii, I. M., 91a:93048
- Leroy, Yves M. see Mollnat, Alain, 91h:73026
- Lewis, Debra (with Simo, J. C.) Nonlinear stability of rotating pseudo-rigid bodies. 91d:58076
- Lore, Benjamin (with Prevost, J. H.; Hariche, O.) Loss of hyperbolicity in elastic-plastic solids with deviatoric associativity. 91f:73016
- Martins, J. A. C. (with Oden, J. Tinsley; Simões, F. M. F.) A study of static and kinetic friction. 91c:73076
- Mollnat, Alain (with Leroy, Yves M.) Existence and stability of stationary shear bands with mixed-boundary conditions. (French summary) 91h:73026
- Myshkis, A. D. see Banichuk, N. V.; et al., 91k:70020
- Nayfeh, Ali Hasan see Hadian, J., 91j:73042
- Oden, J. Tinsley see Martins, J. A. C.; et al., 91c:73076
- Ortega, Tomás Numerical investigation on the Beck's problem. (Spanish. English summary) (see 91j:60015)
- Potapenko, E. M. Stability of controllable elastic distributed systems. 91c:73064
- Prevost, J. H. see Lore, Benjamin; et al., 91f:73016
- Schaeffer, David G. see Shearer, Michael, 91d:73031
- Sethna, P. R. see Yang, X. L., 91m:73050
- Shearer, Michael (with Schaeffer, David G.) The quasidynamic approximation in critical state plasticity. 91d:73031
- Simo, J. C. see Lewis, Debra, 91d:58076
- Simões, F. M. F. see Martins, J. A. C.; et al., 91c:73076
- Xie, Wei Chau see Ariaratnam, S. T., (91m:70002)
- Yang, X. L. (with Sethna, P. R.) Local and global bifurcations in parametrically excited vibrations of nearly square plates. 91m:73050
- Zhinzher, N. I. see Boletin, V. V.; et al., 91c:73065
- Zolotenko, G. F. Stability of a system of two bodies floating on a liquid. (Russian) 91c:70039
- 73H99 None of the above, but in this section
- Chekhov, V. N. see Gur', A. N.; et al., 91j:73037
- El Naschie, M. S. (with Elnasbahi, A. S.) Chaos und Instabilität in der Elastostatik. [Chaos and instability in elastostatics] 91e:73070
- Elnasbahi, A. S. see El Naschie, M. S., 91e:73070
- Gur', A. N. (with Gur', I. A.) Continual approximation in the theory of stability of layered composite materials. 91c:73052
- (with Korzh, V. P.; Chekhov, V. N.) Stability of a layered half-plane under the action of surface distributed loads. 91j:73037
- Gur', I. A. see Gur', A. N., 91c:73052
- Korzh, V. P. see Gur', A. N.; et al., 91j:73037
- Meroz, N. G. Application of the method of integral equations for solving problems in the three-dimensional theory of the stability of deformable bodies. 91b:73057
- Owen, Nicholas C. Some remarks on the stability of the homogeneous deformation for an elastic bar. 91g:73042
- Schaeffer, David G. Instability and ill-posedness in the deformation of granular materials. 91c:73071
- Items with secondary classifications in 73H99
- Algotino, Franco (with Cicala, Placido) A laterally compressed hyperelastic plate under large deformations. (Italian. English summary) 91m:73046

73H10 Dynamic stability

- Aron, M. On the stability of Varley-Day solutions for harmonic materials. 91h:73013
- Benallal, Ahmed (with Billardon, René; Geymonat, Giuseppe) Phénomènes de localisation à la frontière d'un solide. (English summary) [Localization phenomena at the boundary of solids] 91g:73006
- Billardon, René see Benallal, Ahmed; et al. 91g:73006
- Cicala, Placido see Alghosini, Franco, 91m:73046
- Fujii, Hiroshi see Ikeda, Kiyohiro; et al. 91k:73085
- Geymonat, Giuseppe see Benallal, Ahmed; et al. 91g:73006
- Guz', A. N. (with Guz', I. A.) Local instability of laminated composite materials. 91h:73048
- Guz', I. A. see Guz', A. N., 91h:73048
- Ikeda, Kiyohiro (with Murota, Kazuo; Fujii, Hiroshi) Bifurcation hierarchy of symmetric structures. 91k:73085
- Ismail-Zade, A. T. see Naimark, B. M., 91h:76062
- Labiche, Franz Karl Nonlocal qualitative and quantitative analysis of a Marguerre type shell problem. (see 91h:00048)
- Manning, Gerald S. Instability of a surface elastic line on an unnatural ramp. 91m:73062
- Murota, Kazuo see Ikeda, Kiyohiro; et al. 91k:73085
- Naimark, B. M. (with Ismail-Zade, A. T.) A problem on the gravitational instability of a geophysical medium with Maxwell rheology. (Russian) 91h:76062
- Nguyen Quoc Son Stabilité et bifurcation des systèmes dissipatifs standards à comportement indépendant du temps physique. (English summary) [Stability and bifurcation of time-independent standard dissipative systems] 91e:73014
- Potapov, V. D. Stability of rods under stochastic excitation. 91a:73051
- Quintela Estevez, Peregrina Critical points in the energy of hyperelastic materials. (French summary) 91c:73026
- Rozeev, H. Stochastic stability of the loaded stiff rod. 91c:73061
- Xu, Shao Chang Stability theory of continuous mechanical systems and its applications. (Chinese) 91h:76034

73J05 Interaction of aerodynamics and elasticity (1985)

- Jiang, Jun (with Xu, Jian Xue) Static bifurcation and Hopf bifurcation of a simplified aeroelastic plate model. (see 91h:00048)
- Xu, Jian Xue see Jiang, Jun, (91h:00048)

73J06 Interaction of hydrodynamics and elasticity (1985)

- Wang, Wen Liang see Wu, Xing Shi, (Not in MR)
- Wu, Xing Shi (with Wang, Wen Liang) A double compatible technique for hydroelastic vibration analysis of liquid containers. (Not in MR)

Items with secondary classifications in 73J06

- Huang, Yu Ying A mixed FE-BE method for coupled vibrations of floating plates of complicated shape. (Not in MR)

73J10 Vibrations, flutter (1985)

Items with secondary classifications in 73J10

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- Konyukhova, N. B. see Abramov, A. A.; et al., (Not in MR)
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- Prikhod'ko, V. Yu. see Abramov, A. A.; et al., (Not in MR)
- Tyutekin, V. V. see Abramov, A. A.; et al., (Not in MR)

73Kxx Mechanics of structures

73K03 Strings

- El Naschie, M. S. (with Kapitaniak, Tomasz) Envelope soliton chaos model for mechanical system. (see 91m:58001)
- Kapitaniak, Tomasz see El Naschie, M. S., (91m:58001)
- Potokhishvili, D. V. A problem on the decay of an arbitrary discontinuity for a flexible thread. 91a:73031

Items with secondary classifications in 73K03

- Ames, William F. see Peters, James E., 91h:58280
- Andriyanov, V. L. (with Krysov, S. V.) Interaction of a material point with a string on an elastic foundation. (Russian) 91e:73037
- Citrin, Claudio (with Marchionna, Clelia) On the motion of a string vibrating against a gluing obstacle. (Italian summary) 91c:73036
- Krysov, S. V. see Andriyanov, V. L., 91e:73037
- Marchionna, Clelia see Citrin, Claudio, 91c:73036
- Peters, James E. (with Ames, William F.) Group properties of the nonlinear dynamic equations of elastic strings. 91h:58280
- Welle, Peter Asymptotic analysis of a rod with small bending stiffness. 91m:73044

73K05 Beams, columns, rods

- Álvarez Vázquez, L. J. (with Vialto Rey, Juan M.) Obtaining a model of linear thermoelastic torsion in beams by asymptotic methods. (Spanish) (see 91j:00015)
- Eliseev, V. V. (with Zeraghi, D. P.) On the problem of the torsion of a rod. (Russian. English and Georgian summaries) (Not in MR)
- Hodges, Dewey H. A mixed variational formulation based on exact intrinsic equations for dynamics of moving beams. 91e:73072

- Haß, Shih Pi (with Ni, Wei-Ming) Uniqueness property of large deformation of a heavy cantilever. 91a:73032
- Kardomatsas, G. A. Bending of a cylindrically orthotropic curved beam with linearly distributed elastic constants. 91a:73033
- Karnaikh, I. V. Generalized solution in $W_2^1(0, 1)$ of a problem on the bending of a beam. (Russian) 91k:73069
- Kolesnikov, S. A. Determining equilibrium forms of a flexible rod that is compressed and bent by end forces. (Russian) 91h:73058
- Analysis of the singularity of parametrization in a solution of the Euler-Kirchhoff equations. (Russian) 91e:73073
- Le Dret, Hervé Modeling of the junction between two rods. (French summary) 91m:73042
- Miara, Bernadette (with Trabucho, Luis) Approximation spectrale pour une poutre en élasticité linéarisée. (English summary) [A spectral approximation for a beam in linearized elasticity] 91j:73038
- Müller, Patrick Some comments on the center of torsion. 91d:73039
- Ni, Wei-Ming see Haß, Shih Pi, 91a:73032
- Simo, J. C. (with Vu-Quoc, L.) A geometrically exact rod model incorporating shear and torsion warping deformation. 91e:73074
- Spillers, W. R. A note on some qualitative results for beams and rods. 91g:73043
- Teodorescu, P. P. (with Toma, Ileana) An application of the linear equivalence method to the postcritical study of a Bernoulli-Euler bar. 91a:73034
- Toma, Ileana see Teodorescu, P. P., 91a:73034
- Tonon, Maria Luisa Strain energy for a transversally isotropic elastic rod. (Italian. English summary) 91h:73023
- Trabucho, Luis (with Vialto Rey, Juan M.) Existence and characterization of higher-order terms in an asymptotic expansion method for linearized elastic beams. 91g:73044
- (with Vialto Rey, Juan M.) Revision of Vlasov's bending-torsion theory for elastic beams by asymptotic methods. (Spanish) (see 91j:00015)
- (with Vialto Rey, Juan M.) A new approach of Timoshenko's beam theory by asymptotic expansion method. (French summary) 91m:73043
- see also Miara, Bernadette, 91j:73038
- Vialto Rey, Juan M. see Trabucho, Luis, 91g:73044; 91m:73043; Álvarez Vázquez, L. J., (91j:00015) and Trabucho, Luis, (91j:00015)
- Vu-Quoc, L. see Simo, J. C., 91e:73074
- Welle, Peter Asymptotic analysis of a rod with small bending stiffness. 91m:73044
- Wu, Jiong Yu On the limit case of the step-reduction method for calculating nonuniform beam with various sections. 91m:73045
- Zeraghi, D. P. see Eliseev, V. V., (Not in MR)

Items with secondary classifications in 73K05

- Aatman, Stuart S. (with Pierce, John Festus) The intricate global structure of buckled states of compressible columns. 91e:58033
- Azura, J. S. see Tsay, J. J.; et al., 91h:73044
- Artyunyan, N. Kh. (with Radaev, Yu. N.) Elastoplastic torsion of a cylindrical rod under finite deformations. 91a:73027
- Belakrishnan, A. V. Damping operators in continuum models of flexible structures: explicit models for proportional damping in beam torsion. 91h:73063
- Beale, D. G. (with Scott, R. A.) The stability and response of a flexible rod in a quick return mechanism. 91e:73068
- Blömer, C. see Braess, D., 91e:73108
- Braess, D. (with Blömer, C.) A multigrid method for a parameter dependent problem in solid mechanics. 91e:73108
- Bratner, A. S. Condition of extremum for eigenvalues of elliptic boundary value problems. 91m:35174
- Cardoso, J. E. B. see Tsay, J. J.; et al., 91h:73044
- Chiorescu, Gh. Linear thermoelasticity in the director theory of rods. (Romanian summary) (Not in MR)
- Cohen, Harley (with Wang, Chao Chen) On a finite disk method for hyperelastic rods and shells. 91h:73053
- Coleman, Bernard D. (with Newman, Daniel C.) On waves in slender elastic rods. 91h:73021
- Day, William Alan (with Karwowski, Andrzej J.; Papanicolaou, George) Buckling of randomly imperfect beams. 91c:73047
- Domokos, Gábor An elastic model with continuous spectrum. (see 91m:58001)
- Eisenberger, Moshe An exact element method. 91c:73078
- El Naschie, M. S. On certain homoclinic soliton in elastic stability. 91e:73050
- Formafakli, A. M. see Lavrovskii, E. K., 91a:73030 and 91h:93074
- Frank, Léonid S. (with Heijstek, J. J.) On the reduction of coercive singular perturbations to regular perturbations. 91b:34036
- On a singularly perturbed eigenvalue problem in the theory of elastic rods. 91h:34088
- Furta, S. D. Bifurcations of equilibrium forms of an inhomogeneous nonlinearly elastic rod in a gravity force field. (Russian) 91e:73063
- Głowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91e:73038
- Goh, C. J. see Rozvany, G. I. N.; et al., 91h:73042
- Gomilko, A. M. (with Grichenko, V. T.) Convergence of expansions in homogeneous solutions in a two-dimensional problem for a half-strip with nonsmooth loads. 91h:73021
- Grichenko, V. T. see Gomilko, A. M., 91h:73021
- Gupta, Chaitan P. Existence and uniqueness theorems for some fourth order fully quasilinear boundary value problems. 91e:34025
- A fourth-order nonlinear boundary value problem and an integral-type sign condition. 91e:34026
- Heijstek, J. J. see Frank, Léonid S., 91h:34036
- Horgan, Cornelius O. (with Payne, Lawrence E.; Simmonds, J. G.) Existence, uniqueness, and decay estimates for solutions in the nonlinear theory of elastic, edge-loaded, circular tubes. 91h:73024
- Haß, Shih Pi see Ni, Wei-Ming, 91a:73065
- Ji, Zhen Yi (with Ye, Kai Yuan) Exact analytic method for solving variable coefficient differential equation. 91a:34002
- Kahafakli, M. M. An inverse problem of the calculus of variations and its application

- for the integration of higher-order nonlinear ordinary differential equations. (Russian) 91k:34011
- Karwowski, Andrzej J. Asymptotic models for a long, elastic cylinder. 91m:73060
— see also Day, William Alan; et al., 91c:73047
- Kobele, V. V. Isoperimetric inequalities in the anisotropic rod torsion problem. 91j:73047
- Lavrovskii, E. K. (with Formal'skii, A. M.) Stabilization of a given position of an elastic rod. 91a:73030
— (with Formal'skii, A. M.) Stabilization of the angular position of an elastic rod. 91k:93074
- Lawo, M. see Rozvany, G. L. N.; et al., 91h:73042
- Léger, Alain (with Potier-Ferry, Michel) Bifurcations for plastic bodies in the plastic range. 91g:73038
- Le Taliec, Patrick see Glowinski, Roland, 91f:73038
- Marsden, Jerrold E. see Simo, J. C.; et al., 91j:73036
- Matvichuk, K. S. Conditions for technical stability of solutions of a boundary value problem that describes the dynamics of an extended rod with a variable cross section moving longitudinally in a fluid. (Russian) 91f:73024
- Mentras, Lando On a singular system of differential equations arising in variational methods. 91h:73061
- Nayfeh, Ali Hasan see Pal, Pergin F., 91h:73027
- Nazarov, S. A. Elliptic inequalities for thin elastic bodies with a small friction coefficient. 91h:35139
- Newman, Daniel C. see Coleman, Bernard D., 91h:73021
- Ni, Wei-Ming (with Hsu, Shih Pi) On the asymptotic behavior of solutions of $v''(x) + x \sin v(x) = 0$. 91a:34065
- Nikitin, L. V. (with Tyurekhodzhiev, A. N.) Wave propagation and vibration of elastic rods with interfacial frictional slip. 91j:73062
- Owen, Nicholas C. Some remarks on the stability of the homogeneous deformation for an elastic bar. 91g:73042
- Pal, Pergin F. (with Nayfeh, Ali Hasan) Nonlinear nonplanar oscillations of a cantilever beam under lateral base excitations. 91h:73027
- Papanicolaou, George see Day, William Alan; et al., 91c:73047
- Payne, Lawrence E. see Horgan, Cornelius O.; et al., 91h:73024
- Pierce, John Festus ★ Singularity theory, rod theory, and symmetry-breaking loads. 91h:73056
— see also Antman, Stuart S., 91c:58033
- Posbergh, T. A. see Simo, J. C.; et al., 91j:73036
- Potapov, V. D. Stability of rods under stochastic excitation. 91a:73051
- Potier-Ferry, Michel see Léger, Alain, 91g:73038
- Prater, G. Jr. (with Singh, R.) Eigenproblem formulation, solution and interpretation for nonproportionally damped continuous beams. 91j:73043
- Radaev, Yu. N. see Artyunyan, N. Kh., 91a:73027
- Rozvany, G. L. N. (with Lawo, M.; Goh, C. J.; et al.) On the Masur paradox. 91h:73042
- Sacchi, Pier Luigi On the problem of torsion in finite elasticity. II. Some general remarks in the case of uniform torsion. 91e:73058
- Scott, R. A. see Beale, D. G., 91e:73068
- Sebe, Gabriel (with Tucsnak, Marius) The influence of a perfect fluid on the critical loading of a rod immersed in it. 91g:73039
- Sensharov, S. I. Group classification of an equation of a viscoelastic rod. (Russian) 91h:35014
- Shen, Mao Shan (with Wei, De Min) A catastrophic model for vibrational buckling of elastic arches. 91h:73068
- Simmonds, J. G. see Horgan, Cornelius O.; et al., 91h:73024
- Simo, J. C. (with Posbergh, T. A.; Marsden, Jerrold E.) Stability of coupled rigid body and geometrically exact rods: block diagonalization and the energy-momentum method. 91j:73036
- Singh, R. see Prater, G. Jr., 91j:73043
- Skorokhodov, S. L. Analytic solution of the Dirichlet problem for T-shaped and cross-shaped domains. (Russian) 91h:35040
- Tsay, J. J. (with Cardoso, J. E. B.; Arora, J. S.) Nonlinear structural design sensitivity analysis for path dependent problems. II. Analytical examples. 91h:73044
- Tucsnak, Marius Buckling of nonlinearly elastic rods immersed in a fluid. 91g:73040
— see also Sebe, Gabriel, 91g:73039
- Tyurekhodzhiev, A. N. see Nikitin, L. V., 91j:73062
- Wang, Chang Yi Nonlinear deformations of a slender rod rotated at one end. 91h:73022
- Wang, Chao Chen see Cohen, Harley, 91h:73053
- Wei, De Min see Shen, Mao Shan, 91h:73068
- Westbrook, D. R. The obstacle problem for beams and plates. 91e:73119
- Xu, Zhong Yong (with Yang, Jian Hui) A new theory of shells, plates and beams based on variational principles. I. (Chinese. English summary) 91e:73087
- Yang, Jian Hui see Xu, Zhong Yong, 91e:73087
- Ye, Kai Yuan see Ji, Zhen Yi, 91a:34002
- Yue, Yun Cheng Pointwise stabilizability of coupled elastic beam systems. 91h:93092
- 73K10 Plates, discs, membranes**
- Adali, S. see Bruch, J. C., Jr.; et al., (Not in MR)
- Algozzino, Franco (with Cicala, Placido) A laterally compressed hyperelastic plate under large deformations. (Italian. English summary) 91m:73046
- Arnold, Douglas N. (with Falk, Richard S.) The boundary layer for the Reissner-Mindlin plate model. 91c:73053
- Aufranc, Martial Plaquas raidies par des poutres. (English summary) [Plates stiffened by rods] 91h:73024
- Babauka, Ivo (with Pitkäranta, J.) The plate paradox for hard and soft simple support. 91h:73059
- Bochkarev, V. V. (with Kirichenko, V. F.; Krysko, V. A.) Some iterative algorithms for solving equations of von Kármán type. (Russian) 91a:73035
- Bourquin, Frédéric Approximation bidimensionnelle du spectre de l'opérateur de Poincaré-Steklov associé aux plaques minces. (English summary) [Two-dimensional approximation of the spectrum of the Poincaré-Steklov operator associated with thin plates] 91j:73039
- Bruck, F. see Kutnjak, M., 91k:73071
- Bruch, J. C., Jr. (with Sloss, J. M.; Adali, S.; Sadek, I. S.) Orthotropic plates with shear rotation subject to optimal open-closed loop control. (Not in MR)
- Cai, Song Bo see Wang, Lei, 91a:73039
- Chacha, Djamel Comportement macroscopique de plaques hétérogènes fissurées localement périodiques. (English summary) [Macroscopic behavior of heterogeneous and fissured locally periodic plates] 91m:73047
- Chen, Hong Sen A superconvergence estimate for mixed finite element methods for plate bending problems. (Chinese. English summary) 91e:73075
- Chen, Shao Chun see Shi, Zhong Ci, 91e:73078
- Clarlet, Philippe G. (with Le Dret, Hervé) Justification of the boundary conditions of a clamped plate by an asymptotic analysis. (French summary) 91a:73036
— ★ Plates and junctions in elastic multi-structures. 91h:73034
- Cicala, Placido see Algozzino, Franco, 91m:73046
- Cimetière, A. (with Destuynder, Philippe) A bending and buckling model for elastic-plastic plates. 91f:73025
- Dems, K. (with Mróz, Z.) Sensitivity of buckling load and vibration frequency with respect to shape of stiffened and unstiffened plates. 91a:73037
- Destuynder, Philippe see Cimetière, A., 91f:73025
- Falk, Richard S. see Arnold, Douglas N., 91c:73053
- Fan, Ye Li see Zeng, Jia Xiong, 91d:73040
- Gomilko, A. M. (with Grichenko, V. T.; Meleshko, V. V.) Homogeneous solutions in a problem on the equilibrium of an elastic cylinder of finite length. (Russian) 91e:73076
- Green, W. A. (with Shi, Jingyu) Plane deformations of membranes formed with elastic cords. 91e:73077
- Grigolyuk, E. I. (with Kulikov, G. M.) An analytic method for solving nonlinear problems in the theory of multilayered anisotropic plates. 91k:73070
- Grichenko, V. T. see Gomilko, A. M.; et al., 91e:73076
- Haughton, David Mark An exact solution for the stretching of elastic membranes containing a hole or inclusion. (Not in MR)
- Kabamba, Pierre T. see Singh, Gurkirpal; et al., (Not in MR)
- Katsikadellis, J. T. (with Nerantzaki, M. S.) Large deflections of thin plates by the boundary element method. (see 91h:00043)
- Kirichenko, V. F. see Bochkarev, V. V.; et al., 91a:73035
- Kirillov, Yu. V. (with Postnikov, A. A.; Tyulenev, A. I.) Studies in the theory of plates and shells of the moment theory of elasticity (a survey). (Russian) (Not in MR)
- Koltsakis, M. (with Panagiotopoulos, P. D.) Nonmonotone skin effects in laminated plates in stretching. (see 91g:00043)
- Kovaleva, E. V. More precise equations for the deformation of elastic plates. 91h:73060
- Krysko, V. A. see Bochkarev, V. V.; et al., 91a:73035
- Kulikov, G. M. see Grigolyuk, E. I., 91k:73070
- Kutnjak, M. (with Bruck, F.) The component σ_z of the stress tensor. 91k:73071
- Le Dret, Hervé see Clarlet, Philippe G., 91a:73036
- Lin, Yi-Han (with Wan, Frederic Y. M.) Semi-infinite orthotropic cantilevered strips and the foundations of plate theories. 91a:73038
- McClamroch, N. Harris see Singh, Gurkirpal; et al., (Not in MR)
- Meleshko, V. V. see Gomilko, A. M.; et al., 91e:73076
- Mróz, Z. see Dems, K., 91a:73037
- Nerantzaki, M. S. see Katsikadellis, J. T., (91h:00043)
- Panagiotopoulos, P. D. see Koltsakis, M., (91g:00043) and Stavroulakis, G. E., (91g:00043)
- Paumier, Jean-Claude Existence theorems for nonlinear elastic plates with periodic boundary conditions. (French summary) 91k:73072
- Pericvalde, D. Perfectly plastic plates: a variational definition. 91h:73035
- Pitkäranta, J. see Babauka, Ivo, 91h:73059
- Podio-Guidugli, Paolo An exact derivation of the thin plate equation. 91h:73061
- Postnikov, A. A. see Kirillov, Yu. V.; et al., (Not in MR)
- Quintela Estevez, Peregrina Nonlinear elastic plates with rapidly varying thickness. Analysis of the influence of the behavior of the forces when the average thickness of the plate tends to zero. (Spanish) (see 91j:00015)
- Reissner, E. On asymptotic expansions for the sixth-order linear theory problem of transverse bending of orthotropic elastic plates. 91k:73073
- Restov, M. V. Properties of effective modules of composite plates. 91m:73048
- Sachenkov, A. V. (with Timerbaev, R. M.) Application of general solutions of equations in elasticity theory to plate deformation problems. (Russian) 91h:73074
- Sadek, I. S. see Bruch, J. C., Jr.; et al., (Not in MR)
- Schlaue, Peter Generalised Fourier series for exterior problems in extensional motions of thin micropolar plates. 91j:73040
— Uniqueness in dynamic problems of thin micropolar plates. (Not in MR)
- Shi, Jingyu see Green, W. A., 91e:73077
- Shi, Zhong Ci (with Chen, Shao Chun) A direct analysis of the 9-parameter quasiconforming plate element. (Chinese. English summary) 91e:73078
- Simmonds, J. G. Pointwise errors in the classical and in Reissner's linear theory of plates, especially for concentrated loads. 91g:73045
- Simonev, I. V. Asymptotic analysis of three-dimensional dynamical equations of thin two-layer elastic plates. 91e:73079
- Singh, Gurkirpal (with Kabamba, Pierre T.; McClamroch, N. Harris) Time-optimal spinup maneuvers of flexible spacecraft. (Not in MR)
- Sloss, J. M. see Bruch, J. C., Jr.; et al., (Not in MR)
- Sobotka, Zdeněk ★ Theory of plasticity and limit design of plates. 91h:73062
- Stavroulakis, G. E. (with Panagiotopoulos, P. D.) Free boundary problem in the bending theory of laminated plates subject to subdifferential boundary conditions. (see 91g:00043)
- Sukhoterina, M. V. On the study of the bending of a rectangular Reissner plate that is fixed along the contour. (Russian. English summary) 91h:73036
- Timerbaev, R. M. see Sachenkov, A. V., 91h:73074
- Trovtsev, G. An alternative analysis of clamped elastic plates using BEM. (see 91h:00043)
- Tyulenev, A. I. see Kirillov, Yu. V.; et al., (Not in MR)
- Wan, Frederic Y. M. see Lin, Yi-Han, 91a:73038
- Wang, Lei (with Cai, Song Bo) Navier's method for solving the problem of bending, buckling and vibration of quadrilateral plates with all edges simply supported. (Chinese. English summary) 91a:73039

- Wang, Yin Bang Bending problems for rectangular plates with linearly varying thickness. (Chinese. English summary) (Not in MR)
- White, L. W. Estimation of elastic parameters in a nonlinear elliptic model of a plate. 91m:73049
- Yang, Wei see Zhong, Z.; et al., 91a:73040
- Yu, S. W. see Zhong, Z.; et al., 91a:73040
- Zeng, Jia Xiong (with Fan, Ye Li) A new higher-order theory to laminated plates and shells. 91d:73040
- Zheng, Xiao Jing (with Zhou, You He) On convergence of interpolated-iterative method of geometrically nonlinear equations of circular plates. 91f:73026
- Zhong, Z. (with Yang, Wei; Yu, S. W.) Further result on symmetric bending of cracked Reissner plate. 91a:73040
- Zhou, You He see Zheng, Xiao Jing, 91f:73026
- Items with secondary classifications in 73K10
- Acerbi, Emilio (with Buttazzo, Giuseppe; Percivale, D.) Thin inclusions in linear elasticity: a variational approach. 91h:73006
- Ames, K. A. (with Ames, William F.) Addenda: "Analysis of the von Kármán equations by group methods" [Internat. J. Non-Linear Mech. 20 (1985), no. 4, 201-209; MR 87b:35003]. (Not in MR)
- Ames, William F. see Ames, K. A., (Not in MR)
- Andronov, I. V. Scattering of a flexural wave by a finite rectilinear crack in an elastic plate. 91f:73031
- Antman, Stuart S. Global properties of buckled states of plates that can suffer thickness changes. 91h:73053
- see also Negrón-Marrero, Pablo V., 91h:73055
- Arnold, Douglas N. (with Falk, Richard S.) A uniformly accurate finite element method for the Reissner-Mindlin plate. 91c:65068
- Asclone, Luigi (with Bilotti, Giancarlo) The dynamical problem of an elastic plate resting on a two-parameter foundation which does not react in tension. (Italian summary) 91j:73058
- Attou, D. see Maugin, Gérard A., 91f:73032
- Aufranc, Martial Numerical study of a junction between a three-dimensional elastic structure and a plate. 91h:73084
- Bilotti, Giancarlo see Asclone, Luigi, 91j:73058
- Boer, T. B. Uniqueness and regularity properties of linear operators and their applications. 91i:35001
- Borkowski, A. (with Jendo, S.) ★ Structural optimization. Vol. 2. 91j:73046
- Bova, P. G. (with Koshchil, A. F.; Shcheglov, V. A.) A posteriori estimates for the solution in problems of theory of thin plates. (Russian) (see 91h:73001)
- Brilla, Igor Bifurcations of generalized von Kármán equations for circular viscoelastic plates. (Russian and Slovak summaries) 91f:73018
- Equivalent formulations of generalized von Kármán equations for circular viscoelastic plates. (Russian and Slovak summaries) 91g:35062
- Postbuckling analysis of circular viscoelastic plates. 91g:73035
- Buttazzo, Giuseppe see Acerbi, Emilio; et al., 91h:73006
- Canisius, T. D. G. Comment on: "Postbuckling behavior of laminated plates using a direct energy-minimization technique" [AIAA J. 27 (1989), no. 12, 1785-1792] by P. J. Minguet, J. Dugundji and P. Lagace. (Not in MR)
- Cheban, V. G. see Lennyuk, M. P.; et al., 91h:73016
- Chinosi, Claudia (with Sacchi Landriani, Giovanni; Scapolla, T.) A hierarchy family of conforming finite elements for the solution of plate bending problems. 91g:73061
- Ciarlet, Philippe G. A new class of variational problems arising in the modeling of elastic multi-structures. 91f:65166
- Constanda, C. ★ A mathematical analysis of bending of plates with transverse shear deformation. 91m:73016
- Déborde, O. see Wislowski, C., 91h:73056
- Dems, K. (with Mróz, Z.) Shape sensitivity analysis and optimal design of physically nonlinear plates. (Russian and Polish summaries) 91h:73032
- Deng, Qing Ping Error estimates for a nonconforming plate element. (Chinese. English summary) 91k:73100
- A remark on an incomplete biquadratic nonconforming plate element. (Chinese. English summary) 91m:65273
- A nonconforming plate element and its applications. 91k:73101
- (Dugundji, John) see Canisius, T. D. G., (Not in MR)
- Falk, Richard S. see Arnold, Douglas N., 91c:65068
- Fomarev, A. A. On the determination of the buckled forms of a circular plate. 91d:73034
- Fusaro, Daniele (with Heinrichs, Wilhelm) Some results about the pseudospectral approximation of one-dimensional fourth-order problems. 91m:65206
- Furta, S. D. Instability of the equilibrium of a filament on an inclined plane. (Russian) (see 91k:00028)
- Gao, Yang On the extreme variational principles for nonlinear elastic plates. 91e:73116
- Gautschi, Walter On certain slowly convergent series occurring in plate contact problems. 91j:40002
- Gelovanov, A. I. Investigation of the phenomenon of the loss of accuracy in the calculation of thin plates by shear finite elements. 91f:73080
- Grayhack, William T. (with Mahar, Thomas J.) Buckling of rib-stiffened plates: an asymptotic approach. 91d:73035
- Gumenyuk, B. P. see Karnaukhov, V. G., 91h:73005
- Guz', A. N. (with Nemish, Yu. N.) ★ Метод возмущения формы границы в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007
- Hadian, J. (with Nayfeh, Ali Hasan) Modal interaction in circular plates. 91h:73042
- Heinrichs, Wilhelm see Fusaro, Daniele, 91m:65206
- Huang, Hou-Cheng ★ Static and dynamic analyses of plates and shells. 91a:73069
- Huang, Zi Ping A multi-grid algorithm for mixed problems with penalty. 91f:65179
- Isakimidis, N. I. A hybrid method for the solution of problems of bending of thin plates. 91g:73071
- Jendo, S. see Borkowski, A., 91j:73046
- Kaloerov, S. A. Complex potentials in a plane problem of elasticity theory for a multiply connected anisotropic body with cracks. (Russian) 91k:73030
- Elastic equilibrium of a multiply connected isotropic plate with cracks. (Russian) 91k:73031
- Karnaukhov, V. G. (with Gumenyuk, B. P.) ★ Термомеханика предварительно деформированных вязкоупругих тел. (Russian) [Thermomechanics of predeformed viscoelastic bodies] 91h:73005
- Khludnev, A. M. Optimal control of the form of a stamp in a contact problem for a plate. (Russian) 91k:73081
- Optimal control of a plate over an obstacle. 91e:49005
- Khludnev, E. Yu. The existence of a solution in the problem of the contact of a nonelastic plate with a rigid stamp. (Russian) 91j:73060
- Koshchil, A. F. see Bova, P. G.; et al., (91h:73001)
- (Lagace, Paul) see Canisius, T. D. G., (Not in MR)
- Lagnese, John E. ★ Boundary stabilization of thin plates. 91k:73001
- The reachability problem for thermoelastic plates. 91f:93018
- Lanlicka, Irena Asymptotic behavior of the solutions of the Kirchhoff plate with nonlinear dissipation in the bending moment. 91f:35052
- Lavrensyuk, S. P. A Cauchy problem for an equation of the type of oscillation of a plate with nonnegative characteristic form. (Ukrainian. Russian summary) (Not in MR)
- Existence of the generalized solutions of the Cauchy problem for degenerate equations of the type of oscillation of a plate. (Russian) 91e:35062
- Lennyuk, M. P. (with Sucheivan, V. G.) A quasistatic problem in thermoelasticity for an infinite two-layer cylindrically anisotropic plate with a round hole. (Russian) 91e:73013
- (with Sucheivan, V. G.) A quasistatic problem in thermoelasticity for an infinite three-layer cylindrically anisotropic plate with a circular hole. (Russian) 91k:73015
- (with Cheban, V. G.; Yakobets, D. S.) A coupled quasistatic problem of thermoelasticity for a two-component semibounded plate. (Russian) 91k:73016
- Mahar, Thomas J. see Grayhack, William T., 91d:73035
- Mamedov, A. K. An inverse problem of the reconstruction of the deformation diagram of an elastoplastic plate. (Russian) 91a:73022
- Matysina, E. A. see Matysina, N. V., 91g:65282
- Matysina, N. V. (with Matysina, E. A.) On a constructive solution of a nonlinear boundary value problem. (Russian. English summary) 91g:65282
- Maugin, Gérard A. (with Attou, D.) An asymptotic theory of thin piezoelectric plates. 91f:73032
- Meissner, Udo (with Wibbeler, Hermann) A least square principle for the a posteriori computation of finite element approximation errors. 91j:73068
- Miersemann, Erich (with Mittelmann, Hans D.) A free boundary problem and stability for the rectangular plate. 91d:35245
- (Minguet, Pierre J.) see Canisius, T. D. G., (Not in MR)
- Mittelmann, Hans D. see Miersemann, Erich, 91d:35245
- Moscattelli, Vincenzo Bruno (with Thompson, Mark) Asymptotic distribution of Liusternik-Schnirelman eigenvalues for elliptic nonlinear operators. 91m:35177
- Mróz, Z. see Dems, K., 91h:73032
- Nayfeh, Ali Hasan see Hadian, J., 91h:73042
- Nazarov, S. A. Asymptotic behavior of the solution of an elliptic boundary value problem in a thin domain. (Russian) 91f:35093
- Elliptic inequalities for thin elastic bodies with a small friction coefficient. 91h:35139
- Negrón-Marrero, Pablo V. (with Antman, Stuart S.) Singular global bifurcation problems for the buckling of anisotropic plates. 91h:73055
- Nemish, Yu. N. see Guz', A. N., 91f:73007
- Panagiotopoulos, P. D. Semicovering hemivariational inequalities. On the delamination of composite plates. 91a:73078
- Panasenko, G. P. (with Reztsov, M. V.) Asymptotic expansion of the solution of a system of equations in elasticity theory in an inhomogeneous thin layer. (Russian) 91f:73005
- Pawlak, T. P. see Yumus, S. M.; et al., 91a:73072
- Peisker, P. (with Rust, W.; Stein, Erwin) Iterative solution methods for plate bending problems: multigrid and preconditioned cg algorithm. 91h:73055
- Percivale, D. see Acerbi, Emilio; et al., 91h:73006
- Quintela Estevez, Peregrina A new model for nonlinear elastic plates with rapidly varying thickness. 91f:73021
- Reissner, E. On buckling of crosswise rigid elastic cantilever plates. 91e:73067
- (Reitman, M. I.) see Borkowski, A., 91j:73046
- Repyakh, V. V. Error analysis of the method of approximate superelements. (Russian) 91m:65264
- Reztsov, M. V. see Panasenko, G. P., 91f:73005
- Rust, W. see Peisker, P.; et al., 91h:73055
- Sacchi Landriani, Giovanni see Chinosi, Claudia; et al., 91g:73061
- (Save, M.) see Borkowski, A., 91j:73046
- Scapolla, T. see Chinosi, Claudia; et al., 91g:73061
- Sethna, P. R. see Yang, X. L., 91m:73050
- Shcheglov, V. A. see Bova, P. G.; et al., (91h:73001)
- Shi, Zhong Ci The space of shape functions of an energy-orthogonal plate element. (Chinese. English summary) (Not in MR)
- Silvestrov, V. V. On the elastic stress and strain state near a spatial crack on a two-sheeted surface. 91f:73010
- Stein, Erwin see Peisker, P.; et al., 91h:73055
- Sucheivan, V. G. see Lennyuk, M. P., 91e:73013 and 91k:73015
- Tang, Qi Justification of elastoplastic plate models. 91e:73043
- Taylor, Robert Leroy see Weissman, Samuel L., 91a:73071
- Tew, R. H. Ray theory of the diffraction of sound by an inhomogeneous membrane. 91e:76103
- Thompson, Mark see Moscatelli, Vincenzo Bruno, 91m:35177
- Titski, V. P. A method for calculating fields of different physical properties by means of the methods of R-functions and of singular solutions. (Russian. English summary) 91c:65081
- Valette, Bernard Spectre des vibrations propres d'un corps élastique, auto-gravitant, en rotation uniforme et contenant une partie fluide. (English summary) [Free oscillations spectrum of an elastic, self-gravitating, uniformly rotating body with a fluid inclusion] 91g:73047

- Weichert, D. Shakedown of shell-like structures allowing for certain geometrical nonlinearities. (Russian and Polish summaries) 91b:73049
- Weissman, Shmuel L. (with Taylor, Robert Leroy) Resultant fields for mixed plate bending elements. 91a:73071
- Westbrook, D. R. The obstacle problem for beams and plates. 91b:73119
- Wheeler, M. J. see Yunus, S. M.; et al., 91a:73072
- Wibbeler, Hermann see Meissner, Udo, 91b:73068
- Wielgosz, C. (with Débordes, O.) Exact or quasi-exact numerical results for two-dimensional harmonic problems. 91b:73056
- Xie, Wei An Problems of finite plates with cracks. (Chinese. English summary) 91b:73071
- Xie, Zheng Hui The differential form and the convergence order of the finite element method for a fourth-order elliptic variational inequality. (Chinese. English summary) 91a:65235
- Xie, Zhi Cheng see Yin, Ya Jun, 91b:73086
- Xu, Zhong Yong (with Yang, Jian Hui) A new theory of shells, plates and beams based on variational principles. I. (Chinese. English summary) 91b:73087
- Yakobets, D. S. see Lanyuk, M. P.; et al., 91b:73016
- Yakushev, N. Z. Dynamics of deformable systems under the action of moving loads. III. Dynamics of plates and shells under the action of moving loads. (Russian) (Not in MR)
- Yang, Jian Hui see Xu, Zhong Yong, 91b:73087
- Yang, X. L. (with Sethna, P. R.) Local and global bifurcations in parametrically excited vibrations of nearly square plates. 91m:73050
- Yin, Ya Jun (with Xie, Zhi Cheng) Finite elements for plates and shells based on a piecewise generalized variational principle. (Chinese. English summary) 91b:73086
- Yunus, S. M. (with Pawlak, T. P.; Wheeler, M. J.) Application of the Zienkiewicz-Zhu error estimator for plate and shell analysis. 91a:73072
- Zhang, Fei Two unconventional plate element methods. (Chinese. English summary) (Not in MR)
- Zabov, L. M. Energy contour integrals in the nonlinear theory of elastic plates and shells. 91b:73069

73K12 Dynamics of structures

- Andrianov, I. V. (with Shevchenko, V. V.) Free bent oscillations of a plate that is perforated by square holes. (Russian) (see 91b:00029)
- Aslanyan, A. G. (with Gulina, A. V.; Kartyshov, S. V.) Calculation of the eigenfrequencies and forms of the oscillations of a coil spring. (Russian. English summary) 91b:73075
- Balakrishnan, A. V. Damping operators in continuum models of flexible structures: explicit models for proportional damping in beam torsion. 91b:73063
- Banks, H. T. (with Fabiano, R. H.; Wang, Yun) Inverse problem techniques for beams with tip body and time hysteresis damping. (Portuguese summary) 91b:73080
- Belyaev, A. K. On the application of the locality principle in structural dynamics. 91b:73041
- Beskos, D. E. see Providakis, C. P., 91b:00044
- Braun, Simon G. see Ram, Yitsak M., 91b:73028
- Chen, Shu Hui see Zhang, You Qi; et al., 91b:73082
- Chruszczak, A. Strong solutions of nonlinear equations of vibrations of shells. 91b:73025
- Cohen, Harley (with Thomas, R. S. D.) Decay of transient waves in inhomogeneous anisotropic elastic shells. 91b:73026
- (with Thomas, R. S. D.) Transient waves in inhomogeneous elastic shells of variable thickness. (Not in MR)
- Du, Zuo Run see Wang, Wen Liang, 91b:73077
- Dudnik, R. A. (with Makeyeva, E. A.; Fiyaksef, E. A.) On the effect of an inhomogeneity on oscillations of a cylindrical shell. (Russian) (Not in MR)
- Easwaran, C. V. see Ramkissoon, H.; et al., (Not in MR)
- Fabiano, R. H. see Banks, H. T.; et al., 91b:73080
- Fiyaksef, E. A. see Dudnik, R. A.; et al., (Not in MR)
- Fu, Bao Lian (with Li, Nong) The method of the reciprocal theorem of forced vibration for the elastic thin rectangular plates. II. Rectangular plates with two adjacent clamped edges. (Not in MR)
- Gulina, A. V. see Aslanyan, A. G.; et al., 91b:73075
- Hadian, J. (with Nayfeh, Ali Hasan) Modal interaction in circular plates. 91b:73042
- He, Kui see Ji, Jian Jun; et al., 91b:73041
- Ider, S. Kemal Stability analysis of constraints in flexible multibody systems dynamics. 91b:73076
- Ji, Jian Jun (with Hu, Kui; Wang, Da Jun) The asymptotic properties of high frequencies for bars, beams and membranes. 91b:73041
- Kartyshov, S. V. see Aslanyan, A. G.; et al., 91b:73075
- Kees, W. W. Longitudinal oscillations in a homogeneous elastic beam in the form of a truncated circular cone. (Romanian) 91a:73042
- Kirin, E. Ya. The Fourier method in a problem of the vibrations of a cylindrical shell. (Russian) (see 91b:00010)
- Kong, Fan Rang (with Liu, Yong Chang) A grey box equivalent system and its analytic solution. (Chinese. English summary) (Not in MR)
- Lau, S. L. see Zhang, You Qi; et al., 91b:73082
- Lavrenyuk, S. P. A Cauchy problem for an equation of the type of oscillation of a plate with nonnegative characteristic form. (Ukrainian. Russian summary) (Not in MR)
- Le Dret, Hervé Vibrations of a folded plate. (French summary) 91b:73046
- Leung, A. Y. T. Nonconservative dynamic substructures. 91b:73081
- Li, Nong see Fu, Bao Lian, (Not in MR)
- Liu, Yong Chang see Kong, Fan Rang, (Not in MR)
- Majumdar, S. R. see Ramkissoon, H.; et al., (Not in MR)
- Makeyeva, E. A. see Dudnik, R. A.; et al., (Not in MR)
- McKenna, P. J. (with Walter, Wolfgang L.) Travelling waves in a suspension bridge. 91a:73043
- Nayfeh, Ali Hasan see Pai, Peruggi F., 91b:73027 and Hadian, J., 91b:73042
- Newland, D. E. ★ Mechanical vibration analysis and computation. 91a:73044
- Pai, Peruggi F. (with Nayfeh, Ali Hasan) Nonlinear nonplanar oscillations of a cantilever beam under lateral base excitations. 91b:73027
- Petyt, Maurice ★ Introduction to finite element vibration analysis. 91c:73054
- Plaut, Raymond H. see Wauer, J., (Not in MR)

- Prater, G. Jr. (with Singh, R.) Eigenproblem formulation, solution and interpretation for nonproportionally damped continuous beams. 91b:73043
- Providakis, C. P. (with Beskos, D. E.) Dynamic analysis of elastic plates. (see 91b:00044)
- Ram, Yitsak M. (with Braun, Simon G.) Upper and lower bounds for the natural frequencies of modified structures based on truncated modal testing results. 91b:73028
- Ramkissoon, H. (with Easwaran, C. V.; Majumdar, S. R.) Longitudinal and torsional oscillation of a rod in a polar fluid. (Not in MR)
- Sentilal, Ya. E. On the construction of a general solution of a nonaxisymmetric dynamic problem for a shallow spherical shell with finite shear rigidity. 91a:73045
- Sethna, P. R. see Yang, X. L., 91m:73050
- Shevchenko, V. V. see Andrianov, I. V., 91b:00029
- Singh, R. see Prater, G., Jr., 91b:73043
- Thomas, R. S. D. see Cohen, Harley, 91b:73026 and (Not in MR)
- Valet, Bernard Spectre des vibrations propres d'un corps élastique, auto-gravitant, en rotation uniforme et contenant une partie fluide. (English summary) [Free oscillations spectrum of an elastic, self-gravitating, uniformly rotating body with a fluid inclusion] 91b:73047
- Vald, Roger Élastodynamique non linéaire des coques minces en énergie complémentaire. (English summary) [Nonlinear elastodynamics of thin shells in complementary energy] 91b:73027
- Walter, Wolfgang L. see McKenna, P. J., 91a:73043
- Wang, Da Jun see Ji, Jian Jun; et al., 91b:73041
- Wang, Wen Liang (with Du, Zuo Run) A double compatible modal synthesis method for structures with symmetry group C_n . (Chinese. English summary) 91b:73077
- Wang, Yun see Banks, H. T.; et al., 91b:73080
- Wauer, J. (with Plaut, Raymond H.) Vibrations of an extensible, air-inflated, cylindrical membrane. (Not in MR)
- Yakushev, N. Z. Dynamics of deformable systems under the action of moving loads. III. Dynamics of plates and shells under the action of moving loads. (Russian) (Not in MR)
- Yang, X. L. (with Sethna, P. R.) Local and global bifurcations in parametrically excited vibrations of nearly square plates. 91m:73050
- Zhang, You Qi (with Chen, Shu Hui; Lau, S. L.) Application of the incremental harmonic balance method to cubic nonlinearity systems. 91b:73082

Items with secondary classifications in 73K12

- Amiro, I. Ya. (with Zarutskii, V. A.) Statics, dynamics and stability of ribbed shells. (Russian. English summary) 91b:73078
- Andreev, V. P. (with Gudkov, V. V.) Elastic oscillations of an isotropic infinite cylinder of a special cross section. (Russian) 91b:73033
- Andrianov, I. V. (with Krysov, S. V.) Interaction of a material point with a string on an elastic foundation. (Russian) 91b:73037
- Andrianov, I. V. Scattering of a flexural wave by a finite rectilinear crack in an elastic plate. 91b:73031
- Ascione, Luigi (with Bilotti, Giancarlo) The dynamical problem of an elastic plate resting on a two-parameter foundation which does not react in tension. (Italian summary) 91b:73058
- Badrakhan, F. see Mahfouz, I. A., 91b:70024
- Balakrishnan, A. V. Damping operators in continuum models of flexible structures: explicit models for proportional damping in beam bending with end-bodies. 91b:73035
- Banichuk, N. V. (with Ivanova, S. Yu.; Sharanyuk, A. V.) ★ ДИНАМИКА КОНСТРУКЦИЙ. АНАЛИЗ И ОПТИМИЗАЦИЯ. (Russian) [Dynamics of structures. Analysis and optimization] 91m:73055
- (with Bratus', A. S.) Optimization of the stability of elastic nonconservative systems. (Russian) 91b:73080
- Banks, H. T. (with Kojima, Fumio) Filtering problem for the stochastic vibration of flexible beams with tip bodies. 91b:73060
- Barkar, S. M. Eigenvalues of a boundary value problem in the open right half-plane. (Russian) 91m:34024
- Berrahmoun, Larbi Stabilisation de structures flexibles faiblement amorties. (English summary) [Stabilization of weakly damped flexible structures] 91b:93027
- Bhaskar, T. Gnana see Venkatesulu, M., 91b:47110
- Bilotti, Giancarlo see Ascione, Luigi, 91b:73058
- Bloch, Anthony M. Stability analysis of a rotating flexible system. 91b:70022
- Bogmer, A. (with Horváth, Miklós; Jód, István) Notes to some papers of V. Komornik on vibrating membranes. 91b:42049
- Bolotin, V. V. (with Dubovskikh, Yu. A.; Zhinzher, N. I.) Wave motion of elongated elastic bodies subjected to nonlinear flutter. 91b:73065
- Borshch, S. P. (with Popov, A. L.; Chernyshev, G. N.) A method for identifying singularities in a problem on the hydroelastic oscillations of a shell that are excited by concentrated forces. (Russian) (Not in MR)
- Bratus', A. S. see Banichuk, N. V., 91b:73080
- Bychenkov, V. A. (with Krysov, S. V.) Application of the phase-plane method to the study of steady oscillations in one-dimensional elastic systems excited by moving loads. (Russian) (see 91b:00007)
- Cai, Song Bo see Wang, Lei, 91a:73039
- Chen, Goong see Huang, Fa Lam; et al., 91b:47038
- Chernyshev, G. N. see Borshch, S. P.; et al., (Not in MR)
- Choi, Q-Hueng (with Jung, Tacksun) On periodic solutions of the nonlinear suspension bridge equation with a rotary inertia term. 91b:35032
- Chueshov, I. D. A problem on nonlinear oscillations of a shallow shell in a quasistatic formulation. 91b:35217
- Coleman, Bernard D. (with Newman, Daniel C.) On waves in slender elastic rods. 91b:73021
- Conrad, Francis Stabilization of beams by pointwise feedback control. 91b:93137
- (Dalley, R. Lane) see Mills-Curran, William C., 91m:65109
- Del Pedro, Michel (with Pahud, Pierre) ★ Mécanique vibratoire. (French) [Vibration mechanics] (Not in MR)
- Dems, K. (with Mróz, Z.) Sensitivity of buckling load and vibration frequency with respect to shape of stiffened and unstiffened plates. 91a:73037
- Dem'yanchuk, A. P. see Molchanov, I. N.; et al., 91b:34017

- De Silva, C. N. *see* Meshenish, A., 91h:73020
- Ding, Yan Heng. A note on nonlinear beam equations. (Chinese) 91h:35218
- Dresig, H. *see* Vulfson, I. I., 91d:73029
- Dubrovskikh, Yu. A. *see* Bolotin, V. V.; et al., 91c:73065
- Dymitruk, Anna. Vibration control of the system of strings connected in a node. 91c:73063
- El-Attary, Mohamed (with Khater, Ahmed) Wave propagation due to a moving line load on a pre-stressed elastic plate. 91c:73039
- Elgar, S. *see* Pezeshki, C.; et al., 91d:58167
- Eliseev, S. V. (with Kuznetsov, N. K.; Luk'yanov, A. V.) ★ Управление колебаниями роботов. (Russian) [Control of robot oscillations] 91h:70023
- Elishakoff, Isaac. Some questions in eigenvalue problems in engineering. (see 91m:65005)
- Esfandiari, Ramin S. *see* Sadek, I. S., 91b:49037 and Udawadia, Firdaus E., 91c:70003
- Evseev, E. G. (with Semenov, A. Yu.) A method for the solution of equations of the dynamics of thin-walled shells, which is based on the separation of strongly oscillating components. 91c:73083
- Fazio, Riccardo. A nonlinear hyperbolic free boundary value problem. 91f:65203
- Fitzgibbon, William E. Limiting behavior of the strongly damped extensible beam equation. 91g:35050
- Folk, Robert T. *see* Herczynski, Andrzej, 91h:73034
- Gao, De Ping. *see* Zhang, Yi Song; et al., 91c:73085
- Gentry, Jeanette J. *see* Plant, Raymond H.; et al., 91d:70014 and 91d:70015
- Goh, C. J. (with Lee, T. H.) Adaptive modal parameters identification for collocated position feedback vibration control. (Not in MR)
- Grayhack, William T. (with Mahar, Thomas J.) Buckling of rib-stiffened plates: an asymptotic approach. 91d:73035
- Gristchak, V. Z. Bifurcations and postbuckling behavior of vibrating of the nonhomogeneous, nonlinear elastic system with multiple independent bifurcation parameters. 91c:73036
- Gudkov, V. V. *see* Andreev, V. P., 91h:73033
- Gulin, B. V. *see* Ridef, V. V., 91h:73029
- Haansgen, Kenneth B. Stabilization of the viscoelastic Timoshenko beam. 91h:93141
- Haras, Alain. Séries lacunaires et contrôle semi-interne des vibrations d'une plaque rectangulaire. (English summary) [Lacunary series and semi-internal control of the vibrations of a rectangular plate] 91c:93039
- Harichandran, Ronald S. *see* Zhang, Yan, 91c:73112
- Haug, Edward J. *see* Kim, Sung-Soo, 91c:70014 and 91c:70015
- Healey, Timothy J. (with Treacy, J. A.) Exact block diagonalization of large eigenvalue problems for structures with symmetry. 91h:73084
- Herczynski, Andrzej (with Folk, Robert T.) Orthogonality condition for the Pochhammer-Chree modes. 91h:73034
- Hodges, Dewey H. A mixed variational formulation based on exact intrinsic equations for dynamics of moving beams. 91c:73072
- Horgan, Cornelius O. (with Payne, Lawrence E.) Lower bounds for free membrane and related eigenvalues. (Italian summary) 91h:35237
- Horváth, Miklós *see* Bogner, A.; et al., 91b:42049
- Huang, Fa Lun (with Liu, Kang Sheng; Chen, Goong) Differentiability of the semigroup associated with a structural damping model. 91h:47038
- Huang, Yu Ying. Orthogonality of wet modes in coupled vibrations of cylindrical shells containing liquids. 91m:73058
- Hughes, P. C. (with Sincarsin, G. B.) Dynamics of an elastic multibody chain. B. Global dynamics. 91c:70026
- *see also* Sincarsin, G. B., 91c:70025
- Ichikawa, Akira. Stability of flexible systems. 91c:93057
- Inman, Daniel J. *see* Ross, A. D. S., 91c:70040
- Ivanova, S. Ya. *see* Banichuk, N. V.; et al., 91m:73055
- Jaffard, S. Contrôle interne exact des vibrations d'une plaque rectangulaire. (English summary) [Exact internal control of the vibrations of a rectangular plate] 91j:93051
- Jiang, Song. L^p - L^q estimates for solutions to the damped plate equation in exterior domains. 91k:35043
- Jód, István *see* Bogner, A.; et al., 91b:42049
- Jung, Tacksun. *see* Choi, Q-Hueng, 91h:35032
- Kaplanov, Yu. D. Equations of high-frequency long-wave vibrations of an elastic layer lying on an acoustic half-space. 91f:73012
- Khater, Ahmed *see* El-Attary, Mohamed, 91c:73039
- Kim, Sung-Soo (with Haug, Edward J.) A recursive formulation for flexible multibody dynamics. I. Open-loop systems. 91c:70014
- (with Haug, Edward J.) A recursive formulation for flexible multibody dynamics. II. Closed-loop systems. 91c:70015
- Kojima, Fumio *see* Banks, H. T., 91c:73060
- Koshur, V. D. (with Nemirovskii, Yu. V.) ★ Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91c:73098
- Krantz, M. Causal theories of evolution and wave propagation in mathematical physics. 91c:73016
- Krishna, R. C. *see* Pezeshki, C.; et al., 91d:58167
- Kritskaya, S. S. (with Rogach, D. I.) Solution of an initial-boundary value problem that is connected with the longitudinal shock of a viscoelastic rod. (Russian) (see 91a:41002)
- Krylov, S. V. *see* Andriyanov, V. L., 91c:73037 and Bychenkov, V. A., (91c:60007)
- Kuznetsov, N. K. *see* Eliseev, S. V.; et al., 91c:70023
- Lagnese, John E. ★ Boundary stabilization of thin plates. 91k:73001
- Lasiecka, Irene. Asymptotic behavior of the solutions of the Kirchhoff plate with nonlinear dissipation in the bending moment. 91f:35052
- Asymptotic behavior of solutions to plate equations with nonlinear dissipation occurring through shear forces and bending moments. 91d:35033
- (with Triggiani, Roberto) Exact controllability of the Euler-Bernoulli equation with boundary controls for displacement and moment. 91h:93016
- Lavrenyuk, S. P. Existence of the generalized solutions of the Cauchy problem for degenerate equations of the type of oscillation of a plate. (Russian) 91c:35062
- A problem without initial conditions for an equation of the type of oscillation of a plate. (Russian. English summary) 91f:35179
- The Cauchy problem for a degenerate equation of plate oscillation type. (Russian) 91f:35180
- Lee, T. H. *see* Goh, C. J., (Not in MR)
- Lekszycki, T. (with Mróz, Z.) Variational principles in analysis and synthesis of elastic systems with damping. 91k:70021
- Lesinger, Günter. On boundary feedback stabilizability of a viscoelastic beam. 91c:93090
- Lewis, Debra (with Simo, J. C.) Nonlinear stability of rotating pseudo-rigid bodies. 91d:58076
- Li, Guang Xuan (with Rand, Richard H.; Moon, Francis C.) Bifurcations and chaos in a forced zero-stiffness impact oscillator. 91c:70068
- Liman, W. *see* Plant, Raymond H., 91h:70023
- Lipskii, L. A. *see* Lizarer, A. D., (Not in MR)
- Liu, Kang Sheng *see* Huang, Fa Lun; et al., 91h:47038
- Lizarer, A. D. (with Lipskii, L. A.) The spline-collocation method for studying free oscillations of a heat-sensitive annular plate. (Russian. English summary) (Not in MR)
- Luk'yanov, A. V. *see* Eliseev, S. V.; et al., 91c:70023
- Mahar, Thomas J. *see* Grayhack, William T., 91d:73035
- Mahfouz, I. A. (with Badrakhan, F.) Chaotic behaviour of some piecewise-linear systems. I. Systems with set-up spring or with unsymmetric elasticity. 91c:70024
- Matrosov, V. M. The method of vector Lyapunov functions in nonlinear mechanics. (Russian. English summary) 91c:70018
- Matvichuk, K. S. Conditions for technical stability of a dynamic process characterizing the rotation of a solid body on a vertical elastic rod. 91d:73038
- Meshenish, A. (with De Silva, C. N.) Shock waves in curved beams. 91h:73020
- Mills-Curran, William C. Comment on: "Eigenvector derivatives with repeated eigenvalues" [AIAA J. 27 (1989), no. 4, 486-491; MR 90b:65064] by R. L. Dailey. 91m:65109
- Molchanov, I. N. (with Dem'yanchuk, A. P.; Tkachenko, V. I.) ★ Исследование и приближенное решение обратной задачи на собственные значения для обыкновенного дифференциального оператора четвертого порядка. (Russian) (approximate solution of an inverse eigenvalue problem for a fourth-order ordinary differential operator) 91k:34017
- Moodie, T. Bryant. Wave solutions for variable loading of cavities in inhomogeneous plates. 91j:73021
- Mook, Dean T. *see* Plant, Raymond H.; et al., 91d:70014 and 91d:70015
- Moon, Francis C. *see* Li, Guang Xuan; et al., 91c:70068
- Mróz, Z. *see* Dems, K., 91c:73037 and Lekszycki, T., 91k:70021
- Nagser, R. F. (with Sarafyan, G. S.) Frictional self-excited oscillations in a system of piecewise-linear friction characteristic. 91m:70033
- Narayanan, S. B. *see* Venkatraman, Krishnaswamy, 91c:93062
- Nemirovskii, Yu. V. *see* Koshur, V. D., 91c:73098
- Nemirovskii, Jih. Stability of a vibrating and rotating beam. (see 91m:65005)
- Newman, Daniel C. *see* Coleman, Bernard D., 91h:73021
- Nikitin, L. V. (with Tyurekhodzhev, A. N.) Wave propagation and vibration of elastic rods with interfacial frictional slip. 91j:73062
- Nozade, G. T. Stability of relative equilibrium of a solid body suspended by an elastic string. 91c:70011
- Pahod, Pierre *see* Del Pedro, Michel, (Not in MR)
- Palmushla, V. N. (with Petrusenko, Yu. Ya.) Application of the generalized Hamilton-Ostrogradskii-Reissner variational principle to the formulation of linearized problems in the mechanics of three-dimensional composite bodies. 91h:73070
- Park, Sungtae *see* Silverberg, Larry M., 91c:70017
- Payne, Lawrence E. *see* Horgan, Cornelius O., 91h:35237
- Pember, Richard B. *see* Trangenstein, John A., 91h:73027
- Perreira, Duval Carvalho. Existence, uniqueness and asymptotic behavior for solutions of the nonlinear beam equation. 91d:35144
- Petrushenko, Yu. Ya. *see* Palmushla, V. N., 91h:73070
- Pezeshki, C. (with Elgar, S.; Krishna, R. C.) Bispectral analysis of [systems] possessing chaotic motion. 91d:58167
- Plant, Raymond H. (with Gentry, Jeanette J.; Mook, Dean T.) Resonances in nonlinear structural vibrations involving two external periodic excitations. 91d:70014
- (with Gentry, Jeanette J.; Mook, Dean T.) Nonlinear structural vibrations under combined multi-frequency parametric and external excitations. 91d:70015
- (with Liman, W.) Oscillations of weakly nonlinear, self-excited systems under multi-frequency parametric excitation. 91k:70023
- Popov, A. L. *see* Borshch, S. P.; et al., (Not in MR)
- Ramos Ch., Oswaldo. Regularity property for the nonlinear beam operator. 91c:35064
- Rand, Richard H. *see* Li, Guang Xuan; et al., 91c:70068
- Ridef, V. V. (with Gulin, B. V.) ★ Динамика мягких оболочек. (Russian) [The dynamics of soft shells] 91f:73029
- Rimrott, F. P. J. ★ Introductory attitude dynamics. 91h:70045
- Rogach, D. I. *see* Kritskaya, S. S., (91a:41002)
- Roozen, H. Stochastic stability of the loaded stiff rod. 91c:73061
- Ross, A. D. S. (with Inman, Daniel J.) Settling time of underdamped linear lumped parameter systems. 91c:70040
- Sadek, I. S. (with Esfandiari, Ramin S.) Optimal active control of distributed-parameter systems with applications to a Rayleigh beam. 91b:49037
- Semenov, A. M. (with Sokurinskaya, E. V.) Energy exchange between nonlinear waves in elastic waveguides and external media. 91c:73032
- Sarafyan, G. S. *see* Nagser, R. F., 91m:70033
- Semenov, A. Yu. *see* Evseev, E. G., 91c:73083
- Senitskii, A. Yu. *see* Senitskii, Yu. E., 91f:34001
- Senitskii, Yu. E. Oscillations of a Timoshenko-type elastically fixed round plate that is positioned under a fluid layer. (Russian) 91h:73036
- (with Senitskii, A. Yu.) Solution of a differential equation with variable coefficients that has an application to the dynamic theory of elasticity. (Russian) 91f:34001
- Sharanyuk, A. V. *see* Banichuk, N. V.; et al., 91h:73055
- Shatalov, A. V. Asymptotic properties of solutions of a class of mechanical systems with an infinite number of degrees of freedom. (Russian) 91k:34001
- Shkred, A. V. A problem on the oscillations of an elastic transversally isotropic half-cylinder. 91d:47035

- Sidorenko, V. V. Motion around a fixed point of a rigid body with flexible rods that admits the symmetry group of a regular polyhedron. (Russian) 91m:70007
- Silverberg, Larry M. (with Park, Sungtae) Interactions between rigid-body and flexible-body motions in maneuvering spacecraft. 91e:70017
- Simo, J. C. (with Wong, K. K.) Unconditionally stable algorithms for rigid body dynamics that exactly preserve energy and momentum. 91j:70001
- see also Lewis, Debra, 91d:58076
- Sinclair, G. B. (with Hughes, P. C.) Dynamics of an elastic multibody chain. A. Body motion equations. 91e:70025
- see also Hughes, P. C., 91e:70026
- Slater, G. L. see Zhang, Qiang, 91m:93069
- Sokurinskaya, E. V. see Samsonov, A. M., 91c:73032
- Szemplińska-Stupnicka, Wanda ★ The behavior of nonlinear vibrating systems. Vol. I. 91i:34039a
- ★ The behavior of nonlinear vibrating systems. Vol. II. 91i:34039b
- Tkachenko, V. I. see Molchanov, I. N.; et al., 91k:34017
- Trangenstejn, John A. (with Pember, Richard B.) The Riemann problem for longitudinal motion in an elastic-plastic bar. 91h:73027
- Treacy, J. A. see Healey, Timothy J., 91k:73084
- Triggiani, Roberto see Lasiecka, Irena, 91k:93016
- Tyurekhodzhev, A. N. see Nikitin, L. V., 91j:73062
- Udwalis, Firdaus E. (with Esfandiari, Ramin S.) Nonclassically damped dynamic systems: an iterative approach. 91e:70003
- Vasil'ev, D. G. Two-term asymptotics of the spectrum of natural frequencies of a thin elastic shell. 91d:73028
- Venkatesulu, M. (with Bhaskar, T. Gnana) Selfadjoint boundary value problems associated with a pair of mixed linear ordinary differential equations. 91b:47110
- Venkatraman, Krishnaswamy (with Narayanan, S. B.) The optimal independent modal-space control of a flexible beam subjected to constant disturbance. 91e:93062
- Vul'fson, I. I. (with Dresig, H.) Methods for the analysis of the vibrations of mechanisms. (Russian. English summary) 91d:73029
- Wang, Lei² (with Cai, Song Bo) Navier's method for solving the problem of bending, buckling and vibration of quadrilateral plates with all edges simply supported. (Chinese. English summary) 91a:73039
- White, L. W. Identification of flexural rigidity in a dynamic plate model. 91g:73051
- Stability of optimal output least squares estimators in certain beams and plate models. 91g:73052
- Wong, K. K. see Simo, J. C., 91j:70001
- Wu, Xiao Ping see Zhang, Yi Song; et al., 91c:73085
- Yeo, Yun Cheng Pointwise stabilizability of coupled elastic beam systems. 91i:93092
- Zarutskii, V. A. see Amiro, I. Ya., 91h:73078
- Zhang, Qiang (with Slater, G. L.) Eigenstructure assignment with control gains optimization. 91m:93069
- Zhang, Weijian The spectral density of the nonlinear damping model: single DOF case. 91j:93118
- Zhang, Yan (with Harichandran, Ronald S.) Implicit subdomain integration for dynamic analysis of large-scale structural systems. 91e:73112
- Zhang, Yi Song (with Gao, De Ping, Wu, Xiao Ping) The dynamic stiffness matrix of the finite annular plate element. 91c:73085
- Zhizner, N. I. see Bolotin, V. V.; et al., 91c:73065
- Zhou, Zheng Wei Dynamic responses of orthotropic plates under random loads. (Chinese. English summary) 91d:73048
- ### 73K15 Shells
- Amiro, I. Ya. (with Zarutskii, V. A.) Statics, dynamics and stability of ribbed shells. (Russian. English summary) 91k:73078
- Axelrad, E. L. (with Emmerling, F. A.) On variational principles and consistency of elasticity relations of thin shells. 91a:73046
- Bagar, Y. (with Krätzig, W. B.) Introduction into finite-rotation shell theories and their operator formulation. 91b:73064
- Beckert, H. Zur Realisierung der Schalentheorie von E. Trefftz. (English and Russian summaries) [On the realization of E. Trefftz' shell theory] 91g:73048
- Bernas, I. M. (with Srubshchik, L. S.) Nonaxisymmetric loss of stability of shallow spherical shells. 91m:73051
- Bernadou, Michel Variational formulation and approximation of junctions between thin shells. (see 91b:90050)
- Bucco, D. (with Mazumdar, J.) Analysis of shallow shells by a combination of finite elements and contour methods. 91m:73052
- Cherevatskii, A. S. Plane deformation of a pattern with a grid material structure. (Russian) (Not in MR)
- Clarlet, Philippe G. (with Miara, Bernadette) Justification d'un modèle bidimensionnel de coque "peu profonde" en élasticité linéarisée. (English summary) [Justification of a two-dimensional shallow shell model in linearized elasticity] 91h:73037
- Destuynder, Philippe ★ Modélisation des coques minces élastiques. (French) [The modelling of elastic thin shells] 91d:73041
- Dickey, R. W. Minimum energy solution for the spherical shell. 91b:73065
- Emmerling, F. A. see Axelrad, E. L., 91a:73046
- Ersev, E. G. (with Semenov, A. Yu.) A method for the solution of equations of the dynamics of thin-walled shells, which is based on the separation of strongly oscillating components. 91e:73083
- Fan, Can Xu Refined differential equations of deflections in axial symmetrical bending problems of spherical shell and their singular perturbation solutions. (Not in MR)
- Figueredo, Isabel M. N. Local existence and regularity of the solution of the nonlinear thin shell model of Donnell-Muskhvili-Vlasov. 91d:73042
- Flyachok, V. M. Fundamental theorems of the generalized thermoelasticity of anisotropic shells. (Russian) 91g:73049
- Fox, D. D. see Simo, J. C.; et al., 91h:73045 and 91h:73039
- Galka, A. (with Telega, J. J.) The complementary energy principle for a model of shells with an independent rotation vector. 91j:73044
- Gao, Yang (with Zhang, You Qi) On the extremum complementary energy principles for nonlinear elastic shells. 91c:73055
- On the extremum potential energy principle for nonlinear elastic shells. 91e:73084
- Gulin, B. V. see Ridel', V. V., 91h:73029
- Kantor, B. Ya. ★ Контактные задачи нелинейной теории оболочек вращения. (Russian) [Contact problems in the nonlinear theory of shells of revolution] 91d:73043
- Karchevskii, M. M. see Voloshanovskaya, S. N., 91h:73030
- Kennedy, J. G. see Simo, J. C., 91e:73001
- Kireev, I. V. (with Nemirovskii, Yu. V.) Hamiltonian approach to the solution of linear problems of elastic shells of revolution. (Russian) (see 91h:73001)
- Krätzig, W. B. see Bagar, Y., 91b:73064
- Kudrik, P. I. Existence of additional potential loading of a shell. (Ukrainian. Russian summary) 91e:73085
- Labbe, Franz Karl Nonlocal qualitative and quantitative analysis of a Marguerre type shell problem. (see 91b:90048)
- Lewicki, T. (with Telega, J. J.) Asymptotic method of homogenization of two models of elastic shells. (Russian and Polish summaries) 91d:73044
- Li, Long Yuan The rationalism theory and its finite element analysis method of shell structures. (Not in MR)
- Li, Z. H. see Owen, D. R. J., 91h:73066
- Li, Zhi Ping Existence theorem and finite element method for static problems of a class of nonlinear hyperelastic shells. 91c:73056
- Litvinov, V. G. (with Rubzhanakii, Yu. I.) Convergence of solutions of problems in Timoshenko's theory of shells to the solution of problems in Kirchhoff-Love theory. (Russian) 91j:73045
- Lygovel, P. Z. Dynamics of shell constructions with impulse loads (a survey). (Not in MR)
- Mazumdar, J. see Bucco, D., 91m:73052
- Mesnangly, T. V. The energy integral and rigid displacements for nonshallow shells. (Russian. English and Georgian summaries) 91m:73053
- Miara, Bernadette see Clarlet, Philippe G., 91h:73037
- Mikhailovskii, E. I. (with Tarasov, V. N.) A problem with a free boundary for a shell that is reinforced by the edges of a one-sided action. (Russian) (see 91h:90010)
- Nemirovskii, Yu. V. see Kireev, I. V., 91h:73001
- Owen, D. R. J. (with Li, Z. H.) Refined finite element laminated models for the static and dynamic elasto-plastic analysis of anisotropic shells. 91h:73066
- Palencia, V. N. A version of the refined nonlinear iterative-type theory of thin elastic three-layered shells. 91h:73038
- Palazzo, A. N. see Shih, K.-G., 91a:73047
- Pellegrinelli, L. see Schumann, W., 91c:73057
- Pipkin, Allen C. The relaxed energy density for isotropic elastic membranes. 91h:73067
- Ridel', V. V. (with Gulin, B. V.) ★ Динамика мятых оболочек. (Russian) [The dynamics of soft shells] 91h:73029
- Rifai, M. S. see Simo, J. C.; et al., 91h:73068; 91d:73045 and 91h:73039
- Rubzhanakii, Yu. I. see Litvinov, V. G., 91j:73045
- Sánchez-Palencia, E. Asymptotic problems in the theory of thin elastic shells. (see 91j:90015)
- Schumann, W. (with Pellegrinelli, L.) On the role of some integral relations for a variational principle in shell theory. (German and Russian summaries) 91c:73057
- Semenov, A. Yu. see Ersev, E. G., 91e:73083
- Shih, K.-G. (with Palazzo, A. N.) Formulation of boundary integral equations for linear elastic shells. 91a:73047
- Simo, J. C. (with Kennedy, J. G.) Finite strain elastoplasticity in stress resultant geometrically exact shells. (see 91e:73001)
- (with Fox, D. D.; Rifai, M. S.) Formulation and computational aspects of a stress resultant geometrically exact shell model. 91h:73068
- (with Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. III. Computational aspects of the nonlinear theory. 91d:73045
- (with Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. IV. Variable thickness shells with through-the-thickness stretching. 91h:73039
- Srubshchik, L. S. see Bernas, I. M., 91m:73051
- Tarasov, V. N. see Mikhailovskii, E. I., 91h:90010
- Telega, J. J. see Lewicki, T., 91d:73044 and Galka, A., 91j:73044
- Valid, Roger Le principe non linéaire d'énergie complémentaire en théorie des coques. (English summary) [The nonlinear principle of complementary energy in shell theory] 91e:73086
- Voloshanovskaya, S. N. (with Karchevskii, M. M.) On the solvability of a problem on the geometrically nonlinear bending of a nonclosed spherical shell. (Russian) 91k:73030
- Vorovich, I. I. ★ Математические проблемы нелинейной теории пологих оболочек. (Russian) [Mathematical problems in the nonlinear theory of shallow shells] 91g:73050
- Wan, Frederic Y. M. Finite axial extension and torsion of elastic helicoidal shells. 91c:73058
- Xu, Zhong Yong (with Yang, Jian Hui) A new theory of shells, plates and beams based on variational principles. I. (Chinese. English summary) 91e:73087
- Yang, Jian Hui see Xu, Zhong Yong, 91e:73087
- Yin, Chuan Yan see Zhou, Huan Wen, 91a:73049
- Yeo, Yun Cheng Pointwise boundary stabilizability: two-dimensional hybrid elastic systems. 91a:73048
- Zarutskii, V. A. see Amiro, I. Ya., 91h:73078
- Zhang, You Qi see Gao, Yang, 91c:73055
- Zhou, Huan Wen (with Yin, Chuan Yan) An existence theorem for solutions to the equations for large deflections of flat spherical shells. (Chinese. English summary) 91a:73049
- Zabor, L. M. Energy contour integrals in the nonlinear theory of elastic plates and shells. 91h:73069
- ### Items with secondary classifications in 73K15
- Arabyan, M. O. On the directional derivative and the gradient of a functional. (Russian. Armenian summary) 91h:34023
- Badar, Janusz Quasi-abelian gauge theory of axisymmetric deformation of shells of revolution. 91e:73018

- Boginski, Frank E. Upper and lower bounds for eigenvalues of the Laplacian on a spherical cap. 91i:35137
- Errata: "Upper and lower bounds for eigenvalues of the Laplacian on a spherical cap" [Quart. Appl. Math. 48 (1990), no. 3, 569–573; MR 91i:35137]. (Not in MR)
- Bochkarev, V. V. (with Kirichenko, V. F.; Krysko, V. A.) Some iterative algorithms for solving equations of von Kármán type. (Russian) 91a:73035
- Bogdanov, S. Yu. see Lagović, P. Z.; et al., (91g:00031)
- Boja, N. (with Brăiloiu, G.) Sur les gradients des déplacements d'une surface rapportée aux lignes de courbure. (Romanian summary) [On the differential of the displacement vector of a surface parametrized by curvature lines] 91h:53003
- Borkowski, A. (with Jendo, S.) ★ Structural optimization. Vol. 2. 91j:73046
- Borshch, S. P. (with Popov, A. L.; Chernyshev, G. N.) A method for identifying singularities in a problem on the hydroelastic oscillations of a shell that are excited by concentrated forces. (Russian) (Not in MR)
- Brăiloiu, G. see Boja, N., 91h:53003
- Buchanan, J. L. (with Gilbert, Robert P.) A solution to the equations of shell theory. 91c:30079
- Chernyshev, G. N. see Borshch, S. P.; et al., (Not in MR)
- Chruszczak, A. Strong solutions of nonlinear equations of vibrations of shells. 91h:73025
- Cohen, Harley (with Thomas, R. S. D.) Decay of transient waves in inhomogeneous anisotropic elastic shells. 91h:73026
- (with Thomas, R. S. D.) Transient waves in inhomogeneous elastic shells of variable thickness. (Not in MR)
- (with Wang, Chao Chen) On a finite disk method for hyperelastic rods and shells. 91h:73053
- Darmaev, T. G. (with Lisetkin, V. D.) Application of special transformations for the numerical solution of a one-dimensional problem in the theory of elasticity and shells. (Russian) 91g:73066
- Davi, F. (with Podio-Guidugli, Paolo) Stress and strain in a continuum in terms of coordinate transformations. (Italian. English summary) 91h:73025
- Dudnik, R. A. (with Makeyeva, E. A.; Fiyaksel', E. A.) On the effect of an inhomogeneity on oscillations of a cylindrical shell. (Russian) (Not in MR)
- Fan, Ye Li see Zeng, Jia Xiong, 91d:73040
- Fiyaksel', E. A. see Dudnik, R. A.; et al., (Not in MR)
- Gayukov, G. N. On the tension of a soft shell under aerodynamic loading. (Not in MR)
- Geymonat, Giuseppe (with Rosati, Mario Valerio; Valente, V.) Numerical analysis for eversion in elastic spherical caps equilibrium. 91c:73048
- Gilbert, Robert P. (with Xu, Yong Zhi) A function theory for thin elastic shells. 91c:73087
- see also Buchanan, J. L., 91c:30079
- Grigolyuk, E. I. (with Kulikov, G. M.) An analytic method for solving nonlinear problems in the theory of multilayered anisotropic plates. 91h:73070
- Hetnarski, Ryszard B. see Keene, Frank W., (Not in MR)
- Huang, Hou-Cheng ★ Static and dynamic analyses of plates and shells. 91a:73069
- Jendo, S. see Borkowski, A., 91j:73046
- Ji, Zhen Yi (with Ye, Kai Yuan) Exact analytic method for solving variable coefficient differential equation. 91a:34002
- Kang, Sheng Liang The singular perturbation method applied to the nonlinear stability problem of a shallow spherical shell. II. 91h:73065
- Kantor, B. Ya. see Zozulya, V. V., 91a:73065
- Keene, Frank W. (with Hetnarski, Ryszard B.) Bibliography on thermal stresses in shells. (Not in MR)
- Kirichenko, V. F. see Bochkarev, V. V.; et al., 91a:73035
- Kirilov, Yu. V. (with Postnikov, A. A.; Tyulenev, A. I.) Studies in the theory of plates and shells of the moment theory of elasticity (a survey). (Russian) (Not in MR)
- Kiria, E. Ya. The Fourier method in a problem of the vibrations of a cylindrical shell. (Russian) (see 91k:00010)
- Koshur, V. D. (with Nemirovskii, Yu. V.) ★ Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91h:73098
- (Kritzig, W. B.) see Computational mechanics of nonlinear response of shells, 91a:73001
- Krysko, V. A. see Bochkarev, V. V.; et al., 91a:73035
- Kulikov, G. M. see Grigolyuk, E. I., 91h:73070
- Larchenko, V. V. Bifurcation methods for analyzing the perturbation of a spectrum of critical pressures of shells of revolution and some of their applications. 91g:73037
- Lisetkin, V. D. see Darmaev, T. G., 91g:73066
- Lagović, P. Z. (with Melish, V. F.; Bogdanov, S. Yu.) Construction of difference schemes for equations of the motion of reinforced cylindrical shells with discontinuous coefficients. (Russian) (see 91g:00031)
- L'vov, G. I. (with Odintsova, E. V.) A contact problem for creep of a shallow shell that is reinforced by a strap. (Russian) 91g:73059
- Makeyeva, E. A. see Dudnik, R. A.; et al., (Not in MR)
- Makowski, J. (with Stumpf, Helmut) Buckling equations for elastic shells with rotational degrees of freedom undergoing finite strain deformation. 91h:73054
- Maslovskaya, L. V. Convergence of the semi-mixed finite element method for fundamental boundary value problems in the theory of shallow shells in weighted Sobolev spaces. (Russian) (see 91h:73001)
- Sharp estimates for the convergence of a semimixed finite element method for basic boundary value problems in the theory of shallow shells in polygonal domains. (Russian) 91h:73109
- Matzenmiller, Anton ★ Ein rationales Lösungskonzept für geometrisch und physikalisch nichtlineare Strukturberechnungen. (German) [A rational solution concept for geometrically and physically nonlinear analysis of structures] 91f:73030
- Melish, V. F. see Lagović, P. Z.; et al., (91g:00031)
- Nemirovskii, Yu. V. see Koshur, V. D., 91h:73098
- Odintsova, E. V. see L'vov, G. I., 91g:73059
- (Olate, E.) see Computational mechanics of nonlinear response of shells, 91a:73001
- Palmushin, V. N. (with Sidorov, I. N.) Two-dimensional equations for modeling the engineering process of a "dry" force winding in producing composite shells. (Russian) (Not in MR)
- Palma Molina, Francisco José Optimal design of the linear model of thin shells of W. T. Koiter. (Spanish) (see 91j:00015)
- Paumier, Jean-Claude (with Rao, B.) Qualitative and quantitative analysis of buckling of shallow shells. 91a:73029
- Pawlak, T. P. see Yunus, S. M.; et al., 91a:73072
- Plaut, Raymond H. see Wauer, J., (Not in MR)
- Podio-Guidugli, Paolo see Davi, F., 91h:73025
- Pogorelec, A. V. Loss of stability of conical shells under external pressure. 91h:73066
- Loss of stability of conical shells under twisting. 91h:73033
- Popov, A. L. see Borshch, S. P.; et al., (Not in MR)
- Postnikov, A. A. see Kirilov, Yu. V.; et al., (Not in MR)
- Radvinskii, A. L. General theorems of the electromechanics of thin elastic shells. 91d:73057
- Rao, B. see Paumier, Jean-Claude, 91a:73029
- (Reitman, M. I.) see Borkowski, A., 91j:73046
- Rogacheva, N. N. A refined zero-moment theory of electroelastic shells. (Russian) (Not in MR)
- Rosati, Mario Valerio see Geymonat, Giuseppe; et al., 91c:73048
- (Save, M.) see Borkowski, A., 91j:73046
- Savits, Ya. G. Boundary value and variational problems for a combined mathematical model in elasticity theory. (Russian) 91k:73027
- Schiffino, A. (with Valente, V.) Numerical solution of a turning point problem in elasticity. 91d:73037
- Senitskii, Yu. E. On the construction of a general solution of a nonaxisymmetric dynamic problem for a shallow spherical shell with finite shear rigidity. 91a:73045
- Sidorov, I. N. see Palmushin, V. N., (Not in MR)
- Steigmann, D. J. Tension-field theory. 91c:73060
- Stumpf, Helmut see Makowski, J., 91h:73054
- Tarnai, T. Buckling patterns of shells and spherical honeycomb structures. 91c:73049
- Thomas, R. S. D. see Cohen, Harley, 91h:73026 and (Not in MR)
- Trounev, P. Sur la convergence des méthodes d'éléments finis nonconformes pour des problèmes linéaires de coques minces. (English summary) [On the convergence of nonconformal finite-element methods for linear thin-shell problems] 91g:65251
- Truc, Françoise Problèmes variationnels non convexes en dualité (équation des coques; systèmes gyroscopiques). [Nonconvex variational problems in duality (the shell equation; gyroscopic systems)] 91d:49041
- Tyulenev, A. I. see Kirilov, Yu. V.; et al., (Not in MR)
- Valente, V. see Geymonat, Giuseppe; et al., 91c:73048 and Schiffino, A., 91d:73037
- Valid, Roger Élastodynamique non linéaire des coques minces en énergie complémentaire. (English summary) [Nonlinear elastodynamics of thin shells in complementary energy] 91f:73027
- Vasil'ev, D. G. Two-term asymptotics of the spectrum of natural frequencies of a thin elastic shell. 91d:73028
- Vukobrat, M. Dj. Conservation laws in thermoelastic membrane theory. (German and Serbo-Croatian summaries) 91c:73013
- Wang, Chao Chen see Cohen, Harley, 91h:73053
- Wauer, J. (with Plaut, Raymond H.) Vibrations of an extensible, air-inflated, cylindrical membrane. (Not in MR)
- Weichert, D. Shakedown of shell-like structures allowing for certain geometrical nonlinearities. (Russian and Polish summaries) 91c:73049
- Wheeler, M. J. see Yunus, S. M.; et al., 91a:73072
- Xie, Zhi Cheng see Yin, Ya Jun, 91h:73086
- Xu, Yong Zhi see Gilbert, Robert P., 91c:73087
- Yakushev, N. Z. Dynamics of deformable systems under the action of moving loads. III. Dynamics of plates and shells under the action of moving loads. (Russian) (Not in MR)
- Ye, Kai Yuan see Ji, Zhen Yi, 91a:34002
- Yin, Ya Jun (with Xie, Zhi Cheng) Finite elements for plates and shells based on a piecewise generalized variational principle. (Chinese. English summary) 91h:73086
- Yuan, Tian Quan Asymmetric dynamic instability of axisymmetric polar dimpling of thin shallow spherical shells. 91c:73051
- Yunus, S. M. (with Pawlak, T. P.; Wheeler, M. J.) Application of the Zienkiewicz-Zhu error estimator for plate and shell analysis. 91a:73072
- Zeng, Jia Xiong (with Fan, Ye Li) A new higher-order theory to laminated plates and shells. 91d:73040
- Zozulya, V. V. (with Kantor, B. Ya.) Axisymmetric contact problems in the theory of shells. 91a:73065
- Items listed otherwise than by author
- Atlanta, GA ★ Computational mechanics of nonlinear response of shells. 91a:73001
- Computational mechanics of nonlinear response of shells ★ Computational mechanics of nonlinear response of shells. 91a:73001
- Conference: Computational Mechanics of Nonlinear Response of Shells ★ Computational mechanics of nonlinear response of shells. 91a:73001

73K20 Composite structures and materials

- Annin, B. D. (with Kolpakov, A. G.) Design of laminated and fibrous composites with prescribed characteristics. 91m:73054
- Avellaneda, Marco (with Milton, Graeme W.) Optimal bounds on the effective bulk modulus of polycrystals. 91c:73068
- Baniotopoulos, C. C. Free boundary value problems arising in composite masonry structures. 91h:73031
- Buryachenko, V. A. see Parton, V. Z., 91h:73079
- Guz', A. N. (with Guz', I. A.) Local instability of laminated composite materials. 91h:73040
- Guz', I. A. see Guz', A. N., 91h:73040
- Kalamkarov, A. L. A thermoelastic problem for constructive-inhomogeneous shells of regular structure. 91h:73041
- Kanann, S. K. (with Kudryavtseva, L. T.) Elastic and thermoelastic characteristics of composites that are reinforced by unidirectional layered fibers. 91a:73050

- Kolpakov, A. G. *see* Annin, B. D., 91m:73054
- Kudryavtsev, L. T. *see* Kanaun, S. K., 91a:73050
- Leissa, A. W. (with Martin, Antonio Fermin) Some exact plane elasticity solutions for nonhomogeneous, orthotropic sheets. 91c:73089
- Martin, Antonio Fermin *see* Leissa, A. W., 91c:73089
- Milton, Graeme W. *see* Avellaneda, Marco, 91c:73088
- Palmushin, V. N. (with Sidorov, I. N.) Two-dimensional equations for modeling the engineering process of a "dry" force winding in producing composite shells. (Russian) (Not in MR)
- (with Petruschenko, Yu. Ya.) Application of the generalized Hamilton-Ostrogradskii-Reissner variational principle to the formulation of linearized problems in the mechanics of three-dimensional composite bodies. 91h:73070
- Parton, V. Z. (with Buryachenko, V. A.) Stress fluctuations in elastic composites. 91k:73079
- Petrushenko, Yu. Ya. *see* Palmushin, V. N., 91h:73070
- Seibert, D. Histogramme, Orientierungsdichtfunktionen und ihre Darstellung durch eine tensorielle Form der Fourierreihe. (English and Russian summaries) [Histograms, orientation density functions and their representation by a tensorial form of the Fourier series] (Not in MR)
- Sidorov, I. N. *see* Palmushin, V. N., (Not in MR)
- Willis, J. R. The overall behaviour of a nonlinear matrix reinforced by rigid inclusions or weakened by cavities. 91c:73059
- Wodniak, Cz. Mathematical modelling of delamination effects in layered composites. (Russian and Polish summaries) 91d:73046
- Items with secondary classifications in 73K20
- Andrianov, I. V. (with Shevchenko, V. V.) Free bend oscillations of a plate that is perforated by square holes. (Russian) (see 91b:00029)
- Avellaneda, Marco Iterated homogenization and the effective properties of polycrystals. 91g:82056
- Barahmer, O. O. Limit surface loads in plasticity theory. 91m:73036
- Brillard, Alain (with Lobo-Hidalgo, Miguel; Pérez, Eugenia) Un problème d'homogénéisation de frontière en élasticité linéaire pour un corps cylindrique. (English summary) [A boundary homogenization problem in linear elasticity for a cylindrical body] 91g:73011
- Bruch, J. C., Jr. *see* Sadigh-Esfandari, R.; et al., 91c:73090
- Buryachenko, V. A. (with Lipanov, A. M.) Effective characteristics of elastic physically nonlinear composites. (Not in MR)
- Canisius, T. D. G. Comment on: "Postbuckling behavior of laminated plates using a direct energy-minimization technique" [AIAA J. 27 (1989), no. 12, 1785–1792] by P. J. Minguet, J. Dugundji and P. Lagace. (Not in MR)
- Chadwick, P. *see* Ting, Thomas C. T., (91k:73002)
- Cheban, V. G. *see* Lenyuk, M. P.; et al., 91k:73016
- Chekhov, V. N. *see* Guz', A. N.; et al., 91j:73037
- Chigarev, A. V. An averaging method in dynamic problems in the theory of elasticity of structurally heterogeneous media. 91h:73004
- Christensen, R. M. *see* Nikkel, D. J., Jr., 91f:73033
- Clorancescu, Dolna (with Oleinik, O. A.; Tronel, Gérard) On Korn's inequalities for frame type structures and junctions. (French summary) 91f:35054
- Deng, Wen Long *see* Sun, Bing Nan, 91k:73104
- (Dugundji, John) *see* Canisius, T. D. G., (Not in MR)
- Dvorak, George J. On uniform fields in heterogeneous media. 91g:73001
- Fan, Ye Li *see* Zeng, Jia Xiong, 91d:73040
- Francfort, Gilles A. (with Tartar, Luc) Comportement effectif d'un mélange de matériaux élastiques isotropes ayant le même module de cisaillement. (English summary) [Effective behavior of a mixture of isotropic materials with identical shear moduli] 91m:73005
- German, V. I. (with Koblelev, V. V.) Rational reinforcement in the problem of the plane stressed state of an ideal fibrous composite. 91h:73033
- Gober, A. T. *see* Pak, R. Y. S., 91g:73015
- Govindjee, Sanjay (with Simo, J. C.) A micro-mechanically based continuum damage model for carbon black-filled rubbers incorporating Mullins' effect. (Not in MR)
- Grigolyuk, E. I. (with Kulikov, G. M.) An analytic method for solving nonlinear problems in the theory of multilayered anisotropic plates. 91k:73070
- Gründemann, Heinz Boundary element homogenization of composite materials. 91k:73103
- Guedes, José Miranda (with Kikuchi, Noboru) Preprocessing and postprocessing for materials based on the homogenization method with adaptive finite element methods. 91h:73054
- Guo, Tian Fu *see* Sui, Yun Kang, (Not in MR)
- Guz', A. N. (with Guz', I. A.) Continual approximation in the theory of stability of layered composite materials. 91c:73052
- (with Korzh, V. P.; Chekhov, V. N.) Stability of a layered half-plane under the action of surface distributed loads. 91j:73037
- Guz', I. A. *see* Guz', A. N., 91c:73052
- Huet, C. Application of variational concepts to size effects in elastic heterogeneous bodies. 91j:73002
- James, Richard Dana (with Lipton, Robert; Lutoborski, Adam) Laminar elastic composites with crystallographic symmetry. 91c:73005
- Kalamkarov, A. L. (with Kudryavtsev, B. A.; Parton, V. Z.) The boundary layer method in fracture mechanics of composites with periodic structure. 91h:73046
- *see also* Parton, V. Z.; et al., 91m:73022
- Karalimas, Romas J. Averaging equations of thermopiezoelectric composites. (Russian. English and Lithuanian summaries) 91j:73054
- Kikuchi, Noboru *see* Guedes, José Miranda, 91h:73054
- Koblelev, V. V. A fracture model of a fibrous composite. 91h:73047
- *see also* German, V. I., 91h:73033
- (Kohn, Robert V.) *see* Random media and composites, 91b:00052
- Koltzakis, M. (with Panagiotopoulos, P. D.) Nonmonotone skin effects in laminated plates in stretching. (see 91g:00043)
- Korzh, V. P. *see* Guz', A. N.; et al., 91j:73037
- Koshur, V. D. (with Nemirovskii, Yu. V.) * Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91c:73098
- Kudryavtsev, B. A. *see* Kalamkarov, A. L.; et al., 91h:73046 and Parton, V. Z.; et al., 91m:73022
- Kulikov, G. M. *see* Grigolyuk, E. I., 91k:73070
- (Lagace, Paul) *see* Canisius, T. D. G., (Not in MR)
- Lenyuk, M. P. (with Cheban, V. G.; Yakobets, D. S.) A coupled quasistatic problem of thermoelasticity for a two-component semibounded plate. (Russian) 91k:73016
- Levitas, V. I. The structure of constitutive equations for phase transitions in two-phase thermoelectroplastic composites. (Russian. English summary) 91k:73017
- Li, Z. H. *see* Owen, D. R. J., 91b:73066
- Lipanov, A. M. *see* Buryachenko, V. A., (Not in MR)
- Lipton, Robert On the effective elasticity of a two-dimensional homogenised incompressible elastic composite. 91g:73002
- *see also* James, Richard Dana; et al., 91c:73005
- Lobo-Hidalgo, Miguel *see* Brillard, Alain; et al., 91g:73011
- Luo, Zu Dao *see* Pan, Jing Zhe, (Not in MR)
- Lutoborski, Adam *see* James, Richard Dana; et al., 91c:73005
- McCarthy, Matthew F. Nonlinear wave propagation in composites. 91c:73029
- Milton, Graeme W. On characterizing the set of possible effective tensors of composites: the variational method and the translation method. 91c:73006
- *see also* Random media and composites, 91b:00052
- (Minguet, Pierre J.) *see* Canisius, T. D. G., (Not in MR)
- Movchan, A. B. *see* Zorin, I. S.; et al., 91k:73037
- Nazarov, S. A. *see* Zorin, I. S.; et al., 91k:73037
- Nemirovskii, Yu. V. *see* Koshur, V. D., 91c:73098
- Nemish, Yu. N. * Элементы механики кусочно-однородных тел с неканоническими поверхностями раздела. (Russian) [Elements in the mechanics of piecewise homogeneous bodies with noncanonical interfaces] 91c:73026
- Nikkel, D. J., Jr. (with Christensen, R. M.) A micro-mechanical model for aligned fiber elastic-plastic composites. 91f:73033
- Oleinik, O. A. *see* Clorancescu, Dolna; et al., 91f:35054
- Ostja-Starzewski, M. (with Wang, C.) Linear elasticity of planar Delaunay networks. II. Voigt and Reuss bounds, and modification for centroids. 91h:73050
- Owen, D. R. J. (with Li, Z. H.) Refined finite element laminated models for the static and dynamic elasto-plastic analysis of anisotropic shells. 91h:73066
- Pak, R. Y. S. (with Gobert, A. T.) On the axisymmetric interaction of a rigid disc with a semi-infinite solid. (French summary) 91g:73015
- Pan, Jing Zhe (with Luo, Zu Dao) A fuzzy model for the failure of composite structures. (Not in MR)
- Panagiotopoulos, P. D. Semicoverge hemivariational inequalities. On the delamination of composite plates. 91a:73078
- *see also* Koltzakis, M., (91g:00043) and Stavroulakis, G. E., (91g:00043)
- Parton, V. Z. (with Kudryavtsev, B. A.; Kalamkarov, A. L.) Generalization of the integral Fourier transform in boundary value problems of the mechanics of composites. 91m:73022
- *see also* Kalamkarov, A. L.; et al., 91h:73046
- Papa, Gelu About an averaging method. 91k:73010
- Pérez, Eugenia *see* Brillard, Alain; et al., 91g:73011
- Pertsov, M. V. Properties of effective modules of composite plates. 91m:73048
- Sadigh-Esfandari, R. (with Sloss, J. M.; Bruch, J. C., Jr.) Passive optimal control of an antisymmetric angle-ply laminate. 91c:73090
- Sánchez-Palencia, E. On the edge singularities in composite media. Influence of anisotropy. 91k:35009
- Shevchenko, V. V. *see* Andrianov, I. V., (91b:00029)
- Simo, J. C. *see* Govindjee, Sanjay, (Not in MR)
- Simone, I. V. Asymptotic analysis of three-dimensional dynamical equations of thin two-layer elastic plates. 91c:73079
- Sloss, J. M. *see* Sadigh-Esfandari, R.; et al., 91c:73090
- Stavroulakis, G. E. (with Panagiotopoulos, P. D.) Free boundary problem in the bending theory of laminated plates subject to subdifferential boundary conditions. (see 91g:00043)
- Sui, Yun Kang (with Guo, Tian Fu) The analytical solutions based on the concept of finite element methods. (Not in MR)
- Sun, Bing Nan (with Deng, Wen Long) A three-dimensional transversely isotropic boundary element method for analyzing unidirectional composite materials. (Chinese. English summary) 91k:73104
- Tarala, S. Averaging error estimates for composites with periodic structure. I. (Russian. English and Lithuanian summaries) 91c:35014
- Averaging error estimates for composites with periodic structure. II. (Russian. English and Lithuanian summaries) 91h:35040
- Averaging error estimates for composites with periodic structure. III. (Russian. English and Lithuanian summaries) 91m:35040
- Tartar, Luc *H*-measures and small amplitude homogenization. (see 91b:00052)
- *see also* Francfort, Gilles A., 91m:73005
- Ting, Thomas C. T. (with Chadwick, P.) Harmonic waves in a periodically bilaminated anisotropic elastic composite. (see 91k:73002)
- Tronel, Gérard *see* Clorancescu, Dolna; et al., 91f:35054
- Wang, C. *see* Ostja-Starzewski, M., 91h:73050
- Yakobets, D. S. *see* Lenyuk, M. P.; et al., 91k:73016
- Zeng, Jia Xiong (with Fan, Ye Li) A new higher-order theory to laminated plates and shells. 91d:73040
- Zhou, Shu Ang Material multipole mechanics of elastic dielectric composites. 91c:73106
- Zorin, I. S. (with Movchan, A. B.; Nazarov, S. A.) Application of tensors of elastic capacity, polarization and associated deformation. (Russian) 91k:73037
- Items listed otherwise than by author
- Leesburg, VA * Random media and composites. 91b:00052
- Random media and composites * Random media and composites. 91b:00052
- Workshop: Random Media and Composites * Random media and composites. 91b:00052

73K25 Finite element methods (1985)

- Papadopoulos, Panayiotis (with Taylor, Robert Leroy) Elasto-plastic analysis of Reissner-Mindlin plates. (Not in MR)
 Taylor, Robert Leroy see Papadopoulos, Panayiotis, (Not in MR)
 Zhang, Fei Two unconventional plate element methods. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 73K25

- Brezzi, Franco see Hughes, Thomas J. R.; et al., (91b:00050)
 Harari, Isaac see Hughes, Thomas J. R.; et al., (91b:00050)
 Hughes, Thomas J. R. (with Brezzi, Franco; Masud, Arif; Harari, Isaac) Finite elements with drilling degrees of freedom: theory and numerical evaluations. (see 91b:00050)
 Ji, Zhen Yi see Ye, Kai Yuan, (Not in MR)
 Masud, Arif see Hughes, Thomas J. R.; et al., (91b:00050)
 Ye, Kai Yuan (with Ji, Zhen Yi) An exact element method for plane problem. (Not in MR)

73K30 Other numerical methods (1985)

- Lipskii, L. A. see Lizarov, A. D., (Not in MR)
 Lizarov, A. D. (with Lipskii, L. A.) The spline-collocation method for studying free oscillations of a heat-sensitive annular plate. (Russian. English summary) (Not in MR)

Items with secondary classifications in 73K30

- Pollizotto, C. Variational principles for boundary element formulations in structural mechanics. (see 91b:00041)

73K35 Random vibrations

- Banks, H. T. (with Kojima, Fumio) Filtering problem for the stochastic vibration of flexible beams with tip bodies. 91c:73060
 Guo, Yue Hua see Padovan, Joe, 91d:73047
 Kojima, Fumio see Banks, H. T., 91c:73060
 Padovan, Joe (with Guo, Yue Hua) Analysis of structural response to large scale nondeterministic variations. 91d:73047
 Potapov, V. D. Stability of rods under stochastic excitation. 91a:73051
 Roesen, H. Stochastic stability of the loaded stiff rod. 91c:73061
 Zhou, Zheng Wei Dynamic responses of orthotropic plates under random loads. (Chinese. English summary) 91d:73048

Items with secondary classifications in 73K35

- Ariaratnam, S. T. (with Xie, Wei Chau) Lyapunov exponent and rotation number of a two-dimensional nilpotent stochastic system. 91h:60086
 Chaikovskii, M. V. (with Yanovich, L. A.) Numerical determination of the covariance of the solution of randomly perturbed equations in aero-elasticity. (Russian. English summary) 91m:65322
 David, J. M. see Solze, C.; et al., 91a:73053
 Deodatis, George see Shimozuka, Masanobu, 91m:73070
 Desanti, Annick see Solze, C.; et al., 91a:73053
 Dimantberg, M. F. * Случайные процессы в динамических системах с переменными параметрами. (Russian) [Random processes in dynamical systems with variable parameters] 91g:70022
 Di Paola, Mario (with Petrucci, Giovanni) Spectral moments and pre-envelope covariances of nonseparable processes. 91a:70034
 Ghanem, Roger G. (with Spanos, Pol-T. D.) * Stochastic finite elements: a spectral approach. 91k:73102
 Huang, Yu Ying A mixed FE-BE method for coupled vibrations of floating plates of complicated shape. (Not in MR)
 Jing, H. S. (with Shu, K.-C.) Exact stationary solutions of the random response of a single-degree-of-freedom vibro-impact system. 91c:70072
 (Mikhailewicz, Ryszard) see Ptaszek, K., 91b:70002
 Niziol, J. see Ptaszek, K., 91b:70002
 Petrucci, Giovanni see Di Paola, Mario, 91a:70034
 Ptaszek, K. (with Niziol, J.) * Random vibration of mechanical systems. 91b:70002
 Roberts, J. B. (with Spanos, Pol-T. D.) * Random vibration and statistical linearization. 91k:70023
 Shu, K.-C. see Jing, H. S., 91c:70072
 Shimozuka, Masanobu (with Deodatis, George) Simulation of stochastic processes by spectral representation. 91m:73070
 Socha, Lesław Equivalent linearization for dynamical systems excited by coloured noise. 91f:34079
 Solze, C. (with David, J. M.; Desanti, Annick) Dynamic and acoustic response of coupled structure/dense fluid axisymmetric systems excited by a random wall pressure field. 91a:73053
 Spanos, Pol-T. D. see Roberts, J. B., 91k:70023 and Ghanem, Roger G., 91k:73102
 (Watson, Margaret Helen) see Ptaszek, K., 91b:70002
 Xie, Wei Chau see Ariaratnam, S. T., 91h:60086
 Yanovich, L. A. see Chaikovskii, M. V., 91m:65322

73K40 Optimization [see also 90C90]

- Ananthanarayana, N. see Hino, Junichi; et al., (Not in MR)
 Arora, J. S. see Tsay, J. J., 91h:73043 and 91h:73044
 Banichuk, N. V. (with Ivanova, S. Yu.; Sharanyuk, A. V.) * Динамика конструкций. Анализ и оптимизация. (Russian) [Dynamics of structures. Analysis and optimization] 91m:73055
 — (with Bratus', A. S.) Optimization of the stability of elastic nonconservative systems. (Russian) 91k:73000
 Borkowski, A. (with Jendo, S.) * Structural optimization. Vol. 2. 91j:73046
 Bratus', A. S. see Banichuk, N. V., 91k:73000
 Cardoso, J. E. B. see Tsay, J. J.; et al., 91h:73044

- Dems, K. (with Mróz, Z.) Shape sensitivity analysis and optimal design of physically nonlinear plates. (Russian and Polish summaries) 91h:73032
 German, V. I. (with Kobelev, V. V.) Rational reinforcement in the problem of the plane stressed state of an ideal fibrous composite. 91h:73033
 Goh, C. J. see Rozvany, G. I. N.; et al., 91h:73042
 Haber, Robert B. see Tortorelli, Daniel A.; et al., 91h:73071
 Haslinger, Jaroslav (with Neittaanmäki, Pekka) Optimal shape design in contact problems of elasticity. 91m:73056
 Hino, Junichi (with Yoshimura, Toshio; Ananthanarayana, N.) Optimum dynamic design for beam shapes subjected to a moving concentrated load. (Not in MR)
 Ivanova, S. Yu. see Banichuk, N. V.; et al., 91m:73055
 Jendo, S. see Borkowski, A., 91j:73046
 Kandoja, I. N. A method for solving a shape optimization problem in elasticity theory. 91h:73034
 Kobelev, V. V. Isoperimetric inequalities in the anisotropic rod torsion problem. 91j:73047
 — see also German, V. I., 91h:73033
 Lawo, M. see Rozvany, G. I. N.; et al., 91h:73042
 Lu, Stephen C.-Y. see Tortorelli, Daniel A.; et al., 91h:73071
 Marti, Kurt Stochastic optimization methods in structural mechanics. 91f:73028
 Mróz, Z. see Dems, K., 91h:73032
 Myśliński, A. Minimax shape optimization problem for von Kármán system. 91j:73048
 Neittaanmäki, Pekka On the methods for optimal shape design. (see 91c:00031)
 — see also Haslinger, Jaroslav, 91m:73056
 Palma Molins, Francisco José Optimal design of the linear model of thin shells of W. T. Koiter. (Spanish) (see 91j:00015)
 Petukhov, L. V. (with Sokov, K. E.) Nonhomogeneous elastic structures that are optimal with respect to stiffness. 91j:73049
 Pittera, Vladislav Shape optimization of an elastoplastic body for the model with strain-hardening. (Russian and Czech summaries) 91j:73050
 (Reitman, M. I.) see Borkowski, A., 91j:73046
 Rozvany, G. I. N. (with Lawo, M.; Goh, C. J.; et al.) On the Masur paradox. 91h:73042
 (Savi, M.) see Borkowski, A., 91j:73046
 Sharanyuk, A. V. see Banichuk, N. V.; et al., 91m:73055
 Sokov, K. E. see Petukhov, L. V., 91j:73049
 Tortorelli, Daniel A. (with Lu, Stephen C.-Y.; Haber, Robert B.) Design sensitivity analysis for elastodynamic systems. 91h:73071
 Tsay, J. J. (with Arora, J. S.) Nonlinear structural design sensitivity analysis for path dependent problems. I. General theory. 91h:73043
 — (with Cardoso, J. E. B.; Arora, J. S.) Nonlinear structural design sensitivity analysis for path dependent problems. II. Analytical examples. 91h:73044
 Villaggio, Piero A mathematical theory of the guillotine. 91c:73062
 White, L. W. Identification of flexural rigidity in a dynamic plate model. 91g:73051
 — Stability of optimal output least squares estimators in certain beams and plate models. 91g:73052
 Yoshimura, Toshio see Hino, Junichi; et al., (Not in MR)
- Items with secondary classifications in 73K40
- Annis, B. D. (with Kolpakov, A. G.) Design of laminated and fibrous composites with prescribed characteristics. 91m:73054
 Bratus', A. S. Condition of extremum for eigenvalues of elliptic boundary value problems. 91c:35174
 Bunimovich, A. I. (with Yakunina, G. E.) On the form of a body of revolution of minimal resistance under unbroken penetration into plastically compressible media. 91h:73042
 Chenaïs, Denise see Rousselet, Bernard, 91k:47041
 Dems, K. (with Mróz, Z.) Sensitivity of buckling load and vibration frequency with respect to shape of stiffened and unstiffened plates. 91a:73037
 Feijóo, R. A. (with Zouain, N.) A contribution to structural plasticity by optimization techniques. I. Potential functionals for rates and increments of stress and strain. (see 91f:73001)
 — see also Zouain, N.; et al., (91f:73001)
 Grayhack, William T. (with Mahar, Thomas J.) Buckling of rib-stiffened plates: an asymptotic approach. 91d:73035
 Hecke, M. see Zouain, N.; et al., (91f:73001)
 Huettig, Stephen P. Some comments on the optimization problem for shear stress magnitude. 91k:73028
 Kolpakov, A. G. see Annis, B. D., 91m:73054
 Korotki, A. I. An optimization problem of the bending of a membrane by concentrated stresses. (Russian) 91h:49025
 Leksyski, T. (with Mróz, Z.) Variational principles in analysis and synthesis of elastic systems with damping. 91k:70021
 Lods, Véronique Une formulation mixte pour un assemblage de poutres adaptée à la résolution d'un problème d'optimisation. (English summary) [A mixed formulation for a model of junctions of beams adapted to the solution of an optimization problem] 91j:49033
 Mahar, Thomas J. see Grayhack, William T., 91d:73035
 Mróz, Z. see Dems, K., 91a:73037 and Leksyski, T., 91k:70021
 Neittaanmäki, Pekka On the optimal shape design problems. 91j:49061
 Nyashin, Yu. I. (with Trusov, P. V.) Residual stresses: calculation and control. (Russian. English summary) 91g:73018
 Rousselet, Bernard (with Chenaïs, Denise) Continuité et différentiabilité d'éléments propres: application à l'optimisation de structures. (English summary) [Continuity and differentiability of eigenelements: application to the optimization of structures] 91k:47041
 Trusov, P. V. see Nyashin, Yu. I., 91g:73018
 White, L. W. Estimation of elastic parameters in a nonlinear elliptic model of a plate. 91m:73049
 Yakunina, G. E. see Bunimovich, A. I., 91h:73042
 Zouain, N. (with Feijóo, R. A.; Hecke, M.) A contribution to structural plasticity by optimization techniques. II. Analysis of model discretization and mathematical programming algorithms for elastic-plastic incremental analysis. (see 91f:73001)

— see also Feijóo, R. A., (91f:73001)

73K50 Control of structures

- Balakrishnan, A. V. Damping operators in continuum models of flexible structures: explicit models for proportional damping in beam bending with end-bodies. 91f:73035
- Bruch, J. C., Jr. see Sadigh-Esfandari, R.; et al., 91f:73090
- Chen, Goong (with Zhou, Jian Xin) The wave propagation method for the analysis of boundary stabilization in vibrating structures. 91h:73072
- Dwyer, T. A. W., III Slew-induced deformation shaping on slow integral manifolds. 91d:73049
- Dymitruk, Anna Vibration control of the system of strings connected in a node. 91c:73063
- Khlodnev, A. M. Optimal control of the form of a stamp in a contact problem for a plate. (Russian) 91k:73061
- Leugering, Günter Control and stabilization of a flexible robot arm. 91h:73073
- Pan, T. S. (with Rao, S. S.; Venkayya, V. B.) Rates of change of closed-loop eigenvalues and eigenvectors of actively controlled structures. 91f:73029
- Potapenko, E. M. Stability of controllable elastic distributed systems. 91c:73064
- Rao, S. S. see Pan, T. S.; et al., 91f:73029
- Sadigh-Esfandari, R. (with Sloss, J. M.; Bruch, J. C., Jr.) Passive optimal control of an antisymmetric angle-ply laminate. 91e:73090
- Sloss, J. M. see Sadigh-Esfandari, R.; et al., 91e:73090
- Venkayya, V. B. see Pan, T. S.; et al., 91f:73029
- Zhou, Jian Xin see Chen, Goong, 91h:73072

Items with secondary classifications in 73K50

- Bartolomeo, J. (with Triggiani, Roberto) Uniform energy decay rates for Euler-Bernoulli equations with feedback operators in the Dirichlet/Neumann boundary conditions. 91j:35265
- Berrahmoun, Larbi Stabilisation de structures flexibles faiblement amorties. (English summary) [Stabilization of weakly damped flexible structures] 91g:93027
- Bock, Igor (with Lovisek, Jan) Optimal control in coefficients for elliptic variational inequalities and optimality conditions. 91g:49003
- Bruch, J. C., Jr. see Sadigh-Esfandari, R.; et al., 91e:73090
- Cetinkunt, Sabri (with Wu, Sijun) Output predictive adaptive control of a single-link flexible arm. (Not in MR)
- Ch'en, Po Hsien see Lin, Chun Liang; et al., 91e:93078
- Chen, Yun-Ping (with Yeung, K. S.) Sliding-mode control of multi-link flexible manipulators. (Not in MR)
- Egorov, Aleksandr Ivanovich (with Kogut, P. I.) Stability with respect to the state of a system of integro-differential equations of nonstationary aero-elasticity. (Russian) 91m:73057
- Eliseev, S. V. (with Kuznetsov, N. K.; Luk'yanov, A. V.) ★ Управление колебаниями роботов. (Russian) [Control of robot oscillations] 91f:70023
- Formalskii, A. M. see Lavrovskii, E. K., 91k:93074
- Goh, C. J. (with Lee, T. H.) Adaptive modal parameters identification for collocated position feedback vibration control. (Not in MR)
- Gorinevskii, D. M. The Bubnov-Galerkin method in problems of the control of oscillatory mechanical systems with distributed parameters. 91k:65119
- Haraux, Alain Séries lacunaires et contrôle semi-interne des vibrations d'une plaque rectangulaire. (English summary) [Lacunary series and semi-internal control of the vibrations of a rectangular plate] 91e:93039
- He, Zheng-Xu (with Morosanu, Gheorghe) Optimal control of biharmonic variational inequalities. 91c:49015
- Hörváth, Miklós Infinite strings with discrete spectrum. 91e:93056
- Hsiao, Fei Bin see Lin, Chun Liang; et al., 91e:93078
- Ichikawa, Akira Stability of flexible systems. 91c:93057
- Jaffard, S. Contrôle interne exact des vibrations d'une plaque rectangulaire. (English summary) [Exact internal control of the vibrations of a rectangular plate] 91j:93051
- Khlodnev, A. M. Optimal control of a plate over an obstacle. 91e:49005
- Kogut, P. I. see Egorov, Aleksandr Ivanovich, 91m:73057
- Korotkiĭ, A. I. An optimization problem of the bending of a membrane by concentrated stresses. (Russian) 91h:49025
- Kuznetsov, N. K. see Eliseev, S. V.; et al., 91f:70023
- Lagnese, John E. ★ Boundary stabilization of thin plates. 91k:73001
- The reachability problem for thermoelastic plates. 91f:93018
- Lasiecka, Irena (with Triggiani, Roberto) Exact controllability of the Euler-Bernoulli equation with boundary controls for displacement and moment. 91k:93016
- Lavrovskii, E. K. (with Formalskii, A. M.) Stabilization of the angular position of an elastic rod. 91k:93074
- Lee, Kwang Yun System identification of flexible structures. (see 91m:93004)
- Lee, T. H. see Goh, C. J., (Not in MR)
- Leugering, Günter On the reachability problem of a viscoelastic beam during a slewing maneuver. 91h:93013
- On boundary feedback stabilizability of a viscoelastic beam. 91f:93090
- Lin, Chun Liang (with Hsiao, Fei Bin; Ch'en, Po Hsien) Stabilization of large structural systems under model truncation, parameter perturbations and actuator saturations. 91e:93078
- Litvinchev, I. S. Decomposition in control of systems of the hyperbolic type with crossed connections. 91f:93007
- Lovisek, Jan see Bock, Igor, 91g:49003
- Luk'yanov, A. V. see Eliseev, S. V.; et al., 91f:70023
- Morosanu, Gheorghe see He, Zheng-Xu, 91c:49015
- Nagurka, Mark L. see Yen, Vincent, 91d:49038
- Narayanan, S. B. see Venkatraman, Krishnaswamy, 91i:93062
- Niane, Mary Tew Contrôleabilité exacte spectrale élargie des systèmes distribués par action sur une partie analytique arbitraire de la frontière. (English summary) [Relaxed exact spectral controllability of distributed systems by an action on an arbitrary analytic part of the boundary] 91d:93013

- Potapenko, E. M. Minimizing compensator dimensionality in oscillatory system control. 91k:93039
- Rebarber, Richard Semigroup generation and stabilization by H^p -bounded feedback perturbations. 91i:93091
- Rimrott, F. P. J. ★ Introductory attitude dynamics. 91h:70045
- Sadigh-Esfandari, R. (with Sloss, J. M.; Bruch, J. C., Jr.) Maximum principle for optimal control of distributed-parameter systems with singular mass matrix. 91e:49006
- Slater, G. L. see Zhang, Qiang, 91m:93069
- Sloss, J. M. see Sadigh-Esfandari, R.; et al., 91e:49006
- Spong, Mark W. Control of flexible-joint robots: a survey. (see 91m:93004)
- Triggiani, Roberto see Bartolomeo, J., 91j:35265 and Lasiecka, Irena, 91k:93016
- Venkatraman, Krishnaswamy (with Narayanan, S. B.) The optimal independent modal-space control of a flexible beam subjected to constant disturbance. 91i:93062
- White, L. W. Identification of flexural rigidity in a dynamic plate model. 91g:73051
- Stability of optimal output least squares estimators in certain beams and plate models. 91g:73052
- Wu, Sijun see Cetinkunt, Sabri, (Not in MR)
- Yen, Vincent (with Nagurka, Mark L.) Fourier-based optimal control approach for structural systems. 91d:49038
- Yeung, K. S. see Chen, Yun-Ping, (Not in MR)
- Yun, Yun Cheng Pointwise stabilizability of coupled elastic beam systems. 91i:93092
- Zhang, Qiang (with Slater, G. L.) Eigenstructure assignment with control gains optimization. 91m:93069
- Zhang, Weijian The spectral density of the nonlinear damping model: single DOF case. 91j:93118

73K70 Aero- or hydromechanics structure interactions

- Bolotin, V. V. (with Dubovskikh, Yu. A.; Zhinzher, N. I.) Wave motion of elongated elastic bodies subjected to nonlinear flutter. 91c:73065
- Borach, S. P. (with Popov, A. L.; Chernyshev, G. N.) A method for identifying singularities in a problem on the hydroelastic oscillations of a shell that are excited by concentrated forces. (Russian) (Not in MR)
- Buzhinskii, V. A. Vortex resistance of a plate under vibrations in a low-viscosity fluid. 91d:73050
- Capodanno, Pierre Vibrations d'un liquide dans un vase fermé par une plaque élastique. (English summary) [Vibrations of a liquid in a container closed by an elastic plate] 91e:73091
- Petites oscillations de deux liquides pesants non miscibles dans un container. [Small oscillations of two immiscible heavy liquids in a container] 91e:73092
- Plane small oscillations of a liquid in a container with elastic bottom. 91e:73093
- Small planar oscillations of a container with elastic cover containing two immiscible liquids. 91e:73094
- Sur un mouvement particulier d'un profil muni d'une cavité fermée par un couvercle élastique et remplie de liquide. (English summary) [On a particular motion of a body containing a fluid-filled cavity closed by an elastic cover] 91g:73053
- Chaikovskii, M. V. see Denisenko, N. V.; et al., 91k:73082
- Chernyshev, G. N. see Borach, S. P.; et al., (Not in MR)
- Conca, Carlos (with Planchard, Jacques; Vanninathan, M.) Existence and location of eigenvalues for fluid-solid structures. 91a:73052
- (with Planchard, Jacques; Vanninathan, M.) Un problème de fréquences propres en couplage fluide-structure. (English summary) [A problem of eigenfrequencies in fluid-structure coupling] 91d:73051
- (with Planchard, Jacques; Vanninathan, M.) Sur les bornes du spectre de résonance des faisceaux tubulaires immergés dans un fluide. (English summary) [Bounds of the eigenspectrum of tube bundles immersed in a fluid] 91b:73074
- David, J. M. see Solze, C.; et al., 91k:73053
- Denisenko, N. V. (with Lozhechnik, F. D.; Chaikovskii, M. V.) An algorithm for the numerical solution of integro-differential equations in aeroelasticity that takes into account singularities of the kernels of the integral operator. (Russian. English summary) 91k:73082
- Desanti, Annick see Solze, C.; et al., 91k:73053
- Dubovskikh, Yu. A. see Bolotin, V. V.; et al., 91c:73065
- Egorov, Aleksandr Ivanovich (with Kogut, P. I.) Stability with respect to the state of a system of integro-differential equations of nonstationary aero-elasticity. (Russian) 91m:73057
- Fitzpatrick, J. A. (with Rice, H. J.) Equivalent time domain procedures for bispectral analysis. 91e:73095
- Gayakov, G. N. On the tension of a soft shell under aerodynamic loading. (Not in MR)
- Gladun, O. M. Nonlinear standing oscillations of an elastic plate that is floating on a surface of a heavy fluid of finite depth. (Russian) (Not in MR)
- van Groesen, E. (with Versteppen, R.) A dynamic variation principle for elastic-fluid contacts, applied to elastohydrodynamic lubrication theory. 91g:73054
- Gaz, A. N. Problems of hydroelasticity for a compressible viscous fluid. (Not in MR)
- Huang, Yu Ying Orthogonality of wet modes in coupled vibrations of cylindrical shells containing liquids. 91m:73058
- Kock, Ellen (with Olson, Lorraine) Fluid-structure interaction analysis by the finite element method—a variational approach. 91m:73059
- Kogut, P. I. see Egorov, Aleksandr Ivanovich, 91m:73057
- Lozhechnik, F. D. see Denisenko, N. V.; et al., 91k:73082
- Olson, Lorraine see Kock, Ellen, 91m:73059
- Planchard, Jacques see Conca, Carlos; et al., 91a:73052; 91b:73074 and 91d:73051
- Popov, A. L. see Borach, S. P.; et al., (Not in MR)
- Rice, H. J. see Fitzpatrick, J. A., 91e:73095
- Rothmayer, A. P. The viscous flow through symmetric collapsible channels. 91e:73096
- Schulkes, R. M. S. M. Fluid oscillations in an open, flexible container. 91e:73097
- Seintak, Ya. E. Oscillations of a Timoshenko-type elastically fixed round plate that is positioned under a fluid layer. (Russian) 91f:73036
- Solze, C. (with David, J. M.; Desanti, Annick) Dynamic and acoustic response of coupled structure/dense fluid axisymmetric systems excited by a random wall pressure field.

91a:73053

Vanninathan, M. *see* Conca, Carlos; et al., 91a:73052; 91b:73074 and 91d:73051Verstappen, R. *see* van Groesen, E., 91g:73054Yang, Z. C. *see* Zhao, Ling Cheng, 91a:73054

Zhao, Ling Cheng (with Yang, Z. C.) Chaotic motions of an airfoil with nonlinear stiffness in incompressible flow. 91a:73054

Zhinzhber, N. I. *see* Bolotin, V. V.; et al., 91c:73065

Items with secondary classifications in 73K70

Abboud, Najib N. *see* Pinsky, Peter M., 91m:76106

Akulenko, L. D. (with Mikhailov, S. A.; Nesterov, S. V.) Oscillations of an oscillator near the interface of two fluids. 91d:76081

Andronov, I. V. (with Belinskii, B. P.) Boundary-contact problems in acoustics for a vertically stratified medium bounded above by a plate with concentrated inhomogeneities. 91m:76103

Barclay, D. W. *see* Moodie, T. Bryant, 91k:73047Belinskii, B. P. *see* Andronov, I. V., 91m:76103

Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:85270

Burns, John A. (with Herdman, Terry L.; Turi, Janos) Neutral functional integro-differential equations with weakly singular kernels. 91k:34094

Capodanno, Pierre Plane small oscillations of a rigid body with a cavity containing a liquid and closed by an elastic cover. 91c:76013

Chaikovskii, M. V. (with Yanovich, L. A.) Numerical determination of the covariance of the solution of randomly perturbed equations in aero-elasticity. (Russian. English summary) 91m:65322

Chen, Yao Song *see* Zou, Qisa, (Not in MR)

Chueshev, I. D. On a system of equations with delay that arises in aero-elasticity. (Russian) 91k:35247

— Strong solutions and the attractor of a system of von Kármán equations. 91b:35016

Debnath, Lokenath *see* Ghosh, A. K.; et al., 91g:76094Easwaran, C. V. *see* Ramkissoon, H.; et al., (Not in MR)

Egorov, A. G. Damping of elastic waves in thin-layered saturated porous media. 91c:73030

Ghosh, A. K. (with Khan, A. R.; Debnath, Lokenath) On a pulsatile flow of a two-phase viscous fluid in a tube of elliptic cross-section. 91g:76094

Gol'dshteyn, R. V. (with Marchenko, A. V.) Diffraction of two-dimensional gravity waves by the edge of an ice covering. 91b:76023

Gulin, B. V. *see* Ridef, V. V., 91k:73029

Guo, Qian Rong The Hopf bifurcation of hybrid dynamical systems. 91c:58092

Herdman, Terry L. *see* Burns, John A.; et al., 91k:34094

Howe, M. S. Scattering by a surface inhomogeneity on an elastic half-space, with application to fluid-structure interaction noise. 91c:76099

Hu, Bei A quasi-variational inequality arising in elastohydrodynamics. 91c:35163

Jensen, O. E. Instabilities of flow in a collapsed tube. 91k:76034

Khan, A. R. *see* Ghosh, A. K.; et al., 91g:76094

Khrebtov, V. A. Solution of the Cauchy problem for hydraulic shock equations in elastodeformable pipes. 91k:76074

Klapper, Tassilo (with Troger, H.; Vanderbauwhede, A.; Werner, Bodo) Minisymposium 1: Verzweigung in mechanischen Systemen. [Minisymposium 1: bifurcation in mechanical systems] 91k:58039

Leppington, F. G. The effective boundary conditions for a perforated elastic sandwich panel in a compressible fluid. 91b:73032

Liu, Zhao Rong *see* Xu, Shi Xiong; et al., 91b:76116

Lukovskii, I. A. (with Pi'kevich, A. M.) Mathematical modeling of strongly nonlinear processes with resonance interaction of a body with a bounded volume of fluid. (Russian) 91k:76013

MacCamy, Richard C. *see* Bielak, J., 91m:65270

Madych, W. R. On the correctness of the problem of inverting the finite Hilbert transform in certain aeroelastic models. 91d:45004

Majumdar, S. R. *see* Ramkissoon, H.; et al., (Not in MR)Marchenko, A. V. *see* Gol'dshteyn, R. V., 91b:76023

Matvichuk, K. S. Conditions for technical stability of solutions of a boundary value problem that describes the dynamics of an extended rod with a variable cross section moving longitudinally in a fluid. (Russian) 91k:73024

— Technical stability of a fluid-carrying rectilinear pipeline. 91c:73069

— The method of evolution equations in studying the technical stability of dynamical systems. 91j:34098

Mikhailov, S. A. *see* Akulenko, L. D.; et al., 91d:76081

Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012

— (with Barclay, D. W.) Padé-extended wavefront expansions and nonlinear dissipative waves. 91k:73047

Nesterov, S. V. *see* Akulenko, L. D.; et al., 91d:76081

Pekurovskii, L. E. (with Poruchikov, V. B.; Sozonenko, Yu. A.) ★ Взаимодействие волн с телами. (Russian) [Interaction of waves with bodies] 91g:76060

Pi'kevich, A. M. *see* Lukovskii, I. A., 91b:76013

Pinsky, Peter M. (with Abboud, Najib N.) Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. 91m:76106

Poruchikov, V. B. *see* Pekurovskii, L. E.; et al., 91g:76060

Ramkissoon, H. (with Easwaran, C. V.; Majumdar, S. R.) Longitudinal and torsional oscillation of a rod in a polar fluid. (Not in MR)

Ridef, V. V. (with Gulin, B. V.) ★ Динамика мягких оболочек. (Russian) [The dynamics of soft shells] 91k:73029

Rosenberry, James M. (with Saffman, Philip G.) Effect of compliant boundaries on weakly nonlinear shear waves in channel flow. 91d:76033

Saffman, Philip G. *see* Rosenberry, James M., 91d:76033

Sanchez Hubert, J. (with Sánchez-Palencia, E.) ★ Vibration and coupling of continuous systems. 91c:00018

Sánchez-Palencia, E. *see* Sanchez Hubert, J., 91c:00018

Sebe, Gabriel (with Tucsnak, Marius) The influence of a perfect fluid on the critical loading of a rod immersed in it. 91g:73039

Skellton, Elizabeth A. Acoustic scattering by parallel plates with a single connector. 91c:76101

— Acoustic scattering by parallel plates with periodic connectors. 91c:76102

Sozonenko, Yu. A. *see* Pekurovskii, L. E.; et al., 91g:76060

Steindl, A. Mehrfache Hopfverzweigung eines flüssigkeitsdurchströmten, elastisch gelagerten Schlauchs unter O(2)-Symmetrie. [Multiple Hopf bifurcation of an elastically mounted hose with interior flow under O(2)-symmetry] 91k:58029

Swaters, Gordon E. *see* Moodie, T. Bryant, 91d:76012

Tew, R. H. Ray theory of the diffraction of sound by an inhomogeneous membrane. 91c:76103

Troger, H. *see* Klapper, Tassilo; et al., 91k:58039

Tucsnak, Marius Buckling of nonlinearly elastic rods immersed in a fluid. 91g:73040

— *see also* Sebe, Gabriel, 91g:73039Turi, Janos *see* Burns, John A.; et al., 91k:34094Vanderbauwhede, A. *see* Klapper, Tassilo; et al., 91k:58039Werner, Bodo *see* Klapper, Tassilo; et al., 91k:58039

Xu, Shi Xiong (with Zhang, Xiao Dong; Liu, Zhao Rong) Pulsatile blood flow through a viscoelasticity-tethered tube of mild varying cross-section. 91b:76116

Yanovich, L. A. *see* Chaikovskii, M. V., 91m:65322Zhang, Xiao Dong *see* Xu, Shi Xiong; et al., 91b:76116

Zou, Qisa (with Chen, Yao Song) Nonaxisymmetric wave propagation through a viscous fluid in a viscoelastic tube. (Not in MR)

73K99 None of the above, but in this section

Anekwe, C. M. Application of formex algebra to bandwidth minimization. 91k:73083

Behraves, A. The set algebra and structural analysis. (Not in MR)

Calladine, C. R. (with Pellegrino, S.) First-order infinitesimal mechanisms. 91k:73037

Fuji, Hiroshi *see* Ikeda, Kiyohiro; et al., 91k:73085

Healey, Timothy J. (with Treacy, J. A.) Exact block diagonalization of large eigenvalue problems for structures with symmetry. 91k:73084

Hu, Cheng Dong (with Liu, Wei; Wang, Zai Shen) The basic dynamical equations of multibody systems. I. (Chinese. English summary) 91k:73045

Ikeda, Kiyohiro (with Murota, Kazuo; Fujii, Hiroshi) Bifurcation hierarchy of symmetric structures. 91k:73085

Karwowski, Andrzej J. Asymptotic models for a long, elastic cylinder. 91m:73060

Koshur, V. D. (with Nemirovskii, Yu. V.) ★ Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91c:73098

Liu, Wei *see* Hu, Cheng Dong; et al., 91k:73045

Matzenmiller, Anton ★ Ein rationales Lösungskonzept für geometrisch und physikalisch nichtlineare Strukturberechnungen. (German) [A rational solution concept for geometrically and physically nonlinear analysis of structures] 91k:73030

Murota, Kazuo *see* Ikeda, Kiyohiro; et al., 91k:73085Nemirovskii, Yu. V. *see* Koshur, V. D., 91c:73098Pellegrino, S. *see* Calladine, C. R., 91k:73037

Ramachandran, K. Best ordering for system bounds. 91k:73038

Sacco, Elio Modelling and analysis of structure in no-tension materials. (Italian. English summary) 91k:73086

Treacy, J. A. *see* Healey, Timothy J., 91k:73084Wang, Zai Shen *see* Hu, Cheng Dong; et al., 91k:73045

Items with secondary classifications in 73K99

Alaev, R. O. (with Sadykova, M. Yu.) On the correctness of the differential and difference formulation of a mixed boundary value problem for a geophysical cable. (Russian) (Not in MR)

Balakrishnan, A. V. Damping operators in continuum models of flexible structures: explicit models for proportional damping in beam torsion. 91b:73063

Behraves, A. (with Kaveh, A.) Iterative solution of large structures. 91d:73064

Belov, P. A. *see* Obratsov, I. F.; et al., 91m:73014

Bolotin, V. V. A unified model of fatigue and fracture with applications to structural reliability. 91g:73056

Bowers, Kenneth L. *see* Smith, Ralph C.; et al., 91d:65110

Chen, Yun-Ping (with Yeung, K. S.) Sliding-mode control of multi-link flexible manipulators. (Not in MR)

Comi, Claudia *see* Corigliano, Alberto, 91k:73018

Corigliano, Alberto (with Comi, Claudia) Extension to internal-variable constitutive laws of nonshakedown theorems in structural elastic-plastic dynamics. (Italian. English summary) 91k:73018

Elpat'evskii, A. N. *see* Obratsov, I. F.; et al., 91m:73014

Frémont, Michel Sur l'aplatissement des matériaux. (English summary) [The flattening of materials] 91m:73001

Green, W. A. (with Shi, Jingyu) Deformations of discrete elastic networks. 91b:73031

Hsu, Chieh Su *see* Sun, J.-Q., 91k:93066Kanoh, Hideaki *see* Tzafestas, Spyros G., 91k:70002

Kaveh, A. Algebraic graph theory for ordering. 91k:73059

— *see also* Behraves, A., 91d:73064

Kuznetsov, Edward N. On immobile kinematic chains and a fallacious matrix analysis. 91a:70006

La, Wan Chang A preliminary study of the calculation of grey strength. (Not in MR)

Lund, J. R. *see* Smith, Ralph C.; et al., 91d:65110

Mentrasti, Lando On a singular system of differential equations arising in variational methods. 91k:73061

Obratsov, I. F. (with Elpat'evskii, A. N.; Belov, P. A.) A general approach to the formulation of linear models of media of different smoothness. 91m:73014

Pellegrino, S. (with Van Heerden, T.) Solution of equilibrium equations in the force method: a compact band scheme for underdetermined linear systems. 91k:65002

Sadykova, M. Yu. *see* Alaev, R. O., (Not in MR)

Shi, Jingyu *see* Green, W. A., 91h:73031

Smith, Ralph C. (with Bowers, Kenneth L.; Lund, J. R.) Efficient numerical solution of

fourth-order problems in the modeling of flexible structures. 91d:65110

Sun, J.-Q. (with Hsu, Chieh Su) Global analysis of nonlinear dynamical systems with fuzzy

uncertainties by the cell mapping method. 91i:93066

Tarnai, T. Duality between plane trusses and grillages. 91e:70008

Tzafestas, Spyros G. (with Kanoh, Hideaki) Dynamic studies of flexible robot manipulators. 91h:70002

Van Heerden, T. *see* Pellegrino, S., 91k:65002

Yeung, K. S. *see* Chen, Yon-Ping, (Not in MR)

73Lxx Theory of shells (1985)

73L20 Vibrations of shells (1985)

Abramov, A. A. (with Konyukhova, N. B.; Paritskii, B. S.; Prikhod'ko, V. Yu.; Tyutekin, V.

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Konyukhova, N. B. *see* Abramov, A. A.; et al., (Not in MR)

Paritskii, B. S. *see* Abramov, A. A.; et al., (Not in MR)

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Tyutekin, V. V. *see* Abramov, A. A.; et al., (Not in MR)

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73L99 None of the above, but in this section (1985)

Shen, Zu Pei (with Zhao, Hong Bin; Wu, Zhen Hui) Complex variable equations for toroidal shells under "wind-type" loads and their solutions. (Chinese. English summary) (Not in MR)

Wu, Zhen Hui *see* Shen, Zu Pei; et al., (Not in MR)

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Items with secondary classifications in 73L99

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73Mxx Fractural mechanics (1985)

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Krishnasamy, G. *see* Rudolph, Thomas J.; et al., (91b:00043)

Rizzo, F. J. *see* Rudolph, Thomas J.; et al., (91b:00043)

Rudolph, Thomas J. (with Krishnasamy, G.; Schmerr, L. W.; Rizzo, F. J.) On the use of strongly singular integral equations for crack problems. (see 91b:00043)

Schmerr, L. W. *see* Rudolph, Thomas J.; et al., (91b:00043)

Yang, Wei *see* Huang, Ke Zhi; et al., (Not in MR)

Yu, S. W. *see* Huang, Ke Zhi; et al., (Not in MR)

Items with secondary classifications in 73M05

Becker, Ingo *see* Schnack, Eckart; et al., (91b:00041)

Karaozanoglu, Namik *see* Schnack, Eckart; et al., (91b:00041)

Kreis, A. A different approach to 2-dimensional boundary element method in orthotropic linear elasticity theory. (see 91b:00043)

Sarikin, V. A. The motion of the free boundary of a half-space in the propagation of an inclined rectilinear crack. (Not in MR)

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73M25 Fracture mechanics

Aleksandrov, Viktor Mikhailovich (with Kudish, I. I.) Asymptotic methods in the Griffith problem. 91k:73055

Ang, W. T. A pair of arbitrarily-oriented coplanar cracks in an anisotropic elastic slab. (Not in MR)

Blejs, Eveline A. La puissance dissipée à la propagation d'une fissure dans un solide visco-élastique non linéaire. [Power dissipated during crack propagation in a nonlinear viscoelastic solid] 91c:73066

Balmukhambetov, M. A. Surface instability of an elastic half-space under contraction along a system of physical cracks under plane deformation conditions. (Russian) (see 91g:00039)

Bardzokas, Dem. (with Parton, V. Z.; Theocaris, Pericles S.) Integral equations in elasticity theory for a multiply connected domain with inclusions. 91g:73055

Belokhina, I. G. On an analysis of the difference solution of a crack problem. 91c:73067

Belyaev, V. V. (with Naimark, O. B.) Localized peaking structures in the process of fracture of solid bodies under intense actions. (Not in MR)

Benallal, Ahmed (with Geymonat, Giuseppe) Sur le problème en vitesses pour les solides élastoviscoplastiques endommagés en présence de zone rompue. (English summary)

[On the rate boundary value problem for elastic-viscoplastic damageable solids containing a ruptured zone] 91c:73099

Bolotin, V. V. A unified model of fatigue and fracture with applications to structural reliability. 91g:73056

Bower, A. F. (with Ortiz, Michael) Solution of three-dimensional crack problems by a finite perturbation method. 91b:73075

Carpinteri, Alberto A catastrophe theory approach to fracture mechanics. 91d:73052

Cherepanov, G. P. On the construction of fracture mechanics. 91k:73087

Debruyne, G. *see* Nguyen Quoc Son; et al., 91k:73089

Destuynder, Philippe (with Michavila Pitarch, Francisco F.; Ousset, Yves; Santos, Anastasio) Utilisation du taux de restitution de l'énergie dans l'analyse à deux échelles de l'endommagement d'un joint collé. [Use of the energy release rate in a two-scale damage analysis of a bonded joint] 91b:73076

Fortov, V. E. *see* Ni, A. L., (Not in MR)

Georgiadis, H. G. (with Papadopoulos, G. A.) Elastostatics of the orthotropic double-cantilever-beam fracture specimen. (Not in MR)

— An integral equation approach to self-similar plane-elastodynamic crack problems. 91k:73088

Geymonat, Giuseppe *see* Benallal, Ahmed, 91c:73099

Golden, J. M. (with Graham, G. A. C.) Energy balance criteria for viscoelastic fracture. 91g:73057

Graham, G. A. C. *see* Golden, J. M., 91g:73057

Guz', A. N. Exact solution of a two-dimensional problem on the fracture of a material under compression along the cracks located in one plane. (Not in MR)

Han, S. Y. (with Narasimhan, M. N. L.; Kennedy, T. C.) Dynamic propagation of a finite crack in a micropolar elastic solid. (Not in MR)

Herrmann, J. M. (with Schovanec, L.) Quasi-static mode III fracture in a nonhomogeneous viscoelastic body. (Not in MR)

Huang, Ke Zhi *see* Luo, Xue Fu, 91j:73051

Iosakimidis, N. I. Two-dimensional principal value hypersingular integrals for crack problems in three-dimensional elasticity. 91d:73053

Jin, Zhi He On the near-tip fields for a crack dynamically growing along a curved path in an elastic solid. (Not in MR)

Kalamkarov, A. L. (with Kudryavtsev, B. A.; Parton, V. Z.) The boundary layer method in fracture mechanics of composites with periodic structure. 91h:73046

Kennedy, T. C. *see* Han, S. Y.; et al., (Not in MR)

(Knauss, W. G.) *see* Nonlinear fracture, 91b:73079

Kobeler, V. V. A fracture model of a fibrous composite. 91h:73047

Kreininich, V. Ya. *see* Vuklenko, A. A., 91h:73078

Kudish, I. I. *see* Aleksandrov, Viktor Mikhailovich, 91k:73055

Kudryavtsev, B. A. *see* Kalamkarov, A. L.; et al., 91h:73046

Laborde, Patrick (with Michrafy, Abderrahim) Étude d'un modèle avec endommagement. (English summary) [Study of a model involving damage] 91a:73056

Le, K. Ch. *see* Stumpf, Helmut, 91i:73039

Leguillon, Dominique Comportement asymptotique du taux de restitution de l'énergie en fin de fracture. (English summary) [Asymptotics of the energy release rate in the ultimate phase of fracture] 91d:73054

Le Khanh Chan On the nonlinear theory of brittle fracture. 91c:73100

— Variational principles in the nonlinear theory of brittle fracture. (Russian) 91h:73048

Levan, A. (with Royer, Jean Rene) Theoretical basis of regularized integral equations for elastostatic crack problems. 91m:73061

Lindgren, Georg (with Rychlik, Igor) Rain flow cycle distributions for fatigue life prediction under Gaussian load processes. (see 91j:60004)

Liu'kov, A. M. A boundary integral equation with a complex finite-partial integral for a two-dimensional problem in elasticity theory. (Russian) (see 91k:00010)

Liu, Shi Qiang The periodic crack problem for bonded planes with three different materials. (Chinese) 91d:73055

Luo, Xue Fu (with Huang, Ke Zhi) Correct formulation and solution of near-tip field problem for crack growing in compressible elastic-plastic materials. 91h:73051

Martirosyan, A. N. Solution of a three-dimensional problem on impulses that are applied at the boundaries of a half-plane moving crack. (Not in MR)

Miasoa, P. Calcul de la dérivée d'une grandeur par rapport à un fond de fissure par la méthode θ . (English summary) [Calculation of the derivative of a quantity with respect to a crack-tip by the θ -method] 91a:73057

Michavila Pitarch, Francisco F. *see* Destuynder, Philippe; et al., 91b:73076

Michrafy, Abderrahim *see* Laborde, Patrick, 91a:73056

Morozov, N. F. (with Paukshto, M. V.) Cracks simulation and solitons in the lattice. (see 91h:00032)

— *see also* Movchan, A. B.; et al., 91c:73068

Movchan, A. B. (with Morozov, N. F.; Nazarov, S. A.) A three-dimensional crack with smoothly joining edges. (Russian. English summary) 91c:73068

Müller, W. H. An analytical approach for the calculation of stress-intensity factors in transformation-toughened ceramics. (Not in MR)

Naimark, O. B. *see* Belyaev, V. V., (Not in MR)

Narasimhan, M. N. L. *see* Han, S. Y.; et al., (Not in MR)

Nazarov, S. A. (with Romashev, Yu. A.) Calculation of energy change in the Griffith problem for a Cosserat continuum. (Russian. English summary) 91b:73077

— (with Polyakova, O. R.) Stress intensity factors for drawing together parallel cracks in a two-dimensional domain. 91h:73049

— *see also* Movchan, A. B.; et al., 91c:73068

Nemat-Nasser, Siavouche *see* Ni, La Qun, 91j:73052

Nguyen Quoc Son (with Stolz, Claude; Debruyne, G.) Energy methods in fracture mechanics: stability, bifurcation and second variations. 91k:73089

Ni, A. L. (with Fortov, V. E.) Equations of motion of condensed media under continual-kinetic fracture. (Russian) (Not in MR)

Ni, La Qun (with Nemat-Nasser, Siavouche) Interface cracks in anisotropic dissimilar materials: an analytic solution. 91j:73052

Niu, Yan Zhou Investigation of conservative integrals in media with damage. (Chinese. English summary) 91c:73101

Ortiz, Michael *see* Bower, A. F., 91b:73075

- Ostoja-Starzewski, M. Percolation, fractals, and entropy of disorder in damage phenomena. (see 91m:00030)
- Oussot, Yves see Destuynder, Philippe; et al., 91b:73076
- Papadopoulos, G. A. see Georgiadis, H. G., (Not in MR)
- Parton, V. Z. see Bardzokas, Dem.; et al., 91g:73055 and Kalamkarov, A. I.; et al., 91h:73046
- Pankashvili, M. V. see Morozov, N. F., (91h:00032)
- Penkov, V. B. Contact interaction of the edges of a simply connected body. (Russian) (see 91k:00025)
- Polyskova, O. R. see Nazarov, S. A., 91h:73049
- Puzanov, Yu. E. see Zelentsov, V. B., 91e:73104
- Romanov, Yu. A. see Nazarov, S. A., 91b:73077
- Rosakis, A. J. see Nonlinear fracture, 91b:73079
- Royer, Jean Rene see Levant, A., 91m:73061
- Rychlik, Igor see Lindgren, Georg., (91j:60004)
- Sadykhov, V. E. Stresses in a bi-elastic layer with a boundary shear crack. 91c:73069
- Santos, Anastasio see Destuynder, Philippe; et al., 91h:73076
- Schroeder, L. see Herrmann, J. M., (Not in MR)
- Sobczyk, Kazimierz Probabilistic modelling of fatigue crack growth under variable-amplitude loading. 91c:73070
- Stochastic approach to fatigue fracture. (see 91m:00029)
- Stavroulakis, G. E. On the static behaviour of cracked masonry walls. (Not in MR)
- Stein, Claude see Nguyen Quoc Son; et al., 91h:73089
- Stumpf, Helmut (with Le, K. Ch.) Variational principles of nonlinear fracture mechanics. 91h:73039
- Suo, Zhigang Singularities, interfaces and cracks in dissimilar anisotropic media. 91a:73058
- Theocaris, Pericles S. see Bardzokas, Dem.; et al., 91g:73055
- Tvardovskii, V. V. Further results on rectilinear line cracks and inclusions in anisotropic medium. 91e:73102
- Vakulenko, A. A. (with Kreinovich, V. Ya.) A physical-geometric study of brittle fracture with creep. 91b:73078
- Wang, Yin Bang A method to solve boundary integral equations for the Griffith crack problem under asymmetric loadings. (Chinese. English summary) (Not in MR)
- Wu, Chien H. Asymptotic solution of a crack in a vanishingly thin elliptic inhomogeneity. 91e:73103
- Xie, Wei An Problems of finite plates with cracks. (Chinese. English summary) 91c:73071
- Zelentsov, V. B. (with Puzanov, Yu. E.) An efficient method for solving integral equations in problems of crack theory. (Russian) 91e:73104
- Items listed otherwise than by author
- Nonlinear fracture ★ Nonlinear fracture. 91b:73079
- Pasadena, CA ★ Nonlinear fracture. 91b:73079
- Symposium:
- Nonlinear Fracture Mechanics ★ Nonlinear fracture. 91b:73079
- Items with secondary classifications in 73M25
- Aflynn, B. A. (with Stepanyan, S. P.) The stressed state of an elastic half-plane that is weakened by finite and semi-infinite cracks. (Russian. Armenian summary) 91c:73019
- (Akhundzhanov, E. R.) see Hromadka, Theodore V., II, 91f:73039
- Angel, V. C. Singular integral equation for antiplane-wave scattering by a semi-infinite crack. 91e:73032
- Antipov, Yu. A. Analytic solution of a two-dimensional problem for a half-plane with a crack that is close to the boundary. (Russian) 91g:73010
- Atkinson, Colin (with Bourne, J. P.) Stress singularities in angular sectors of viscoelastic media. 91e:73056
- see also Bourne, J. P., 91e:73055
- Azzam, Ali On the behavior of solutions of elliptic and parabolic equations at a crack. 91j:35058
- Banks, H. T. (with Kojima, Fumio; Winfree, W. P.) Boundary estimation problems arising in thermal tomography. 91k:80003
- Bardzokas, Dem. (with Parton, V. Z.; Theocaris, Pericles S.) A plane problem in elasticity theory for an orthotropic domain with defects. 91k:73029
- Belytschko, T. see Fish, J., 91a:73068 and Lu, Y. Y.; et al., 91j:73067
- Benallal, Ahmed (with Billardon, René; Geymonat, Giuseppe) Phénomènes de localisation à la frontière d'un solide. (English summary) [Localization phenomena at the boundary of solids] 91g:73006
- Bensabat, J. (with Zeitoun, D. G.) A least-squares procedure for the solution of transport problems. 91a:76075
- Billardon, René see Benallal, Ahmed; et al., 91g:73006
- Blat, J. (with Morel, J.-M.) Elliptic problems in image segmentation and their relation to fracture theory. 91h:35009
- Blum, Herbert Numerical treatment of corner and crack singularities. 91h:65122
- Boiko, A. V. (with Karpenko, L. N.) On an integral equation of the problem for an elastic strip with a slit. 91h:73008
- Bolotin, V. V. Theory of extremes and its applications to mechanics of solids and structures. (see 91j:60004)
- Bourne, J. P. (with Atkinson, Colin) Stress singularities in viscoelastic media. II. Plane-strain stress singularities at corners. 91e:73055
- see also Atkinson, Colin, 91e:73056
- Brewster, M. E. see Moore, Andrew M.; et al., 91h:76042
- Brutyan, A. R. A method for accelerating computations. (Russian. Armenian summary) (see 91g:00028)
- Buchwald, V. T. see Moore, Andrew M.; et al., 91h:76042
- Bykovtsev, A. S. (with Kramarovskii, D. B.) Unsteady supersonic motion of a complex discontinuity. 91c:73027
- Chacha, Djamel Comportement macroscopique de plaques hétérogènes fissurées localement périodiques. (English summary) [Macroscopic behavior of heterogeneous and fissured locally periodic plates] 91m:73047
- Cherepanov, G. P. Invariant integrals in continuum mechanics. 91j:73007
- Chernykh, K. F. Nonlinear plane elasticity theory and its application to physically and geometrically nonlinear fracture mechanics. (Russian. English summary) 91m:73020
- Two-dimensional problems in nonlinear elasticity theory (a single wedge disclination). (Russian) (see 91k:00010)
- Chow, C. L. see Lu, T. J., (Not in MR)
- Cocks, A. C. F. (with Leckie, F. A.) Creep constitutive equations for damaged materials. (see 91e:73003)
- Coleman, Bernard D. On the loss of regularity of shearing flows of viscoelastic fluids. 91g:76005
- Del Piero, Giampietro Recent developments in the mechanics of materials which do not support tension. 91m:73012
- Doduchava, R. V. (with Natroshvili, D. G.; Shargorodskii, E. M.) Continuity of generalized solutions of fundamental boundary value problems in the mathematical theory of cracks. (Russian. English and Georgian summaries) (Not in MR)
- Epstein, Marcelo (with Maugin, Gérard A.) Sur le tenseur de moment matériel d'Eshelby en élasticité non linéaire. (English summary) [On Eshelby's material-moment tensor in nonlinear elasticity] 91d:73018
- Fabrikant, V. I. ★ Applications of potential theory in mechanics. 91g:73013
- (Fernández Álvarez, Consuelo) see Parton, V. Z., 91e:73002
- Fish, J. (with Belytschko, T.) A finite element with a unidirectionally enriched strain field for localization analysis. 91a:73068
- Geymonat, Giuseppe see Benallal, Ahmed; et al., 91g:73006
- Gohert, A. T. see Pak, R. Y. S., 91g:73015
- Gorindze, Sanjay (with Simo, J. C.) A micro-mechanically based continuum damage model for carbon black-filled rubbers incorporating Mullins' effect. (Not in MR)
- Gray, L. J. (with Martha, Luiz F.; Ingraffea, A. R.) Hypersingular integrals in boundary element fracture analysis. 91a:73073
- Hromadka, Theodore V., II (with Lai, Chintu) ★ Комплексный метод граничных элементов в инженерных задачах. (Russian) [The complex boundary element method in engineering problems] 91f:73039
- Huang, Xiao Ling The problem of equilibrium of an infinite anisotropic elastic plane surface with periodic rectilinear cracks. (Chinese) 91g:73014
- Ingraffea, A. R. see Gray, L. J.; et al., 91a:73073
- Iokimidis, N. I. Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems. 91h:73048
- Generalized Mangler-type principal value integrals with an application to fracture mechanics. 91d:26003
- The location of discontinuity intervals of sectionally analytic functions: application to the interface crack problem. 91h:65058
- Jiang, Chi Ping see Liu, You Wen, (Not in MR)
- Kalozov, S. A. Complex potentials in a plane problem of elasticity theory for a multiply connected anisotropic body with cracks. (Russian) 91k:73030
- Elastic equilibrium of a multiply connected isotropic plate with cracks. (Russian) 91k:73031
- Karpenko, L. N. see Boiko, A. V., 91h:73008
- Khrapkov, A. A. see Zlatin, A. N., 91j:73014
- Kojima, Fumio see Banks, H. T.; et al., 91k:80003
- Koshur, V. D. (with Nemirovskii, Yu. V.) ★ Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91e:73098
- Kramarovskii, D. B. see Bykovtsev, A. S., 91c:73027
- Kravchuk, A. S. see Hromadka, Theodore V., II, 91f:73039
- Krishnasamy, G. (with Schmerr, L. W.; Rudolph, Thomas J.; Rizzo, F. J.) Hypersingular boundary integral equations: some applications in acoustic and elastic wave scattering. 91c:73029
- Kukudzhanyan, V. N. The mathematical modelling of dynamic elastoplastic processes of large deformations and damage. (see 91h:00032)
- Ladopoulos, E. G. see Zisis, V. A., 91h:73011
- Lai, Chintu see Hromadka, Theodore V., II, 91f:73039
- Leckie, F. A. see Cocks, A. C. F., (91e:73003)
- Lin'kov, A. M. (with Mogilevskaya, S. G.) Hypersingular integrals in two-dimensional problems in elasticity theory. 91e:73025
- Liu, Wing Kam see Lu, Y. Y.; et al., 91j:73067
- Liu, You Wen (with Jiang, Chi Ping) Problems of collinear cracks between bonded dissimilar materials under antiplane concentrated forces. (Not in MR)
- Lu, T. J. (with Chow, C. L.) On constitutive equations of inelastic solids with anisotropic damage. (Not in MR)
- Lu, Y. Y. (with Belytschko, T.; Liu, Wing Kam) A variationally coupled FE-BE method for elasticity and fracture mechanics. 91j:73067
- Martha, Luiz F. see Gray, L. J.; et al., 91a:73073
- Maugin, Gérard A. see Epstein, Marcelo, 91d:73018
- Michopoulos, J. G. (with Theocaris, Pericles S.) The directional instability of the running crack: a deterministic and stochastic approach. (Not in MR)
- Mityushov, V. V. Solution of a problem of crack theory by the method of functional equations. (Russian) 91g:73017
- Mogilevskaya, S. G. see Lin'kov, A. M., 91e:73025
- Molotkov, L. A. A study of the propagation of waves in models of cracked media. (Russian. English summary) 91g:73023
- Monagato, Giovanni (with Prösdorf, Siegfried) On the numerical treatment of an integral equation arising from a cruciform crack problem. 91e:65210
- Moore, Andrew M. (with Buchwald, V. T.; Brewster, M. E.) A Stokesian entry flow. 91h:76042
- Morel, J.-M. see Blat, J., 91h:35009
- (Morozov, N. F.) see Studies in elasticity and plasticity, 91e:73004
- Movchan, A. B. see Zarin, I. S.; et al., 91h:73037
- Movchan, N. V. (with Nazarov, S. A.) On the stress-deformed state near vertices of cones. 91j:73016
- Natroshvili, D. G. see Doduchava, R. V.; et al., (Not in MR)
- Nazarov, S. A. see Movchan, N. V., 91h:73016 and Zarin, I. S.; et al., 91h:73037

- Nemirovskii, Yu. V. *see* Keshar, V. D., 91e:73098
- Ngyuen Quoc Son *Stabilité et bifurcation des systèmes dissipatifs standards à comportement indépendant du temps physique. (English summary) [Stability and bifurcation of time-independent standard dissipative systems] 91e:73014*
- Osiv, P. N. *Modification of singular integral equations for two-dimensional problems in elasticity theory for an arbitrary multiply connected domain with a rectilinear cut. (Russian) 91k:73034*
- Pak, R. Y. S. (with Gobert, A. T.) *On the axisymmetric interaction of a rigid disc with a semi-infinite solid. (French summary) 91g:73015*
- Parton, V. Z. ★ *Механика разрушения: от теории к практике. (Russian) [Fracture mechanics: from theory to practice] 91e:73001*
- ★ *Механика de la destrucción. (Spanish) [Fracture mechanics] 91e:73002*
- *see also Bardzokas, Dem.; et al., 91k:73029*
- Prüssner, Siegfried *see* Monegato, Giovanni, 91i:65210
- Rizzo, F. J. *see* Krishnasamy, G.; et al., 91c:73029
- Roesen, H. *Stochastic stability of the loaded stiff rod. 91c:73061*
- Rudolph, Thomas J. *see* Krishnasamy, G.; et al., 91c:73029
- Schaeffer, David G. *Instability and ill-posedness in the deformation of granular materials. 91e:73071*
- Schmitt, L. W. *see* Krishnasamy, G.; et al., 91c:73029
- Shargorodskii, E. M. *Continuity of generalized solutions of mixed problems for the Lamé system. (Russian. English and Georgian summaries) (Not in MR)*
- *see also Duduchava, R. V.; et al., (Not in MR)*
- Shifrin, E. I. *Isoperimetric estimates for solutions of a class of pseudodifferential equations and their application to crack problems. 91h:35117*
- Silvestrov, V. V. *On the elastic stress and strain state near a spatial crack on a two-sheeted surface. 91f:73010*
- Simo, J. C. *see* Govindjee, Sanjay, (Not in MR)
- Snedden, I. N. *The problem of Boussinesq and Cerruti: a new approach to an old problem. 91g:73009*
- Stepanyan, S. P. *see* Afyan, B. A., 91c:73019
- Stephan, E. *see* Wendland, Wolfgang L., 91k:35063
- Theocaris, Pericles S. *see* Bardzokas, Dem.; et al., 91k:73029 and Michopoulos, J. G., (Not in MR)
- Vasudevan, Naresh *An elastic wave scattering problem relating to the rapid movement of a fracture in a plate. II. Numerical results. (Not in MR)*
- Vukobrat, M. Dj. *Conservation laws in thermoelastic membrane theory. (German and Serbo-Croatian summaries) 91c:73013*
- *Conservation laws in micropolar elastodynamics and path-independent integrals. 91k:73005*
- Wendland, Wolfgang L. (with Stephan, E. P.) *A hypersingular boundary integral method for two-dimensional screen and crack problems. 91k:35063*
- Winfree, W. P. *see* Banks, H. T.; et al., 91k:80003
- Yang, Wei *see* Zhong, Z.; et al., 91a:73040
- Yin, Chang Yan (with Zu, Cheng De) *Plane problems of a finite disc containing an internal crack. (Not in MR)*
- Yu, S. W. *see* Zhong, Z.; et al., 91a:73040
- Zaitoun, D. G. *see* Bensabat, J., 91a:76075
- Zhong, Z. (with Yang, Wei; Yu, S. W.) *Further result on symmetric bending of cracked Reissner plate. 91a:73040*
- Zisels, V. A. (with Ladopoulos, E. G.) *Singular integral approximations in Hilbert spaces for elastic stress analysis of a circular ring with curvilinear cracks. 91h:73011*
- Zlatin, A. N. (with Khripkov, A. A.) *An elastic half-plane that is weakened by a semi-infinite crack that is parallel to its boundary. (Russian) 91j:73014*
- Zeria, I. S. (with Movchan, A. B.; Nazarov, S. A.) *Application of tensors of elastic capacity, polarization and associated deformation. (Russian) 91k:73037*
- Zu, Cheng De *see* Yin, Chang Yan, (Not in MR)
- Zubov, L. M. *Energy contour integrals in the nonlinear theory of elastic plates and shells. 91b:73069*

Items listed otherwise than by author

Studies in elasticity and plasticity ★ *Исследования по упругости и пластичности. Вып. 16. (Russian) [Studies in elasticity and plasticity. No. 16] 91e:73004*

73M99 None of the above, but in this section (1985)

- Duxbury, P. M. (with Li, Y. S.) *Scaling theory and fluctuations of the strength of composites. (see 91b:00052)*
- Grigor'ev, E. A. *On the anisotropic resistance of bodies to rupture. (Russian) (see 91b:00025)*
- Li, Y. S. *see* Duxbury, P. M., (91b:00052)
- Lu, Wan Chang *A preliminary study of the calculation of grey strength. (Not in MR)*
- Luo, Zu Dao *see* Pan, Jing Zhe, (Not in MR)
- Pan, Jing Zhe (with Luo, Zu Dao) *A fuzzy model for the failure of composite structures. (Not in MR)*

73Nxx Geophysical solid mechanics (1985)[see also 86-XX]

Items with secondary classifications in 73Nxx

Moldenski, M. S. ★ *Общая теория упругих колебаний Земли. (Russian) [General theory of the elastic oscillations of the Earth] 91b:86021*

73N10 Earthquake problems (1985)

Sarafin, V. A. *The motion of the free boundary of a half-space in the propagation of an inclined rectilinear crack. (Not in MR)*

Items with secondary classifications in 73N10

Solov'ev, V. S. *On detecting nonlinear effects in seismology. (Russian) (Not in MR)*

73N20 Geophysical solid mechanics [see also 86A15, 86A17]

Items with secondary classifications in 73N20

- Adamchik, Yu. A. *Asymptotics of the norm square of a solution of a problem on natural torsional oscillations of a sphere that is filled with a radially inhomogeneous elastic medium. (Russian) 91m:86008*
- Anishkovich, E. M. (with Kondrashkov, V. V.) *Application of catastrophe theory to the study of the structural stability of seismic structures. (Russian) 91g:86007*
- Assous, F. (with Collino, F.) *A numerical method for the exploration of sensitivity: the case of the identification of the 2D stratified elastic medium. 91d:86008*
- Birger, B. I. *Stress propagation in the Earth's lithosphere. (Russian) 91k:86005*
- Borja, Ronaldo I. *One-step and linear multistep methods for nonlinear consolidation. 91m:76113*
- Bykovtsev, A. S. (with Kramarovskii, D. B.) *Unsteady supersonic motion of a complex discontinuity. 91c:73027*
- Collino, F. *see* Assous, F., 91d:86008
- Fainilla, I. S. (with Shapiro, S. A.) *Scattering of seismic waves and the fractal character of inhomogeneities of the lithosphere. (Russian) 91a:86008*
- Gel'din, S. V. *Boundary effects with integral continuation of wave fields. (Russian) 91a:86009*
- *The method of discontinuities in problems of geophysics and tomography. (Russian) 91a:86010*
- *see also Anishkovich, E. M., 91g:86007*
- Gerkovets, A. A. (with Kremlev, A. N.) *Unitarity and a recurrent method for calculating scattering matrices for plane waves on an elastic layered medium. (Russian) 91k:73041*
- Gorshkov, A. G. (with Tarlakovskii, D. V.) *Dynamical contact problems for a deformable half-space. (Russian. English summary) 91m:73068*
- Greenberg, J. M. (with Shyong, W.) *Surging glacial flows. 91k:86009*
- Grundy, R. E. *A mathematical model for rock blasting involving a degenerate nonlinear diffusion equation. 91e:86005*
- Ismail-Zade, A. T. *see* Naimark, B. M., 91b:76062
- It's, E. N. *Propagation of surface waves across a narrow layer between quarter spaces. (Russian) 91k:73027*
- Jiang, Yansheng ★ *Slope analysis using boundary elements. 91k:73091*
- Kamel, Aladin H. *see* Squazzero, P.; et al., 91g:73070
- Karaki, A. V. *Models of the fluid dynamics of the Earth's core with an inelastic skeleton. (Russian) 91d:86016*
- Kindelan, M. *see* Squazzero, P.; et al., 91g:73070
- Kondrashkov, V. V. *see* Anishkovich, E. M., 91g:86007
- Kramarovskii, D. B. *see* Bykovtsev, A. S., 91c:73027
- Kremlev, A. N. *see* Gerkovets, A. A., 91k:73041
- Naimark, B. M. (with Ismail-Zade, A. T.) *A problem on the gravitational instability of a geophysical medium with Maxwell rheology. (Russian) 91k:76062*
- O'Leary, P. M. *Response of a class of low-loss viscoelastic materials to an oscillating source. 91c:73015*
- Squazzero, P. (with Kindelan, M.; Kamel, Aladin H.) *Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. 91g:73070*
- Shapiro, S. A. *see* Fainilla, I. S., 91a:86008
- Shyong, W. *see* Greenberg, J. M., 91k:86009
- Sernev, V. B. (with Tolmachev, V. V.) *Efficient parameters of the propagation of elastic waves in a medium with discrete inclusions. (Russian) (Not in MR)*
- Tarlakovskii, D. V. *see* Gorshkov, A. G., 91m:73068
- Tolmachev, V. V. *see* Sernev, V. B., (Not in MR)
- Zvolinskii, N. V. *Frictional self-induced oscillations of an elastic layer. (Russian) 91k:73052*

73P05 Biomechanics of solids [see also 92C10]

- Colli, Pierluigi (with Comincioli, Valeriano; Naldi, Giovanni; Torelli, Alessandro) *A mathematical study of the plasticity effects in muscle contraction. 91k:73090*
- Comincioli, Valeriano *see* Colli, Pierluigi; et al., 91k:73090
- Manning, Gerald S. *Instability of a surface elastic line on an unnatural ramp. 91m:73062*
- Maxian, Tina A. *see* Spilker, Robert L., 91f:73031
- Naldi, Giovanni *see* Colli, Pierluigi; et al., 91k:73090
- Spilker, Robert L. (with Maxian, Tina A.) *A mixed-penalty finite element formulation of the linear biphasic theory for soft tissues. 91f:73031*
- Telega, J. J. *Piezoelectricity and homogenization: application to biomechanics. (see 91m:00030)*
- Torelli, Alessandro *see* Colli, Pierluigi; et al., 91k:73090

Items with secondary classifications in 73P05

- Bell, Jonathan (with Friedman, Avner; Lacey, Andrew A.) *On solutions to a quasi-linear diffusion problem from the study of soft tissue. 91k:35131*
- *see also* Holmes, Mark H., 91k:92011
- Cherruault, Y. *see* Tedjani, A.; et al., (Not in MR)
- Colli, Pierluigi (with Grasselli, Maurizio) *Mathematical study of a nonlinear transport-diffusion problem related to muscle contraction. 91f:35141*
- Dubitskii, A. L. (with Kerner, B. S.; Ostrov, V. V.) *Two types of spiking autositons. 91a:35145*
- Edisonov, I. *see* Petrov, V. G., (Not in MR)
- Friedman, Avner *see* Bell, Jonathan; et al., 91k:35131
- Grasselli, Maurizio *see* Colli, Pierluigi, 91f:35141

- Green, W. A. (with Shi, Jingyu) Plane deformations of membranes formed with elastic cords. 91c:73077
- Guilleux, A. see Tedjani, A.; et al., (Not in MR)
- Hart, T. N. (with Trainor, L. E. H.) The two-component model for the cytoskeleton in development. 91b:92007
- Holmes, Mark H. (with Bell, Jonathan) A model of a sensory mechanoreceptor derived from homogenization. 91k:92011
- Kerner, B. S. see Dubitskii, A. L.; et al., 91a:35145
- Lacey, Andrew A. see Bell, Jonathan; et al., 91k:35131
- Lee, George C. see Wu, Shi Gui, 91g:92010
- Liu, Zhao Rong see Xu, Shi Xiong; et al., 91b:76116
- Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012
- Onipor, V. V. see Dubitskii, A. L.; et al., 91a:35145
- Peckin, Charles S. see Sneyd, James, 91c:53006
- Petrov, V. G. (with Edissonov, L.) Nonlinear dynamic model with concentrated parameters of flow rate and pressure in an elastic porous reservoir of the type of aorta. (Not in MR)
- Mechano-mathematical model of cardiac fibre length-pressure pulsations. (Not in MR)
- Shi, Jingyu see Green, W. A., 91c:73077
- Sneyd, James (with Peckin, Charles S.) Computation of geodesic trajectories on tubular surfaces. 91c:53006
- Swaters, Gordon E. see Moodie, T. Bryant, 91d:76012
- Tedjani, A. (with Guilleux, A.; Cherruault, Y.) Modélisation d'un mouvement complexe: la marche du chat. (English summary) [Modelling a complex motion: the walk of a cat] (Not in MR)
- Trainor, L. E. H. see Hart, T. N., 91b:92007
- Winfree, Arthur T. Stable particle-like solutions to the nonlinear wave equations of three-dimensional excitable media. 91c:92009
- Wu, Shi Gui (with Lee, George C.) Theoretical and computational investigations of nonlinear wave propagations in arteries. I. A theoretical model of nonlinear pulse wave propagations. 91g:92010
- Xu, Shi Xiong (with Zhang, Xiao Dong²; Liu, Zhao Rong) Pulsatile blood flow through a viscoelasticity-tethered tube of mild varying cross-section. 91b:76116
- Zhang, Xiao Dong² see Xu, Shi Xiong; et al., 91b:76116

73Q05 Soil and rock mechanics [see also 86A60]

- de Boer, Reint (with Ehlers, W.) The development of the concept of effective stresses. 91c:73105
- Drăgușin, Lucia A special class of hypoelastic materials and soil liquefaction. 91d:73056
- Ehlers, W. see de Boer, Reint, 91c:73105
- Jiang, Yansheng ★ Slope analysis using boundary elements. 91k:73091
- Items with secondary classifications in 73Q05
- Beskos, D. E. see Manolis, G. D., 91c:73037
- Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113
- Bulavatskii, V. M. Numerical-analytic solutions of some two- and three-dimensional boundary value problems in the mechanics of condensable media. (Russian) (see 91g:00034)
- Collins, Ian F. The mathematical structure of the equations for quasi-static plane strain deformations of granular material. 91f:73015
- Kerner, G. K. Extremal estimates in the theory of freezing of filtering soils. 91b:76099
- Manolis, G. D. (with Beskos, D. E.) Boundary integral equation formulation for dynamic poroelasticity. 91c:73037
- Schaeffer, David G. Mathematical issues in the continuum formulation of slow granular flow. 91f:73014
- Instability and ill-posedness in the deformation of granular materials. 91c:73071
- see also Shearer, Michael, 91d:73031
- Shearer, Michael (with Schaeffer, David G.) The quasidynamic approximation in critical state plasticity. 91d:73031

73R05 Electromagnetic elasticity

- Abd-Alla, Abo-el-Nour N. (with Maugin, Gérard A.) Linear and nonlinear surface waves on magnetostrictive substrates. 91m:73063
- (with Maugin, Gérard A.) Nonlinear equations for thermoelastic magnetizable conductors. 91k:73092
- Atton, D. see Maugin, Gérard A., 91f:73032
- Bassiouny, E. see Maugin, Gérard A., 91c:73072
- Cheban, V. G. (with Fornya, G. A.) Solution of a problem of the propagation of an electroelastic wave in a piezoelectric ceramic rod. (Russian) (Not in MR)
- Dascalu, Cristian Thermoelastic magnetic rigid materials with memory. 91f:73053
- Singular surfaces in the linear theory of thermoelectromagnetic rigid materials. 91k:73093
- Fornya, G. A. see Cheban, V. G., (Not in MR)
- Hadjilov, L. M. see Valeva, V. V., (91f:73001)
- Kapelewski, J. (with Michalec, J.) Soliton-like saw in nonlinear isotropic piezoelectrics. (Not in MR)
- Karaliūnas, Romas J. Averaging equations of thermopiezoelectric composites. (Russian. English and Lithuanian summaries) 91f:73054
- Kublikov, V. L. see Vatul'yan, A. O., 91a:73059
- Lenz, J. see Majorkowski-Knap, K., 91f:73055
- Majorkowski-Knap, K. (with Lenz, J.) Nonexistence of Bleustein-Gulyaev-waves in nonclassical dielectric, centrosymmetric cubic crystals. 91f:73055
- Maugin, Gérard A. (with Bassiouny, E.) Continuum thermodynamics of electromechanical hysteresis in ceramics. 91f:73072
- (with Atton, D.) An asymptotic theory of thin piezoelectric plates. 91f:73032
- see also Sabir, M., 91c:73073; Abd-Alla, Abo-el-Nour N., 91k:73092 and 91m:73063

- Michalec, J. see Kapelewski, J., (Not in MR)
- Radovinski, A. L. General theorems of the electromechanics of thin elastic shells. 91d:73057
- Rogacheva, N. N. A refined zero-moment theory of electroelastic shells. (Russian) (Not in MR)
- Sabir, M. (with Maugin, Gérard A.) Microscopic foundations of the Barkhausen effect. (Russian and Polish summaries) 91c:73073
- Sharafutdinov, V. A. On the method of integrated photo-elasticity in the case of weak optic anisotropy. 91k:73094
- Solodiyak, M. T. A two-dimensional disconnected problem of magnetothermoelasticity for a magnetosolid layer. (Russian) (Not in MR)
- Valeva, V. V. (with Hadjilov, L. M.) On a plane problem of electroelastoplasticity. (see 91f:73001)
- Vatul'yan, A. O. (with Kublikov, V. L.) Boundary integral equations in electroelasticity. 91a:73059
- Welfe, Peter Bifurcation theory of a conducting rod subject to magnetic forces. 91f:73040
- Zharif, O. Yu. The method of eigenfunction expansion in problems of dynamic electroelasticity. 91d:73058
- Zhou, Shu Ang Material multipole mechanics of elastic dielectric composites. 91c:73106
- Items with secondary classifications in 73R05
- Dhaliwal, Ranjit S. see Saxena, Hirdeshwar S.; et al., 91k:73018
- Domasński, W. Surface and boundary waves for linear hyperbolic systems: applications to basic equations of electrodynamics and mechanics of continuum. (Russian and Polish summaries) 91c:35121
- Edelen, Dominic G. B. (with Lagoudas, Dimitris C.) ★ Gauge theory and defects in solids. 91f:73041
- Elgar, S. see Pezeshki, C.; et al., 91d:58167
- Fil'shtinskii, L. A. Periodic solutions in the theory of elasticity and electroelasticity for a cylinder in R^3 . (Russian) 91f:73012
- Foedick, Roger L. (with Hertog, Brian) Material symmetry and crystals. 91c:73002
- Hertog, Brian see Foedick, Roger L., 91c:73002
- Krishna, R. C. see Pezeshki, C.; et al., 91d:58167
- Lagoudas, Dimitris C. see Edelen, Dominic G. B., 91f:73041
- Larchenko, V. V. Bifurcation methods for analyzing the perturbation of a spectrum of critical pressures of shells of revolution and some of their applications. 91g:73037
- van Lieshout, Petrus Henricus ★ A variational approach to magneto-elastic buckling problems. 91h:73032
- Maugin, Gérard A. Sur la conservation de la pseudo-quantité de mouvement en mécanique et électrodynamique des milieux continus. (English summary) [On the balance law of pseudo-momentum in the mechanics and electrodynamics of continua] 91k:73022
- see also Pouget, Joël, 91c:73039
- Me'nik, V. N. Existence and uniqueness theorems for the generalized solution to one-dimensional nonstationary problems in coupled electroelasticity. (Russian) 91f:35264
- Nowacki, J. P. (with Trimarco, C.) Note on thermal inclusion in elastic dielectric material. (Italian summary) 91h:73066
- Pezeshki, C. (with Elgar, S.; Krishna, R. C.) Bispectral analysis of [systems] possessing chaotic motion. 91d:58167
- Pouget, Joël (with Maugin, Gérard A.) Nonlinear dynamics of oriented elastic solids. II. Propagation of solitons. 91c:73039
- Rokne, J. G. see Saxena, Hirdeshwar S.; et al., 91k:73018
- Saxena, Hirdeshwar S. (with Dhaliwal, Ranjit S.; Rokne, J. G.) Half-space problem in one-dimensional generalized magnetothermoelasticity. 91k:73018
- Stevenson, Randy C. Green's function for the Helmholtz equation of a scalar wave in an anisotropic halfspace. 91c:35076
- Telega, J. J. Piezoelectricity and homogenization: application to biomechanics. (see 91m:00030)
- Tiersten, Harry F. ★ A development of the equations of electromagnetism in material continua. 91e:78012
- Trimarco, C. see Nowacki, J. P., 91h:73066
- Welfe, Peter Bifurcation theory of an elastic conducting wire subject to magnetic forces. 91g:73041
- Asymptotic analysis of a rod with small bending stiffness. 91m:73044

73Sxx Micromechanics of solids (1985)

73S05 Dislocation theory (1985)

- Items with secondary classifications in 73S05
- Heise, U. Mechanical aspects in the formulation of elastostatic problems as boundary integral equations. (see 91b:00043)
- Saralika, V. A. The motion of the free boundary of a half-space in the propagation of an inclined rectilinear crack. (Not in MR)

73S10 Micromechanics of solids

- Badur, Janusz Singular gauge transformations in dynamics of dislocations and disclinations. 91f:73056
- Callias, Constantine (with Markenscoff, Xanthippi; Ni, Lu Qun) A singular asymptotic expansion for the field near a moving dislocation loop. 91b:73080
- Christensen, R. M. see Nikkel, D. J., Jr., 91f:73033
- Deng, K. M. (with He, Z. X.; Long, Qi Wei; Wang, K. L.; Yang, J. L.) A new gauge field theory of a continuum with dislocations and disclinations. 91m:73064
- Duan, Yi Shi (with Zhang, Sheng Li²) Topological structure of dislocation in the gauge field theory of dislocations and disclinations continuum. 91b:73081
- Duan, Zhu Ping (with Huang, Y. L.) A four-dimensional nonlinear geometric theory of defect continuum. 91f:73057

- Edelen, Dominic G. B. (with Lagoudas, Dimitris C.) ★ Gauge theory and defects in solids. 91f:73041
- Govindjee, Sanjay (with Simo, J. C.) A micro-mechanically based continuum damage model for carbon black-filled rubbers incorporating Mullins' effect. (Not in MR)
- He, Z. X. see Deng, K. M.; et al., 91m:73064
- Huang, Y. L. see Duan, Zhu Ping, 91j:73057
- Karyakin, M. I. see Zubov, L. M., 91h:73095
- Lagoudas, Dimitris C. see Edelen, Dominic G. B., 91f:73041
- Long, Qi Wei see Deng, K. M.; et al., 91m:73064
- Markenscoff, Xanthippi (with Ni, Lu Qun) The singular nature of the stress field near an arbitrarily moving dislocation loop. 91h:73082
- see also Callias, Constantine; et al., 91h:73080
- Michopoulos, J. G. (with Theocaris, Pericles S.) The directional instability of the running crack: a deterministic and stochastic approach. (Not in MR)
- Ni, Lu Qun see Callias, Constantine; et al., 91h:73080 and Markenscoff, Xanthippi, 91h:73082
- Nikkel, D. J., Jr. (with Christensen, R. M.) A micro-mechanical model for aligned fiber elastic-plastic composites. 91f:73033
- Ostoja-Starzewski, M. (with Wang, C.) Linear elasticity of planar Delaunay networks. II. Voigt and Reuss bounds, and modification for centroids. 91h:73050
- Povstenko, Yu. Z. Connection between nonmetric differential geometry and mathematical theory of imperfections. 91m:73065
- Recca, Roberto Mathematical study on a problem of dynamical theory of dislocations in solids. (Italian summary) 91f:73034
- Simo, J. C. see Govindjee, Sanjay, (Not in MR)
- Theocaris, Pericles S. see Michopoulos, J. G., (Not in MR)
- Wang, C. see Ostoja-Starzewski, M., 91h:73050
- Wang, K. L. see Deng, K. M.; et al., 91m:73064
- Yang, J. L. see Deng, K. M.; et al., 91m:73064
- Zhang, Sheng Li² see Duan, Yi Shi, 91h:73081
- Zubov, L. M. (with Karyakin, M. I.) Dislocations and disclinations in nonlinearly elastic bodies with moment stresses. 91h:73095
- Items with secondary classifications in 73S10
- Aifantis, E. C. see Dafalias, Y. F., 91f:73047 and Charalambakis, Nicolas; et al., 91m:73034
- Aleksandrov, Viktor Mikhailovich (with Kudish, I. I.) Asymptotic methods in the Griffith problem. 91a:73055
- Anthony, K.-H. Defect dynamics and Lagrangian thermodynamics of irreversible processes. (see 91m:00030)
- Axelrad, D. R. Stochastic transport theory for porous media. 91g:76087
- Belytschko, T. see Fish, J., 91a:73068
- Boletín, V. V. A unified model of fatigue and fracture with applications to structural reliability. 91g:73056
- Bruno, Oscar P. The effective conductivity of an infinitely interchangeable mixture. 91f:73003
- Bykovtsev, A. S. (with Kramarovskii, D. B.) Unsteady supersonic motion of a complex discontinuity. 91c:73027
- Capriz, Gianfranco (with Virga, Epifanio G.) Interactions in general continua with microstructure. 91c:73001
- Chan, H. C. M. The principle of asymptotic proportionality. 91c:73015
- Charalambakis, Nicolas (with Rigatos, A.; Aifantis, E. C.) The stabilizing role of higher-order strain gradients in nonlinear thermoviscoplasticity. 91m:73034
- Cherepanov, G. P. On the construction of fracture mechanics. 91k:73087
- Chertova, N. V. see Grinyan, Yu. V., (Not in MR)
- Cocks, A. C. F. (with Leckie, F. A.) Creep constitutive equations for damaged materials. (see 91c:73003)
- Dafalias, Y. F. (with Aifantis, E. C.) On the microscopic origin of the plastic spin. 91c:73047
- Epstein, Marcelo (with Maugin, Gérard A.) The energy-momentum tensor and material uniformity in finite elasticity. 91k:73064
- Eve, R. A. (with Göltp, T.; Reddy, B. D.) An internal variable finite-strain theory of plasticity within the framework of convex analysis. 91j:73034
- Fish, J. (with Belytschko, T.) A finite element with a unidirectionally enriched strain field for localization analysis. 91a:73068
- Galkov, A. L. (with Meshcheryakov, Yu. I.) Propagation of an elastoplastic wave in a material with dislocation kinetics of plastic deformation. 91h:73041
- Grinfel'd, M. A. Energy changes accompanying first-order phase transitions with small inherent deformation in solids. 91c:73018
- Grinyan, Yu. V. (with Chertova, N. V.) Gauge theory of plastic deformation in continuum mechanics. (Not in MR)
- Grioli, Giuseppe Phenomenological introduction to continua with microstructure. (Italian. English summary) 91k:73008
- Göltp, T. see Eve, R. A.; et al., 91j:73034
- James, Richard Dana Relation between microscopic and macroscopic properties in crystals undergoing phase transformation. 91c:73012
- Kramarovskii, D. B. see Bykovtsev, A. S., 91c:73027
- Kudish, I. I. see Aleksandrov, Viktor Mikhailovich, 91a:73055
- Leckie, F. A. see Cocks, A. C. F., (91c:73003)
- Maugin, Gérard A. see Epstein, Marcelo, 91k:73064
- Meshcheryakov, Yu. I. see Galkov, A. L., 91h:73041
- Nigmatullin, R. R. (with Sutugin, N. N.) Structure of inhomogeneous media within the random fractal model. 91h:82065
- Reddy, B. D. see Eve, R. A.; et al., 91j:73034
- Rigatos, A. see Charalambakis, Nicolas; et al., 91m:73034
- Stolz, Claude Sur les équations générales de la dynamique des milieux continus anélastiques. (English summary) [On the general equations of the dynamics of inelastic continua] 91d:73012
- Soo, Zhigang Singularities, interfaces and cracks in dissimilar anisotropic media. 91a:73058
- Sutugin, N. N. see Nigmatullin, R. R., 91h:82065

- Teodosiu, C. The plastic spin: microstructural origin and computational significance. (see 91f:73001)
- Verçin, A. Metric-torsion gauge theory of continuum line defects. 91c:73018
- Virga, Epifanio G. see Capriz, Gianfranco, 91c:73001
- Walgraef, D. Flow field effects on dynamical instabilities. 91c:76063
- Zanzotto, Giovanni Thermoelastic stability of multiple growth twins in quartz and general geobarothermometric implications. (Italian summary) 91h:73007
- Zhou, Shu Ang Material multipole mechanics of elastic dielectric composites. 91c:73106

73S99 Other micromechanics (1985)

Items with secondary classifications in 73S99

- Duxbury, P. M. (with Li, Y. S.) Scaling theory and fluctuations of the strength of composites. (see 91b:00052)
- Li, Y. S. see Duxbury, P. M., (91b:00052)

73T05 Contact and surface mechanics

- Abdu, Mekhamed Abdalla Akhmed see Mkhitarian, S. M., (Not in MR)
- Agabekyan, P. V. (with Grigoryan, E. Kh.) A contact problem for a semi-infinite plate that is reinforced by two finite stringers (straps). (Russian. Armenian summary) 91a:73060
- Amelishko, D. N. see Komarov, G. V.; et al., 91c:73074
- Andersson, Lars-Erik A quasistatic frictional problem with normal compliance. 91m:73066
- Arcot, F. M. see Darai, A., 91g:73058
- Asclone, Luigi (with Bruno, Domenico) On the static unilateral contact problem with friction of rectangular plates resting on an elastic half-space. (Italian summary) (Not in MR)
- (with Bilotti, Giancarlo) The dynamical problem of an elastic plate resting on a two-parameter foundation which does not react in tension. (Italian summary) 91j:73058
- Babich, S. Yu. (with Glukhov, Yu. P.; Chernushenko, I. I.) A contact problem for a prestressed half-plane in the case of a system of rigid dies taking into account friction forces. (Not in MR)
- Bercovier, Michel see Ross, Dvora, 91k:73099
- Bielinski, W. R. see Telega, J. J., 91a:73064
- Bilotti, Giancarlo see Asclone, Luigi, 91j:73058
- Bisrup, A. G. see Mossakowski, V. I.; et al., 91d:73059
- Borodachev, A. N. A class of exact solutions of a nonaxisymmetric contact problem for a nonhomogeneous elastic half space. 91f:73035
- Borodich, F. M. Hertz contact problems for an elastic anisotropic half-space with initial stresses. 91a:73061
- On solving contact problems in elasticity theory for an anisotropic body by the similarity method. 91f:73036
- Bruno, Domenico see Asclone, Luigi, (Not in MR)
- Burguera, M. (with Viano Rey, Juan M.) Approximation of stress in a problem of unilateral contact between two perfectly plastic bodies. (Spanish) (see 91j:00015)
- Burmistrov, A. N. A contact problem in elasticity theory for narrow domains taking wear into account. (Not in MR)
- Chen, Zhi Da see Shang, Yong, 91h:73051 and 91h:73052
- Chernozvov, S. A. see Nyashin, Yu. I., 91c:73077
- Chernushenko, I. I. see Babich, S. Yu.; et al., (Not in MR)
- Darai, A. (with Arcot, F. M.) A three-dimensional parabolic punch problem in linear elasticity. 91g:73058
- Dobordzhaldze, L. G. Solution of a contact problem with rigid profiles under finite deformations. (Russian. English and Georgian summaries) (Not in MR)
- On the contact of two nonlinearly elastic bodies. 91m:73067
- Dvoskin, L. M. see Komarov, G. V.; et al., 91c:73074
- Elliott, Charles M. (with Mikelic, Andro; Shillor, M.) Constrained anisotropic elastic materials in unilateral contact with or without friction. 91k:73096
- Frémond, Michel (with Truong Dinh Tien, J. M.) Contact with adhesion. (see 91g:00044)
- Galkov, B. A. (with Nikol'skii, Yu. V.) Nonlinear boundary equations of a class of one-sided boundary value problems in the mechanics of the contact of elastic bodies, and their numerical solution. (Russian) 91a:73062
- Glukhov, Yu. P. see Babich, S. Yu.; et al., (Not in MR)
- Gorukhov, A. G. (with Tarlakovskii, D. V.) Dynamical contact problems for a deformable half-space. (Russian. English summary) 91m:73068
- Grigoryan, E. Kh. see Agabekyan, P. V., 91a:73060
- Hanson, M. T. (with Keer, L. M.) A simplified analysis for an elastic quarter-space. 91j:73059
- Jarulek, Jiří Contact problems with given time-dependent friction force in linear viscoelasticity. 91k:73097
- Kantor, B. Ya. see Zamtya, V. V., 91a:73065
- Keer, L. M. see Hanson, M. T., 91j:73059
- Khladnev, A. M. Variational inequalities in contact problems. (see 91g:00043)
- Khladnaya, E. Yu. The existence of a solution in the problem of the contact of a nonelastic plate with a rigid stamp. (Russian) 91j:73060
- Klarbring, A. (with Mikelic, Andro; Shillor, M.) On friction problems with normal compliance. 91a:73063
- Komarov, G. V. (with Dvoskin, L. M.; Amelishko, D. N.) On an approach to the solution of a contact problem for a transversally isotropic half-space. (Russian) 91c:73074
- Li, Qing² (with Li, Wei) The Lemke algorithm for finding the complementary energy functional of elastic contact problems. (Chinese. English summary) 91k:73098
- Li, Wei see Li, Qing², 91k:73098
- L'vov, G. I. (with Odintsova, E. V.) A contact problem for creep of a shallow shell that is reinforced by a strap. (Russian) 91g:73059
- Manzhilov, A. V. Torsion of a growing cylinder by a rigid stamp. (Russian) 91j:73061
- Martins, J. A. C. (with Trabucho, Luis) A mathematical formulation for a generalized Hertz impact problem. 91c:73075
- (with Oden, J. Tinsley; Simões, F. M. F.) A study of static and kinetic friction. 91c:73076
- Mikelic, Andro see Klarbring, A.; et al., 91a:73063 and Elliott, Charles M.; et al., 91k:73096

- Misyura, V. A. A class of problems in elasticity theory with nonclassical boundary conditions. 91h:73083
- Mkhitarian, S. M. (with Abdu, Mokhamed Abdalla Akhmed) Comparison of different methods for solving an integral equation of a plane contact problem in elasticity theory. (Russian. Armenian summary) (Not in MR)
- Mossakovskaya, L. V. *see* Mossakovskii, V. I.; et al., 91d:73059
- Mossakovskii, V. I. (with Biskup, A. G.; Mossakovskaya, L. V.) Solution of a contact problem with friction and adhesion. 91d:73059
- Movchan, A. B. (with Nazarov, S. A.) A stressed-deformed state near the vertices of a three-dimensional absolutely rigid peak that penetrates an elastic body. 91d:73060
- Nakhmeis, E. L. (with Noller, B. M.) Dynamic contact problems for an orthotropic elastic half-plane and a composite plane. (Russian) (Not in MR)
- Nazarov, S. A. *see* Movchan, A. B., 91d:73060
- Nikitin, L. V. (with Tyurekhodzhev, A. N.) Wave propagation and vibration of elastic rods with interfacial frictional slip. 91f:73062
- Nikol'skii, Yu. V. *see* Galanov, B. A., 91a:73062
- Noor, Muhammad Aslam (with Tirmizi, S. I. A.) Numerical methods for a class of contact problems. 91m:73069
- Noller, B. M. Contact problems for a system of elastic half-planes. 91j:73063
- *see also* Nakhmeis, E. L., (Not in MR)
- Nyashin, Yu. I. (with Chernopozov, S. A.) On the formulation of a contact problem in elastoplasticity. 91c:73077
- Oden, J. Tinsley *see* Martins, J. A. C.; et al., 91c:73076
- Odintsova, E. V. *see* L'vov, G. I., 91g:73059
- Panagiotopoulos, P. D. Multivalued boundary integral equations for inequality problems. The nonconvex case. 91h:73042
- Pires, E. B. (with Trabucho, Luis) The steady sliding problem with nonlocal friction. 91f:73037
- Ross, Dvora (with Bercovier, Michel) Travelling waves in a cylinder rolling on a flat surface. (French summary) 91h:73099
- Shang, Yong (with Chen, Zhi Da) On large deformation unilateral contact problem with friction. I. Incremental variational equations. 91h:73051
- (with Chen, Zhi Da) On unilateral contact large deformation problem with friction. II. Nonlinear finite element technique and its application. 91h:73052
- Shiller, M. *see* Klarbring, A.; et al., 91a:73063 and Elliott, Charles M.; et al., 91k:73096
- Simões, F. M. F. *see* Martins, J. A. C.; et al., 91c:73076
- Sumbatyan, M. A. A plane contact problem for an elastic layer at high oscillation frequencies. 91c:73187
- Tang, Qi Existence theorems for contact with friction of two linear elastic bodies. 91g:73060
- Turakovsky, D. V. *see* Gershkov, A. G., 91m:73068
- Tyurekhodzhev, A. N. (with Bielski, W. R.) Variational formulation of the transient motion of a rolling cylinder undergoing plane finite deformations. 91a:73064
- Tirmizi, S. I. A. *see* Noor, Muhammad Aslam, 91m:73069
- Tomarelli, F. Contact problems in nonlinear elasticity. (see 91g:00043)
- Trabucho, Luis *see* Martins, J. A. C., 91c:73075 and Pires, E. B., 91f:73037
- Truong Dinh Tien, J. M. *see* Frémond, Michel, (91g:00044)
- Tyurekhodzhev, A. N. *see* Nikitin, L. V., 91f:73062
- Vialo Rey, Juan M. *see* Burguera, M., (91j:00015)
- Zamlya, V. V. (with Kantor, B. Ya.) Axisymmetric contact problems in the theory of shells. 91a:73065
- Items with secondary classifications in 73T05
- Abdu Mokhamed Abdalla Akhmed *see* Mkhitarian, S. M., (Not in MR)
- Alessandri, C. *see* Tralli, A.; et al., (91b:00043)
- Alliney, Stefano *see* Tralli, A.; et al., (91b:00043)
- Babeshko, V. A. *see* Obratsov, I. F., 91d:73026
- Baniotopoulos, C. C. Free boundary value problems arising in composite masonry structures. 91h:73031
- Borodich, F. M. Dynamic contact of a blunt body with an anisotropic linearly elastic medium. 91a:73014
- Brekelmans, W. A. M. *see* Starman, F. J. M.; et al., 91d:73010
- Burguera, M. (with Vialo Rey, Juan M.) Numerical method for stress approximation in unilateral contact between two perfect plastic bodies. (see 91f:73001)
- Fabrikant, V. I. ★ Applications of potential theory in mechanics. 91g:73013
- Fedorov, S. I. ★ О численных алгоритмах для одной модели двумерной геометрически нелинейной упругости. (Russian) [Numerical algorithms for a model of two-dimensional geometrically nonlinear elasticity] 91g:73016
- Gakwaya, A. A three-dimensional boundary element formulation for thermo-elastohydrodynamic contact problems. (see 91b:00043)
- Galanov, B. A. Solvability of boundary equations of one-sided boundary value problems of the mechanics of the contact of elastic bodies with coverings. (Russian) 91c:45012
- Gastacht, Walter On certain slowly convergent series occurring in plate contact problems. 91j:40002
- Haslinger, Jaroslav (with Neittaanmäki, Pekka) Optimal shape design in contact problems of elasticity. 91m:73056
- Ito, Kazufumi (with Kunisch, Karl) An augmented Lagrangian technique for variational inequalities. 91b:49011
- Janssen, J. D. *see* Starman, F. J. M.; et al., 91d:73010
- Jing, H. S. (with Shu, K.-C.) Exact stationary solutions of the random response of a single-degree-of-freedom vibro-impact system. 91c:70072
- Kachalovskaya, N. E. (with Ulitko, A. F.) Equilibrium of an elastic medium with ellipsoidal inhomogeneity with smooth contact on its boundary. (Russian) 91d:73014
- Kantor, B. Ya. ★ Контактные задачи нелинейной теории оболочек вращения. (Russian) [Contact problems in the nonlinear theory of shells of revolution] 91d:73043
- Khalifa, Ahmed Kamel *see* Noor, Muhammad Aslam, (Not in MR)
- Khludner, A. M. Optimal control of the form of a stamp in a contact problem for a plate. (Russian) 91k:73081
- Kim, Jong Uhn A one-dimensional dynamic contact problem in linear viscoelasticity. 91e:35182
- Klarbring, A. (with Mikelic, Andro; Shiller, M.) Duality applied to contact problems with friction. 91k:49015
- Koltsakis, E. K. *see* Panagiotopoulos, P. D., 91c:73027
- Kunisch, Karl *see* Ito, Kazufumi, 91b:49011
- Le Suan An' Painlevé paradoxes and the law of motion of mechanical systems with Coulomb friction. (Russian) 91m:70015
- Martins, J. A. C. (with Pires, E. B.) A class of impact problems in linear elasticity. (see 91g:00043)
- Mikelic, Andro *see* Klarbring, A.; et al., 91k:49015
- Mkhitarian, S. M. (with Abdu Mokhamed Abdalla Akhmed) Different methods for solving the Carleman integral equation. (Russian. Armenian summary) (Not in MR)
- Nagayev, R. F. (with Sarafyan, G. S.) Frictional self-excited oscillations in a system of piecewise-linear friction characteristic. 91m:70033
- Nazarov, S. A. Elliptic inequalities for thin elastic bodies with a small friction coefficient. 91h:35139
- Neittaanmäki, Pekka *see* Haslinger, Jaroslav, 91m:73056
- Nguyen Quoc Son Stabilité et bifurcation des systèmes dissipatifs standards à comportement indépendant du temps physique. (English summary) [Stability and bifurcation of time-independent standard dissipative systems] 91c:73014
- Noor, Muhammad Aslam (with Khalifa, Ahmed Kamel) Quintic splines method for solving contact problems. (Not in MR)
- Obratsov, I. F. (with Babeshko, V. A.) Some features of the oscillation of semibounded domains. 91d:73026
- Panagiotopoulos, P. D. (with Koltsakis, E. K.) The nonmonotone skin effects in plane elasticity problems obeying to linear elastic and subdifferential material laws. (German and Russian summaries) 91c:73027
- Pires, E. B. *see* Martins, J. A. C., (91g:00043)
- Sarafyan, G. S. *see* Nagayev, R. F., 91m:70033
- Sha, De Song (with Sun, Huan Chun; Xu, Shou Ze) Formulation of boundary element-linear complementary equation for the frictional elastic contact problems. (Not in MR)
- Shen, K.-C. *see* Jing, H. S., 91c:70072
- Shiller, M. *see* Klarbring, A.; et al., 91k:49015
- Sneddon, I. N. The problem of Boussinesq and Cerruti: a new approach to an old problem. 91g:73009
- Sokolowski, Jan Sensitivity analysis of contact problem with friction. (see 91g:00043)
- Soldatov, A. P. A Riemann contact problem. (Russian) (Not in MR)
- Starman, F. J. M. (with Brekelmans, W. A. M.; Janssen, J. D.) A thermodynamic theory for a restricted class of contact behaviour. 91d:73010
- Stronge, W. J. Rigid body collisions with friction. 91g:70005
- Sun, Huan Chun *see* Sha, De Song; et al., (Not in MR)
- Tralli, A. (with Alessandri, C.; Alliney, Stefano) On B.E.M. solutions of elastic frictionless contact problems. (see 91b:00043)
- Ulitko, A. F. *see* Kachalovskaya, N. E., 91d:73014
- Vasilievich, Yu. V. A contact problem of thermoelasticity for an orthotropic half-space. (Russian) 91j:73004
- Vialo Rey, Juan M. *see* Burguera, M., (91f:73001)
- Villaggio, Piero A mathematical theory of the guillotine. 91c:73062
- Xu, Shou Ze *see* Sha, De Song; et al., (Not in MR)
- Zviniakht, N. V. Frictional self-induced oscillations of an elastic layer. (Russian) 91k:73052

73U05 Thermomechanics of solids (1985)[see also 73B30]

- Items with secondary classifications in 73U05
- Fedechev, A. F. Asymptotics of eigenvalues in spectral problems in interconnected thermoelasticity. (Russian) (see 91b:00025)
- Gakwaya, A. A three-dimensional boundary element formulation for thermo-elastohydrodynamic contact problems. (see 91b:00043)
- Lipskii, L. A. *see* Lizarov, A. D., (Not in MR)
- Lizarov, A. D. (with Lipskii, L. A.) The spline-collocation method for studying free oscillations of a heat-sensitive annular plate. (Russian. English summary) (Not in MR)
- Solodiyak, M. T. A two-dimensional disconnected problem of magnetothermoelasticity for a magnetosolid layer. (Russian) (Not in MR)
- Talybly, L. Kh. Deformation of a viscoelastic cylinder fastened to a body under nonisothermic dynamic loading. (Not in MR)

73Vxx Basic methods in solid mechanics [see also 65--xx]

- Glowinski, Roland (with Le Tallec, Patrick) ★ Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91f:73038
- Le Tallec, Patrick *see* Glowinski, Roland, 91f:73038
- Items with secondary classifications in 73Vxx
- Bian, Heribert Numerical treatment of corner and crack singularities. 91b:65122 (Brebica, C. A.) *see* Boundary elements X, 91b:00041; 91b:00043 and 91b:00044 (Fomin, V. M.) *see* Numerical methods for solving problems of the theory of elasticity and plasticity, 91h:73001
- (Gruber, Ralf) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Körtzig, W. B.) *see* Computational mechanics of nonlinear response of shells, 91a:73001 (Oden, J. Tinsley) *see* Reliability in computational mechanics, 91g:00036 (Oñate, E.) *see* Computational mechanics of nonlinear response of shells, 91a:73001 (Pérlaux, Jacques) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Shaw, Richard Paul) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050

Vorovich, I. I. ★ Математические проблемы нелинейной теории пологих оболочек. (Russian) [Mathematical problems in the nonlinear theory of shallow shells] 91g:73050

Items listed otherwise than by author

All-Union Conference:

Numerical Methods for Solving Problems of the Theory of Elasticity and Plasticity
★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity] 91b:73001

Atlanta, GA ★ Computational mechanics of nonlinear response of shells. 91a:73001

Austin, TX ★ Reliability in computational mechanics. 91g:00036

Boundary elements X ★ Boundary elements X. Vol. 1. 91b:00041

— ★ Boundary elements X. Vol. 3. 91b:00043

— ★ Boundary elements X. Vol. 4. 91b:00044

Computational mechanics of nonlinear response of shells ★ Computational mechanics of nonlinear response of shells. 91a:73001

Conference:

Boundary Element Methods ★ Boundary elements X. Vol. 1. 91b:00041

— ★ Boundary elements X. Vol. 3. 91b:00043

— ★ Boundary elements X. Vol. 4. 91b:00044

Computational Mechanics of Nonlinear Response of Shells ★ Computational mechanics of nonlinear response of shells. 91a:73001

Krasnoyarsk ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity] 91b:73001

Lausanne ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

Numerical methods for solving problems of the theory of elasticity and plasticity

★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity] 91b:73001

Proceedings:

Symposium on Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

Reliability in computational mechanics ★ Reliability in computational mechanics. 91g:00036

Southampton ★ Boundary elements X. Vol. 1. 91b:00041

— ★ Boundary elements X. Vol. 3. 91b:00043

— ★ Boundary elements X. Vol. 4. 91b:00044

Symposium:

Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

Workshop:

Reliability in Computational Mechanics ★ Reliability in computational mechanics. 91g:00036

73V05 Finite element methods

Adjedj, Genevieve (with Aubry, Denis) Development of a hierarchical and adaptive finite element software. 91a:73066

Aubry, Denis see Adjedj, Genevieve, 91a:73066

Aufranc, Martial Numerical study of a junction between a three-dimensional elastic structure and a plate. 91b:73004

Babuska, Ivo (with Griebel, M.; Pitkäranta, J.) The problem of selecting the shape functions for a p -type finite element. 91a:73067

— (with Suri, Manli) The p - and h - p versions of the finite element method, an overview. 91b:73064

— The problem of modeling the elastomechanics in engineering. 91b:73065

Beagles, A. E. see Whiteman, J. R.; et al., 91c:73064

Belytschko, T. see Fish, J., 91a:73068 and La, Y. Y.; et al., 91b:73067

Bernadou, Michel (with Mato Eiroa, P.; Trounev, P.) Analysis of the error of a finite-element method of DKT type for linear thin-shell problems. (Spanish) (see 91j:00015)

Blömer, C. see Brues, D., 91c:73108

Brues, D. (with Blömer, C.) A multigrid method for a parameter dependent problem in solid mechanics. 91c:73108

Brebbia, C. A. see DeFigueiredo, T. G. B., (91f:00014)

Chenot, J. L. see Coupez, T., (91f:73001)

Chinosi, Claudia (with Sacchi Landriani, Giovanni; Scapolla, T.) A hierarchic family of conforming finite elements for the solution of plate bending problems. 91g:73061

Cohen, Harley (with Wang, Chao Chen) On a finite disk method for hyperelastic rods and shells. 91b:73053

Coupez, T. (with Chenot, J. L.) A new approach for enforcing the incompressibility in the finite element viscoplastic flow formulation. (see 91f:73001)

Déborde, O. see Wiegand, C., 91b:73056

DeFigueiredo, T. G. B. (with Brebbia, C. A.) A new hybrid displacement variational formulation of BEM for elastostatics. (see 91f:00014)

Deng, Qing Ping Error estimates for a nonconforming plate element. (Chinese. English summary) 91b:73100

— A nonconforming plate element and its applications. 91b:73101

Eisenberger, Moshe An exact element method. 91c:73078

Felippa, C. A. (with Millett, C.) Variational formulation of high-performance finite elements: parametrized variational principles. 91b:73065

Fish, J. (with Belytschko, T.) A finite element with a unidirectionally enriched strain field for localization analysis. 91a:73068

Franca, Leopoldo P. Analysis and finite element approximation of compressible and incompressible linear isotropic elasticity based upon a variational principle. 91c:73079

Gao, De Ping see Zhang, Yi Song; et al., 91c:73085

Ghanem, Roger G. (with Spanos, Pol-T. D.) ★ Stochastic finite elements: a spectral approach. 91b:73102

Goldmanov, A. I. Investigation of the phenomenon of the loss of accuracy in the calculation of thin plates by shear finite elements. 91c:73080

Goodsell, G. (with Whiteman, J. R.) Pointwise superconvergence of recovered gradients for piecewise linear finite element approximations to problems of planar linear elasticity. 91c:73081

Griebel, M. see Babuska, Ivo; et al., 91a:73067

Guedes, José Miranda (with Kikuchi, Noboru) Preprocessing and postprocessing for materials based on the homogenization method with adaptive finite element methods. 91b:73054

Guerreiro, João Nisan C. see Loula, Abimael F. D., 91a:73070

Guo, Tian Fu see Sal, Yun Kang, (Not in MR)

Harichandran, Ronald S. see Zhang, Yan, 91c:73112

Huang, Hoo-Cheng ★ Static and dynamic analyses of plates and shells. 91a:73069

Hughes, Thomas J. R. see Halbert, Gregory M., 91b:73044

Haidobro Rojo, J. A. (with Robles, Arturo) A numerical algorithm for an elastoplasticity problem with mixed hardening. (Spanish. English summary) 91b:73043

Halbert, Gregory M. (with Hughes, Thomas J. R.) Space-time finite element methods for second-order hyperbolic equations. 91b:73044

Ivanova, S. A. (with Mustafokulov, R.) An elastic problem on a three-dimensional grid. (Russian. Tajiki summary) (Not in MR)

Kikuchi, Noboru see Guedes, José Miranda, 91b:73054

Knaupp, Patrick M. On the invertibility of the isoparametric map. 91c:73082

Li, Zhi Ping The finite element incremental method for nonlinear elasticity. 91j:73066

Liu, Wing Kam see La, Y. Y.; et al., 91b:73067

Loula, Abimael F. D. (with Guerreiro, João Nisan C.) Finite element analysis of nonlinear creeping flows. 91a:73070

La, Y. Y. (with Belytschko, T.; Liu, Wing Kam) A variationally coupled FE-BE method for elasticity and fracture mechanics. 91j:73067

Mandel, Jan Iterative solvers by substructuring for the p -version finite element method. 91b:73062

Maslovskaya, L. V. Convergence of the semi-mixed finite element method for fundamental boundary value problems in the theory of shallow shells in weighted Sobolev spaces. (Russian) (see 91b:73001)

— Sharp estimates for the convergence of a semimixed finite element method for basic boundary value problems in the theory of shallow shells in polygonal domains. (Russian) 91b:73109

Mato Eiroa, P. see Bernadou, Michel; et al., (91j:00015)

Meissner, Udo (with Wübbeler, Hermann) A least square principle for the a posteriori computation of finite element approximation errors. 91j:73068

Millett, C. see Felippa, C. A., 91b:73065

Moran, B. (with Ortiz, Michael; Shih, C. F.) Formulation of implicit finite element methods for multiplicative finite deformation plasticity. 91c:73083

Mücke, R. Fehlerindikatoren für Finite-Element-Lösungen der linearen Elastizitätstheorie. [Error indicators for finite element solutions in linear elasticity theory] (see 91b:65012)

Mustafokulov, R. see Ivanova, S. A., (Not in MR)

Ortiz, Michael see Moran, B.; et al., 91c:73083

Pawlak, T. P. see Yumun, S. M.; et al., 91a:73072

Peisker, P. (with Rust, W.; Stein, Erwin) Iterative solution methods for plate bending problems: multigrid and preconditioned cg algorithm. 91b:73055

Perucchio, R. see Saxena, M., 91c:73110

Pitkäranta, J. see Babuska, Ivo; et al., 91a:73067

Rifai, M. S. see Simo, J. C., 91d:73062

Robles, Arturo see Haidobro Rojo, J. A., 91b:73043

Rolfes, R. see Stein, Erwin, 91b:73045

Rust, W. see Peisker, P.; et al., 91b:73055

Sacchi Landriani, Giovanni see Chinosi, Claudia; et al., 91g:73061

Saxena, M. (with Perucchio, R.) Element extraction for automatic meshing based on recursive spatial decompositions. 91c:73110

Scapolla, T. see Chinosi, Claudia; et al., 91g:73061

Shi, Zhong Ci On the accuracy of the quasi-conforming and generalized conforming finite elements. 91d:73061

— The space of shape functions of an energy-orthogonal plate element. (Chinese. English summary) (Not in MR)

Shih, C. F. see Moran, B.; et al., 91c:73083

Simo, J. C. (with Rifai, M. S.) A class of mixed assumed strain methods and the method of incompatible modes. 91d:73062

Spanos, Pol-T. D. see Ghanem, Roger G., 91b:73102

Stein, Erwin (with Rolfes, R.) Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity. 91b:73045

— see also Peisker, P.; et al., 91b:73055

Sal, Yun Kang (with Guo, Tian Fu) The analytical solutions based on the concept of finite element methods. (Not in MR)

Suri, Manli see Babuska, Ivo, 91b:73064

Szabo, Barna A. The use of a priori estimates in engineering computations. 91g:73063

— The p - and h - p versions of the finite element method in solid mechanics. 91g:73064

Tang, Yong Jin see Wang, Xu Cheng, (Not in MR)

Tao, Da Hong ★ Die Technik der reduzierten Basis bei nichtlinearen finiten Element-Berechnungen. (German) [The reduced basis technique in nonlinear finite element calculations] 91b:73111

Taylor, Robert Leroy see Weissman, Shmuel L., 91a:73071

Trounev, P. see Bernadou, Michel; et al., (91j:00015)

Wang, Chao Chen see Cohen, Harley, 91b:73053

Wang, Xu Cheng (with Tang, Yong Jin) A finite element analysis of temperature fields in general shells. (Chinese. English summary) (Not in MR)

Warby, M. K. see Whiteman, J. R.; et al., 91c:73084

Weissman, Shmuel L. (with Taylor, Robert Leroy) Resultant fields for mixed plate bending elements. 91a:73071

Wheeler, M. J. see Yumun, S. M.; et al., 91a:73072

Whiteman, J. R. (with Beagles, A. E.; Warby, M. K.) Theoretical and practical aspects of finite elements in the context of some problems of solid mechanics. 91c:73084

— see also Goodsell, G., 91c:73081

Wübbeler, Hermann see Meissner, Udo, 91j:73068

- Więckowski, Z. Dual finite element analysis for two-dimensional plasticity problems. (see 91f:73001)
- Wielgosz, C. (with Debordes, O.) Exact or quasi-exact numerical results for two-dimensional harmonic problems. 91h:73056
- Wu, Xiao Ping see Zhang, Yi Song et al., 91c:73085
- Xie, Zhi Cheng see Yin, Ya Jun, 91b:73086
- Yin, Ya Jun (with Xie, Zhi Cheng) Finite elements for plates and shells based on a piecewise generalized variational principle. (Chinese. English summary) 91b:73086
- Ymus, S. M. (with Pawlak, T. P.; Wheeler, M. J.) Application of the Zienkiewicz-Zhu error estimator for plate and shell analysis. 91a:73072
- Zhang, Yan (with Harichandran, Ronald S.) Implicit subdomain integration for dynamic analysis of large-scale structural systems. 91e:73112
- Zhang, Yi Song (with Gao, De Ping; Wu, Xiao Ping) The dynamic stiffness matrix of the finite annular plate element. 91c:73085
- Zhu, J. Z. see Zienkiewicz, O. C., 91g:73065
- Zienkiewicz, O. C. (with Zhu, J. Z.) The three R's of engineering analysis and error estimation and adaptivity. 91g:73065
- Items with secondary classifications in 73V05
- Arnold, Douglas N. (with Falk, Richard S.) A uniformly accurate finite element method for the Reissner-Mindlin plate. 91c:65068
- Mixed finite element methods for elliptic problems. 91h:65168
- Babuska, Ivo (with Guo, Ben Qi) The h - p version of the finite element method for problems with nonhomogeneous essential boundary condition. 91a:65227
- Banichuk, N. V. (with Bratu, A. S.) Optimization of the stability of elastic nonconservative systems. (Russian) 91k:73080
- Baniotopoulos, C. C. Free boundary value problems arising in composite masonry structures. 91k:73031
- Bazar, Y. (with Kritzig, W. B.) Introduction into finite-rotation shell theories and their operator formulation. 91b:73064
- Beitzel, Abraham I. ★ Variational and finite element methods. 91c:65001
- Belokhina, I. G. On an analysis of the difference solution of a crack problem. 91c:73067
- Bercovier, Michel see Ross, Dvora, 91k:73099
- Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Borkowski, A. (with Jendo, S.) ★ Structural optimization. Vol. 2. 91j:73046
- Bratu, A. S. see Banichuk, N. V., 91k:73080
- Bucco, D. (with Mazumdar, J.) Analysis of shallow shells by a combination of finite elements and contour methods. 91m:73052
- Bui, Hai Duong Symétrie, dualité et variables conjuguées dans les équations intégrales de frontière. (English summary) [Symmetry, duality and conjugate variables in boundary integral equations] 91g:73012
- Chen, Hong Sen A superconvergence estimate for mixed finite element methods for plate bending problems. (Chinese. English summary) 91e:73075
- Chen, Shao Chun see Shi, Zhong Ci, 91c:73078
- Chen, Zhi Da see Shang, Yong, 91h:73052
- Comi, Claudia (with Maier, Giulio) Extremum theorem and convergence criterion for an iterative solution to the finite-step problem in elastoplasticity with mixed nonlinear hardening. 91k:73046
- Cowar, Lawrence C. (with Dupont, Todd F.; Wheeler, Mary F.) A priori estimates for mixed finite element methods for the wave equation. 91m:65163
- Debruyne, G. see Nguyen Quoc Son; et al., 91k:73089
- Deg'Innocenti, S. (with Padovani, Cristina; Pasquini, G.) An improved numerical method to integrate the equation of motion in finite elastoplasticity problems. (see 91f:73001)
- Deineka, V. S. see Sergienko, I. V.; et al., 91j:73022
- Demkowicz, L. (with Oden, J. Tinsley; Rachowicz, W.; Hardy, O.) Toward a universal h - p adaptive finite element strategy. I. Constrained approximation and data structure. 91h:65123a
- see also Oden, J. Tinsley; et al., 91h:65123b and Rachowicz, W.; et al., 91h:65123c
- Deng, Qing Ping A remark on an incomplete biquadratic nonconforming plate element. (Chinese. English summary) 91m:65273
- Dupont, Todd F. see Cowar, Lawrence C.; et al., 91h:65163
- Durán, Ricardo G. Finite elements in $H(\text{curl})$ with applications to elasticity. 91g:65238
- Eve, R. A. (with Reddy, B. D.) Variational principles and finite element approximations to problems in finite-strain plasticity. (see 91f:73001)
- Falk, Richard S. (with Morley, Mary E.) Equivalence of finite element methods for problems in elasticity. 91b:65177
- see also Arnold, Douglas N., 91c:65068
- Fox, D. D. see Simo, J. C.; et al., 91d:73045 and 91h:73039
- Franca, Leopoldo P. On the superconvergence of the satisfying-Babuska-Brezzi method. 91g:65182
- Geymonat, Giuseppe (with Rosati, Mario Valerio; Valente, V.) Numerical analysis for version in elastic spherical caps equilibrium. 91c:73048
- Givoli, Dan (with Keller, Joseph B.) Nonreflecting boundary conditions for elastic waves. 91c:73034
- Gmür, Thomas E. C. A subspace forward iteration method for solving the quadratic eigenproblem associated with the FDE formulation. 91a:73077
- Guo, Ben Qi see Babuska, Ivo, 91a:65227
- Hardy, O. see Demkowicz, L.; et al., 91h:65123a
- Hinton, E. see Computational plasticity, 91f:73001
- Huang, Hong Ci see Mu, Mo, 91h:73115
- Hughes, P. C. see Sincarsin, G. B., 91c:70025
- Jendo, S. see Borkowski, A., 91j:73046
- Jensen, Søren S. (with Vogelius, Michael) Divergence stability in connection with the p -version of the finite element method. (French summary) 91m:65261
- Ji, Zhen Yi see Ye, Kai Yuan, 91m:65281
- Jung, Michael (with Langer, Ulrich; Semmler, Ulrich) Two-level hierarchically preconditioned conjugate gradient methods for solving linear elasticity finite element equations. 91f:65082
- Keller, Joseph B. see Givoli, Dan, 91c:73034
- Kleiber, Michael see Wriggers, P.; et al., (91f:73001)
- Kobozova, A. A. (with Maslovskaya, L. V.) Program realization of a generalized Cholesky algorithm for some mixed discrete analogues of elliptic boundary value problems. (Russian) 91h:65199
- Kock, Ellen (with Olson, Lorraine) Fluid-structure interaction analysis by the finite element method—a variational approach. 91m:73059
- Kritzig, W. B. see Bazar, Y., 91b:73064
- Křížek, Michal (with Neittaanmäki, Pekka) ★ Finite element approximation of variational problems and applications. 91h:65174
- Kuznetsov, Yuri Alekseevich (with Osorgin, G. K.) ★ Многосеточный метод для трехмерной задачи теории упругости. (Russian) [A multigrid method for a three-dimensional problem in elasticity theory] 91f:73047
- Langer, Ulrich see Jung, Michael; et al., 91f:65082
- Laurent-Gengoux, P. (with Neveu, D.) Calcul des singularités par la méthode des éléments finis. (English summary) [A finite-element computation of singularities] 91d:65173
- Le Tallec, Patrick (with Ravachol, Michel) Finite element approximation of viscoelastic progressively incompressible flows. 91f:65171
- ★ Numerical analysis of viscoelastic problems. 91h:73029
- Li, Long Yuan Theory of perturbation finite element analysis for solution of nonlinear buckling critical loads of structures. (Not in MR)
- The rationalism theory and its finite element analysis method of shell structures. (Not in MR)
- Li, Z. H. see Owen, D. R. J., 91b:73066
- Li, Zhi Ping Existence theorem and finite element method for static problems of a class of nonlinear hyperelastic shells. 91c:73056
- Lods, Véronique Une formulation mixte pour un assemblage de poutres adaptée à la résolution d'un problème d'optimisation. (English summary) [A mixed formulation for a model of junctions of beams adapted to the solution of an optimization problem] 91j:49033
- MacCamy, Richard C. see Bielak, J., 91m:65270
- Mahnken, Rolf (with Stein, Erwin) Adaptive time-step control in creep analysis. 91b:73087
- Maier, Giulio see Comi, Claudia, 91h:73046
- Mandel, Jan Two-level domain decomposition preconditioning for the p -version finite element method in three dimensions. 91d:65189
- Maslovskaya, L. V. see Kobozova, A. A., 91h:65199
- Matzenmiller, Anton ★ Ein rationales Lösungskonzept für geometrisch und physikalisch nichtlineare Strukturberechnungen. (German) [A rational solution concept for geometrically and physically nonlinear analysis of structures] 91f:73030
- Maxian, Tina A. see Spilker, Robert L., 91f:73031
- Mazumdar, J. see Bucco, D., 91m:73052
- Miehe, C. see Wriggers, P.; et al., (91f:73001)
- Morley, Mary E. see Falk, Richard S., 91b:65177
- Mu, Mo (with Huang, Hong Ci) Extrapolation acceleration and MG methods for calculating stress intensity factors on re-entrant domains. 91e:73115
- Neittaanmäki, Pekka see Křížek, Michal, 91h:65174
- Neveu, D. see Laurent-Gengoux, P., 91d:65173
- Nguyen Quoc Son (with Stolz, Claude; Debruyne, G.) Energy methods in fracture mechanics: stability, bifurcation and second variations. 91k:73089
- Oden, J. Tinsley (with Demkowicz, L.; Rachowicz, W.; Westermann, T. A.) Toward a universal h - p adaptive finite element strategy. II. A posteriori error estimation. 91h:65123b
- see also Demkowicz, L.; et al., 91h:65123a and Rachowicz, W.; et al., 91h:65123c
- Olson, Lorraine see Kock, Ellen, 91m:73059
- (Olate, E.) see Computational plasticity, 91f:73001
- Osorgin, G. K. see Kuznetsov, Yuri Alekseevich, 91f:73047
- Owen, D. R. J. (with Li, Z. H.) Refined finite element laminated models for the static and dynamic elasto-plastic analysis of anisotropic shells. 91h:73066
- see also Computational plasticity, 91f:73001
- Padovani, Cristina see Deg'Innocenti, S.; et al., (91f:73001)
- Pasquini, G. see Deg'Innocenti, S.; et al., (91f:73001)
- Pety, Maurice ★ Introduction to finite element vibration analysis. 91c:73054
- Pittora, Vladislav Shape optimization of an elastoplastic body for the model with strain-hardening. (Russian and Czech summaries) 91j:73050
- Rachowicz, W. (with Oden, J. Tinsley; Demkowicz, L.) Toward a universal h - p adaptive finite element strategy. III. Design of h - p meshes. 91h:65123c
- see also Demkowicz, L.; et al., 91h:65123a and Oden, J. Tinsley; et al., 91h:65123b
- Ravachol, Michel see Le Tallec, Patrick, 91f:65171
- Reddy, B. D. see Eve, R. A., (91f:73001)
- Reitman, M. I. see Borkowski, A., 91j:73046
- Repyakh, V. V. Error analysis of the method of approximate superelements. (Russian) 91m:65264
- Rifai, M. S. see Simo, J. C.; et al., 91d:73045 and 91h:73039
- Rosati, Mario Valerio see Geymonat, Giuseppe; et al., 91c:73048
- Ross, Dvora (with Bercovier, Michel) Traveling waves in a cylinder rolling on a flat surface. (French summary) 91k:73099
- Roubíček, Tomáš A finite-element approximation of Stefan problems in heterogeneous media. (see 91m:35004)
- Sacco, Elio Modelling and analysis of structure in no-tension materials. (Italian. English summary) 91k:73006
- (Save, M.) see Borkowski, A., 91j:73046
- Semmler, Ulrich see Jung, Michael; et al., 91f:65082
- Sergienko, I. V. (with Deineka, V. S.; Skopetskiy, V. V.) ★ Задачи о динамическом равновесии сред с тонкими малопрочными включениями, их собственных значениях и формах. (Russian) [Problems on the dynamic equilibrium of media with thin low-durability inclusions, their eigenvalues and forms] 91j:73022
- Sha, De Song (with Sun, Huan Chun; Zhang, Zhong Ding; Yin, Fu Xin) A variational inequality principle in solid mechanics and application in physically nonlinear problems. 91c:73042
- Shang, Yong (with Chen, Zhi Da) On unilateral contact large deformation problem with

- friction. II. Nonlinear finite element technique and its application. 91h:73052
- Shi, Zhong Ci (with Chen, Shao Chun) A direct analysis of the 9-parameter quasiconforming plate element. (Chinese. English summary) 91e:73078
- Simo, J. C. (with Fox, D. D.; Rifai, M. S.) On a stress resultant geometrically exact shell model. III. Computational aspects of the nonlinear theory. 91d:73045
- (with Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. IV. Variable thickness shells with through-the-thickness stretching. 91h:73039
- see also Wriggers, P.; et al., (91f:73001)
- Silarscu, G. B. (with Hughes, P. C.) Dynamics of an elastic multibody chain. A. Body motion equations. 91e:70025
- Skopetski, V. V. see Serpenko, I. V.; et al., 91f:73022
- Spilker, Robert L. (with Maxian, Tina A.) A mixed-penalty finite element formulation of the linear biphasic theory for soft tissues. 91f:73031
- Stein, Erwin see Mahnen, Rolf, 91h:73087
- Stolz, Claude see Nguyen Quoc Son; et al., 91h:73089
- Sun, Huan Chun see Sha, De Song; et al., 91c:73042
- Truwié, P. Sur la convergence des méthodes d'éléments finis nonconformes pour des problèmes linéaires de coques minces. (English summary) [On the convergence of nonconformal finite-element methods for linear thin-shell problems] 91g:65251
- Valente, V. see Geymonat, Giuseppe; et al., 91c:73048
- de Vicente, Santiago Harmonic analysis of parasitic waves on a first-order artificial boundary for acoustic-wave equations. (Spanish) (see 91j:00015)
- Vogelius, Michael see Jensen, Søren S., 91m:65261
- Watanabe, Osamu³ Variational principles of elastoplasticity in finite deformation. 91k:73065
- Westbrook, D. R. The obstacle problem for beams and plates. 91e:73119
- Westermann, T. A. see Oden, J. Tinsley; et al., 91h:65123b
- Wheeler, Mary F. see Cowar, Lawrence C.; et al., 91i:65163
- Wriggers, P. (with Miehe, C.; Kleiber, Michael; Simo, J. C.) On the coupled thermo-mechanical treatment of necking problems via finite-element-methods. (see 91f:73001)
- Wu, Jiong Yu On the limit case of the step-reduction method for calculating nonuniform beam with various sections. 91m:73045
- Xie, Zheng Hui The differential form and the convergence order of the finite element method for a fourth-order elliptic variational inequality. (Chinese. English summary) 91a:65235
- Ye, Kai Yuan (with Ji, Zhen Yi) Exact finite element method. 91m:65281
- Yin, Fu Xin see Sha, De Song; et al., 91c:73042
- Zhang, Zhong Ding see Sha, De Song; et al., 91c:73042
- Zhu, J. Z. (with Zienkiewicz, O. C.) Superconvergence recovery technique and a posteriori error estimators. 91i:65141
- Zienkiewicz, O. C. see Zhu, J. Z., 91i:65141

Items listed otherwise than by author

- Barcelona ★ Computational plasticity. Part I, II. 91f:73001
- Computational plasticity ★ Computational plasticity. Part I, II. 91f:73001
- Conference:
- Computational Plasticity ★ Computational plasticity. Part I, II. 91f:73001

73V10 Boundary element methods

- (Akhundzhanov, E. R.) see Hromadka, Theodore V., II, 91f:73039
- Banerjee, Prasanta K. see Israel, A. S. M., 91a:73075
- Deng, Wen Long see Sun, Bing Nan, 91k:73104
- Gray, L. J. (with Martha, Luiz F.; Ingrassia, A. R.) Hypersingular integrals in boundary element fracture analysis. 91a:73073
- Gründemann, Heinz Boundary element homogenization of composite materials. 91k:73103
- Guiggiani, Massimo Error indicators for adaptive mesh refinement in the boundary element method—a new approach. 91a:73074
- Hromadka, Theodore V., II (with Lai, Chintu) ★ Комплексный метод граничных элементов в инженерных задачах. (Russian) [The complex boundary element method in engineering problems] 91f:73039
- Ingrassia, A. R. see Gray, L. J.; et al., 91a:73073
- Israel, A. S. M. (with Banerjee, Prasanta K.) Advanced development of time-domain BEM for two-dimensional scalar wave propagation. 91a:73075
- (Kravchuk, A. S.) see Hromadka, Theodore V., II, 91f:73039
- Lai, Chintu see Hromadka, Theodore V., II, 91f:73039
- Martha, Luiz F. see Gray, L. J.; et al., 91a:73073
- Piltner, R. (with Taylor, Robert Leroy) A boundary element algorithm using compatible boundary displacements and tractions. 91a:73076
- Sha, De Song (with Sun, Huan Chun; Xu, Shou Ze) Formulation of boundary element-linear complementary equation for the frictional elastic contact problems. (Not in MR)
- Sun, Bing Nan (with Deng, Wen Long) A three-dimensional transversely isotropic boundary element method for analyzing unidirectional composite materials. (Chinese. English summary) 91k:73104
- Sun, Huan Chun see Sha, De Song; et al., (Not in MR)
- Taylor, Robert Leroy see Piltner, R., 91a:73076
- Xu, Shou Ze see Sha, De Song; et al., (Not in MR)

Items with secondary classifications in 73V10

- Babuska, Ivo (with Guo, Ben Qi; Stephan, E. P.) The h - p version of the boundary element method with geometric mesh on polygonal domains. 91h:65186
- Brebbia, C. A. On two different methods for transforming domain integrals to the boundary. (see 91f:00014)
- see also Advances in boundary elements, 91f:00014 and 91f:00016
- (Connor, J. J.) see Advances in boundary elements, 91f:00014 and 91f:00016
- Freeden, Willi (with Reuter, Richard) A constructive method for solving the displacement boundary-value problem of elastostatics by use of global basis systems. 91a:73013
- Guo, Ben Qi (with von Petersdorff, T.; Stephan, E. P.) An h - p version of BEM for plane mixed boundary value problems. (see 91f:00014)
- see also Babuska, Ivo; et al., 91h:65186

Hanson, M. T. (with Keer, L. M.) A simplified analysis for an elastic quarter-space. 91j:73059

- Jiang, Yansheng ★ Slope analysis using boundary elements. 91k:73091
- Jia, W. G. (with Zhang, You Qi; Zienkiewicz, O. C.) Application of the Trefftz method in plane elasticity problems. 91g:73069
- Keer, L. M. see Hanson, M. T., 91j:73059
- Kwon, Kil H. see Yoo, Yung M.; et al., 91j:73012
- Park, Chan W. see Yoo, Yung M.; et al., 91j:73012
- Parreira, Pedro Further developments on error indicators and estimators for adaptive hierarchical boundary elements. (see 91f:00014)
- von Petersdorff, T. see Guo, Ben Qi; et al., (91f:00014)
- Polizzotto, C. Errata: "An energy approach to the boundary element method. II. Elastic-plastic solids" [Comput. Methods Appl. Mech. Engrg. 69 (1988), no. 3, 263–276; 90b:65210]. 91g:65247
- Reuter, Richard see Freeden, Willi, 91a:73013
- Stephan, E. P. see Babuska, Ivo; et al., 91h:65186 and Guo, Ben Qi; et al., (91f:00014)
- Yoo, Yung M. (with Park, Chan W.; Kwon, Kil H.) A mathematical study of the boundary integral equation of linear elasticity. 91j:73012
- Zhang, You Qi see Jia, W. G.; et al., 91g:73069
- Zienkiewicz, O. C. see Jia, W. G.; et al., 91g:73069

Items listed otherwise than by author

- Advances in boundary elements ★ Advances in boundary elements. Vol. 1. 91f:00014
- ★ Advances in boundary elements. Vol. 3. 91f:00016
- Cambridge, MA ★ Advances in boundary elements. Vol. 1. 91f:00014
- ★ Advances in boundary elements. Vol. 3. 91f:00016
- Conference:
- Boundary Element Methods ★ Advances in boundary elements. Vol. 1. 91f:00014
- ★ Advances in boundary elements. Vol. 3. 91f:00016

73V15 Finite difference methods

- Bogdanov, S. Yu. see Lagovoi, P. Z.; et al., (91g:00031)
- Bugrov, A. N. The method of fictitious domains in problems of the linear theory of elasticity with nonhomogeneous boundary conditions of the first kind. (Russian) 91h:73057
- Comi, Claudia (with Maier, Giulio) Extremum theorem and convergence criterion for an iterative solution to the finite-step problem in elastoplasticity with mixed nonlinear hardening. 91i:73046
- Darmaev, T. G. (with Liselkin, V. D.) Application of special transformations for the numerical solution of a one-dimensional problem in the theory of elasticity and shells. (Russian) 91g:73066
- Galanis, M. P. Construction and investigation of a difference scheme for a one-dimensional dynamic coupled problem of thermoelasticity. (Russian) 91k:73105
- Garzaiz, Xabier (with Glimm, James; Guo, W.) Elastic deformation and slug flow as applications of front tracking. 91d:73063
- Glimm, James see Garzaiz, Xabier; et al., 91d:73063
- Guo, W. see Garzaiz, Xabier; et al., 91d:73063
- Kalinin, V. M. see Volksekhovskii, S. A., 91c:73086
- Khanor, R. K. Numerical study of a system of differential equations that describe the interaction of a two-dimensional wave with a cylindrical ring in the ground. (Russian) (see 91j:00012)
- Kholodov, A. S. see Petrov, I. B.; et al., 91h:73058
- Korobitsyna, Zh. L. (with Kuznetsov, S. B.) Numerical realization of the method of fictitious domains for an axisymmetric static problem in elasticity theory. (Russian) 91e:73113
- Kuznetsov, S. B. see Korobitsyna, Zh. L., 91e:73113
- Liselkin, V. D. see Darmaev, T. G., 91g:73066
- Lagovoi, P. Z. (with Meish, V. F.; Bogdanov, S. Yu.) Construction of difference schemes for equations of the motion of reinforced cylindrical shells with discontinuous coefficients. (Russian) (see 91g:00031)
- Mahnen, Rolf (with Stein, Erwin) Adaptive time-step control in creep analysis. 91h:73087
- Maier, Giulio see Comi, Claudia, 91i:73046
- Meish, V. F. see Lagovoi, P. Z.; et al., (91g:00031)
- Moskal'kov, M. N. (with Utebaev, D.) Investigation of efficient difference schemes for dynamic problems in elasticity theory in the class of nonsmooth solutions. (Russian) 91h:73088
- Nikiforovskii, S. V. Two-sided estimates for the eigenvalues of the Lamé operator in a difference variant. (Russian) 91e:73114
- Petrov, I. B. (with Tormasov, A. G.; Kholodov, A. S.) On the use of hybridized grid-characteristic schemes for the numerical solution of three-dimensional problems of the dynamics of deformable solid bodies. (Russian) 91h:73058
- Saifullin, E. G. see Strebkov, E. V., 91g:73068
- Steiden, T. Application of multigrid methods to mechanical and thermomechanical problems. (see 91k:65013)
- Stein, Erwin see Mahnen, Rolf, 91h:73087
- Strebkov, E. V. A difference scheme for the first boundary value problem in elasticity theory for bodies of revolution. (Russian) 91g:73067
- (with Saifullin, E. G.) The iterative method of variable directions for solving a problem in elasticity theory for bodies of revolution. (Russian) 91g:73068
- Tormasov, A. G. see Petrov, I. B.; et al., 91h:73058
- Utebaev, D. see Moskal'kov, M. N., 91h:73088
- Volksekhovskii, S. A. (with Kalinin, V. M.) An estimate for the rate of convergence in W_2^1 -norm of the projection-difference scheme for the first boundary value problem in elasticity theory in the anisotropic case. (Russian) 91c:73086

Items with secondary classifications in 73V15

- Abdella, K. see Tait, R. J.; et al., 91m:73029
- Afanasyev, S. B. (with Kozlov, E. A.) An algorithm for solving two-dimensional wave elastoplastic problems by the Godunov method. (Russian) 91h:73019

- Aslanyan, A. G. (with Gulin, A. V.; Karyshov, S. V.) Calculation of the eigenfrequencies and forms of the oscillations of a coil spring. (Russian. English summary) 91m:73075
- Belakhina, I. G. On an analysis of the difference solution of a crack problem. 91c:73067
- Bermes, I. M. (with Srubshchik, L. S.) Nonaxisymmetric loss of stability of shallow spherical shells. 91m:73051
- Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113
- Comi, Claudia (with Corigliano, Alberto; Maier, Giulio) Extremum properties of finite-step solutions in elastoplasticity with nonlinear mixed hardening. 91m:73031
- Corigliano, Alberto see Comi, Claudia; et al., 91m:73031
- Duncan, Dugald B. see Tait, R. J.; et al., 91m:73029
- Evseev, E. G. (with Semenov, A. Yu.) A method for the solution of equations of the dynamics of thin-walled shells, which is based on the separation of strongly oscillating components. 91c:73083
- Fedorov, S. I. * О численных алгоритмах для одной модели двумерной геометрически нелинейной упругости. (Russian) [Numerical algorithms for a model of two-dimensional geometrically nonlinear elasticity] 91g:73016
- Gulin, A. V. see Aslanyan, A. G.; et al., 91c:73075
- Higdon, Robert L. Radiation boundary conditions for elastic wave propagation. 91h:73017
- Huang, Zi Ping. A multi-grid algorithm for mixed problems with penalty. 91h:65179
- Ilin, V. P. (with Popov, V. N.) Convergence of a difference solution for a one-dimensional problem of crystallization of metal in a mold. (Russian) (Not in MR)
- Kamel, Aladin H. see Squazzero, P.; et al., 91g:73070
- Karyshov, S. V. see Aslanyan, A. G.; et al., 91h:73075
- Kindelan, M. see Squazzero, P.; et al., 91g:73070
- Kuopp, Patrick M. On the invertibility of the isoparametric map. 91c:73082
- Korobitsyn, V. A. The method of basis operators for constructing operator difference schemes. (Russian. English summary) 91h:65205
- The method of basis operators for constructing difference schemes in a curvilinear orthogonal coordinate system. (Russian. English summary) 91j:65182
- Kozlov, E. A. see Afanas'ev, S. B., 91h:73019
- Loktionov, B. A. (with Pleshkevich, A. L.) The difference method for solving the eikonal equation. (Russian) 91c:73045
- Maier, Giulio see Comi, Claudia; et al., 91m:73031
- Matysina, E. A. see Matysina, N. V., 91g:65282
- Matysina, N. V. (with Matysina, E. A.) On a constructive solution of a nonlinear boundary value problem. (Russian. English summary) 91c:65282
- Ortega, Tomás. Numerical investigation on the Beck's problem. (Spanish. English summary) (see 91j:00015)
- Petrov, I. B. (with Tormasov, A. G.) Numerical realization of three-dimensional shock problems. (Russian. English summary) 91g:65286
- Pittoria, Vladislav. Shape optimization of an elastoplastic body for the model with strain-hardening. (Russian and Czech summaries) 91j:73050
- Pleshkevich, A. L. see Loktionov, B. A., 91c:73045
- Popov, V. N. see Ilin, V. P., (Not in MR)
- Semenov, A. Yu. see Evseev, E. G., 91c:73083
- Squazzero, P. (with Kindelan, M.; Kamel, Aladin H.) Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. 91g:73070
- Srubshchik, L. S. see Bermes, I. M., 91m:73051
- Tait, R. J. (with Abdella, K.; Duncan, Dugald B.) Approximate Riemann solvers and waves on a nonlinear elastic string. 91m:73029
- Tormasov, A. G. see Petrov, I. B., 91g:65286

73V20 Other numerical methods

- Behraves, A. (with Kaveh, A.) Iterative solution of large structures. 91d:73064
- Brutyan, A. R. A method for accelerating computations. (Russian. Armenian summary) (see 91g:00028)
- Bulavitskii, V. M. Numerical-analytic solutions of some two- and three-dimensional boundary value problems in the mechanics of condensable media. (Russian) (see 91j:00031)
- Caddemi, S. (with Martin, John B.) Convergence of the Newton-Raphson algorithm in elastic-plastic incremental analysis. 91j:73069
- Freeden, Willi (with Gervens, Theo; Mason, John C.) A minimum norm interpolation method for determining the displacement field of a homogeneous isotropic elastic body from discrete data. 91d:73065
- Gervens, Theo see Freeden, Willi; et al., 91d:73065
- Gmuer, Thomas E. C. A subspace forward iteration method for solving the quadratic eigenproblem associated with the FDE formulation. 91a:73077
- Huang, Hong Ci see Ma, Mo, 91h:73115
- Jin, W. G. (with Zhang, You Qi; Zienkiewicz, O. C.) Application of the Trefftz method in plane elasticity problems. 91g:73069
- Kamel, Aladin H. see Squazzero, P.; et al., 91g:73070
- Kaveh, A. Algebraic graph theory for ordering. 91h:73059
- see also Behraves, A., 91d:73064
- Kindelan, M. see Squazzero, P.; et al., 91g:73070
- Kuznetsov, Yuri Alekseevich (with Osorgin, G. K.) * Многосеточный метод для трехмерной задачи теории упругости. (Russian) [A multigrid method for a three-dimensional problem in elasticity theory] 91h:73047
- Martin, John B. see Caddemi, S., 91j:73069
- Mason, John C. see Freeden, Willi; et al., 91d:73065
- Ma, Mo (with Huang, Hong Ci) Extrapolation acceleration and MG methods for calculating stress intensity factors on re-entrant domains. 91c:73115
- Osorgin, G. K. see Kuznetsov, Yuri Alekseevich, 91h:73047
- Squazzero, P. (with Kindelan, M.; Kamel, Aladin H.) Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. 91g:73070
- Zhang, You Qi see Jin, W. G.; et al., 91g:73069
- Zienkiewicz, O. C. see Jin, W. G.; et al., 91g:73069
- Items with secondary classifications in 73V20
- Antman, Stuart S. (with Szymczak, William G.) Nonlinear elastoplastic waves. 91j:73027
- Bakhtalov, N. S. * Решение первой краевой задачи для системы уравнений теории упругости методом фиктивных областей. (Russian) [Solution of the first boundary value problem for a system of equations in elasticity theory by the method of fictitious domains] 91d:65194
- Belytschko, T. see Lu, Y. Y.; et al., 91j:73067
- Bencheikh, L. Modified fundamental solutions for the scattering of elastic waves by a cavity. 91c:73033
- Bermes, I. M. (with Srubshchik, L. S.) Nonaxisymmetric loss of stability of shallow spherical shells. 91m:73051
- Bleistein, Norman (with Cohen, Jack K.) Stacking of narrow aperture common shot inversions. 91a:73017
- Bochkarev, V. V. (with Kirichenko, V. F.; Krysko, V. A.) Some iterative algorithms for solving equations of von Kármán type. (Russian) 91a:73035
- Braun, Simon G. see Ram, Yitsak M., 91h:73028
- Bucco, D. (with Mazumdar, J.) Analysis of shallow shells by a combination of finite elements and contour methods. 91m:73052
- Bugrov, A. N. The method of fictitious domains in problems of the linear theory of elasticity with nonhomogeneous boundary conditions of the first kind. (Russian) 91h:73057
- Burguera, M. (with Vialho Rey, Juan M.) Numerical method for stress approximation in unilateral contact between two perfect plastic bodies. (see 91f:73061)
- Calladine, C. R. (with Pellegrino, S.) First-order infinitesimal mechanisms. 91h:73037
- Chaikovskii, M. V. see Denisenko, N. V.; et al., 91h:73082
- Cohen, Jack K. see Bleistein, Norman, 91a:73017
- Damil, N. (with Potier-Ferry, Michel) A new method to compute perturbed bifurcations: application to the buckling of imperfect elastic structures. 91g:73036
- Denisenko, N. V. (with Lozhechnik, F. D.; Chaikovskii, M. V.) An algorithm for the numerical solution of integro-differential equations in aeroelasticity that takes into account singularities of the kernels of the integral operator. (Russian. English summary) 91h:73082
- Deodatis, George see Shinozuka, Masanobu, 91m:73070
- Esfandiari, Ramin S. see Udwadia, Firdaus E., 91c:70003
- Fox, D. D. see Simo, J. C.; et al., 91h:73068
- Freeden, Willi (with Reuter, Richard) A constructive method for solving the displacement boundary-value problem of elastostatics by use of global basis systems. 91a:73013
- Funaro, Daniele (with Heinrichs, Wilhelm) Some results about the pseudospectral approximation of one-dimensional fourth-order problems. 91m:65206
- Galanov, B. A. (with Niko'skii, Yu. V.) Nonlinear boundary equations of a class of one-sided boundary value problems in the mechanics of the contact of elastic bodies, and their numerical solution. (Russian) 91a:73062
- Geymonat, Giuseppe (with Rosati, Mario Valerio; Valente, V.) Numerical analysis for eversion in elastic spherical caps equilibrium. 91c:73048
- Givoli, Dan (with Keller, Joseph B.) Nonreflecting boundary conditions for elastic waves. 91c:73034
- Govindjee, Sanjay see Simo, J. C., 91m:73038
- Gulin, A. V. see Ridel, V. V., 91h:73029
- Guo, Yue Hua see Padovan, Joe, 91c:73047
- Harichandran, Ronald S. see Zhang, Yan, 91c:73112
- Heinrichs, Wilhelm see Funaro, Daniele, 91m:65206
- Hughes, P. C. (with Sincarsin, G. B.) Dynamics of an elastic multibody chain. B. Global dynamics. 91e:70026
- Ionescu, Ioan R. Error estimates of an Euler method for a quasistatic elastic-visco-plastic problem. (German and Russian summaries) 91c:73044
- Kamenetskii, D. S. (with Ryaben'kii, V. S.) Solution of boundary value problems for the Laplace equation in a domain with a cut by the method of difference potentials. (Russian) 91j:65172
- Kantor, B. Ya. * Контактные задачи нелинейной теории оболочек вращения. (Russian) [Contact problems in the nonlinear theory of shells of revolution] 91d:73043
- Keller, Joseph B. see Givoli, Dan, 91c:73034
- Khalifa, Ahmed Kamel see Noor, Muhammad Aslam, (Not in MR)
- Kirichenko, V. F. see Bochkarev, V. V.; et al., 91h:73035
- Korobitsyna, Zh. L. (with Kuznetsov, S. B.) Numerical realization of the method of fictitious domains for an axisymmetric static problem in elasticity theory. (Russian) 91c:73113
- Koshur, V. D. (with Nemirovskii, Yu. V.) * Континуальные и дискретные модели динамического деформирования элементов конструкций. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91c:73098
- Krysko, V. A. see Bochkarev, V. V.; et al., 91h:73035
- Kuznetsov, S. B. see Korobitsyna, Zh. L., 91c:73113
- Ladopoulos, E. G. see Zisis, V. A., 91h:73011
- Le Tallec, Patrick * Numerical analysis of viscoelastic problems. 91h:73029
- Leung, A. Y. T. Nonconservative dynamic substructures. 91c:73081
- Lin'kov, A. M. (with Mogilevskaya, S. G.) Hypersingular integrals in two-dimensional problems in elasticity theory. 91d:73025
- Lin, Wing Kam see Lu, Y. Y.; et al., 91j:73067
- Lozhechnik, F. D. see Denisenko, N. V.; et al., 91h:73082
- Lu, Y. Y. (with Belytschko, T.; Lin, Wing Kam) A variationally coupled FE-BE method for elasticity and fracture mechanics. 91j:73067
- Mainardi, Francesco (with Vitali, Giuliano) Applications of the method of steepest descents in wave-propagation problems. 91h:73017
- Matzenmiller, Anton * Ein rationales Lösungskonzept für geometrisch und physikalisch nichtlineare Strukturberechnungen. (German) [A rational solution concept for geometrically and physically nonlinear analysis of structures] 91f:73030
- Mazumdar, J. see Bucco, D., 91m:73052
- Mogilevskaya, S. G. see Lin'kov, A. M., 91c:73025
- Monegato, Giovanni (with Prössdorf, Siegfried) On the numerical treatment of an integral equation arising from a cruciform crack problem. 91h:65210
- Natroshtvili, D. G. (with Svanadze, M. Zh.) Potential methods in the problems of linear theory of elastic mixtures. 91h:73024

- Nemirovskii, Yu. V. *see* Koshur, V. D., 91e:73098
- Newland, D. E. *★* Mechanical vibration analysis and computation. 91a:73044
- Nikol'skii, Yu. V. *see* Galanov, B. A., 91a:73062
- Noor, Muhammad Aslam (with Khalifa, Ahmed Kamel) Quintic splines method for solving contact problems. (Not in MR)
- Nyashin, Yu. I. (with Trusov, P. V.) Residual stresses: calculation and control. (Russian. English summary) 91g:73018
- Oakes, Alexandria Testing convergence schemes on the solution of two-dimensional boundary value problems in elasticity. 91d:73017
- Ostoja-Starzewski, M. (with Wang, C.) Linear elasticity of planar Delaunay networks. II. Voigt and Reuss bounds, and modification for centroids. 91h:73050
- Padavan, Joe (with Guo, Yue Hua) Analysis of structural response to large scale nondeterministic variations. 91d:73047
- Palazzo, A. N. *see* Shih, K.-G., 91a:73047
- Peisker, P. (with Rust, W.; Stein, Erwin) Iterative solution methods for plate bending problems: multigrid and preconditioned cg algorithm. 91h:73055
- Pellegrino, S. *see* Calladine, C. R., 91h:73037
- Pitman, E. Bruce Computations of granular flow in a hopper. 91f:73017
- Potier-Ferry, Michel *see* Damlé, N., 91g:73036
- Présdorf, Siegfried *see* Monagato, Giovanni, 91h:65210
- Pustovoi, K. S. (with Troianovskii, I. E.; Shardakov, I. N.) An approach to solving three-dimensional dynamical problems in elasticity and viscoelasticity theory for bodies of complex form. 91d:73027
- Ram, Yitshak M. (with Braun, Simon G.) Upper and lower bounds for the natural frequencies of modified structures based on truncated modal testing results. 91h:73028
- Reuter, Richard *see* Freuden, Will, 91a:73013
- Ridér, V. V. (with Gulín, B. V.) *★* Динамика мягких оболочек. (Russian) [The dynamics of soft shells] 91f:73029
- Rifai, M. S. *see* Simo, J. C.; et al., 91h:73068
- Rosati, Mario Valerio *see* Geymonat, Giuseppe; et al., 91c:73048
- Rust, W. *see* Peisker, P.; et al., 91h:73055
- Ryaben'kii, V. S. *see* Kamenetskii, D. S., 91f:65172
- Schäfer, Michael Parallel algorithms for the numerical solution of incompressible finite elasticity problems. 91m:65278
- Schiavone, A. (with Valente, V.) Numerical solution of a turning point problem in elasticity. 91d:73037
- Schwab, Christoph *see* Xanthis, Leonidas S., 91m:65290
- Shardakov, I. N. *see* Pustovoi, K. S.; et al., 91d:73027
- Shih, K.-G. (with Palazzo, A. N.) Formulation of boundary integral equations for linear elastic shells. 91h:73047
- Shinohara, Masanobu (with Deodatis, George) Simulation of stochastic processes by spectral representation. 91m:73070
- Simo, J. C. (with Fox, D. D.; Rifai, M. S.) Formulation and computational aspects of a stress resultant geometrically exact shell model. 91h:73068
- (with Wong, K. K.) Unconditionally stable algorithms for rigid body dynamics that exactly preserve energy and momentum. 91f:70001
- (with Govindjee, Sanjay) Nonlinear B-stability and symmetry preserving return mapping algorithms for plasticity and viscoplasticity. 91m:73038
- Sincarsin, G. B. *see* Hughes, P. L., 91e:70026
- Strubshchik, L. S. *see* Bermus, I. M., 91m:73051
- Stein, Erwin *see* Peisker, P.; et al., 91h:73055
- Sukhoter, M. V. On the study of the bending of a rectangular Reissner plate that is fixed along the contour. (Russian. English summary) 91h:73036
- Svanadze, M. Zh. *see* Natroshvili, D. G., 91h:73024
- Szymczak, William G. *see* Auzan, Stuart S., 91f:73027
- Tao, Da Hong *★* Die Technik der reduzierten Basis bei nichtlinearen finiten Element-Berechnungen. (German) [The reduced basis technique in nonlinear finite element calculations] 91e:73111
- Troianovskii, I. E. *see* Pustovoi, K. S.; et al., 91d:73027
- Trusov, P. V. *see* Nyashin, Yu. I., 91g:73018
- Udravla, Firdaus E. (with Efendiari, Ramin S.) Nonclassically damped dynamic systems: an iterative approach. 91e:70003
- Valente, V. *see* Geymonat, Giuseppe; et al., 91c:73048 and Schiavone, A., 91d:73037
- Vialo Rey, Juan M. *see* Burgers, M., (91f:73001)
- Vitali, Giuliano *see* Mainardi, Francesco, 91h:73017
- Wang, C. *see* Ostoja-Starzewski, M., 91h:73050
- Wang, Yin Bang A method to solve boundary integral equations for the Griffith crack problem under asymmetric loadings. (Chinese. English summary) (Not in MR)
- Wegner, T. An analytical method for calculation of integrals appearing in approximate solutions of deformable body mechanics. 91j:33001
- Wong, K. K. *see* Simo, J. C., 91h:73068
- Xanthis, Leonidas S. (with Schwab, Christoph) The method of arbitrary lines. (French summary) 91m:65290
- Zhang, Yan (with Harichandran, Ronald S.) Implicit subdomain integration for dynamic analysis of large-scale structural systems. 91c:73112
- Zheng, Xiao Jing (with Zhou, You He) On convergence of interpolated-iterative method of geometrically nonlinear equations of circular plates. 91h:73026
- Zhou, You He *see* Zheng, Xiao Jing, 91h:73026
- Zisls, V. A. (with Ladopoulos, E. G.) Singular integral approximations in Hilbert spaces for elastic stress analysis of a circular ring with curvilinear cracks. 91h:73011
- 73V25 Variational methods**
- Burgers, M. (with Vialo Rey, Juan M.) Numerical method for stress approximation in unilateral contact between two perfect plastic bodies. (see 91f:73001)
- Chen, G. Unconstrained variational statements for initial and boundary value problems via the principle of total virtual action. 91h:73060
- Gao, Yang On the extreme variational principles for nonlinear elastic plates. 91c:73116
- Hardt, Robert (with Kinderlehrer, David) Variational principles with linear growth. 91e:73117
- Ha, Hai Chang Necessary and sufficient conditions for correct use of generalized variational principles of elasticity in approximate solutions. 91e:73118
- Kalinichenko, V. I. (with Koshchii, V. F.) Dual methods in elasticity theory. (Russian) 91h:73106
- Khalifa, Ahmed Kamel *see* Noor, Muhammad Aslam, (Not in MR)
- Kinderlehrer, David *see* Hardt, Robert, 91e:73117
- Koshchii, V. F. *see* Kalinichenko, V. I., 91h:73106
- Kovalev, L. A. A variational solution of an elastoplastic problem for an infinite plane with a hole. (Russian) (see 91k:00025)
- Ladevèze, Pierre La méthode à grand incrément de temps pour l'analyse de structures à comportement non linéaire décrit par variables internes. (English summary) [The large-time-increment method for the analysis of structures with nonlinear behavior described by internal variables] 91h:73089
- Mestrandi, Lando On a singular system of differential equations arising in variational methods. 91h:73061
- Noor, Muhammad Aslam (with Khalifa, Ahmed Kamel) Quintic splines method for solving contact problems. (Not in MR)
- Panagiotopoulos, P. D. Semicoverge hemivariational inequalities. On the delamination of composite plates. 91a:73078
- Vialo Rey, Juan M. *see* Burgers, M., (91f:73001)
- Westbrook, D. R. The obstacle problem for beams and plates. 91e:73119
- Zhong, Wan Xie (with Zhong, Xiang-Xiang) Computational structural mechanics. Optimal control and semi-analytical method for PDE. 91h:73107
- Zhong, Xiang-Xiang *see* Zhong, Wan Xie, 91h:73107
- Items with secondary classifications in 73V25**
- Abbond, Najib N. *see* Pinsky, Peter M., 91m:76106
- Altan, S. Burhanettin Some theorems in nonlocal thermoelasticity. 91c:73007
- Andersson, Lars-Erik A quasistatic frictional problem with normal compliance. 91m:73066
- Asclone, Luigi (with Bilotti, Giancarlo) The dynamical problem of an elastic plate resting on a two-parameter foundation which does not react in tension. (Italian summary) 91j:73058
- Attia, M. (with Benbourhim, M. N.) Spline elastic manifolds. 91e:65127
- Avellaneda, Marco (with Milton, Graeme W.) Optimal bounds on the effective bulk modulus of polycrystals. 91c:73088
- Axelrad, E. L. (with Emmerling, F. A.) On variational principles and consistency of elasticity relations of thin shells. 91a:73046
- Babus, Janusz Extension of many-time Hamiltonian formalism to the theory of deformable bodies. 91h:73019
- Basilestopoulos, C. C. Free boundary value problems arising in composite masonry structures. 91h:73031
- Belov, P. A. *see* Obratsov, I. F.; et al., 91m:73014
- Beltzer, Abraham I. *★* Variational and finite element methods. 91e:65001
- Belytschko, T. *see* Lu, Y. Y.; et al., 91j:73067
- Benallal, Ahmed (with Geymonat, Giuseppe) Sur le problème en vitesses pour les solides élastoviscoplastiques endommageables en présence de zone rompue. (English summary) [On the rate boundary value problem for elastic-viscoplastic damageable solids containing a ruptured zone] 91e:73099
- Benbourhim, M. N. *see* Attia, M., 91e:65127
- Bercovier, Michel *see* Ros, Dora, 91h:73099
- Bilotti, Giancarlo *see* Asclone, Luigi, 91j:73058
- Blömer, C. *see* Braess, D., 91e:73108
- Braess, D. (with Blömer, C.) A multigrid method for a parameter dependent problem in solid mechanics. 91e:73108
- Brebbia, C. A. *see* DeFigueiredo, T. G. B., (91f:00014)
- Burgers, M. (with Vialo Rey, Juan M.) Approximation of stress in a problem of unilateral contact between two perfectly plastic bodies. (Spanish) (see 91j:00015)
- Chacha, Djamel Comportement macroscopique de plaques hétérogènes fissurées localement périodiques. (English summary) [Macroscopic behavior of heterogeneous and fissured locally periodic plates] 91m:73047
- Chen, Yi-Chao On strong ellipticity and the Legendre-Hadamard condition. 91m:73021
- Chen, Zhi Da *see* Shang, Yong, 91h:73051 and 91h:73052
- Clarlet, Philippe G. A new class of variational problems arising in the modeling of elastic multi-structures. 91f:65166
- Claessens, A. (with Destuynder, Philippe) A bending and buckling model for elastic-plastic plates. 91h:73025
- Cimmelli, Vito Antonio (with Starita, Giulio) Nonlocal variational theories for systems with an interface. 91g:73003
- Coll, Pierluigi (with Comincioli, Valeriano; Naldi, Giovanni; Torelli, Alessandro) A mathematical study of the plasticity effects in muscle contraction. 91h:73090
- Comincioli, Valeriano *see* Coll, Pierluigi; et al., 91h:73090
- DeFigueiredo, T. G. B. (with Brebbia, C. A.) A new hybrid displacement variational formulation of BEM for elastostatics. (see 91f:00014)
- Dems, K. (with Mróz, Z.) Shape sensitivity analysis and optimal design of physically nonlinear plates. (Russian and Polish summaries) 91h:73032
- Deng, Qing Ping A class of elastoplastic problems with the second boundary value condition. (Chinese) 91d:49014
- A nonconforming plate element and its applications. 91h:73101
- Destuynder, Philippe *see* Claessens, A., 91h:73025
- Elliot, Charles M. (with Mikelic, Andro; Shiller, M.) Constrained anisotropic elastic materials in unilateral contact with or without friction. 91h:73096
- Elparovskii, A. N. *see* Obratsov, I. F.; et al., 91m:73014
- Emmerling, F. A. *see* Axelrad, E. L., 91a:73046
- Erikhman, F. M. *see* Kerchman, V. I., 91h:73028
- Ere, R. A. (with Reddy, B. D.) Variational principles and finite element approximations to problems in finite-strain plasticity. (see 91f:73001)
- Fel'do, R. A. (with Zouain, N.) A contribution to structural plasticity by optimization techniques. I. Potential functionals for rates and increments of stress and strain. (see 91f:73001)
- *see also* Zouain, N.; et al., (91f:73001)

- Felippa, C. A. (with Miliello, C.) Variational formulation of high-performance finite elements: parametrized variational principles. 91h:73085
- Fosdick, Roger L. (with Hertog, Brian) The Maxwell relation and Eshelby's conservation law for minimizers in elasticity theory. 91e:73023
- Fox, D. D. *see* Simo, J. C.; et al., 91h:73039
- Franca, Leopoldo P. Analysis and finite element approximation of compressible and incompressible linear isotropic elasticity based upon a variational principle. 91e:73079
- Galka, A. (with Telega, J. J.) The complementary energy principle for a model of shells with an independent rotation vector. 91j:73044
- Gao, Yang (with Onat, E. T.) Rate variational extremum principles for finite elastoplasticity. 91f:73022
- (with Zhang, You Qi) On the extremum complementary energy principles for nonlinear elastic shells. 91e:73055
- On the extremum potential energy principle for nonlinear elastic shells. 91e:73084
- Extended bounding theorems for nonlinear limit analysis. 91j:73035
- Geymonat, Giuseppe *see* Bonaldi, Ahmed, 91e:73099
- Grigolyuk, E. I. (with Kulikov, G. M.) An analytic method for solving nonlinear problems in the theory of multilayered anisotropic plates. 91k:73070
- van Groesen, E. (with Verstappen, R.) A dynamic variation principle for elastic-fluid contacts, applied to elastohydrodynamic lubrication theory. 91g:73054
- Gao, You Zhong Inequality problems in solid mechanics. (Chinese) 91d:35089
- Guyader, J.-L. Uncertainty bounds for energy of imperfectly described vibration fields. Application to the validity of truncated modal expansion. 91d:73025
- Haslinger, Jaroslav (with Neittaanmäki, Pekka) Optimal shape design in contact problems of elasticity. 91m:73056
- Haupt, P. (with Tsakmakis, Ch.) On the application of dual variables in continuum mechanics. 91m:73002
- Hecke, M. *see* Zouain, N.; et al., (91f:73001)
- Hertog, Brian *see* Fosdick, Roger L., 91e:73023
- Hodges, Dewey H. A mixed variational formulation based on exact intrinsic equations for dynamics of moving beams. 91e:73072
- Honein, T. *see* Simo, J. C., 91m:73035
- Huet, C. Application of variational concepts to size effects in elastic heterogeneous bodies. 91j:73062
- Huidobro Rojo, J. A. (with Robles, Arturo) A numerical algorithm for an elastoplasticity problem with mixed hardening. (Spanish. English summary) 91h:73043
- James, Richard Dana (with Kinderlehrer, David) Theory of diffusionless phase transitions. 91e:73011
- Jarulek, Jiri Contact problems with given time-dependent friction force in linear viscoelasticity. 91k:73097
- Kabařáček, M. M. An inverse problem of the calculus of variations and its application for the integration of higher-order nonlinear ordinary differential equations. (Russian) 91k:4011
- Karachevskii, M. M. *see* Voloshanovskaya, S. N., 91e:73030
- Kerchman, V. L. (with Ertikhan, F. M.) A variational method for solving an elastoplastic problem for a body with a circular hole. 91h:73028
- Khludnev, A. M. Optimal control of the form of a stamp in a contact problem for a plate. (Russian) 91k:73081
- Variational inequalities in contact problems. (see 91g:00043)
- Khludnev, E. Yu. The existence of a solution in the problem of the contact of a nonelastic plate with a rigid stamp. (Russian) 91j:73060
- Kinderlehrer, David Phase transitions in crystals: towards the analysis of microstructure. 91e:73014
- *see also* James, Richard Dana, 91e:73011
- Klarbring, A. (with Mikelic, Andro; Shillor, M.) On friction problems with normal compliance. 91a:73063
- (with Mikelic, Andro; Shillor, M.) Duality applied to contact problems with friction. 91k:49015
- Kock, Ellen (with Olson, Lorraine) Fluid-structure interaction analysis by the finite element method—a variational approach. 91m:73059
- Koltsakis, E. K. *see* Panagiotopoulos, P. D., 91e:73027
- Koltsakis, M. (with Panagiotopoulos, P. D.) Nonmonotone skin effects in laminated plates in stretching. (see 91g:00043)
- Koshur, V. D. (with Nemirovskii, Yu. V.) ★ Контактные и дискретные модели динамического деформирования элементов конструкции. (Russian) [Continual and discrete models of dynamical deformation of structural elements] 91e:73098
- Křitek, Michal (with Neittaanmäki, Pekka) ★ Finite element approximation of variational problems and applications. 91h:65174
- Kubrusly, Ricardo Silva Variational methods for nonlinear eigenvalue inequalities. 91f:47088
- Kulikov, G. M. *see* Grigolyuk, E. I., 91k:73070
- Kuznetsov, Sergei Vladimirovich Normal quasisolutions of integral equations in elasticity theory. (Russian) 91a:45016
- Kwon, Kil H. *see* Yoo, Yung M.; et al., 91j:73012
- La, K. Ch. *see* Stamp, Helmut, 91h:73039
- Le Khanh Chao On the nonlinear theory of brittle fracture. 91e:73100
- Variational principles in the nonlinear theory of brittle fracture. (Russian) 91h:73048
- Lekszycki, T. (with Mróz, Z.) Variational principles in analysis and synthesis of elastic systems with damping. 91k:70021
- Li, Zhi Ping Existence theorem and finite element method for static problems of a class of nonlinear hyperelastic shells. 91e:73056
- van Lieshout, Petrus Henricus ★ A variational approach to magneto-elastic buckling problems. 91h:73032
- Liu, Pei Xiang Maximization of entropy for an elastic body free of surface traction. 91f:73015
- Liu, Chang Mao The structure of systems of first-order Euler-Lagrange equations. (Chinese. English summary) 91e:35176
- Liu, Wing Kam *see* La, Y. Y.; et al., 91j:73067
- La, Y. Y. (with Belytschko, T.; Liu, Wing Kam) A variationally coupled FE-BE method for elasticity and fracture mechanics. 91j:73067
- Lao, Ea Generalized Hamilton-type quasivariational principles in geometrically nonlinear elastodynamics. (Chinese. English summary) (Not in MR)
- Lyantse, V. E. (with Storozh, O. G.) A nonclassical boundary value problem in the theory of plates. (Russian. English summary) 91d:73015
- Masile, D. La détermination de la solution dans la théorie de la viscoélasticité linéaire. [Deriving solutions in the theory of linear viscoelasticity] 91g:73031
- Miara, Bernadette (with Trabucho, Luis) Approximation spectrale pour une poutre en élasticité linéarisée. (English summary) [A spectral approximation for a beam in linearized elasticity] 91j:73038
- Miersemann, Erich (with Mittelmann, Hans D.) A free boundary problem and stability for the rectangular plate. 91d:35245
- Mikelic, Andro *see* Klarbring, A.; et al., 91a:73063; 91k:49015 and Elliott, Charles M.; et al., 91k:73096
- Miliello, C. *see* Felippa, C. A., 91h:73085
- Milton, Graeme W. *see* Avellaneda, Marco, 91e:73088
- Mittelmann, Hans D. *see* Miersemann, Erich, 91d:35245
- Mróz, Z. *see* Dems, K., 91h:73032 and Lekszycki, T., 91k:70021
- Naldi, Giovanni *see* Colli, Pierluigi; et al., 91k:73090
- Negrón-Marrero, Pablo V. A numerical method for detecting singular minimizers of multidimensional problems in nonlinear elasticity. 91j:65116
- Neittaanmäki, Pekka *see* Křitek, Michal, 91h:65174 and Haslinger, Jaroslav, 91m:73056
- Nemirovskii, Yu. V. *see* Koshur, V. D., 91e:73098
- Nguetseng, Gabriel Asymptotic analysis for a stiff variational problem arising in mechanics. 91m:73006
- Noor, Muhammad Aslam (with Tirmizi, S. I. A.) Numerical methods for a class of contact problems. 91m:73069
- Novikov, N. A. (with Sporykhin, A. N.) A functional of nonlinear elasticity theory with prescribed boundary conditions in different configurations. 91e:73024
- Ohravtsov, I. F. (with Elpar'evskii, A. N.; Belov, P. A.) A general approach to the formulation of linear models of media of different smoothness. 91m:73014
- Olson, Lorraine *see* Kock, Ellen, 91m:73059
- Onat, E. T. *see* Gao, Yang, 91f:73022
- Owens, Nicholas C. Some remarks on the stability of the homogeneous deformation for an elastic bar. 91g:73042
- Palmushin, V. N. (with Sidorov, I. N.) Two-dimensional equations for modeling the engineering process of a "dry" force winding in producing composite shells. (Russian) (Not in MR)
- (with Petruschenko, Yu. Ya.) Application of the generalized Hamilton-Ostrogadskii-Reissner variational principle to the formulation of linearized problems in the mechanics of three-dimensional composite bodies. 91h:73070
- Panagiotopoulos, P. D. Multivalued boundary integral equations for inequality problems. The nonconvex case. 91h:73042
- (with Koltsakis, E. K.) The nonmonotone skin effects in plane elasticity problems obeying to linear elastic and subdifferential material laws. (German and Russian summaries) 91e:73027
- *see also* Koltsakis, M., (91g:00043) and Stavroulakis, G. E., (91g:00043)
- Park, Chan W. *see* Yoo, Yung M.; et al., 91j:73012
- Pellegrinelli, L. *see* Schumann, W., 91e:73057
- Percival, D. Perfectly plastic plates: a variational definition. 91h:73035
- Petrushenko, Yu. Ya. *see* Palmushin, V. N., 91h:73070
- Petukhov, L. V. (with Sokov, K. E.) Nonhomogeneous elastic structures that are optimal with respect to stiffness. 91j:73049
- Pinsky, Peter M. (with Abboud, Najib N.) Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. 91m:76106
- Pipkin, Allen C. The relaxed energy density for isotropic elastic membranes. 91h:73067
- Pistora, Vladislav Shape optimization of an elastoplastic body for the model with strain-hardening. (Russian and Czech summaries) 91j:73050
- Polizzotto, C. Errata: "An energy approach to the boundary element method. II. Elastic-plastic solids" [Comput. Methods Appl. Mech. Engrg. 69 (1988), no. 3, 263-276; 90b:65210]. 91g:65247
- Quintela Estevez, Peregrina Critical points in the energy of hyperelastic materials. (French summary) 91c:73026
- Reddy, B. D. *see* Eve, R. A., (91f:73001)
- Rifai, M. S. *see* Simo, J. C.; et al., 91h:73039
- Robles, Arturo *see* Huidobro Rojo, J. A., 91h:73043
- Rolfes, R. *see* Stein, Erwin, 91h:73045
- Ross, Drora (with Bercovier, Michel) Traveling waves in a cylinder rolling on a flat surface. (French summary) 91k:73099
- Sacco, Elia Modelling and analysis of structure in no-tension materials. (Italian. English summary) 91k:73086
- Sachenkov, A. V. (with Timerbaev, R. M.) Application of general solutions of equations in elasticity theory to plate deformation problems. (Russian) 91k:73074
- Sarala, Ya. G. Boundary value and variational problems for a combined mathematical model in elasticity theory. (Russian) 91k:73027
- Schumann, W. (with Pellegrinelli, L.) On the role of some integral relations for a variational principle in shell theory. (German and Russian summaries) 91e:73057
- Serghin, G. A. Differential properties of solutions of variational problems for functionals of linear growth. (Russian) 91j:49024
- Differential properties of extremals of variational problems that arise in the theory of plasticity. 91j:49025
- Differential properties of extremals of variational problems in the mechanics of viscoplastic media. (Russian) 91m:49042
- On the regularity of weak solutions of variational problems of plasticity theory. 91m:73037
- Regularity of weak solutions of variational problems in plasticity theory. 91j:49059
- Sha, De Song (with Sun, Huan Chun; Zhang, Zhong Ding; Yin, Fu Xin) A variational inequality principle in solid mechanics and application in physically nonlinear problems. 91e:73042
- Shang, Yong (with Chen, Zhi Da) On large deformation unilateral contact problem with

- friction. I. Incremental variational equations. 91h:73051
 — (with Chen, Zhi Da) On unilateral contact large deformation problem with friction. II. Nonlinear finite element technique and its application. 91h:73052
 Shiller, M. see Klarbring, A.; et al., 91a:73063; 91k:49015 and Elliott, Charles M.; et al., 91k:73096
 Sidorov, I. N. see Palmushin, V. N., (Not in MR)
 Simo, J. C. (with Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. IV. Variable thickness shells with through-the-thickness stretching. 91h:73039
 — (with Honein, T.) Variational formulation, discrete conservation laws, and path-domain independent integrals for elasto-viscoplasticity. 91m:73035
 — (with Vu-Quoc, L.) A geometrically exact rod model incorporating shear and torsion warping deformation. 91e:73074
 Sokolowski, Jan Sensitivity analysis of the Signorini variational inequality. 91f:49052
 Sokov, K. E. see Petukhov, L. V., 91j:73049
 Sporykhin, A. N. see Norikov, N. A., 91c:73024
 Starita, Giulio see Cimbelli, Vito Antonio, 91g:73003
 Stavroulakis, G. E. (with Panagiotopoulos, P. D.) Free boundary problem in the bending theory of laminated plates subject to subdifferential boundary conditions. (see 91g:00043)
 Stiel, Erwin (with Rolles, R.) Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity. 91k:73045
 Storozh, O. G. see Lyantse, V. E., 91d:73015
 Stumpf, Helmut (with Le, K. Ch.) Variational principles of nonlinear fracture mechanics. 91k:73039
 Sun, Huan Chun see Sha, De Song; et al., 91c:73042
 Tahraoui, Rabah Sur une classe de fonctionnelles non convexes et applications. (English summary) [On a class of nonconvex functionals, and applications] 91h:73012
 Tang, Qi Justification of elastoplastic plate models. 91c:73043
 Telega, J. J. see Galka, A., 91j:73044
 Timberber, R. M. see Sachenko, A. V., 91k:73074
 Ting, Tsun Wu Free-boundary values in an elastic-plastic torsion problem. 91g:73029
 Tirmizi, S. I. A. see Noor, Muhammad Aslam, 91m:73069
 Torelli, Alessandro see Colli, Pierluigi; et al., 91k:73090
 Trabuco, Luis (with Vialto Rey, Juan M.) A new approach of Timoshenko's beam theory by asymptotic expansion method. (French summary) 91m:73043
 — see also Mlari, Bernadette, 91j:73038
 Tsakmakis, Ch. see Haupt, P., 91m:73002
 Valid, Roger Le principe non linéaire d'énergie complémentaire en théorie des coques. (English summary) [The nonlinear principle of complementary energy in shell theory] 91e:73086
 — Elastodynamique non linéaire des coques minces en énergie complémentaire. (English summary) [Nonlinear elastodynamics of thin shells in complementary energy] 91f:73027
 Vernescu, Bogdan Viscous behavior of a porous medium with deformable skeleton. (Romanian. English summary) 91f:76035
 Versteppen, R. see van Groesen, E., 91g:73054
 Vialto Rey, Juan M. see Trabuco, Luis, 91m:73043 and Burguera, M., (91j:00015)
 Voloshinovskaya, S. N. (with Karchevskii, M. M.) On the solvability of a problem on the geometrically nonlinear bending of a nonclosed spherical shell. (Russian) 91k:73030
 Vukobrat, M. Dj. Conservation laws in thermoelastic membrane theory. (German and Serbo-Croatian summaries) 91c:73013
 Vu-Quoc, L. see Simo, J. C., 91c:73074
 Watanabe, Osamu Variational principles of elastoplasticity in finite deformation. 91k:73065
 Willis, J. R. The overall behaviour of a nonlinear matrix reinforced by rigid inclusions or weakened by cavities. 91c:73059
 Wozniak, Cz. Mathematical modelling of delamination effects in layered composites. (Russian and Polish summaries) 91d:73046
 Xu, Zhong Yong (with Yang, Jian Hui) A new theory of shells, plates and beams based on variational principles. I. (Chinese. English summary) 91c:73087
 Yang, Jian Hui see Xu, Zhong Yong, 91c:73087
 Yin, Fu Xin see Sha, De Song; et al., 91c:73042
 Yoo, Yung M. (with Park, Chan W.; Kwon, Kil H.) A mathematical study of the boundary integral equation of linear elasticity. 91j:73012
 Zhang, Ke Wei Polyconvexity and stability of equilibria in nonlinear elasticity. 91d:73020
 Zhang, You Qi see Gao, Yang, 91c:73055
 Zhang, Zhong Ding see Sha, De Song; et al., 91c:73042
 Zouain, N. (with Feijóo, R. A.; Hecke, M.) A contribution to structural plasticity by optimization techniques. II. Analysis of model discretization and mathematical programming algorithms for elastic-plastic incremental analysis. (see 91f:73001)
 — see also Feijóo, R. A., (91f:73001)

73V30 Stochastic analysis

- Deodatis, George see Shinozuka, Masanobu, 91m:73070
 Shinozuka, Masanobu (with Deodatis, George) Simulation of stochastic processes by spectral representation. 91m:73070
 Items with secondary classifications in 73V30
 David, J. M. see Soize, C.; et al., 91a:73053
 Day, William Alan (with Karwowski, Andrzej J.; Papanicolaou, George) Buckling of randomly imperfect beams. 91c:73047
 Desanti, Annick see Soize, C.; et al., 91a:73053
 Ghanem, Roger G. (with Spanos, Pol-T. D.) Stochastic finite elements: a spectral approach. 91k:73102
 Huet, C. Application of variational concepts to size effects in elastic heterogeneous bodies. 91j:73002
 Karwowski, Andrzej J. see Day, William Alan; et al., 91c:73047
 Mazlia, P. Green's operator for determination of the effective properties in random media. (see 91m:00030)
 Moncaze, R. On the approximation of continuum stochastic systems by a discrete stochastic system: a problem with moving boundary. 91k:35220

- Ostoja-Starzewski, M. (with Wang, C.) Linear elasticity of planar Delaunay networks. II. Voigt and Reuss bounds, and modification for centroids. 91h:73050
 Papanicolaou, George see Day, William Alan; et al., 91c:73047
 Sobczyk, Kazimierz Stochastic approach to fatigue fracture. (see 91m:00029)
 Soize, C. (with David, J. M.; Desanti, Annick) Dynamic and acoustic response of coupled structure/dense fluid axisymmetric systems excited by a random wall pressure field. 91a:73053
 Spanos, Pol-T. D. see Ghanem, Roger G., 91k:73102
 Wang, C. see Ostoja-Starzewski, M., 91h:73050

73V35 Complex variable techniques

- Gilbert, Robert P. (with Xu, Yong Zhi) A function theory for thin elastic shells. 91c:73067
 Ioakimidis, N. I. Application of the conformal mapping and the complex path-independent integrals to the location of elliptical holes and inclusions in plane elasticity problems. 91k:73048
 — A hybrid method for the solution of problems of bending of thin plates. 91g:73071
 Tsallik, A. M. A method for the projection and decomposition of analytic functions in boundary value problems in elasticity theory. 91c:73088
 Xu, Yong Zhi see Gilbert, Robert P., 91c:73087
 Items with secondary classifications in 73V35
 Bardzokas, Dem. (with Parton, V. Z.; Theocaris, Pericles S.) A plane problem in elasticity theory for an orthotropic domain with defects. 91k:73029
 Bondar, V. D. Finite plane deformations of an incompressible elastic material. 91h:73030
 Cherepanov, G. P. On the construction of fracture mechanics. 91k:73087
 Constanta, C. A mathematical analysis of bending of plates with transverse shear deformation. 91m:73016
 Dobozhginidze, L. G. On the contact of two nonlinearly elastic bodies. 91m:73067
 Georgiadis, H. G. An integral equation approach to self-similar plane-elastodynamic crack problems. 91k:73088
 Huang, Xiao Ling The problem of equilibrium of an infinite anisotropic elastic plane surface with periodic rectilinear cracks. (Chinese) 91g:73014
 Ioakimidis, N. I. The location of discontinuity intervals of sectionally analytic functions: application to the interface crack problem. 91k:65058
 Kaloerov, S. A. Complex potentials in a plane problem of elasticity theory for a multiply connected anisotropic body with cracks. (Russian) 91k:73030
 — Elastic equilibrium of a multiply connected isotropic plate with cracks. (Russian) 91k:73031
 Kallus, S. A. On the solution of problems in elasticity theory by the method of analytic functions. 91h:73010
 Noller, B. M. Contact problems for a system of elastic half-planes. 91j:73063
 Pan'ko, S. V. Representation of a solution of a generalized Cauchy-Riemann system and its applications. 91j:30037
 Parton, V. Z. see Bardzokas, Dem.; et al., 91k:73029
 Pen'kov, V. B. see Tolokonnikov, L. A., 91k:73057
 Shvab, A. A. On a problem of local continuation in elasticity theory. (Russian) 91m:73023
 Silvestrov, V. V. Fundamental problems in elasticity theory on a multi-sheeted Riemann surface. (Russian) 91k:73013
 — On the elastic stress and strain state near a spatial crack on a two-sheeted surface. 91k:73010
 Suyunskalliev, N. Kh. * Некоторые задачи теории конечных упругих деформаций. (Russian) [Some problems in the theory of finite elastic deformations] 91k:73061
 Theocaris, Pericles S. see Bardzokas, Dem.; et al., 91k:73029
 Tolokonnikov, L. A. (with Pen'kov, V. B.) Some effective solutions of a problem on the flow of a metal in a layer. 91k:73057
 Xie, Wei An Problems of finite plates with cracks. (Chinese. English summary) 91c:73071

73V99 None of the above, but in this section

- Items with secondary classifications in 73V99
 Anekwe, C. M. Application of formex algebra to bandwidth minimization. 91k:73083
 Apostolopoulos, Theodore (with Kiriaki, Kiriakie; Polyzos, Demosthenes) The inverse scattering problem for a rigid ellipsoid in linear elasticity. 91c:73043
 Attou, D. see Mangin, Gérard A., 91f:73032
 Babich, V. I. The passage of a wave through a thin layer. 91d:73023
 Bencheikh, L. Modified fundamental solutions for the scattering of elastic waves by a cavity. 91c:73033
 Bolgov, A. A. (with Tishchenko, V. N.) A representation of solutions of dynamical problems in elasticity theory. (Russian) 91h:73019
 Chapard, Bastien A cellular automata model of large-scale moving objects. 91c:73020
 Ding, Yu (with Planchard, Jacques) Méthode d'optimisation pour résoudre le problème d'impédance inverse des ondes acoustiques en régime harmonique en 2 dimensions. [An optimization method for solving the inverse impedance problem for acoustical waves in a harmonic region in two dimensions] (Not in MR)
 Du, Zuo Run see Wang, Wen Liang, 91k:73077
 Fabrikant, V. I. * Applications of potential theory in mechanics. 91g:73013
 Farzan, Ruzlan H. (with Mohamed, A. Sh.) Free boundary elastic-plastic problem. (Not in MR)
 Fujii, Hiroshi see Ikeda, Kiyohiro; et al., 91k:73085
 Hesley, Timothy J. (with Treacy, J. A.) Exact block diagonalization of large eigenvalue problems for structures with symmetry. 91k:73084
 (Hinton, E.) see Computational plasticity, 91f:73001
 Hsu, Chieh Su see Sun, J.-Q., 91i:93066
 Ikeda, Kiyohiro (with Murota, Kazuo; Fujii, Hiroshi) Bifurcation hierarchy of symmetric structures. 91k:73085
 Jiang, Song Numerical solution for the Cauchy problem in nonlinear 1-D-thermoelasticity. (German summary) 91d:73008
 Kiriaki, Kiriakie see Apostolopoulos, Theodore; et al., 91c:73043

Kwon, Kil H. *see* Yoo, Yung M.; et al., 91f:73012

Li, Qing¹ (with Li, Wei) The Lemke algorithm for finding the complementary energy functional of elastic contact problems. (Chinese. English summary) 91k:73098

Li, Wei *see* Li, Qing¹, 91k:73098

Maugis, Gérard A. (with Attou, D.) An asymptotic theory of thin piezoelectric plates. 91f:73032

Mohamed, A. Sh. *see* Farzan, Ruzsán H., (Not in MR)

Murota, Kazuo *see* Ikeda, Kiyohiro; et al., 91k:73085

Nemish, Yu. N. ★ Элементы механики кусочно-однородных тел с неканоническими поверхностями раздела. (Russian) [Elements in the mechanics of piecewise homogeneous bodies with noncanonical interfaces] 91e:73026

(Ohate, E.) *see* Computational plasticity, 91f:73001

(Owen, D. R. J.) *see* Computational plasticity, 91f:73001

Park, Chan W. *see* Yoo, Yung M.; et al., 91f:73012

Peleshko, V. A. Conditions for the mathematical well-posedness of a variant of differential-nonlinear relations of plasticity and methods for solving boundary value problems. (Russian) 91m:73033

Pellegrino, S. (with Van Heerden, T.) Solution of equilibrium equations in the force method: a compact band scheme for underdetermined linear systems. 91k:65002

Plancharé, Jacques *see* Ding, Yu, (Not in MR)

Polyzos, Demosthenes *see* Apostolopoulos, Theodore; et al., 91e:73043

Puzanov, Yu. E. *see* Zelentsov, V. B., 91f:73104

Sun, J.-Q. (with Hsu, Chieh Su) Global analysis of nonlinear dynamical systems with fuzzy uncertainties by the cell mapping method. 91i:93066

Tishchenko, V. N. *see* Bolgov, A. A., 91h:73019

Treacy, J. A. *see* Healey, Timothy J., 91k:73064

Van Dyke, Milton Slow variations in continuum mechanics. 91k:76136

Van Heerden, T. *see* Pellegrino, S., 91k:65002

Wang, Wen Liang (with Du, Zuo Run) A double compatible modal synthesis method for structures with symmetry group C_n . (Chinese. English summary) 91k:73077

Yoo, Yung M. (with Park, Chan W.; Kwon, Kil H.) A mathematical study of the boundary integral equation of linear elasticity. 91f:73012

Zelentsov, V. B. (with Puzanov, Yu. E.) An efficient method for solving integral equations in problems of crack theory. (Russian) 91e:73104

Items listed otherwise than by author

Barcelona ★ Computational plasticity. Part I, II. 91f:73001

Computational plasticity ★ Computational plasticity. Part I, II. 91f:73001

Conference:

Computational Plasticity ★ Computational plasticity. Part I, II. 91f:73001

76-XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73-XX.}

76-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 76-00

Index:

Annual review of fluid mechanics Cumulative indexes. 91b:00008

76-01 Instructional exposition (textbooks, tutorial papers, etc.)

Chorlton, F. *see* O'Neill, M. E., 91e:76001

O'Neill, M. E. (with Chorlton, F.) ★ Viscous and compressible fluid dynamics. 91e:76001

Items with secondary classifications in 76-01

Schmutzer, Ernst ★ Grundlagen der Theoretischen Physik. Teil I. (German) [Foundations of theoretical physics. Part I] 91b:00003a

76-02 Research exposition (monographs, survey articles)

Chorin, Alexandre Joel (with Marsden, Jerrold E.) ★ A mathematical introduction to fluid mechanics. 91e:76002

Holm, Darryl D. Hamiltonian techniques for relativistic fluid dynamics and stability theory. 91h:76001

Kopachevskii, N. D. (with Krein, S. G.; Ngô Huy Can) ★ Операторные методы в нелинейной гидродинамике. (Russian) [Operator methods in linear hydrodynamics] 91h:76001

Krein, S. G. *see* Kopachevskii, N. D.; et al., 91h:76001

Marsden, Jerrold E. *see* Chorin, Alexandre Joel, 91e:76002

Ngô Huy Can *see* Kopachevskii, N. D.; et al., 91h:76001

(Pelé, Pierre) *see* Dynamics of curved fronts, 91h:76002

Items listed otherwise than by author

Dynamics of curved fronts ★ Dynamics of curved fronts. 91h:76002

Items with secondary classifications in 76-02

Bestehorn, M. *see* Friedrich, R.; et al., 91h:76056

Chashechkin, Yu. D. *see* Kistovich, A. V., 91m:76026

Friedrich, R. (with Bestehorn, M.; Haken, Hermann) Pattern formation in convective instabilities. 91h:76056

Haken, Hermann *see* Friedrich, R.; et al., 91h:76056

Holmes, Philip Nonlinear dynamics, chaos, and mechanics. 91e:58113

(Hutchinson, John W.) *see* Advances in applied mechanics, 91e:76004

Joseph, Daniel D. ★ Fluid dynamics of viscoelastic liquids. 91d:76003

Kistovich, A. V. (with Chashechkin, Yu. D.) Generation, propagation and nonlinear interaction of internal waves. (Russian. English summary) 91m:76026

Selezer, I. T. Propagation and transformation of surface gravity waves in a fluid of finite depth. (Russian. English summary) 91m:76017

(Wu, Theodore Y.) *see* Advances in applied mechanics, 91e:76004

Items listed otherwise than by author

Advances in applied mechanics ★ Advances in applied mechanics. Vol. 26. 91e:76004

76-03 Historical (must also be assigned at least one classification number from Section 01)

Day, Michael A. The no-slip condition of fluid dynamics. 91k:76001

Townsend, A. A. Early days of turbulence research in Cambridge. (Not in MR)

Items with secondary classifications in 76-03

(Benney, David J.) *see* Lin, Chia Chiao, 91b:01097

Grattan-Guinness, I. Modes and manners of applied mathematics: the case of mechanics. 91e:01013

Kuznetsov, Arkadii Vasil'evich Research on the theory of fluid flows with free boundaries. (Russian) (see 91i:01139)

Lin, Chia Chiao ★ Selected papers of C. C. Lin. Vol. 1. 91b:01097

Molokovich, Yu. M. (with Pleshchinskii, B. I.; Skvortsov, E. V.) History of the department and laboratory of underground hydromechanics. (Russian) (see 91i:01139)

Pleshchinskii, B. I. *see* Molokovich, Yu. M.; et al., (91i:01139)

Protasova, L. A. On the formation of Soviet educational literature on wing theory. (Russian. English summary) 91m:01021

(Shu, Frank H.) *see* Lin, Chia Chiao, 91b:01097

Skvortsov, E. V. *see* Molokovich, Yu. M.; et al., (91i:01139)

(Yuan, Chi) *see* Lin, Chia Chiao, 91b:01097

76-04 Explicit machine computation and programs (not the theory of computation or programming)

Durst, F. *see* Razdiller, H.; et al., (Not in MR)

Gutaja, I. *see* Razdiller, H.; et al., (Not in MR)

Razdiller, H. (with Gutaja, I.; Durst, F.) Symbolic computation of flow in a rotating pipe. (Not in MR)

Items with secondary classifications in 76-04

Anagnostou, George (with Fischer, Paul F.; Dewey, Daniel; Patera, Anthony T.) Finite/spectral element Navier-Stokes methods on vector hypercubes and geometry-defining processor reconfigurable lattices. 91e:76068

Bourgade, A. (with Jourdain, H.; Ovadia, J.) Problème de Riemann en hydrodynamique et applications. [The Riemann problem in hydrodynamics, and applications] 91b:76079

Cesari, Francesco ★ Il metodo degli elementi finiti applicato al moto dei fluidi. (Italian) [The finite element method applied to fluid flow] 91d:76052

Chemeris, V. S. *see* Vasilenko, Ya. F., 91a:76027

Cheshire, G. (with Hanshaw, W. D.) Composite overlapping meshes for the solution of partial differential equations. 91e:76043

Connolly, W. M. *see* Howard, D.; et al., 91e:76071

Dewey, Daniel *see* Anagnostou, George; et al., 91e:76068

Fischer, Paul F. *see* Anagnostou, George; et al., 91e:76068

Glowinski, Roland Supercomputing and the finite element approximation of the Navier-Stokes equations for incompressible viscous fluids. 91e:76070

Gu, Mao Xiang *see* Sun, Be Qi, 91h:76016

Hanshaw, W. D. *see* Cheshire, G., 91e:76043

Howard, D. (with Connolly, W. M.; Rollett, J. S.) Unsymmetric conjugate gradient methods and sparse direct methods in finite element flow simulation. 91e:76071

Hughes, Thomas J. R. *see* Shakib, Farzin; et al., 91a:76065

Johan, Zdeněk *see* Shakib, Farzin; et al., 91a:76065

Jourdain, H. *see* Bourgade, A.; et al., 91b:76079

Lia, Avi Solving numerically the Navier-Stokes equations on parallel systems. 91e:76090

Ovadia, J. *see* Bourgade, A.; et al., 91b:76079

Patera, Anthony T. *see* Anagnostou, George; et al., 91e:76068

Rollett, J. S. *see* Howard, D.; et al., 91e:76071

Shakib, Farzin (with Hughes, Thomas J. R.; Johan, Zdeněk) A multi-element group preconditioned GMRES algorithm for nonsymmetric systems arising in finite element analysis. 91a:76065

Shaw, Bruce E. Universality in selection with local perturbations in the Saffman-Taylor problem. 91d:76026

Sun, Be Qi (with Gu, Mao Xiang) A numerical method for second order mean forces and slowly varying forces on a floating structure. 91h:76016

Vasilenko, Ya. F. (with Chemeris, V. S.) The Stokes problem and Muskhelishvili integral equations. (Russian) 91a:76027

76-05 Experimental papers

Belyaev, Yu. N. (with Yavorskaya, I. M.) Problems of stability and the origin of chaos in closed hydrodynamic flows. (Russian) 91e:76003

Chai, Lu *see* Liu, Shu Sheng; et al., (91b:00048)

Liu, Shu Sheng (with Sun, Yong Da; Chai, Lu) Experimental study on bifurcations in a circular Couette system. (see 91b:00048)

Sun, Yong Da *see* Liu, Shu Sheng; et al., (91b:00048)

Yavorskaya, I. M. *see* Belyaev, Yu. N., 91e:76003

Items with secondary classifications in 76-05

- Bernoff, Andrew J. *see* Underhill, William B.; et al., 91m:76019
- Ciliberto, S. (with Couillet, P.; Lega, Joceline; Pampaloni, E.; Pérez-García, Carlos) Defects in roll-hexagon competition. 91g:76035
- Couillet, P. *see* Ciliberto, S.; et al., 91g:76035
- Gharib, M. *see* Williams-Stuber, K., 91k:76086
- Joets, A. *see* Ribotta, R., 91g:76039
- Joseph, Daniel D. Fluid dynamics of two miscible liquids with diffusion and gradient stresses. 91j:76026
- Lega, Joceline *see* Ciliberto, S.; et al., 91g:76035
- Lichter, Seth *see* Underhill, William B.; et al., 91m:76019
- Ottino, J. M. *see* Swanson, P. D., 91h:76051
- Pampaloni, E. *see* Ciliberto, S.; et al., 91g:76035
- Peregrine, D. H. (with Shoker, G.; Symon, A.) The bifurcation of liquid bridges. 91h:76050
- Pérez-García, Carlos *see* Ciliberto, S.; et al., 91g:76035
- Rabinovich, M. I. (with Sushchik, M. M.) The regular and chaotic dynamics of structures in fluid flows. 91m:76061
- Ribotta, R. (with Joets, A.) Defects and disorder of nonlinear waves in convection. 91g:76039
- Shoker, G. *see* Peregrine, D. H.; et al., 91h:76050
- Sushchik, M. M. *see* Rabinovich, M. I., 91m:76061
- Swanson, P. D. (with Ottino, J. M.) A comparative computational and experimental study of chaotic mixing of viscous fluids. 91h:76051
- Symon, A. *see* Peregrine, D. H.; et al., 91h:76050
- Underhill, William B. (with Lichter, Seth; Bernoff, Andrew J.) Modulated, frequency-locked, and chaotic cross-waves. 91m:76019
- Williams-Stuber, K. (with Gharib, M.) Transition from order to chaos in the wake of an airfoil. 91k:76086

76-06 Proceedings, conferences, collections, etc.

- (Benjamin, T. Brooke) *see* Special Issue: Benjamin, T. Brooke, 91k:76004
- (Cakmak, Ahmet) *see* Computational acoustics, 91h:76002; 91h:76003 and 91h:76004
- Chorin, Alexandre Joel *see* Computational fluid mechanics, 91a:76001
- (Gresho, Philip M.) *see* Computational methods in flow analysis, 91e:76005 and Conference: Finite Elements in Flow Problems, 91e:76006
- (Hussaini, M. Y.) *see* Instability and transition, 91h:76002 and 91h:76003
- (Hutchinson, John W.) *see* Advances in applied mechanics, 91e:76004
- (Joseph, Daniel D.) *see* Two phase flows and waves, 91e:76008
- (Lee, Ding) *see* Computational acoustics, 91h:76002; 91h:76003 and 91h:76004
- (Lumley, John L.) *see* Annual review of fluid mechanics, 91k:76001
- (Meneguzzi, M.) *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- (Moffatt, H. K.) *see* Topological fluid mechanics, 91h:76005
- (Ogden, R. W.) *see* Special Issue: Benjamin, T. Brooke, 91k:76004
- Panton, Ronald L. *see* Trefethen, Lloyd N., 91j:76001
- (Ponquet, A.) *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- (Reed, Helen L.) *see* Annual review of fluid mechanics, 91k:76001
- (Schaeffer, David G.) *see* Two phase flows and waves, 91e:76008
- (Spence, D. A.) *see* Special Issue: Benjamin, T. Brooke, 91k:76004
- (Struminskii, V. V.) *see* Mechanics of nonhomogeneous and turbulent flows, 91e:76007
- (Sulem, P.-L.) *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- (Taylor, Cedric) *see* Computational methods in flow analysis, 91e:76005 and Conference: Finite Elements in Flow Problems, 91e:76006
- Trefethen, Lloyd N. (with Panton, Ronald L.) Some unanswered questions in fluid mechanics. 91j:76001
- (Tsinober, A.) *see* Topological fluid mechanics, 91h:76005
- (Van Dyke, Milton) *see* Annual review of fluid mechanics, 91k:76001
- (Vichnevetsky, Robert) *see* Computational acoustics, 91h:76002; 91h:76003 and 91h:76004
- (Voigt, Robert G.) *see* Instability and transition, 91h:76002 and 91h:76003
- (Wesseling, Pieter) *see* Research in numerical fluid mechanics, 91k:76003
- (Wu, Theodore Y.) *see* Advances in applied mechanics, 91e:76004

Items listed otherwise than by author

- Advances in applied mechanics *see* Advances in applied mechanics, Vol. 26. 91e:76004
- Annual review of fluid mechanics *see* Annual review of fluid mechanics, Vol. 23. 91k:76001
- Birthdays:
- Benjamin, T. Brooke *see* The Brooke Benjamin special issue. 91k:76004
- Cambridge *see* Topological fluid mechanics, 91h:76005
- Cargèse *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Computational acoustics *see* Computational acoustics, Vol. 1. 91h:76002
- *see* Computational acoustics, Vol. 2. 91h:76003
- *see* Computational acoustics, Vol. 3. 91h:76004
- Computational methods in flow analysis *see* Computational methods in flow analysis, 91e:76005
- Conference:
- Computational Fluid Dynamics *see* AIAA 8th Computational Fluid Dynamics Conference, 91h:76003
- Computational Methods in Flow Analysis *see* Computational methods in flow analysis, 91e:76005
- Finite Elements in Flow Problems *see* The Seventh International Conference on Finite Elements in Flow Problems, 91e:76006
- Nonlinear Phenomena in Fluid Mechanics *see* The Brooke Benjamin special issue, 91k:76004
- Delft *see* Research in numerical fluid mechanics, 91k:76003
- Fluid and gas mechanics *see* Механика жидкости и газа. Том 24. (Russian) [Fluid and gas mechanics, Vol. 24] 91k:76002
- Hampton, VA *see* Instability and transition, Vol. I. 91h:76002
- *see* Instability and transition, Vol. II. 91h:76003
- Honolulu, HI *see* AIAA 8th Computational Fluid Dynamics Conference, 91h:76003

Huntsville, AL *see* The Seventh International Conference on Finite Elements in Flow Problems, 91e:76006

IMACS Symposium:

- Computational Acoustics *see* Computational acoustics, Vol. 1. 91h:76002
- *see* Computational acoustics, Vol. 2. 91h:76003
- *see* Computational acoustics, Vol. 3. 91h:76004

Instability and transition *see* Instability and transition, Vol. I. 91h:76002

— *see* Instability and transition, Vol. II. 91h:76003

Itogi Nauki i Tekhniki *see* Механика жидкости и газа. Том 24. (Russian) [Fluid and gas mechanics, Vol. 24] 91k:76002

IUTAM Symposium:

Topological Fluid Mechanics *see* Topological fluid mechanics, 91h:76005

Mechanics of nonhomogeneous and turbulent flows *see* Механика неоднородных и турбулентных потоков. (Russian) [The mechanics of nonhomogeneous and turbulent flows] 91h:76007

Meeting:

Dutch Association for Numerical Fluid Mechanics *see* Research in numerical fluid mechanics, 91k:76003

Minneapolis, MN *see* Two phase flows and waves, 91e:76008

Mregowo *see* XVIIIth Symposium on Advanced Problems and Methods in Fluid Mechanics, 91h:76004

Numerical analysis of free boundary problems and related topics *see* Jitykyokai mondai noschikaiseki to sono shūhen. (Japanese) [Numerical analysis of free boundary problems and related topics] 91g:76001

Okayama *see* Computational methods in flow analysis, 91e:76005

Princeton, NJ *see* Computational acoustics, Vol. 1. 91h:76002

— *see* Computational acoustics, Vol. 2. 91h:76003

— *see* Computational acoustics, Vol. 3. 91h:76004

Research in numerical fluid mechanics *see* Research in numerical fluid mechanics, 91k:76003

Special Issue:

Benjamin, T. Brooke *see* The Brooke Benjamin special issue, 91k:76004

Symposium:

Advanced Problems and Methods in Fluid Mechanics *see* XVIIIth Symposium on

Advanced Problems and Methods in Fluid Mechanics, 91h:76004

Numerical Analysis of Free Boundary Problems and Related Topics *see* Jitykyokai mondai noschikaiseki to sono shūhen. (Japanese) [Numerical analysis of free boundary problems and related topics] 91g:76001

Topological fluid mechanics *see* Topological fluid mechanics, 91h:76005

Turbulence and nonlinear dynamics in MHD flows *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005

Two phase flows and waves *see* Two phase flows and waves, 91e:76008

University Park, PA *see* The Brooke Benjamin special issue, 91k:76004

Workshop:

Instability and Transition *see* Instability and transition, Vol. I. 91h:76002

— *see* Instability and transition, Vol. II. 91h:76003

Turbulence and Nonlinear Dynamics in MHD Flows *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005

Two Phase Flows and Waves *see* Two phase flows and waves, 91e:76008

Items with secondary classifications in 76-06

- (André, J.-C.) *see* Turbulent shear flows, 91a:76051
- (Barmin, A. A.) *see* Current mathematical problems in mechanics and their applications, 91h:00028
- (Boffi, Vito C.) *see* Applications of mathematics in industry and technology, 91g:00040
- (Brenbica, C. A.) *see* Advances in boundary elements, 91f:00015
- (Buchler, J. R.) *see* Nonlinear astrophysical fluid dynamics, 91k:85001
- (Connor, J. J.) *see* Advances in boundary elements, 91f:00015
- (Cousteix, J.) *see* Turbulent shear flows, 91a:76051
- (Durst, F.) *see* Turbulent shear flows, 91a:76051
- (Engelbrecht, Jüri K.) *see* Nonlinear waves in active media, 91b:00046 and Nonlinear waves, 91e:00017
- (Gaponov-Grekhor, A. V.) *see* Nonlinear waves, 91e:00017
- (Golubitsky, M.) *see* Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Gottelman, S. T.) *see* Nonlinear astrophysical fluid dynamics, 91k:85001
- (Gruber, Ralf) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Hoffmann, Karl-Heinz) *see* Free boundary problems: theory and applications, 91g:00044
- (Hutchinson, John W.) *see* Advances in applied mechanics, 91e:73003 and 91k:00011
- (Iooss, Gérard) *see* Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Keyfitz, Barbara Lee) *see* Nonlinear evolution equations that change type, 91e:35004
- (Lauder, B. E.) *see* Turbulent shear flows, 91a:76051
- (Li, Kai Tai) *see* Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Lakovskii, I. A.) *see* Stability of motion of solids and of deformable systems, 91h:00037
- (Marsden, Jerrold E.) *see* Proceedings: Conference on Bifurcation Theory and its Numerical Analysis, 91h:00048
- (Maugis, Gérard A.) *see* Continuum models and discrete systems, 91m:00029 and 91m:00030
- (Neunzert, Helmut) *see* Applications of mathematics in industry and technology, 91g:00040
- (Périaux, Jacques) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Rabinovich, M. I.) *see* Nonlinear waves, 91e:00017
- (Sabaev, E. F.) *see* Applied problems in oscillation theory, 91e:00007
- (Schmidt, F. W.) *see* Turbulent shear flows, 91a:76051
- (Sedor, L. I.) *see* Current mathematical problems in mechanics and their applications, 91h:00028
- (Shaw, Richard Paul) *see* Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
- (Shearer, Michael) *see* Nonlinear evolution equations that change type, 91e:35004

(Sprekels, Jürgen) *see* Free boundary problems: theory and applications, 91g:00044

(Struminskii, V. V.) *see* Molecular gas dynamics and the mechanics of nonhomogeneous media, 91g:82001

(Whitelaw, J. H.) *see* Turbulent shear flows, 91a:76051

(Wu, Theodore V.) *see* Advances in applied mechanics, 91e:73003 and 91k:00011

Items listed otherwise than by author

Advances in applied mechanics ★ *Advances in applied mechanics*. Vol. 25. 91e:73003

— ★ *Advances in applied mechanics*. Vol. 27. 91k:00011

Advances in boundary elements ★ *Advances in boundary elements*. Vol. 2. 91f:00015

All-Union Conference:

Kinetic Theory of Rarefied and Dense Gas Mixtures and the Mechanics of Nonhomogeneous Media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001

Applications of mathematics in industry and technology ★ *Applications of mathematics in industry and technology*. 91g:00040

Applied problems in oscillation theory ★ Прикладные проблемы теории колебаний. (Russian) [Applied problems in oscillation theory] 91e:00007

Birthday:

Sedov, I. I. ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028

Cambridge, MA ★ *Advances in boundary elements*. Vol. 2. 91f:00015

Chaos and three-dimensional structure of turbulence ★ Midare no sanjikanaka to kaosu. II. (Japanese) [Chaos and three-dimensional structure of turbulence. II] 91k:58002

Colloquium:

Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and applications. Vol. II. 91g:00044

Nonlinear Waves in Active Media ★ Nonlinear waves in active media. 91b:00046

Conference:

Bifurcation Theory and its Numerical Analysis ★ Proceedings of the International Conference on Bifurcation Theory and its Numerical Analysis. 91b:00048

Boundary Element Methods ★ *Advances in boundary elements*. Vol. 2. 91f:00015

Current Mathematical Problems in Mechanics and their Applications ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028

Congress:

Applied Mathematics ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015

Differential Equations and Applications ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015

Continuum models and discrete systems ★ Continuum models and discrete systems. Vol. 1. 91m:00029

— ★ Continuum models and discrete systems. Vol. 2. 91m:00030

Current mathematical problems in mechanics and their applications ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028

Dijon ★ Continuum models and discrete systems. Vol. 1. 91m:00029

— ★ Continuum models and discrete systems. Vol. 2. 91m:00030

Free boundary problems: theory and applications ★ Free boundary problems: theory and applications. Vol. II. 91g:00044

Gainesville, FL ★ Nonlinear astrophysical fluid dynamics. 91k:85001

Irsee ★ Free boundary problems: theory and applications. Vol. II. 91g:00044

Karlsruhe ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German)

[Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00021

Lausanne ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

Leningrad ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001

Málaga ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015

Meeting:

GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00021

Molecular gas dynamics and the mechanics of nonhomogeneous media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001

Moscow ★ Современные математические проблемы механики и их приложения. (Russian) [Current mathematical problems in mechanics and their applications] 91b:00028

Nonlinear astrophysical fluid dynamics ★ Nonlinear astrophysical fluid dynamics. 91k:85001

Nonlinear evolution equations that change type ★ Nonlinear evolution equations that change type. 91e:35004

Nonlinear waves ★ Nonlinear waves. 2. 91e:00017

Nonlinear waves in active media ★ Nonlinear waves in active media. 91b:00046

Proceedings:

Conference on Bifurcation Theory and its Numerical Analysis ★ Proceedings of the International Conference on Bifurcation Theory and its Numerical Analysis. 91b:00048

Congress on Applied Mathematics ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First

Proceedings: (cont'd.)

Congress on Applied Mathematics] 91j:00015

Congress on Differential Equations and Applications ★ Actas del XI C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones)/I Congreso de Matemática Aplicada. (Spanish) [Proceedings of the XIth Congress on Differential Equations and Applications/First Congress on Applied Mathematics] 91j:00015

Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM.

(German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00021

Symposium on Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

Stability of motion of solids and of deformable systems ★ Устойчивость движения твердых тел в деформируемых системах. (Russian) [Stability of motion of solids and of deformable systems] 91b:00037

Symposium:

Applications of Mathematics in Industry and Technology ★ Applications of mathematics in industry and technology. 91g:00040

Chaos and Three-dimensional Structure of Turbulence ★ Midare no sanjikanaka to kaosu. II. (Japanese) [Chaos and three-dimensional structure of turbulence. II] 91k:58002

Continuum Models and Discrete Systems ★ Continuum models and discrete systems. Vol. 1. 91m:00029

— ★ Continuum models and discrete systems. Vol. 2. 91m:00030

Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91b:00050

Turbulent Shear Flows ★ Turbulent shear flows 6. 91a:76051

Tallinn ★ Nonlinear waves in active media. 91b:00046

Toulouse ★ Turbulent shear flows 6. 91a:76051

Turbulent shear flows ★ Turbulent shear flows 6. 91a:76051

Workshop:

Nonlinear Astronomy ★ Nonlinear astrophysical fluid dynamics. 91k:85001

X'ian ★ Proceedings of the International Conference on Bifurcation Theory and its Numerical Analysis. 91b:00048

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91b:00048

91b:00048

91b:00048

91b:00048

91b:00048

91b:00048

91b:00048

91b:00048

Mittelman, Hans D. The augmented skeleton method for parametrized capillary surfaces. (see 91b:00050)

Morvan, D. Application of the B.E.M. to the resolution of an unsteady diffusion problem. (see 91b:00042)

Najib, K. see Baranger, Jacques, (91b:00050)

Nasirowski, R. see Wolf-Gladrow, D. A.; et al., (Not in MR)

Niessner, H. A flexible quadrature method over Cauchy singularities in boundary integral equations. (see 91b:00041)

Pasquetti, R. (with Caruso, A.) A new software for the modelization of transient and nonlinear thermal diffusion. (see 91b:00042)

Périaux, Jacques see Glowinski, Roland; et al., (91e:65010)

Savareid, Ove (with Dahle, Helge K.; Espedal, Magne S.) Domain decomposition for reservoir flow problems. (see 91e:65010)

Shang, Xuan Yu see Liu, Ying Xi, (Not in MR)

Silvester, D. J. see Kechkar, N., (91b:00050)

Skourup, J. see Grilli, S. T.; et al., (91b:00041)

Spruck, Joel see Eydeland, Alexander; et al., (91b:00050)

Svendsen, I. A. see Grilli, S. T.; et al., (91b:00041)

Terrasson, G. see Glowinski, Roland; et al., (91e:65010)

Touza, Rachid see Cassaigne, Philippe, (91b:00050)

Trangenstein, John A. see Bell, John B.; et al., (91b:76003)

Turkington, Bruce see Eydeland, Alexander; et al., (91b:00050)

Vogeler, A. see Wolf-Gladrow, D. A.; et al., (Not in MR)

Welcome, Michael see Bell, John B.; et al., (91b:76003)

Wolf-Gladrow, D. A. (with Nasirowski, R.; Vogeler, A.) Numerical simulations of hydrodynamics with a pair interaction automaton in two dimensions. (Not in MR)

Yang, Zuo Sheng Boundary integral formulation for compressible nonlinear potential and Navier-Stokes equations. (see 91b:00050)

Items with secondary classifications in 76-08

Aliev, I. V. Comparison of the results of a numerical and an approximate-analytic solution of the Navier-Stokes equation. (Russian) (see 91e:00018)

Brebba, C. A. see DeFigueiredo, T. G. B., (91b:00041)

Cassot, F. (with Morvan, D.; Tonietto, G.) Unsteady flow through prosthetic heart valves: an integral approach coupled with a vortex method. (see 91b:00042)

DeFigueiredo, T. G. B. (with Brebba, C. A.) A hybrid displacement variational formulation of BEM. (see 91b:00041)

Degond, Pierre (with Raviart, P.-A.) On the numerical simulation of the kinetic equations of physics. (see 91b:00050)

Durst, F. see Razisillier, H.; et al., (Not in MR)

Esseev, E. G. (with Shoniya, V. V.) Difference schemes of flux vector splitting for shallow water equations. (Russian. English summary) (Not in MR)

Ewing, Richard E. Computational methods for nonlinear systems of partial differential equations arising in contaminant transport in porous media. (see 91e:65005)

Fröhner, Michael Numerical methods for diffusion-convection equations. (see 91e:00021)

Glimm, James Scientific computing: von Neumann's vision, today's realities, and the promise of the future. (see 91e:00024)

Guisa, I. see Razisillier, H.; et al., (Not in MR)

Hageman, Louis A. Relaxation parameters for the IQE iterative procedure for solving semi-implicit Navier-Stokes difference equations. (see 91e:65071)

Hall, W. S. (with Robertson, W. H.) Boundary element methods for acoustic wave scattering. (see 91b:00044)

Hänel, D. (with Meinke, M.; Schröder, Wolfgang²) Application of the multigrid method in solutions of the compressible Navier-Stokes equations. (see 91e:65008)

Jackson, Eric see She, Zhen Su; et al., (91e:00024)

Kakuda, K. see Tosaka, N., (91b:00041)

Liu, Chao Qun The finite volume element (FVE) and fast adaptive composite grid methods (FAC) for the incompressible Navier-Stokes equations. (see 91e:65008)

Ma, Fai (with Wei, Mein Sieng) Monte Carlo simulation of linear two-phase flow in heterogeneous media. (Not in MR)

Meinke, M. see Hänel, D.; et al., (91e:65008)

Milner, F. A. The Cahn-Hilliard equation of phase separation: the case of near constant mobility. (see 91b:00050)

Morvan, D. see Cassot, F.; et al., (91b:00042)

Neuberger, J. W. Calculation of sharp shocks using Sobolev gradients. (see 91e:00026)

(von Neumann, John) see Glimm, James, (91e:00024)

Noye, John A new third-order finite-difference method for transient one-dimensional advection-diffusion. (Not in MR)

Orszag, Steven A. see She, Zhen Su; et al., (91e:00024)

Razisillier, H. (with Guisa, I.; Durst, F.) Symbolic computation of flow in a rotating pipe. (Not in MR)

Raviart, P.-A. see Degond, Pierre, (91b:00050)

Robertson, W. H. see Hall, W. S., (91b:00044)

Robin, W. A. A noniterative solution of a system of ordinary differential equations arising from boundary layer theory. (Not in MR)

Schröder, Wolfgang² see Hänel, D.; et al., (91e:65008)

She, Zhen Su (with Jackson, Eric; Orszag, Steven A.) Intermittency of turbulence. (see 91e:00024)

Shoniya, V. V. see Esseev, E. G., (Not in MR)

Tonietto, G. see Cassot, F.; et al., (91b:00042)

Tosaka, N. (with Kakuda, K.) The generalized boundary element method for nonlinear problems. (see 91b:00041)

Wei, Mein Sieng see Ma, Fai, (Not in MR)

ghost charge. (Not in MR)

Gofdshtein, A. I. (with Poturav, V. N.; Shulyak, I. A.) Structure of the equations of hydrodynamics for a medium consisting of inelastic rough spheres. 91k:76006

Kupersmidt, Boris A. Hamiltonian formalism for reversible nonequilibrium fluids with heat flow. 91j:76002

— Form-invariance upon relativisation of the Hamiltonian structures of fluids is not universal. 91k:76007

Lebowitz, Joel L. (with Orlandi, Enza; Presutti, Errico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001

Liu, I-Shih (with Salvador, J. A.) Hyperbolic system for viscous fluids and simulation of shock tube flows. 91g:76002

Moiseev, S. S. see Altinskii, M. V., (Not in MR)

Oguz, Hasan N. (with Prosperetti, Andrea) A generalization of the impulse and virial theorems with an application to bubble oscillations. 91e:76001

Orlandi, Enza see Lebowitz, Joel L.; et al., 91m:76001

Orlov, Yu. N. Equations in hydrodynamics in post-Galilean approximation. (Russian) 91e:76009

Poturav, V. N. see Gofdshtein, A. I.; et al., 91k:76006

Presutti, Errico see Lebowitz, Joel L.; et al., 91m:76001

Prosperetti, Andrea see Oguz, Hasan N., 91e:76001

Salvador, J. A. see Liu, I-Shih, 91g:76002

Shulyak, I. A. see Gofdshtein, A. I.; et al., 91k:76006

Stuart, J. T. (with Tabor, Michael) The Lagrangian picture of fluid motion. 91k:76008

Tabor, Michael see Stuart, J. T., 91k:76008

Items with secondary classifications in 76A02

Caviglia, Giacomo (with Morro, Angelo) Conservation laws for incompressible fluids. 91e:76025

Cendra, Hernan (with Ibor, Luis A.; Marsden, Jerrold E.) Horizontal Lin constraints, Clebsch potentials and variational principles on principal fiber bundles. 91k:58028

Chekanov, Yu. V. see Kheslin, B. A., 91b:58071

Cherapanov, G. P. Invariant integrals in continuum mechanics. 91j:73007

De Mas, A. (with Esposito, Raffaele; Lebowitz, Joel L.; Presutti, Errico) Hydrodynamics of stochastic cellular automata. 91g:82052

Dohrushin, R. L. Caricatures of hydrodynamics. 91a:82056

Duffy, James W. see Ernst, M. H., 91c:82035 and (Not in MR)

Elkanowski, Marek (with Epstein, Marcelo; Śniatycki, Jędrzej) G-structures and material homogeneity. 91j:73008

Epstein, Marcelo see Elkanowski, Marek; et al., 91j:73008

Ernst, M. H. (with Duffy, James W.) Hydrodynamics and time correlation functions for cellular automata. 91c:82035

— (with Duffy, James W.) Erratum: "Hydrodynamics and time correlation functions for cellular automata" [J. Statist. Phys. 58 (1990), no. 1-2, 57-86; MR 91c:82035]. (Not in MR)

Esposito, Raffaele see De Mas, A.; et al., 91g:82052

Eyink, Gregory (with Lebowitz, Joel L.; Spohn, Herbert) Hydrodynamics of stationary nonequilibrium states for some stochastic lattice gas models. 91e:82046

Gliklikh, Yu. E. ★ Анализ на римановых многообразиях и задачи математической физики. (Russian) [Analysis on Riemannian manifolds and problems in mathematical physics] 91j:58031

Goncharov, V. P. Poisson brackets for hydrodynamic models with intrinsic degrees of freedom. 91j:58059

— Construction of canonical variables and the problem of "gauge" freedom in hydrodynamics. 91k:58038

Gouin, Henri Variational theory of mixtures in continuum mechanics. 91j:80003

Ibor, Luis A. see Cendra, Hernan; et al., 91k:58028

Kheslin, B. A. (with Chekanov, Yu. V.) Invariants of the Euler equations for ideal or barotropic hydrodynamics and superconductivity in D dimensions. 91b:58071

Lebowitz, Joel L. see Eyink, Gregory; et al., 91e:82046 and De Mas, A.; et al., 91g:82052

Marsden, Jerrold E. see Cendra, Hernan; et al., 91k:58028

Mazer, Arthur (with Ratiu, Tudor S.) Hamiltonian formulation of adiabatic free boundary Euler flows. 91e:58057

Morro, Angelo see Caviglia, Giacomo, 91e:76025

Orlov, Yu. N. (with Pavlotskii, I. P.) Equations of weakly relativistic viscous hydrodynamics. (Russian) 91e:76118

Osada, Hirofumi Limit points of empirical distributions of vortices with small viscosity. 91b:76039

Oseledec, V. I. A new form of writing out the Navier-Stokes equation. Hamiltonian formalism. 91e:58173

Pavlotskii, I. P. see Orlov, Yu. N., 91e:76118

Presutti, Errico see De Mas, A.; et al., 91g:82052

Ratiu, Tudor S. see Mazer, Arthur, 91e:58057

Sheretov, Yu. V. Navier-Stokes equations as the asymptotics of a generalized quasigasdynamical system. (Russian) 91m:76101

Śniatycki, Jędrzej see Elkanowski, Marek; et al., 91j:73008

Spohn, Herbert see Eyink, Gregory; et al., 91e:82046

Tekarchuk, V. V. Barnett approximation in the theory of hydrodynamic fluctuations. 91d:82035

Zakharov, V. E. On the algebra of integrals of motion in two-dimensional hydrodynamics in Clebsch variables. 91e:58064

76A05 Non-Newtonian fluids

Casal, Pierre (with Gouin, Henri) Invariance properties of inviscid fluids of grade n. 91b:76004

Chang, Wen-Dong (with Kazarinoff, Nicholas D.; Lu, Chun Qing) A new family of explicit solutions for the similarity equations modelling flow of a non-Newtonian fluid over a stretching sheet. 91k:76009

Clarletta, Michele (with Scarpetta, Edoardo) Minimum problems in the dynamics of viscous fluids with memory. 91b:76005

76Axx Foundations, constitutive equations, rheology

76A02 Foundations of fluid mechanics

Altinskii, M. V. (with Moiseev, S. S.) Supersymmetry in hydrodynamics: vorticity as a

- Cotsiolis, Athanasios (with Oskolkov, A. P.; Shadiev, R. D.) ★ Глобальные априорные оценки на полуоси $t \geq 0$, асимптотическая устойчивость и периодичность по времени "малых" решений уравнений движения жидкостей Олдройта и жидкостей Келлана-Фойгта. (Russian) [Global a priori estimates on the half-line $t \geq 0$, asymptotic stability and time periodicity of "small" solutions of equations for the motion of Oldroyd fluids and Kelvin-Voigt fluids] 91j:76003
- Dushin, V. R. The unsteady radial motion of a ring of non-Newtonian fluid with free boundaries. (Russian) 91e:76010
- Easwaran, C. V. (with Majumdar, S. R.) Causal fundamental solutions for the slow flow of a micropolar fluid. 91e:76011
- Feteciu, Constantin Generalized Poiseuille motions in second grade fluids. 91a:76002
- Garg, Vijay K. (with Rajagopal, K. R.) Stagnation point flow of a non-Newtonian fluid. (Not in MR)
- (with Rajagopal, K. R.) Flow of a non-Newtonian fluid past a wedge. (Not in MR)
- Gorodtsov, V. A. Spreading of a film of nonlinearly viscous liquid over a horizontal smooth solid surface. 91a:76003
- Gouin, Henri see Casal, Pierre, 91b:76004
- Kaloni, P. N. see Moro, L.; et al., 91k:76010
- Kazarinoff, Nicholas D. see Chang, Wen-Dong; et al., 91k:76009
- Kerchman, V. I. On the problem of the spreading and extrusion of a layer of a nonlinearly viscous fluid. 91k:76005
- Self-similar solutions of problems of the spreading and extrusion of a layer of a nonlinearly viscous fluid. (Russian) 91k:76006
- Kim, Jong Uhm A finite element approximation of three-dimensional motion of a Bingham fluid. (French summary) 91e:76012
- Kretschmar, H. see Kruel, R., 91f:65004
- Kruel, R. (with Kretschmar, H.) On mathematical modelling of non-Newtonian flow by perturbation methods. (see 91f:65004)
- Kröner, Hartmut Anwendung der Theorie pseudo-monotoner Operatoren bei Mehrschicht-Bingham-Strömungsaufgaben. (English and Russian summaries) [Application of the theory of pseudo-monotone operators in the multilayer flow of Bingham fluids] 91d:76001
- Lu, Chun Qing see Chang, Wen-Dong; et al., 91k:76009
- Majumdar, S. R. see Easwaran, C. V., 91e:76011
- Malik, David S. (with Nohel, John A.; Plohr, Bradley J.) Quadratic dynamical systems describing shear flow of non-Newtonian fluids. 91g:76003
- (with Nohel, John A.; Plohr, Bradley J.) Analysis of spurt phenomena for a non-Newtonian fluid. 91g:76004
- (with Nohel, John A.; Plohr, Bradley J.) Quadratic dynamical systems describing shear flow of non-Newtonian fluids. 91d:76002
- (with Nohel, John A.; Plohr, Bradley J.) Dynamics of shear flow of a non-Newtonian fluid. 91e:76013
- Moro, L. (with Siddiqui, M. A.; Kaloni, P. N.) Steady flows of a third grade fluid by transformation methods. (German and Russian summaries) 91k:76010
- Ngô Huy Can (with Nguyễn Xuân Huy; Tạ Ngọc Cau) On the convective motion in a micropolar viscous fluid. 91a:76004
- Nguyễn Xuân Huy see Ngô Huy Can; et al., 91a:76004
- Nohel, John A. (with Pego, Robert L.; Tzavaras, Athanasios E.) Nonlinear stability in non-Newtonian flows. 91m:76002
- see also Malik, David S.; et al., 91d:76002; 91e:76013; 91g:76003 and 91g:76004
- Oskolkov, A. P. On an estimate, uniform on the semiaxis $t > 0$, for the rate of convergence of Galerkin approximations for equations of motion of Kelvin-Voigt fluids. (Russian. English summary) 91E:76002
- see also Cotsiolis, Athanasios; et al., 91j:76003
- Pego, Robert L. see Nohel, John A.; et al., 91m:76002
- Plohr, Bradley J. see Malik, David S.; et al., 91d:76002; 91e:76013; 91g:76003 and 91g:76004
- Polyanin, A. D. see Zaitsev, V. F., 91c:76001
- Rajagopal, K. R. see Garg, Vijay K., (Not in MR) and (Not in MR)
- Scarpetta, Eduardo see Chiarletta, Michele, 91b:76005
- Shadiev, R. D. see Cotsiolis, Athanasios; et al., 91j:76003
- Siddiqui, A. M. Some more inverse solutions of a non-Newtonian fluid. 91m:76003
- Siddiqui, M. A. see Moro, L.; et al., 91k:76010
- Tạ Ngọc Cau see Ngô Huy Can; et al., 91a:76004
- Tzavaras, Athanasios E. see Nohel, John A.; et al., 91m:76002
- Yin, Wan Lee Some kinematical results concerning steady flows and extensional flows. 91a:76005
- Zaitsev, V. F. (with Polyanin, A. D.) Exact solutions of the boundary layer equations for power-law fluids. 91c:76001
- Items with secondary classifications in 76A05
- Ames, K. A. (with Payne, Lawrence E.; Straughan, Brian) On the possibility of global solutions for variant models of viscous flow on unbounded domains. 91b:76035
- Angel, Y. C. On the static and dynamic equilibrium of concentrated loads in linear acoustics and linear elasticity. 91E:73016
- Antontsev, S. N. Localization of solutions for degenerate equations in continuum mechanics. 91h:35259
- Bai, Dong Hua A flow problem for power law fluids with yield stress. (Chinese. English summary) 91h:35331
- Baranger, Jacques (with El Amri, Hassan) Estimateurs a posteriori d'erreur pour le calcul adaptatif d'écoulements quasi-newtoniens. (English summary) [A posteriori error estimates for the adaptive computation of quasi-Newtonian flows] 91m:76070
- Chandna, O. P. (with Nguyen, Phu Van) Hodograph method in non-Newtonian MHD transverse fluid flows. 91a:76006
- see also Nguyen, Phu Van, 91e:76115
- Chen, Da Peng (with Zhao, Zhong) A weighted penalty finite element method for the analysis of power-law fluid flow problems. (Not in MR)
- Coleman, C. J. Some boundary integral approaches to the flow of elastic fluids. (see 91h:60043)
- Deville, M. O. Chebyshev collocation solutions of flow problems. 91g:76063
- El Amri, Hassan see Baranger, Jacques, 91m:76070
- Fall, Mohamed Diodé Régularité de l'écoulement stationnaire d'un fluide non newtonien. (English summary) [Regularity of stationary non-Newtonian fluid flow] 91g:35206
- Guerreiro, João Nisan C. see Loula, Abimeil F. D., 91a:73070
- Loula, Abimeil F. D. (with Guerreiro, João Nisan C.) Finite element analysis of nonlinear creeping flows. 91a:73070
- Nguyen, Phu Van (with Chandna, O. P.) Hodographic study of non-Newtonian MHD aligned steady plane fluid flows. 91e:76115
- see also Chandna, O. P., 91a:76006
- Nohel, John A. (with Pego, Robert L.; Tzavaras, Athanasios E.) Stability of discontinuous steady states in shearing motions of a non-Newtonian fluid. 91d:76045
- Pascal, H. (with Pascal, J. P.) Nonlinear effects of non-Newtonian fluids on natural convection in a porous medium. 91a:76082
- Some self-similar two-phase flows of non-Newtonian fluids through a porous medium. 91h:76101
- Pascal, J. P. see Pascal, H., 91a:76082
- Patria, Maria Cristina Stability questions for a third-grade fluid in exterior domains. 91d:76046
- Payne, Lawrence E. see Ames, K. A.; et al., 91b:76035
- Pego, Robert L. see Nohel, John A.; et al., 91d:76045
- Phan-Thien, N. (with Zheng, R.) Viscoelastic flow in a curved channel: a similarity solution for the Oldroyd-B fluid. 91j:76004
- Phillips, Timothy N. (with Soliman, Ibrahim M.) Influence matrix technique for the numerical spectral simulation of viscous incompressible flows. 91k:76134
- Rodríguez, José-Francisco A steady-state solidification problem for a non-Newtonian fluid. (see 91g:60044)
- Soliman, Ibrahim M. see Phillips, Timothy N., 91k:76134
- Straughan, Brian see Ames, K. A.; et al., 91b:76035
- Tripathi, Durga Dutt Hodograph transformation in non-Newtonian EMFD flows. 91k:76158
- Tzavaras, Athanasios E. see Nohel, John A.; et al., 91d:76045
- Wilson, S. D. R. The Taylor-Saffman problem for a non-Newtonian liquid. 91h:76043
- Zhao, Zhong see Chen, Da Peng, (Not in MR)
- Zheng, R. see Phan-Thien, N., 91j:76004

76A10 Viscoelastic fluids

- Babu, Bangali see Gupta, Mukesh, (Not in MR)
- Char, Ming-I see Chen, Cha'o-Kuang; et al., (Not in MR)
- Chen, Cha'o-Kuang (with Char, Ming-I; Cleaver, J. W.) Temperature field in non-Newtonian flow over a stretching plate. (Not in MR)
- Cleaver, J. W. see Chen, Cha'o-Kuang; et al., (Not in MR)
- Coleman, Bernard D. On the loss of regularity of shearing flows of viscoelastic fluids. 91g:76005
- Crochet, M. J. (with Delvaux, V.) Numerical simulation of inertial viscoelastic flow with change of type. 91g:76006
- Delvaux, V. see Crochet, M. J., 91g:76006
- Dunwoody, J. Criteria for simple fluid dissipation. 91k:76011
- Ehram, Benjamin F., Jr. (with Weinacht, Richard J.) Boundary conditions for viscoelastic flows. (Italian summary) 91k:76012
- Fabrizio, Mauro Constitutive properties and constraints for viscous fluids with memory. (Italian) 91a:76006
- Fraenkel, L. E. On a linear, partly hyperbolic model of viscoelastic flow past a plate. 91e:76002
- Guilloché, C. (with Saut, Jean-Claude) Existence results for the flow of viscoelastic fluids with a differential constitutive law. 91h:76007
- (with Saut, Jean-Claude) Global existence and one-dimensional nonlinear stability of shearing motions of viscoelastic fluids of Oldroyd type. (French summary) 91c:76003
- Gupta, Mukesh (with Babu, Bangali) Hele-Shaw flow of dusty Rivlin-Ericksen fluid. (Not in MR)
- Joseph, Daniel D. Hyperbolicity, change of type, wave speeds and related matters. 91a:76007
- ★ Fluid dynamics of viscoelastic liquids. 91d:76003
- Mathematical problems associated with the elasticity of liquids. 91e:76014
- Lasseigne, D. Glenn (with Olmstead, W. E.) Stability of a viscoelastic Burgers flow. 91f:76003
- Olmstead, W. E. see Lasseigne, D. Glenn, 91f:76003
- Phan-Thien, N. (with Zheng, R.) Viscoelastic flow in a curved channel: a similarity solution for the Oldroyd-B fluid. 91j:76004
- Sliding and squeezing flow of a viscoelastic fluid in a wedge. (Not in MR)
- Plohr, Bradley J. Instabilities in shear flow of viscoelastic fluids with fading memory. 91h:76006
- Renardy, Michael A well-posed boundary value problem for supercritical flow of viscoelastic fluids of Maxwell type. 91h:76008
- Boundary conditions for steady flows of viscoelastic fluids. 91c:76004
- Saut, Jean-Claude see Guilloché, C., 91c:76003 and 91h:76007
- Weinacht, Richard J. see Ehram, Benjamin F., Jr., 91k:76012
- Zheng, R. see Phan-Thien, N., 91j:76004

Items with secondary classifications in 76A10

- Agranovich, Ya. Ya. (with Sobolevskii, P. E.) Investigation of a mathematical model of a viscoelastic fluid. (Russian. English summary) 91b:35091
- Akhatov, I. Sh. Shear instability in stratified viscoelastic and gas-fluid media. 91a:76043
- Aurlant, J.-L. see Boutin, C., 91k:73059
- Baranger, Jacques (with Sandri, Dominique) Approximation par éléments finis d'écoulements de fluides viscoélastiques: existence de solutions approchées et majoration d'erreur. I. Contraintes discontinues. (English summary) [Finite-element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints] 91m:65268

- Beslin, C. (with Auriault, J.-L.) Dynamic behaviour of porous media saturated by a viscoelastic fluid. Application to bituminous concretes. 91b:73059
- Caviglia, Giacomo (with Morro, Angelo; Pagani, Enrico) Inhomogeneous waves in viscoelastic media. 91b:73044
- Chukmasov, S. A. see Gulyaev, Ya. G.; et al., 91b:73053
- Cohen, Donald S. (with White, Andrew B., Jr.) Sharp fronts due to diffusion and viscoelastic relaxation in polymers. 91b:35058
- Cook, L. Pamela (with Schleisner, G.; Weinacht, Richard J.) Composite type, change of type, and degeneracy in first order systems with applications to viscoelastic flows. 91b:35188
- Cotsiolis, Athanase (with Oskolkov, A. P.; Shadiev, R. D.) A priori estimates on the semiaxis for solutions of equations of motion of linear viscoelastic fluids with an infinite Dirichlet integral and their applications. (Russian. English summary) 91b:35261
- Cox, Robert W. Shocks in a model for stress-driven diffusion. 91b:35167
- Druyan, V. M. see Gulyaev, Ya. G.; et al., 91b:73053
- Finlayson, Bruce A. see Rao, Rekha R., 91b:76066
- Fleury, Françoise Vibrations linéaires d'une suspension de particules rigides. (English summary) [Linear vibrations in a suspension of rigid particles] 91b:76046
- Gulyaev, Ya. G. (with Druyan, V. M.; Chukmasov, S. A.; Kostizhev, G. P.; Lev, O. I.) A problem-oriented method for solving the second boundary value problem of the mechanics of a nonlinearly viscous medium. 91b:73053
- Kostrizhev, G. P. see Gulyaev, Ya. G.; et al., 91b:73053
- Larson, Ronald Gary (with Shaqfeh, Eric S. G.; Muller, S. J.) A purely elastic instability in Taylor-Couette flow. 91b:76043
- Leroy, Yves M. see Molinari, Alain, 91b:73026
- Le Tallec, Patrick (with Ravachol, Michel) Finite element approximation of viscoelastic progressively incompressible flows. 91b:76017
- Numerical analysis of viscoelastic problems. 91b:73029
- Lev, O. I. see Gulyaev, Ya. G.; et al., 91b:73053
- Malik, David S. (with Nohel, John A.; Plohr, Bradley J.) Quadratic dynamical systems describing shear flow of non-Newtonian fluids. 91b:76003
- (with Nohel, John A.; Plohr, Bradley J.) Quadratic dynamical systems describing shear flow of non-Newtonian fluids. 91b:76002
- (with Nohel, John A.; Plohr, Bradley J.) Dynamics of shear flow of a non-Newtonian fluid. 91b:76013
- Molinari, Alain (with Leroy, Yves M.) Existence and stability of stationary shear bands with mixed-boundary conditions. (French summary) 91b:73026
- Morro, Angelo see Caviglia, Giacomo; et al., 91b:73044
- Muller, S. J. see Larson, Ronald Gary; et al., 91b:76043
- Nohel, John A. see Malik, David S.; et al., 91b:76002; 91b:76013 and 91b:76003
- Orlov, V. P. (with Sobolevskii, P. E.) Investigation of mathematical models of multidimensional viscoelastic media. (Russian. English summary) 91b:73046
- (with Sobolevskii, P. E.) On mathematical models of a viscoelasticity with a memory. 91b:35226
- Oskolkov, A. P. see Cotsiolis, Athanase; et al., 91b:35261
- Pagani, Enrico see Caviglia, Giacomo; et al., 91b:73044
- Patrizi, Maria Cristina Stability questions for a third-grade fluid in exterior domains. 91b:76046
- Plohr, Bradley J. see Malik, David S.; et al., 91b:76002; 91b:76013 and 91b:76003
- Rao, Rekha R. (with Finlayson, Bruce A.) On the quality of viscoelastic flow solutions: an adaptive refinement study of a Newtonian and a Maxwell fluid. 91b:76066
- Ravachol, Michel see Le Tallec, Patrick, 91b:76017
- Saasen, Arild (with Tyvand, Peder A.) Rayleigh-Taylor instability and Rayleigh-type waves on a Maxwell-fluid. (German summary) (Not in MR)
- Sandri, Dominique see Baranger, Jacques, 91b:65268
- Schleisner, G. see Cook, L. Pamela; et al., 91b:35188
- Shadiev, R. D. see Cotsiolis, Athanase; et al., 91b:35261
- Shaqfeh, Eric S. G. see Larson, Ronald Gary; et al., 91b:76043
- Singh, K. K. see Singh, Kanhi, 91b:76084
- Singh, Kanhi (with Singh, K. K.) Unsteady flow of a dusty visco-elastic liquid through a hexagonal channel. 91b:76084
- Sobolevskii, P. E. see Agranovich, Ya. Ya., 91b:35091; Orlov, V. P., 91b:73046 and 91b:35226
- Sukacheva, T. G. see Sviriduk, G. A., 91b:34096
- Sviriduk, G. A. Solvability of a model problem in the dynamics of an incompressible viscoelastic fluid. (Russian) 91b:35125
- (with Sukacheva, T. G.) The Cauchy problem for a class of semilinear equations of Sobolev type. 91b:34096
- Tyvand, Peder A. see Saasen, Arild, (Not in MR)
- Weinacht, Richard J. see Cook, L. Pamela; et al., 91b:35188
- White, Andrew B., Jr. see Cohen, Donald S., 91b:35058

76A15 Liquid crystals [see also 82D30]

- Ionija, Gabriela Arbitrary acceleration waves in liquid crystals. I. Waves in subfluids. 91b:76007
- Arbitrary acceleration waves in liquid crystals. II. Waves in liquid crystals. 91b:76008
- Items with secondary classifications in 76A15
- Ambrosio, Luigi Existence of minimal energy configurations of nematic liquid crystals with variable degree of orientation. 91b:58025
- Cohen, Robert Adam (with Taylor, Michael E.) Weak stability of the map $x/|x|$ for liquid crystal functionals. 91b:58053
- Glaquinta, Mariano (with Modica, Giuseppe; Souček, Jiří) Liquid crystals: relaxed energies, dipoles, singular lines and singular points. 91b:58034
- Haupt, P. (with Tsakmakis, Ch.) On the application of dual variables in continuum mechanics. 91b:73002
- Joets, A. see Ribotta, R., 91b:76039
- Modica, Giuseppe see Glaquinta, Mariano; et al., 91b:58034
- Ribotta, R. (with Joets, A.) Defects and disorder of nonlinear waves in convection. 91b:76039

- Souček, Jiří see Glaquinta, Mariano; et al., 91b:58034
- Taylor, Michael E. see Cohen, Robert Adam, 91b:58053
- Tsakmakis, Ch. see Haupt, P., 91b:73002

76A99 None of the above, but in this section

- Almgren, Frederick J., Jr. (with Gurtin, Morton E.) A mathematical contribution to Gibbs's analysis of fluid phases in equilibrium. 91b:76009
- Baldo, Sisto Minimal interface criterion for phase transitions in mixtures of Cahn-Hilliard fluids. (French summary) 91b:76005
- Dinariev, O. Yu. On the velocity of propagation of a signal in a fluid with relaxation. 91b:76013
- Eringen, C. Cemal Theory of thermo-microstretch fluids and bubbly liquids. 91b:76008
- Gouin, Henri Variational method for fluid mixtures of grade n . (see 91b:00030)
- Gurtin, Morton E. see Almgren, Frederick J., Jr., 91b:76009
- Koch, Donald L. see Shaqfeh, Eric S. G., 91b:76015
- Kraynik, Andrew M. see Reiselt, Douglas A., (Not in MR)
- Reiselt, Douglas A. (with Kraynik, Andrew M.) On the shearing flow of foams and concentrated emulsions. (Not in MR)
- Shaqfeh, Eric S. G. (with Koch, Donald L.) Orientational dispersion of fibers in extensional flows. 91b:76015
- Vichnasek, Gérard Y. Cellular-automata fluids. 91b:76014
- Items with secondary classifications in 76A99
- Arnold, Gary S. see Drew, Donald A.; et al., 91b:76054
- Drew, Donald A. (with Arnold, Gary S.; Lahey, Richard T., Jr.) Relation of microstructure to constitutive equations. 91b:76054
- Evolution of geometric statistics. 91b:76079
- Finochiaro, P. (with Restuccia, L.) Growth of thermo-acceleration waves in a model of irreversible thermodynamics. (Italian summary) 91b:80002
- Flitman, L. M. Nonseparated high-velocity elastoplastic flow around a blunt body. (Russian) 91b:73025
- Fredrickson, Glenn H. see Shaqfeh, Eric S. G., 91b:82061
- Fritz, J. Hydrodynamics in a symmetric random medium. 91b:82060
- Glowinski, Roland (with Le Tallec, Patrick) Augmented Lagrangian and operator-splitting methods in nonlinear mechanics. 91b:73038
- Gurtin, Morton E. (with Struthers, Allan; Williams, William O.) A transport theorem for moving interfaces. 91b:73017
- Kayumov, Sh. (with Sadykov, M. K.) A regularized difference scheme for solving boundary value problems of nonlinear filtration. (Russian) 91b:76000
- Kremer, G. M. see Liu, I-Shih, 91b:76048
- Lahey, Richard T., Jr. see Drew, Donald A.; et al., 91b:76054
- Le Tallec, Patrick see Glowinski, Roland, 91b:73038
- Liu, I-Shih Extended thermodynamics of viscoelastic materials. 91b:73009
- (with Kremer, G. M.) Hyperbolic system of field equations for viscous fluids. (Portuguese summary) 91b:76048
- Matthaeus, W. H. see Zank, G. P., 91b:76050
- Mazo, A. B. Hydrodynamics of an isothermal ice shelf. (Russian) (Not in MR)
- Murdoch, A. I. A coordinate-free approach to surface kinematics. 91b:73023
- Payne, Lawrence E. (with Straughan, Brian) Order of convergence estimates on the interaction term for a micropolar fluid. 91b:76040
- Pen'kov, V. B. see Tolokannikov, L. A., 91b:73057
- Pimbley, G. H. A semigroup for Lagrangian 1D isentropic flow. 91b:35092
- Restuccia, L. see Finochiaro, P., 91b:80002
- Sadykov, M. K. see Kayumov, Sh., 91b:76000
- Shaqfeh, Eric S. G. (with Fredrickson, Glenn H.) The hydrodynamic stress in a suspension of rods. 91b:82061
- Straughan, Brian see Payne, Lawrence E., 91b:76040
- Struthers, Allan see Gurtin, Morton E.; et al., 91b:73017
- Tolokannikov, L. A. (with Pen'kov, V. B.) Some effective solutions of a problem on the flow of a metal in a layer. 91b:73057
- Torquato, Sal Random heterogeneous media: microstructure and improved bounds on effective properties. 91b:82070
- Williams, William O. see Gurtin, Morton E.; et al., 91b:73017
- Zank, G. P. (with Matthaeus, W. H.) The equations of nearly incompressible fluids. I. Hydrodynamics, turbulence, and waves. 91b:76050

76Bxx Incompressible inviscid fluids, potential theory

- Items with secondary classifications in 76Bxx
- (Handelman, G. H.) see Lin, Chia Chiao, 91a:00013
- Lin, Chia Chiao (with Segel, Lee A.) Mathematics applied to deterministic problems in the natural sciences. 91a:00013
- (O'Malley, Robert E., Jr.) see Lin, Chia Chiao, 91a:00013
- Segel, Lee A. see Lin, Chia Chiao, 91a:00013
- 76B05 Airfoil theory
- Dewynne, J. N. (with Morland, L. C.; Watson, E. J.) Weak suction from a channel flow into a circular orifice. 91b:76004
- Guermood, Jean-Luc A generalized lifting-line theory for curved and swept wings. 91b:76006
- Morland, L. C. see Dewynne, J. N.; et al., 91b:76004
- Watson, E. J. see Dewynne, J. N.; et al., 91b:76004
- Zohar, A. I. Calculation of hydrodynamical reactions on a solid profile that oscillates in a fluid at rest. 91b:76005

Items with secondary classifications in 76B05

- Aslanov, S. K. On the solution of problems for flows [around airfoils moving] with the speed of sound. (Russian) 91b:76074
- Borde, J. (with Crouzeix, J.-P.) Continuity properties of the normal cone to the level sets of a quasiconvex function. 91m:49012
- Bonsquet, J. ★ Méthode des singularités. (French) [The method of singularities] 91h:76050
- Casciola, C. M. (with Lancia, M. R.) A variational approach for boundary integral equations in potential aerodynamics. (Italian summary) 91d:76050
- Crouzeix, J.-P. see Borde, J., 91m:49012
- Dragos, Lazar Boundary element methods (BEM) in the theory of thin airfoils. 91c:76077
- On the integration of the equation of thin airfoils by quadrature formulae of Gauss type. (Not in MR)
- Egorov, E. E. A boundary value problem for a rectilinear grid of supercavitating profiles with finite cavities. (Russian) 91c:76017
- Elizarov, A. M. (with Fedorov, E. V.) Optimization of the form of wing profiles by the method of inverse boundary value problems. (Russian) (Not in MR)
- Fedorov, E. V. see Elizarov, A. M., (Not in MR)
- Isichenko, I. V. (with Kononov, A. V.; Levchenko, E. S.; Savin, A. S.) An inverse problem for the flow around singularities by a two-dimensional ideal fluid with a free boundary. 91c:76019
- Kononov, A. V. see Isichenko, I. V.; et al., 91c:76019
- Lancia, M. R. see Casciola, C. M., 91d:76050
- Levchenko, E. S. see Isichenko, I. V.; et al., 91c:76019
- Lifanov, I. K. Velocity calculation in the method of discrete vortices. 91m:76086
- Savin, A. S. see Isichenko, I. V.; et al., 91c:76019
- Sri Namachchivaya, N. (with Van Roessel, H. J.) Unfolding of double-zero eigenvalue bifurcations for supersonic flow past a pitching wedge. (Not in MR)
- Van Roessel, H. J. see Sri Namachchivaya, N., (Not in MR)
- Yang, Z. C. see Zhao, Ling Cheng, 91c:73054
- Zhao, Ling Cheng (with Yang, Z. C.) Chaotic motions of an airfoil with nonlinear stiffness in incompressible flow. 91c:73054

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing

- Andreev, V. K. Non-steady-state potential flow of a shallow cylinder. (Russian) 91m:76005
- Atassi, H. M. (with Grzedzinski, J.) Unsteady disturbances of streaming motions around bodies. 91c:76016
- Belyaev, N. M. (with Bobrikov, I. L.; Kashnikov, V. V.) A generalization of the Trefftz method for penetration problems. (Russian) (see 91b:00029)
- Birnir, Björn (with Smereka, Peter) Existence theory and invariant manifolds of bubble clouds. 91b:76010
- Blake, J. R. see Paull, R., 91c:76010
- Bloor, M. I. G. see King, Andrew Charles, 91c:76006 and 91c:76008
- Bobrikov, I. L. see Belyaev, N. M.; et al., (91b:00029)
- Drábek, Pavel see Peřínka, Ladislav; et al., (Not in MR)
- Egorov, E. E. A boundary value problem for a rectilinear grid of supercavitating profiles with finite cavities. (Russian) 91c:76017
- Englisch, V. see Parltitz, Ulrich; et al., 91c:76020
- Filippov, S. I. see Lotfallin, M. V., (Not in MR)
- Forbes, Lawrence K. Two-layer critical flow over a semi-circular obstruction. 91b:76011
- (with Hocking, Graeme C.) Flow caused by a point sink in a fluid having a free surface. 91c:76018
- see also Hocking, Graeme C., 91b:76009
- Grzedzinski, J. see Atassi, H. M., 91c:76016
- Gu, Mao Xiang see Sun, Be Qi, 91b:76016
- Hayashi, R. see Kida, Teruhiko; et al., 91c:76015
- Hocking, Graeme C. (with Forbes, Lawrence K.) A note on the flow induced by a line sink beneath a free surface. 91b:76009
- see also Forbes, Lawrence K., 91c:76018
- Howison, S. D. (with Ockendon, J. R.; Wilson, S. K.) Incompressible water-entry problems at small deadrise angles. 91m:76006
- Isichenko, I. V. (with Kononov, A. V.; Levchenko, E. S.; Savin, A. S.) An inverse problem for the flow around singularities by a two-dimensional ideal fluid with a free boundary. 91c:76019
- Jain, D. L. see Sharma, K. A., 91b:76010
- Kashnikov, V. V. see Belyaev, N. M.; et al., (91b:00029)
- Keller, Joseph B. On unsymmetrically impinging jets. 91d:76004
- see also Ting, Lu, 91j:76008
- Khazanov, M. V. A problem on a piston in the motion of a fluid with a free surface in a channel of circular cross section. 91c:76007
- Kida, Teruhiko (with Hayashi, R.; Yasutomi, Z.) A theoretical remark about waves on a static water surface beneath a layer of moving air. 91b:76015
- King, Andrew Charles (with Bloor, M. I. G.) Free streamline flow over curved topography. 91g:76008
- (with Bloor, M. I. G.) Free-surface flow of a stream obstructed by an arbitrary bed topography. 91c:76006
- Komarenko, A. N. Equivalence of the Hamilton-Ostrogradskii principle and of a boundary value problem of the dynamics of a fluid in a vessel. (Russian) 91c:76007
- Kononov, A. V. see Isichenko, I. V.; et al., 91c:76019
- Lanza de Cristoforis, Massimo Cavitation flows and global injectivity of conformal maps. 91g:76009
- Lauterborn, Werner see Parltitz, Ulrich; et al., 91c:76020
- Lawrie, J. B. Surface-tension-driven flow in a wedge. 91c:76008
- Levchenko, E. S. see Isichenko, I. V.; et al., 91c:76019
- Longuet-Higgins, Michael S. An analytic model of sound production by raindrops. 91b:76012
- Lotfallin, M. V. (with Filippov, S. I.) The motion of a profile under a free surface of a heavy fluid of finite depth. (Russian) (Not in MR)

- Lukovskii, I. A. (with Timokha, A. N.) A variational formulation of a nonlinear boundary value problem with an unknown interface between two regions. (Russian) 91c:76009
- (with Pilkevich, A. M.) Mathematical modeling of strongly nonlinear processes with resonance interaction of a body with a bounded volume of fluid. (Russian) 91b:76013
- Lupu, Mircea L'étude du mouvement des fluides en présence de corps rallongés dans le cas plan ou axial symétrique en utilisant des transformations quasi-conformes. (Romanian summary) [Study of fluid flow in the presence of elongated bodies in the planar or axial symmetric case using quasiconformal transformations] 91b:76014
- Lyton, C. C. see Needham, D. J.; et al., 91b:76015
- Milob, Touvin On the oblique water-entry problem of a rigid sphere. 91m:76007
- Minenko, A. S. A nonlinear problem of the potential flow of a fluid. (Russian) 91a:76009
- Mládk, Petr see Peřínka, Ladislav; et al., (Not in MR)
- Needham, D. J. (with Riley, N.; Lyton, C. C.; Smith, J. H. B.) A jet in crossflow. II. 91b:76015
- Ockendon, J. R. see Howison, S. D.; et al., 91m:76006
- Parltitz, Ulrich (with Englisch, V.; Scheffczyk, C.; Lauterborn, Werner) Bifurcation structure of bubble oscillators. 91c:76020
- Paull, R. (with Blake, J. R.) Conserved quantities for axisymmetric cavities near boundaries. 91c:76010
- Peřínka, Ladislav (with Drábek, Pavel; Mládk, Petr) The influence of seismic motions to the sloshing of fluid in horizontal steam generator. (Not in MR)
- Pilkevich, A. M. see Lukovskii, I. A., 91b:76013
- Polysakov, N. V. On the solution of a problem of embedding a body into a fluid that has finite depth. (Russian) (see 91b:00029)
- Rahman, Matin Three-dimensional Green's function for ship motion at forward speed. 91j:76007
- Rennie, B. C. Kelvin's impulsive wrench with a free surface. 91a:76011
- Riley, N. see Needham, D. J.; et al., 91b:76015
- Savin, A. S. see Isichenko, I. V.; et al., 91c:76019
- Scheffczyk, C. see Parltitz, Ulrich; et al., 91c:76020
- Sharma, K. A. (with Jain, D. L.) Hydrodynamical problem of uniform streaming past four equal infinite coaxial circular rigid strips. 91b:76010
- Shen, M. C. see Shen, S. S. P.; et al., 91c:76010
- Shen, S. S. P. (with Shen, M. C.; Sun, S. M.) A model equation for steady surface waves over a bump. 91c:76010
- Smereka, Peter see Birnir, Björn, 91b:76010
- Smith, J. H. B. see Needham, D. J.; et al., 91b:76015
- Sun, Be Qi (with Gu, Mao Xiang) A numerical method for second order mean forces and slowly varying forces on a floating structure. 91b:76016
- Sun, S. M. see Shen, S. S. P.; et al., 91c:76010
- Timokha, A. N. see Lukovskii, I. A., 91c:76009
- Ting, Lu (with Keller, Joseph B.) Slender jets and thin sheets with surface tension. 91j:76008
- Varley, Eric (with Walker, J. D. A.) A method for solving singular integrodifferential equations. 91a:76012
- Walker, J. D. A. see Varley, Eric, 91a:76012
- Wilson, S. K. see Howison, S. D.; et al., 91m:76006
- Yasutomi, Z. see Kida, Teruhiko; et al., 91c:76015
- Ye, Qu Yuan Riabouchinsky model and deep closures of the cavity after vertical water entry of a sphere. (Not in MR)

Items with secondary classifications in 76B10

- Evans, D. V. The wide-spacing approximation applied to multiple scattering and sloshing problems. 91a:76013
- Gershkov, A. G. (with Tarlakovskii, D. V.) Dynamical contact problems for a deformable half-space. (Russian. English summary) 91m:73068
- Huang, He Ning (with Wang, Fa Jun) High-order boundary conditions for the problems of Laplace equation in infinite region and their application. 91k:65148
- Kamenetskii, D. S. (with Ryaben'kii, V. S.) Solution of boundary value problems for the Laplace equation in a domain with a cut by the method of difference potentials. (Russian) 91j:65172
- Karabut, E. A. Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. I. Determination of the coefficients of the power series. (Russian) 91k:76120
- Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. II. Determination of singular points. (Russian) 91k:76121
- Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. III. Change of variables in the power series. (Russian) 91k:76122a
- Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. IV. Asymptotic properties of the coefficients of the power series. (Russian) 91k:76122b
- Kim, Moon Uhn see Lee, Han-Yong, 91g:76081
- Lee, Han-Yong (with Kim, Moon Uhn) Numerical solution of plane and axially symmetric jet flow problems based on the variational inequality formulation. 91g:76081
- Oestreich, Dieter Singular integral equations applied to free surface seepage from nonlinear channels. 91c:76016
- Oguz, Hasan N. (with Prosperetti, Andrea) A generalization of the impulse and virial theorems with an application to bubble oscillations. 91f:76001
- Oliver, F. Nonlinear wave propagation in a nondiffusive model of bubbly liquids. 91j:76068
- Prosperetti, Andrea see Oguz, Hasan N., 91f:76001
- Ryaben'kii, V. S. see Kamenetskii, D. S., 91j:65172
- Tarlakovskii, D. V. see Gershkov, A. G., 91m:73068
- Vlasov, I. I. Variation of conformal mapping under singular deformation of a domain and its application to jet theory. (Russian) 91m:30033
- Wang, Fa Jun see Huang, He Ning, 91k:65148
- Wang, Wen Liang see Wu, Xing Shi, (Not in MR)
- Wu, Xing Shi (with Wang, Wen Liang) A double compatible technique for hydroelastic vibration analysis of liquid containers. (Not in MR)

Zabolot'skaya, E. A. Nonlinear waves in a liquid with gas bubbles. (Russian. English summary) (see 91h:76029)

76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [see also 35Q53]

- Akshnov, A. L. The existence of periodic solutions in Galerkin approximations of a system of equations in "shallow water" theory. (Russian) (see 91h:00036)
- Akylas, T. R. (with Kung, T.-J.) On nonlinear wave envelopes of permanent form near a caustic. 91c:76011
- see also Mathew, Joseph², 91d:76006
- Aleksandrova, N. M. Diffraction of long nonlinear waves by a vertical pier. 91m:76008
- Aleshkov, Yu. Z. ★ Теория взаимодействия волн с препятствием. (Russian) [The theory of the interaction of waves with barriers] 91j:76009
- Al-Hawaj, A. Y. (with Essawy, A. H.; Faltas, M. S.) The diffraction of Kelvin wave due to a narrow headland normal to an infinite coastline. (Not in MR)
- Arcilla, A. S. (with Lemos, C. M.) ★ Surf-zone hydrodynamics. 91m:76009
- Ayanle, Hassan (with Bernoff, Andrew J.; Lichter, Seth) Spanwise modal competition in cross-waves. 91g:76010
- Bakhaldin, I. B. Averaged equations and wave jumps describing the propagation of Stokes waves with slowly varying parameters. 91c:76012
- Bassanini, Piero (see Pitelli, F.; et al., 91c:76020)
- Becker, Janet M. (with Miles, John W.) Standing radial cross-waves. 91m:76010
- Bernoff, Andrew J. (see Ayanle, Hassan; et al., 91g:76010 and Underhill, William B.; et al., 91m:76019)
- Bridges, Thomas J. (see Dias, Frédéric, 91h:76017)
- Buntseva, N. B. Local estimates for solutions of a system of differential equations of shallow water for the case of the motion of a fluid in a narrow channel. (Russian) 91j:76006
- Bulgarelli, U. (see Pitelli, F.; et al., 91c:76020)
- (Bunkin, F. V.) see Nonlinear wave processes, 91b:76029
- Capodanno, Pierre Plane small oscillations of a rigid body with a cavity containing a liquid and closed by an elastic cover. 91c:76013
- Sur le problème des vibrations de deux liquides non miscibles dans un container en apesantour. (On the problem of the vibrations of two immiscible liquids in a container in the absence of gravity) 91m:76011
- Cooker, M. J. (with Peregrine, D. H.; Vidal, C.; Dold, J. W.) The interaction between a solitary wave and a submerged semicircular cylinder. 91c:76014
- Dai, Xian Xi (see Huang, Guo Xiang; et al., 91b:76025 and 91c:76015)
- Dias, Frédéric (with Bridges, Thomas J.) The third-harmonic resonance for capillary-gravity waves with $O(2)$ spatial symmetry. 91b:76017
- Dodd, Nicholas Reflective properties of parabolic approximations in shallow water wave propagation. 91m:76012
- Dold, J. W. (see Cooker, M. J.; et al., 91c:76014)
- Ehrenmark, Ulf Tersten On viscous wave motion over a plane beach. 91m:76013
- Essawy, A. H. (see Al-Hawaj, A. Y.; et al., (Not in MR)
- Evans, D. V. The wide-spacing approximation applied to multiple scattering and sloshing problems. 91a:76013
- (with McIver, P.) Trapped waves over symmetric thin bodies. 91h:76016
- see also Linton, C. M., 91c:76018 and Watson, E. B., 91m:76020
- Falqués, Alberto A boundary reduction method for the dynamics of a fluid with free surface. (Spanish. English summary) 91a:76014
- Faltas, M. S. (see Al-Hawaj, A. Y.; et al., (Not in MR)
- Filipp, K. V. (see Mustyatsk, A. F., (Not in MR)
- Gahov, S. A. (with Tverskoi, M. B.) The flow of a floating fluid of finite depth in the presence of variable pressure on the free surface. (Russian) 91b:76018
- The Cauchy-Poisson problem in the theory of a floating fluid. 91b:76020
- Flow of a floating fluid with formation of standing waves over an uneven periodically changing bottom. 91b:76021
- (with Sveshnikov, A. G.) Mathematical problems of the dynamics of a floating fluid. (Russian) 91c:76021
- (with Tverskoi, M. B.) A study of the flow of a heavy fluid in the presence of a periodic external action. (Russian) 91b:76022
- Ghosh, N. K. (see Mandal, B. N., 91c:76024)
- Goldshtein, R. V. (with Marchenko, A. V.) Diffraction of two-dimensional gravity waves by the edge of an ice covering. 91b:76023
- Gorshkov, A. S. (see Volyak, K. I., 91c:76030)
- Grimshaw, R. H. J. Resonant wave interactions in a stratified shear flow. 91b:76024
- Resonant flow over topography. (see 91f:58001)
- Guha-Roy, Chanchal (with Sinha, D. K.) On a coupled water wave system. 91j:76010
- Henderson, Diane M. (with Miles, John W.) Faraday waves in 2:1 internal resonance. 91k:76017
- see also Miles, John W., 91c:76019 and Becker, Janet M., 91m:76010
- Hermans, A. J. Slowly moving hull forms in short waves. 91h:76018
- Huang, Guo Xiang (with Lou, Sen Yue; Dai, Xian Xi; Yan, Jia Ren) A model equation and its exact two-dimensional solitary wave solutions for water wave dynamics. 91b:76025
- (with Dai, Xian Xi; Lou, Sen Yue) Generalization to cylindrical coordinate system for the higher order KdV and KP equation. 91c:76015
- Huang, Si Xun Nonlinear gravity inertial wave of two dimensions and discussion of the possibility of solitary wave's existence. 91f:76004
- Igarashi, Yuchiro (see Takimoto, Nobuo; et al., 91m:76018)
- Isakov, R. V. (see Zhevandrov, P. N., 91g:76013)
- Jeffrey, Alan (with Xu, Siqing) Travelling wave solutions to certain nonlinear evolution equations. 91a:76015
- Johnson, E. R. The low-frequency scattering of Kelvin waves by stepped topography. 91c:76022
- Johnson, R. S. Ring waves on the surface of shear flows: a linear and nonlinear theory. 91c:76023
- Kambe, Tsutomu (with Umeki, M.) Nonlinear dynamics of two-mode interactions in parametric excitation of surface waves. 91c:76016
- Kenyon, Kern E. (with Sheres, David) Stable gravity wave of arbitrary amplitude in finite depth. 91a:76016
- Kim, Moo-Hyun (with Yue, Dick K. P.) The complete second-order diffraction solution for an asymmetric body. II. Bichromatic incident waves and body motions. 91c:76017
- Kirchgässner, Klaus Nonlinearly resonant surface waves and homoclinic bifurcation. 91i:76007
- Korobkin, A. A. The Cauchy-Poisson problem for a basin with a vertical barrier. 91j:76011
- Fundamental solution of the Cauchy-Poisson problem for a basin with an uneven bottom. 91m:76014
- Krasnopol'skaya, T. S. (with Shvets, A. Yu.) Regular and chaotic surface waves in a fluid with a bounded excitation of oscillations of a cylindrical tank. 91h:76011
- Krasnoslobodtsev, A. V. Gas dynamic and kinetic analogues in the theory of vertically inhomogeneous shallow water. (Russian. English summary) 91h:76012
- Kundu, Prabir Kumar (see Mandal, B. N., 91f:76005 and 91k:76020)
- Kung, T.-J. (see Akylas, T. R., 91c:76011)
- Laedke, E. W. (with Spatschek, K. H.) On localized solutions in nonlinear Faraday resonance. 91k:76019
- Lemos, C. M. (see Arcilla, A. S., 91m:76009)
- Levi, Decio Integrable nonlinear evolution equations in the description of waves in the shallow-water long-wave approximation. 91d:76005
- Lichter, Seth (see Ayanle, Hassan; et al., 91g:76010 and Underhill, William B.; et al., 91m:76019)
- Lighthill, James Emendations to a proof in the general three-dimensional theory of oscillating sources of waves. 91a:76017
- Linton, C. M. (with Evans, D. V.) The interaction of waves with arrays of vertical circular cylinders. 91c:76018
- Liu, Ying Zhong (see Miao, Guo Ping, 91c:76026)
- Lou, Sen Yue (see Huang, Guo Xiang; et al., 91b:76025 and 91c:76015)
- Mandal, B. N. (with Ghosh, N. K.) Generations of waves at an inertial surface due to explosions. 91c:76024
- (with Kundu, Prabir Kumar) Scattering of water waves by a submerged nearly vertical plate. 91f:76005
- A note on the reflection coefficient for a class of water wave scattering problems. (Not in MR)
- (with Kundu, Prabir Kumar) A note on the transmission of oblique waves through small apertures. 91k:76020
- On waves due to small oscillations of a vertical plate submerged in deep water. 91h:76013
- Marchant, T. R. (with Roberts, A. J.) Reflection of nonlinear deep-water waves incident onto a wedge of arbitrary angle. 91c:76025
- (with Smyth, N. F.) The extended Korteweg-de Vries equation and the resonant flow of a fluid over topography. 91k:76021
- Marchenko, A. V. (see Goldshtein, R. V., 91b:76023)
- Mathew, Joseph² (with Akylas, T. R.) On three-dimensional long water waves in a channel with sloping sidewalls. 91d:76006
- Matsuoaka, Chikuro (with Yajima, Nobuo) Reflection and transmission of two-dimensional shallow water solitons. 91b:76026
- Mazur, Y. Yu. (see Verbitskii, V. E.; et al., 91k:76022)
- McIver, M. (with McIver, P.) Second-order wave diffraction by a submerged circular cylinder. 91g:76011
- McIver, P. (see McIver, M., 91g:76011 and Evans, D. V., 91k:76016)
- Miao, Guo Ping (with Liu, Ying Zhong) On velocity potentials due to pulsating pressure distributions on the free surface of infinite-depth waters and the radiation conditions for second-order diffraction problems. 91c:76026
- Milder, D. Michael The effects of truncation on surface-wave Hamiltonians. 91h:76014
- Miles, John W. (with Henderson, Diane M.) Parametrically forced surface waves. 91c:76019
- Parametrically excited standing edge waves. 91d:76007
- Wave reflection from a gently sloping beach. 91d:76008
- see also Henderson, Diane M., 91h:76017 and Becker, Janet M., 91m:76010
- Miloh, Tuvia On periodic and solitary wave-like solutions of the intermediate long-wave equation. 91d:76009
- Moussa, Nahil On permanent capillary-heavy waves of two liquids flowing one upon the other. 91f:76006
- Mustyatsk, A. F. (with Filipp, K. V.) A complete model of the process of the propagation of long waves on the surface of a fluid of variable depth. (Russian) (Not in MR)
- Nailimov, V. I. Supercritical flows from behind a panel. 91c:76027
- Narain, Ajit (with Sinha, S. R. P.) The highest waves on the interface of two homogeneous liquids. (Not in MR)
- Nayfeh, Ali Hasan (with Nayfeh, J. F.) Surface waves in closed basins under principal and autoparametric resonances. 91f:76007
- Nayfeh, J. F. (see Nayfeh, Ali Hasan, 91f:76007)
- Nirmala, N. (with Vedan, M. J.) Wave interaction on water of variable depth. 91g:76012
- Okamoto, Hisashi On the problem of water waves of permanent configuration. 91b:76027
- Pelinovskii, E. N. Nonlinear theory of sea wave run-up. 91f:76008
- Peregrine, D. H. (see Cooker, M. J.; et al., 91c:76014)
- Pitelli, F. (with Bassanini, Piero; Bulgarelli, U.) A numerical method for studying the interaction between a partially submerged body and the surrounding fluid. (Italian summary) 91c:76020
- Quasthoff, Karla Bifurcation points of capillary-gravity waves. 91j:76012
- Roberts, A. J. (see Marchant, T. R., 91c:76025)
- Romanova, N. N. Construction of normal variables for waves in a two-layer medium with a linear velocity profile. 91m:76015
- Rumyantsev, B. N. On the theory of unsteady waves in shallow water of variable depth in the presence of a singularity at the shore edge. 91m:76016
- Seleznov, I. T. Propagation and transformation of surface gravity waves in a fluid of finite depth. (Russian. English summary) 91m:76017
- Shen, M. C. (see Shen, S. S. P., 91c:76028)
- Shen, S. S. P. (with Shen, M. C.) On the limit of subcritical free-surface flow over an obstruction. 91c:76028
- Sheres, David (see Kenyon, Kern E., 91a:76016)

- Shoji, Mayumi New bifurcation diagrams in the problem of permanent progressive waves. 91b:76028
- Shvets, A. Yu. *see* Krasnopol'skaya, T. S., 91b:76011
- Sinha, D. K. *see* Guha-Roy, Chanchal, 91b:76010
- Sinha, S. R. P. *see* Narain, Ajit, (Not in MR)
- Smyth, N. F. *see* Marchant, T. R., 91b:76021
- Spatschek, K. H. *see* Laedke, E. W., 91b:76019
- Sveshnikov, A. G. *see* Gabor, S. A., 91b:76021
- Takimoto, Noboru (with Tanaka, Seiji; Igarashi, Yuichiro) Amplitude modulations in parametric amplification. 91m:76018
- Tanaka, Seiji *see* Takimoto, Noboru; et al., 91m:76018
- Taranakov, V. I. A lower bound on the natural frequencies of oscillations of a fluid with a free surface in channels of arbitrary cross section. 91b:76029
- Tsai, Wu-Ting (with Yue, Dick K. P.; Yip, Kenneth M. K.) Resonantly excited regular and chaotic motions in a rectangular wave tank. 91d:76010
- Tverskoi, M. B. On the problem of determining free and forced waves of finite amplitude on the surface of a heavy fluid. (Russian) 91b:76019
- *see also* Gabor, S. A., 91b:76018 and 91b:76022
- Umeki, M. *see* Kambe, Tsutomu, 91c:76016
- Underhill, William B. (with Lichter, Seth; Bernoff, Andrew J.) Modulated, frequency-locked, and chaotic cross-waves. 91m:76019
- Vedan, M. J. *see* Nirmala, N., 91g:76012
- Verbitskii, V. E. (with Vorob'ev, Yu. L.; Mazur, V. Yu.) Approximate solution of a two-dimensional problem with transformation of waves over symmetric obstacles. (Russian) 91b:76022
- Vidal, C. *see* Cooker, M. J.; et al., 91c:76014
- Velyak, K. I. (with Gornik, A. S.) Surface opposing-wave interaction above a periodically rough bottom. 91b:76030
- Counter waves in an ocean. (Russian. English summary) 91b:76015
- *see also* Nonlinear wave processes, 91b:76029
- Vorob'ev, Yu. L. *see* Verbitskii, V. E.; et al., 91b:76022
- Watson, E. B. B. (with Evans, D. V.) Resonant frequencies of a fluid in containers with internal bodies. 91m:76020
- Weck, Norbert On a boundary value problem in the theory of linear water waves. 91c:76021
- Xu, Siqing *see* Jeffrey, Alan, 91a:76015
- Yajima, Nobuo *see* Matsunaka, Chihiro, 91b:76026
- Yan, Jia Ren *see* Huang, Guo Xiang; et al., 91b:76025
- Yih, Chia-Shun Nonlinear groups of gravity-capillary waves. (Not in MR)
- Yip, Kenneth M. K. *see* Tsai, Wu-Ting; et al., 91d:76010
- Yue, Dick K. P. *see* Kim, Moo-Hyun, 91c:76017 and Tsai, Wu-Ting; et al., 91d:76010
- Zhevaev, P. N. (with Isakov, R. V.) The Cauchy-Poisson problem for a two-layered fluid of variable depth. 91g:76013
- Zhou, Qing Fu Zakharov equation for surface gravity waves in shear flow. 91b:76023
- Items listed otherwise than by author
- Nonlinear wave processes ★ Нелинейные волновые процессы. (Russian) [Nonlinear wave processes] 91b:76029
- Items with secondary classifications in 76B15
- Akalenko, L. D. (with Mikhailov, S. A.; Nesterov, S. V.) Oscillations of an oscillator near the interface of two fluids. 91d:76081
- Amick, C. J. (with Toland, J. F.) A differential equation in the theory of resonant oscillations of water waves. 91b:34069
- Aranha, J. A. P. (with Martins, C. A.) Diffraction of sea waves by a slender body. II. Water of finite depth. 91b:76031
- Armbruster, Dieter (with Guckenheimer, John; Kim, Seung-hwan) Chaotic dynamics in systems with square symmetry. 91g:58176
- Askar, Atilla *see* Can, Mehmet, 91b:76023
- Athanasoulis, G. A. (with Politis, C. G.) On the solvability of a two-dimensional wave-body interaction problem. 91b:35260
- Athorne, C. (with Rogers, Colin; Ramgulum, U.; Osbaldestin, A.) On linearization of the Ermakov system. 91b:34056
- Baker, Gregory R. (with Meiron, Daniel I.; Orszag, Steven A.) Generalized vortex methods for free surface flow problems. II. Radiating waves. 91d:76063
- Barclay, D. W. *see* Moodie, T. Bryant, 91b:73047
- Basu, Manjuri *see* Debnath, Lokenath; et al., 91g:76098
- Bhattach, O. P. (with Vijayakumar, K.; Mital, Poornima; Chandrasekaran, G.) On invariant solutions of the generalized Korteweg-de Vries equation in a variable medium. I. 91c:35180
- (with Chandrasekaran, G.; Mital, Poornima; Vijay Kumar, K.) On invariant solutions of the generalized Korteweg-de Vries-Burgers type equations. II. 91c:35181
- Bloor, M. I. G. *see* King, Andrew Charles, 91b:76006
- Botti, M. (with Leon, Jérôme Jp.; Pempinelli, F.) Waves in the Davey-Stewartson equation. 91m:35213
- Boyd, John Phillip Exact and approximate nonlinear waves generated by the periodic superposition of solitons. 91a:35143
- Bridges, Thomas J. (with Dias, Frédéric) An analysis of two-dimensional water waves based on $O(2)$ symmetry. 91c:58059
- $O(2)$ -invariant Hamiltonians on C^2 and the (m, n) mode-interaction problem for capillary-gravity waves. 91a:58125
- Can, Mehmet (with Askar, Atilla) Nonlinear elastic surface gravity waves: continuous and discontinuous solutions. 91b:76023
- Capodanno, Pierre Vibrations d'un liquide dans un vase fermé par une plaque élastique. (English summary) [Vibrations of a liquid in a container closed by an elastic plate] 91c:73091
- Petites oscillations de deux liquides pesants non miscibles dans un container. [Small oscillations of two immiscible heavy liquids in a container] 91c:73092
- Plane small oscillations of a liquid in a container with elastic bottom. 91c:73093
- Small planar oscillations of a container with elastic cover containing two immiscible liquids. 91c:73094
- Caponi, E. A. (with Yuen, H. C.; Milinazzo, F. A.; Saffman, Philip G.) Water-wave instability induced by a drift layer. 91m:76050
- Casull, Vincenzo (with Cheng, Ralph T.) Stability analysis of Eulerian-Lagrangian methods for the one-dimensional shallow-water equations. 91b:76056
- Chandrasekaran, G. *see* Bhattach, O. P.; et al., 91c:35180 and 91c:35181
- Chang, M.-H. *see* Ramasinghe, A. I., 91b:35232
- Chashechkin, Yu. D. *see* Kistovich, A. V., 91m:76026
- Chen, Yunkai (with Wen, Shih Liang) Derivation and asymptotic solutions to the two-dimensional Korteweg-de Vries equation. 91b:35095
- Cheng, Ralph T. *see* Casull, Vincenzo, 91b:76056
- Chou, Ru Ling *see* Chu, C. K., (91k:00011)
- Chu, C. K. (with Chou, Ru Ling) Solitons induced by boundary conditions. (see 91k:00011)
- Clarkson, Peter A. Painlevé analysis and the complete integrability of a generalized variable-coefficient Kadomtsev-Petviashvili equation. 91b:58009
- Conca, Carlos (with Planchard, Jacques; Vanninathan, M.) Sur les bornes du spectre de résonance des faisceaux tubulaires immergés dans un fluide. (English summary) [Bounds of the eigenspectrum of tube bundles immersed in a fluid] 91b:73074
- Crawford, John David (with Knobloch, Edgar; Riecke, Hermann) Period-doubling mode interactions with circular symmetry. 91m:58112
- Crow, John A. *see* Guenther, Ronald B., (91m:35004)
- Ding-Dih Ang (with Tran Thanh) A nonlinear pseudoparabolic equation. 91b:35262
- Debnath, Lokenath (with Guha, Uma B.; Basu, Manjuri) The Cauchy-Poisson waves in an inviscid rotating stratified liquid. 91g:76098
- Deshwal, P. S. *see* Mohan, Narinder, 91b:86001
- Dias, Frédéric *see* Bridges, Thomas J., 91c:58059
- Evseev, E. G. (with Shoniya, V. V.) Difference schemes of flux vector splitting for shallow water equations. (Russian. English summary) (Not in MR)
- Fabrikant, A. L. *see* Stepan'yants, Yu. A., 91b:76045
- Feng, Z. C. (with Sethna, P. R.) Chaotic surface waves in a parametrically excited container with almost square cross section. 91c:58089
- Fusco, D. (with Manganaro, N.) Evolution equations compatible with quasilinear hyperbolic models involving source-like terms. 91b:35194
- Gabor, S. A. Nonlinear waves of a certain type that are describable by the Dubreil-Jacotin equation. 91a:35139
- (with Simakov, S. T.) Linear problems in the dynamics of a floating fluid. Existence theorems. 91j:35228
- Ghidaglia, Jean-Michel (with Saut, Jean-Claude) On the initial value problem for the Davey-Stewartson systems. 91b:35299
- Gibbons, John (with Kupershmidt, Boris A.) Connections between free-surface systems of hydrodynamic type and generalized kinetic equations. 91b:35100
- Grill, S. T. (with Skouris, J.; Svendsen, I. A.) The modelling of highly nonlinear water waves: a step toward a numerical wave tank. (see 91b:00041)
- Grimshaw, R. H. J. *see* Mitsunaga, H., 91m:76027
- Guan, Ke Ying Static solutions of mixed Burgers-KdV equation. II. 91b:35226
- Guckenheimer, John *see* Armbruster, Dieter; et al., 91g:58176
- Guenther, Ronald B. (with Crow, John A.) Damping of shallow water waves. (see 91m:35004)
- Guha, Uma B. *see* Debnath, Lokenath; et al., 91g:76098
- Günral, H. (with Nutku, Y.) Multi-Hamiltonian structure of equations of hydrodynamic type. 91j:35229
- Homer, M. S. Boundary value problems for the Laplace tidal wave equation. 91d:34025
- Huang, Ming You A Hamiltonian approximation to simulate solitary waves of the Korteweg-de Vries equation. 91m:65249
- Hunter, John K. Numerical solutions of some nonlinear dispersive wave equations. (see 91c:65005)
- Khabakhpasheva, T. I. On the spectrum of an operator that arises in a problem on the stability of waves in deep water. (Russian) 91b:76074
- Kim, Seung-hwan *see* Armbruster, Dieter; et al., 91g:58176
- King, Andrew Charles (with Bloor, M. I. G.) Free-surface flow of a stream obstructed by an arbitrary bed topography. 91c:76006
- Kistovich, A. V. (with Chashechkin, Yu. D.) Generation, propagation and nonlinear interaction of internal waves. (Russian. English summary) 91m:76026
- Knobloch, Edgar *see* Crawford, John David; et al., 91m:58112
- Kopachevskii, N. D. (with Krein, S. G.; Ngô Huy Can) ★ Операторные методы в линейной гидродинамике. (Russian) [Operator methods in linear hydrodynamics] 91b:76001
- Krein, S. G. *see* Kopachevskii, N. D.; et al., 91b:76001
- Kudryashov, N. A. Exact solutions of nonlinear wave equations that are encountered in mechanics. 91b:35180
- Kupershmidt, Boris A. *see* Gibbons, John, 91b:35100
- Lardner, R. W. (with Smoczyński, P.) A vertical/horizontal splitting algorithm for three-dimensional tidal and storm surge computations. 91c:86002
- Leon, Jérôme Jp. *see* Botti, M.; et al., 91m:35213
- Li, Zhi Shen Existence of global solutions to the generalized BBM [Benjamin-Bona-Mahony] equation. (Chinese. Not in MR)
- The initial-boundary value problem for the multidimensional generalized Benjamin-Bona-Mahony system of equations. (Chinese. English summary) 91b:35182
- Liu, Ying Zhong *see* Tang, Ling, 91m:76118
- Loa, Sen Yue A note on the new similarity reductions of the Boussinesq equation. 91j:35243
- Lao, De Hai On the Benjamin-Ono equation and its generalization in the atmosphere. 91c:86006
- Manganaro, N. *see* Fusco, D., 91b:35194
- Mao, Yi *see* Wei, Rong Jue; et al., (Not in MR)
- Martins, C. A. *see* Aranha, J. A. P., 91b:76031
- Meiron, Daniel I. *see* Baker, Gregory R.; et al., 91d:76063
- Miao, Guo Qing *see* Wei, Rong Jue; et al., (Not in MR)
- Mikhailov, S. A. *see* Akulenko, L. D.; et al., 91d:76081
- Miles, John W. Wave motion in a viscous fluid of variable depth. 91b:76047
- The capillary boundary layer for standing waves. 91b:76024
- Millinazzo, F. A. *see* Caponi, E. A.; et al., 91m:76050

- Mital, Poornima. *see* Bhutani, O. P.; et al., 91c:35180 and 91c:35181
- Mitsuda, H. (with Grimshaw, R. H. J.) Effects of radiative damping on resonantly generated internal gravity waves. 91m:76027
- Mohan, Narinder (with Deshwal, P. S.) P-wave scattering at vertical barriers in a deep ocean. 91j:86001
- Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012
- (with Barclay, D. W.) Padé-extended wavefront expansions and nonlinear dissipative waves. 91k:73047
- Morris, J. L. *see* Pathria, D., 91d:35204
- Murakami, Youshi Obliquely interacting N traveling waves: exact solutions of some two-dimensional nonlinear diffusion equations. 91d:35105
- Nachbin, A. (with Papanicolaou, George) The long time behaviour of a vectorized boundary element code for water wave problems. (see 91f:80015)
- Nagata, Masato Nonlinear Faraday resonance in a box with a square base. 91c:76058
- Naumkin, P. I. (with Shishmarov, I. A.) A system of equations that describe surface waves. 91h:35264
- Nesterov, S. V. *see* Akulenko, L. D.; et al., 91d:76081
- Ngô Huy Can *see* Kopačevskii, N. D.; et al., 91h:76001
- Nutku, Y. *see* Gümral, H., 91j:35229
- Oliveri, F. Nonlinear wave propagation in a nondiffusive model of bubbly liquids. 91j:76068
- Orszag, Steven A. *see* Baker, Gregory R.; et al., 91d:76063
- Osbaldestin, A. *see* Athorne, C.; et al., 91h:34056
- Osborne, A. R. (with Segre, E.) Numerical solutions of the Korteweg-de Vries equation using the periodic scattering transform μ -representation. 91h:35288
- Papanicolaou, George *see* Nachbin, A., (91f:80015)
- Park, Mi Ai On the Rosenau equation. (Portuguese summary) 91j:35244
- Pathria, D. (with Morris, J. L.) Pseudo-spectral solution of nonlinear Schrödinger equations. 91d:35204
- Pavoni, D. Single and multidomain Chebyshev collocation methods for the Korteweg-de Vries equation. 91h:65184
- Pemlinelli, F. *see* Bötti, M.; et al., 91m:35213
- Planchar, Jacques *see* Conca, Carlos; et al., 91h:73074
- Politis, C. G. *see* Athanassoulis, G. A., 91h:35260
- Popov, S. P. *see* Zhuk, V. I., (Not in MR)
- Purkait, Sasanka (with Roy Chowdhury, A.) On a different approach to the bi-Hamiltonian structure of higher-order water-wave equations. 91h:58068
- Quasthoff, Karin Bifurcation and stability of capillary-gravity waves. (German and Russian summaries) 91j:35037
- Ramgarn, U. *see* Athorne, C.; et al., 91h:34056
- Ramasingham, A. L. (with Chang, M.-H.) Solution of the Burgers equation on semi-infinite and finite intervals via a stream function. 91k:35232
- Riecke, Hermann *see* Crawford, John David; et al., 91m:58112
- Rogers, Colin Generation of invariance theorems for nonlinear boundary-value problems in shallow water theory: an application of MACSYMA. (see 91g:80046)
- *see also* Athorne, C.; et al., 91h:34056
- Rosales, Rodolfo R. Canonical equations of long wave weakly nonlinear asymptotics. 91d:35176
- Roy Chowdhury, A. *see* Purkait, Sasanka, 91h:58068
- Saffman, Philip G. *see* Caponi, E. A.; et al., 91h:76050
- Sagdeev, R. Z. *see* Zaslavskii, G. M., 91d:58062
- Sanchez Hubert, J. (with Sánchez-Palencia, E.) ★ Vibration and coupling of continuous systems. 91c:80018
- Sánchez-Palencia, E. *see* Sanchez Hubert, J., 91c:80018
- Sant, Jean-Claude On the Cauchy problem for the Davey-Stewartson system. (see 91h:35001)
- *see also* Ghidaglia, Jean-Michel, 91h:35299
- Schulkes, R. M. S. M. Fluid oscillations in an open, flexible container. 91c:73097
- Segre, E. *see* Osborne, A. R., 91h:35288
- Semenov, A. Yu. *see* Volyak, K. I.; et al., 91h:76033
- Sethna, P. R. *see* Feng, Z. C., 91c:58089
- Shishmarov, I. A. *see* Naumkin, P. I., 91h:35264
- Shon'ya, V. V. *see* Ersev, E. G., (Not in MR)
- Shugan, I. V. *see* Volyak, K. I.; et al., 91h:76033
- Simakov, S. T. *see* Gabov, S. A., 91j:35228
- Skourup, J. *see* Grilli, S. T.; et al., (91h:80041)
- Smoczyński, P. *see* Lardner, R. W., 91c:86002
- Stepanyants, Yu. A. (with Fabrikant, A. L.) Propagation of waves in hydrodynamic shear flows. 91a:76045
- Svendsen, I. A. *see* Grilli, S. T.; et al., (91h:80041)
- Swaters, Gordon E. *see* Moodie, T. Bryant, 91d:76012
- Tang, Ling (with Liu, Ying Zhong) Evolution of slowly modulated wave train on porous sea bed. 91m:76118
- Toda, Morikazu ★ Nonlinear waves and solitons. 91f:35001
- Toland, J. F. *see* Amick, C. J., 91f:34069
- Tran Thanh *see* Đặng Đình Ấng, 91h:35262
- Vanninathan, M. *see* Conca, Carlos; et al., 91h:73074
- Vijayakumar, K. *see* Bhutani, O. P.; et al., 91c:35180 and 91c:35181
- Vladimirov, Ya. V. The field of internal waves in a neighborhood of a front that is excited by a source moving over a slowly varying bottom. 91h:76032
- Volyak, K. I. (with Semenov, A. Yu.; Shugan, I. V.) Interaction of surface and internal waves. (Russian. English summary) 91h:76033
- Wang, Ben Ren *see* Wei, Rong Jue; et al., (Not in MR)
- Wei, Rong Jue (with Wang, Ben Ren; Mao, Yi; Zheng, Xiao Yu; Miao, Guo Qing) Further investigation of nonpropagating solitons and their transition to chaos. (Not in MR)
- Wen, Shih Liang *see* Chen, Yunkai, 91h:35095
- Yan, Chun Tao High accurate scheme for Boussinesq equation. 91d:76061
- Yuen, H. C. *see* Caponi, E. A.; et al., 91h:76050
- Zabolot'skaya, E. A. Nonlinear waves in a liquid with gas bubbles. (Russian. English summary) (see 91h:76029)
- Zaslavskii, G. M. (with Sagdeev, R. Z.) ★ Введение в нелинейную физику. (Russian) [Introduction to nonlinear physics] 91d:58062
- Zheng, Xiao Yu *see* Wei, Rong Jue; et al., (Not in MR)
- Zhu, Jiang Characteristic numerical methods for nonlinear RLW equations. (Chinese. English summary) 91g:65203
- Zhuk, V. I. (with Popov, S. P.) Modeling of nonlinear waves in boundary layers on the basis of the Burgers, Benjamin-Ono and Korteweg-de Vries equations. (Russian. English summary) (Not in MR)

Items listed otherwise than by author

- Fluid and gas mechanics ★ Механика жидкостей и газа. Том 24. (Russian) [Fluid and gas mechanics. Vol. 24] 91k:76002
- Itogi Nauki i Tekhniki ★ Механика жидкостей и газа. Том 24. (Russian) [Fluid and gas mechanics. Vol. 24] 91k:76002

76B20 Ship waves

- Araha, J. A. P. (with Martins, C. A.) Diffraction of sea waves by a slender body. II. Water of finite depth. 91c:76031
- Martins, C. A. *see* Araha, J. A. P., 91c:76031
- Nakos, D. E. (with Slavounos, P. D.) On steady and unsteady ship wave patterns. 91c:76022
- Slavounos, P. D. *see* Nakos, D. E., 91c:76022
- Ursell, F. On the theory of the Kelvin ship-wave source: the near-field convergent expansion of an integral. 91a:76018
- Items with secondary classifications in 76B20
- Aleshkov, Yu. Z. ★ Теория взаимодействия волн с преградами. (Russian) [The theory of the interaction of waves with barriers] 91j:76009
- Ship hydrodynamics. (Russian) (see 91k:80010)
- Hermann, A. J. Slowly moving hull forms in short waves. 91k:76018
- Rahman, Matfir Three-dimensional Green's function for ship motion at forward speed. 91j:76007

76B25 Solitary and cnoidal waves [see also 35Q51]

- Chou, Ru Ling *see* Chu, C. K., (91k:80011)
- Chu, C. K. (with Chou, Ru Ling) Solitons induced by boundary conditions. (see 91k:80011)
- Guo, Bo Ling (with Pan, Xiu De) N soliton solution for a class of the system of LS nonlinear wave interaction. 91j:76013
- Marchenko, V. F. *see* Volyak, K. I.; et al., (91h:76029)
- Pan, Xiu De *see* Guo, Bo Ling, 91j:76013
- Strel'tsov, A. M. *see* Volyak, K. I.; et al., (91h:76029)
- Volyak, K. I. (with Marchenko, V. F.; Strel'tsov, A. M.) The modeling of hydrodynamic solitons in nonlinear transmission lines. (Russian. English summary) (see 91h:76029)
- Wang, Ben Ren (with Wei, Rong Jue) What cause the nonpropagating solitons to move. (Not in MR)
- Wei, Rong Jue *see* Wang, Ben Ren, (Not in MR)
- Items with secondary classifications in 76B25
- Akylas, T. R. (with Kung, T.-J.) On nonlinear wave envelopes of permanent form near a caustic. 91c:76011
- Aleshkov, Yu. Z. ★ Теория взаимодействия волн с преградами. (Russian) [The theory of the interaction of waves with barriers] 91j:76009
- Allgaler, Darrell E. (with Haberman, Richard) Wave number shocks for the leading tail of Korteweg-de Vries solitary waves in slowly varying media. 91j:35235
- Bekyarov, K. L. *see* Christov, Christo Ivanov, 91g:65275
- Borisov, Anatoli A. (with Derzhko, O. G.) The structure of stationary internal solitary waves of finite amplitude. (Russian) 91h:76021
- Boyd, John Phillip Exact and approximate nonlinear waves generated by the periodic superposition of solitons. 91a:35143
- Christov, Christo Ivanov (with Bekyarov, K. L.) A Fourier-series method for solving soliton problems. 91g:65275
- Cooker, M. J. (with Peregrine, D. H.; Vidal, C.; Dold, J. W.) The interaction between a solitary wave and a submerged semicircular cylinder. 91c:76014
- Dai, Xian Xi *see* Huang, Guo Xiang; et al., 91c:76015
- Derzhko, O. G. *see* Borisov, Anatoli A., 91h:76021
- Dold, J. W. *see* Cooker, M. J.; et al., 91c:76014
- Gardner, G. A. *see* Gardner, L. R. T., 91m:65248
- Gardner, L. R. T. (with Gardner, G. A.) Solitary waves of the regularised long-wave equation. 91m:65248
- Guha-Roy, Chanchal (with Sinha, D. K.) On a coupled water wave system. 91j:76010
- Haberman, Richard *see* Allgaler, Darrell E., 91j:35235
- Hodnett, P. F. *see* Moloney, T. P., 91d:35182
- Huang, Guo Xiang (with Dai, Xian Xi; Lou, Sen Yue) Generalization to cylindrical coordinate system for the higher order KdV and KP equation. 91c:76015
- Huang, Ming You A Hamiltonian approximation to simulate solitary waves of the Korteweg-de Vries equation. 91m:65249
- Huang, Si Xun Nonlinear gravity inertial wave of two dimensions and discussion of the possibility of solitary wave's existence. 91f:76004
- (Kivshar, Yu. S.) *see* Kosevich, A. M., 91h:58051
- Kosevich, A. M. (with Kovalev, A. S.) ★ Введение в нелинейную физическую механику. (Russian) [Introduction to nonlinear physical mechanics] 91h:58051
- Kovalev, A. S. *see* Kosevich, A. M., 91h:58051
- Kudryashov, N. A. Exact solutions of nonlinear wave equations that are encountered in mechanics. 91h:35180
- Kung, T.-J. *see* Akylas, T. R., 91c:76011

- Laedke, E. W. (with Spatschek, K. H.) On localized solutions in nonlinear Faraday resonance. 91c:76019
- Lo, Sen Yue see Huang, Guo Xiang; et al., 91c:76015
- Luo, De Hai On the Benjamin-Ono equation and its generalization in the atmosphere. 91c:86006
- Matsunaka, Chihito (with Yajima, Nobuo) Reflection and transmission of two-dimensional shallow water solitons. 91h:76026
- Miloh, Tuvia On periodic and solitary wavelike solutions of the intermediate long-wave equation. 91d:76009
- Maloney, T. P. (with Hodnett, P. F.) A new perspective on the N -soliton solution of the KdV equation. 91d:35182
- Nalimov, V. I. Supercritical flows from behind a panel. 91c:76027
- Orlowski, Arkadiusz (with Sobczyk, Kazimierz) Solitons and shock waves under random external noise. 91f:35227
- Peregrine, D. H. see Cooker, M. J.; et al., 91c:76014
- Shen, M. C. see Shen, S. S. P., 91c:76028
- Shen, S. S. P. (with Shen, M. C.) On the limit of subcritical free-surface flow over an obstruction. 91c:76028
- Sinha, D. K. see Guha-Roy, Chanchal, 91h:76010
- Sobczyk, Kazimierz see Orlowski, Arkadiusz, 91f:35227
- Spatschek, K. H. see Laedke, E. W., 91c:76019
- Vidal, C. see Cooker, M. J.; et al., 91c:76014
- Volyak, K. I. Counter waves in an ocean. (Russian. English summary) 91h:76015
- Yajima, Nobuo see Matsunaka, Chihito, 91h:76026

76B35 Random waves, inviscid fluids

Items with secondary classifications in 76B35

- Aleshkov, Yu. Z. ★ Теория взаимодействия волн с преградами. (Russian) [The theory of the interaction of waves with barriers] 91f:76009
- Dimenberger, M. F. ★ Случайные процессы в динамических системах с переменными параметрами. (Russian) [Random processes in dynamical systems with variable parameters] 91g:76022

76B40 Added mass computations

Items with secondary classifications in 76B40

- Gavze, E. Estimates of errors arising in the computation of forces acting on rigid bodies in Stokes and potential flows due to variations in geometry. 91c:76078
- Hermann, A. J. Slowly moving hull forms in short waves. 91k:76018
- Kozlov, Valerii V. On a problem of a heavy rigid body falling in a resisting medium. (Russian) 91m:76041
- Lopatnikov, S. L. see Vinogradova, O. S., 91d:76078
- Vinogradova, O. S. (with Lopatnikov, S. L.) Added mass in equations of motion of multiphase media. (Russian) 91d:76078
- Wallis, Graham B. On Geurst's equations for inertial coupling in two-phase flow. 91k:76080

76B45 Capillarity

- Hornung, Ulrich Numerical aspects of capillary surfaces. 91c:76023
- Kapouleas, Nicholas Slowly rotating drops. 91c:76024
- Langbein, Dieter The shape and stability of liquid menisci at solid edges. 91d:76011
- Miles, John W. The capillary boundary layer for standing waves. 91k:76024
- Milner, S. T. Square patterns and secondary instabilities in driven capillary waves. 91m:76021
- Narukawa, Kimiaki (with Suzuki, Takashi) Nonlinear eigenvalue problem associated to capillary surfaces. (Italian summary) 91f:76009
- Siegel, David Explicit estimates of a symmetric capillary surface for small Bond number. 91g:76014
- Suzuki, Takashi see Narukawa, Kimiaki, 91f:76009

Items with secondary classifications in 76B45

- Barrett, John W. (with Elliott, Charles M.) Finite element approximation of a free boundary problem arising in the theory of liquid drops and plasma physics. (French summary) 91m:65269
- Capodanno, Pierre Sur le problème des vibrations de deux liquides non miscibles dans un container en pesantier. [On the problem of the vibrations of two immiscible liquids in a container in the absence of gravity] 91m:76011
- Dai, Xian Xi see Huang, Guo Xiang; et al., 91h:76025 and 91c:76015
- Díaz Díaz, Jesús Idelfonso Static problems with free boundary in continuum mechanics. (Spanish. English summary) 91f:49064
- Elliott, Charles M. see Barrett, John W., 91m:65269
- Finn, Robert ★ Равновесные капиллярные поверхности. (Russian) [Equilibrium capillary surfaces] 91c:53007
- (with Giusti, Enrico) On the touching principle. 91d:35069
- (Fomenko, A. T.) see Finn, Robert, 91c:53007
- Gabor, S. A. (with Tverskoi, M. B.) The flow of a floating fluid of finite depth in the presence of variable pressure on the free surface. (Russian) 91h:76018
- Giusti, Enrico see Finn, Robert, 91d:35069
- Hornung, Ulrich see Langbein, Dieter, (91g:00045)
- Huang, Guo Xiang (with Lou, Sen Yue; Dai, Xian Xi; Yan, Jia Ren) A model equation and its exact two-dimensional solitary wave solutions for water wave dynamics. 91h:76025
- (with Dai, Xian Xi; Lou, Sen Yue) Generalization to cylindrical coordinate system for the higher order KdV and KP equation. 91c:76015
- Ishimura, Naoyuki Nonlinear eigenvalue problem associated with the generalized capillarity equation. 91k:34030
- Langbein, Dieter (with Hornung, Ulrich) Liquid menisci in polyhedral containers. (see 91g:00045)

- Lawrie, J. B. Surface-tension-driven flow in a wedge. 91c:76008
- Lo, Sen Yue see Huang, Guo Xiang; et al., 91h:76025 and 91c:76015
- Lukovskii, I. A. (with Timokha, A. N.) Selfadjointness of an integro-differential operator. 91m:35199
- Miles, John W. Wave motion in a viscous fluid of variable depth. 91h:76047
- Wave reflection from a gently sloping beach. 91d:76008
- Mittelmann, Hans D. The augmented skeleton method for parametrized capillary surfaces. (see 91h:00050)
- Okamoto, Hisashi On the problem of water waves of permanent configuration. 91h:76027
- Peregrine, D. H. (with Shoker, G.; Symon, A.) The bifurcation of liquid bridges. 91h:76050
- Quasthoff, Karin Bifurcation points of capillary-gravity waves. 91f:76012
- Bifurcation and stability of capillary-gravity waves. (German and Russian summaries) 91f:35037
- (Shapiro, Z. Ya.) see Finn, Robert, 91c:53007
- Shōji, Mayumi New bifurcation diagrams in the problem of permanent progressive waves. 91h:76028
- Shoker, G. see Peregrine, D. H.; et al., 91h:76050
- Symon, A. see Peregrine, D. H.; et al., 91h:76050
- Timokha, A. N. see Lukovskii, I. A., 91m:35199
- Tverskoi, M. B. see Gabor, S. A., 91h:76018
- Vogel, Thomas I. A note on the sessile drop. 91g:53006
- Types of instability for the trapped drop problem with equal contact angles. 91m:58032
- (Wente, Henry C.) see Finn, Robert, 91c:53007
- Yan, Jia Ren see Huang, Guo Xiang; et al., 91h:76025

76B99 None of the above, but in this section

- Aref, Hassan (with Hurdle, Thomas) Fluid networks. (see 91h:76005)
- Eatoock Taylor, R. see Wu, G. X., 91a:76019
- Hurdle, Thomas see Aref, Hassan, (91h:76005)
- Limarchenko, O. S. see Lukovskii, I. A., 91h:76008
- Lukovskii, I. A. (with Limarchenko, O. S.) Equivalence of finite-dimensional nonlinear mathematical models of the dynamics of bodies carrying a fluid with a free surface. (Russian) 91k:76008
- Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012
- Swaters, Gordon E. see Moodie, T. Bryant, 91d:76012
- Wu, G. X. (with Eatoock Taylor, R.) The hydrodynamic force on an oscillating ship with low forward speed. 91a:76019

Items with secondary classifications in 76B99

- Acker, Andrew On the nonconvexity of solutions in free-boundary problems arising in plasma physics and fluid dynamics. 91a:35167
- Almgren, Frederick J., Jr. (with Gurtin, Morton E.) A mathematical contribution to Gibbs's analysis of fluid phases in equilibrium. 91h:76009
- Capodanno, Pierre Plane small oscillations of a rigid body with a cavity containing a liquid and closed by an elastic cover. 91c:76013
- Sur un mouvement particulier d'un profil muni d'une cavité fermée par un couvercle élastique et remplie de liquide. (English summary) [On a particular motion of a body containing a fluid-filled cavity closed by an elastic cover] 91g:73053
- Chen, Zhen Cheng The strict solution of two-dimensional problem for hydrodynamic pressure distributed on water wetted dam plane inclined with an angle during earthquake. 91f:60010
- Dewynne, J. N. (with Morland, L. C.; Watson, E. J.) Weak suction from a channel flow into a circular orifice. 91m:76004
- Feng, James Q. A method of multiple-parameter perturbations with an application to drop oscillations in an electric field. 91g:76103
- Gladov, O. M. Nonlinear standing oscillations of an elastic plate that is floating on a surface of a heavy fluid of finite depth. (Russian) (Not in MR)
- Gurtin, Morton E. see Almgren, Frederick J., Jr., 91h:76009
- Hong, S. W. see Schultz, W. W., 91a:76067
- Khrebtov, V. A. Solution of the Cauchy problem for hydraulic shock equations in elastodeformable pipes. 91c:76074
- Korotkiĭ, V. V. (with Lyubimov, D. A.) A modified approximate factorization method for computing potential three-dimensional flows in channels. (Russian) 91m:76077
- Kayk, Willem (with Smits, Lieven) On the geometries of the rational unfoldings of X^k . 91m:58017
- (with Smits, Lieven) Rational unfoldings of $\pm X^k$ and their relation with geometric equilibrium theory. 91m:58018
- Lyubimov, D. A. see Korotkiĭ, V. V., 91m:76077
- Matvichuk, K. S. Technical stability of a fluid-carrying rectilinear pipeline. 91h:73069
- Morland, L. C. see Dewynne, J. N.; et al., 91m:76004
- Rainey, R. C. T. see Thompson, J. M. T.; et al., 91f:76018
- Romats, J. E. Local error analysis of three-dimensional panel methods in terms of curvilinear surface coordinates. 91h:76084
- Rvacher, M. A. On statically possible fields in simply connected volumes. 91h:35265
- Schultz, W. W. (with Hong, S. W.) Solution of potential problems using an overdetermined complex boundary integral method. 91a:76067
- Smits, Lieven see Kayk, Willem, 91m:58017 and 91m:58018
- Sollman, Mohamed S. see Thompson, J. M. T.; et al., 91f:76018
- Thompson, J. M. T. (with Rainey, R. C. T.; Sollman, Mohamed S.) Ship stability criteria based on chaotic transients from incursive fractals. 91f:76018
- Urbach, H. P. On optimum propulsion by means of small periodic motions of a rigid profile. I. Properties of optimum motions. 91m:76130
- On optimum propulsion by means of small periodic motions of a rigid profile. II. Optimization of the period and numerical results. 91m:76131
- Watson, E. J. see Dewynne, J. N.; et al., 91m:76004

76Cxx Incompressible inviscid fluids, vorticity flows

76C05 Vorticity flows

- Airapetov, A. B. Motion of an originally point vortex in the flow of a viscous fluid. 91g:76015
- Anderson, Christopher R. (with Greengard, Claude) The vortex ring merger problem at infinite Reynolds number. 91a:76020
- Aref, Hassan (with Jones, S. W.; Mofina, S.; Zawadzki, I.) Vortices, kinematics and chaos. 91i:76009
- Baker, Gregory R. (with Shelley, M. J.) On the connection between thin vortex layers and vortex sheets. 91i:76010
- Bell, George I. Vortex-induced radiation transported by a contour. 91h:76016
- Böhler, K. Symmetric and asymmetric Taylor vortex flow in spherical gaps. (Not in MR)
- Caffisch, Russel E. (with Semmes, Stephen) A nonlinear approximation for vortex sheet evolution and singularity formation. 91h:76018
- (with Orellana, O. F.; Siegel, M.) A localized approximation method for vortical flows. 91h:76017
- Chern, Shuh Jye (with Marsden, Jerrold E.) A note on symmetry and stability for fluid flows. 91d:76013
- Collett, J. L. Isocirculation flows. (see 91k:76005)
- Davidson, P. A. The interaction between swirling and recirculating velocity components in unsteady, inviscid flow. 91a:76021
- De Gregorio, Salvatore On a one-dimensional model for the three-dimensional vorticity equation. 91d:76022
- Dritschel, David G. (with McIntyre, M. E.) Does contour dynamics go singular? 91a:76022
- Fukamoto, Yasuhide (with Miyazaki, Takeshi) Three-dimensional distortions of a vortex filament with axial velocity. 91k:76025
- Greengard, Claude see Anderson, Christopher R., 91a:76020
- van Groesen, E. A deterministic approach towards self-organization in continuous media. 91h:76030
- Gurzhi, A. A. see Meleshko, V. V.; et al., 91h:76012
- Horiyama, Satoshi (with Irié, Haruyuki; Sato, Masatomo) Stationary drift-Rossby vortices in shear flows. 91c:76025
- Hou, Thomas Y. (with Lowengrub, John S.) Convergence of the point vortex method for the 3-D Euler equations. 91h:76026
- Hussain, Fazle see Kunin, I.; et al., 91g:76016
- Irié, Haruyuki see Horiyama, Satoshi; et al., 91c:76025
- Jones, S. W. see Aref, Hassan; et al., 91i:76009
- Joseph, Thomas (with Mathew, George) A note on generalized helicity. 91k:76027
- Kaneda, Yukio A representation of the motion of a vortex sheet in a three-dimensional flow. 91a:76023
- On the three-dimensional motion of an infinitely thin vortex sheet in an ideal fluid. 91h:76019
- Kapsov, O. V. New solutions of two-dimensional steady Euler equations. 91h:76020
- Keener, James P. Knotted vortex filaments in an ideal fluid. 91d:76014
- Klein, Rupert (with Ting, Lu) Far field velocity potential induced by a rapidly decaying vorticity distribution. (German summary) 91d:76015
- Konovalyuk, T. P. Classification of the interaction of a vortex pair with a point vortex in an ideal fluid. (Russian) 91i:76011
- Konstantinov, M. Yu. see Meleshko, V. V.; et al., 91h:76012
- Kovich, D. see Kunin, I.; et al., 91g:76016
- Kunin, I. (with Hussain, Fazle; Zhou, Xiaoliang; Kovich, D.) Dynamics of point vortices in a special rotating frame. 91g:76016
- Kuzovtsov, I. A. Generalized solutions of a stationary problem of the flow of a nonhomogeneous ideal fluid. (Russian) 91h:76014
- Langer, Joel (with Perline, Ronald) The Hasimoto transformation and integrable flows on curves. 91a:76024
- Lowengrub, John S. see Hou, Thomas Y., 91h:76026
- Ma, Hai Yang Interaction between axisymmetric and nonaxisymmetric disturbances in a vortex flow. (Chinese. English summary) 91f:76010
- Marchioro, Carlo Incompressible fluids with a potential field and vortex theory. (Italian summary) 91d:76016
- Marcus, Philip S. Vortex dynamics in a shearing zonal flow. 91c:76026
- Marsden, Jerrold E. see Chern, Shuh Jye, 91d:76013
- Mathew, George see Joseph, Thomas, 91k:76027
- McIntyre, M. E. see Dritschel, David G., 91a:76022
- McLaughlin, David W. (with Pironneau, Olivier) Some notes on periodic Beltrami fields in Cartesian geometry. 91m:76023
- Meleshko, V. V. (with Konstantinov, M. Yu.; Gurzhi, A. A.) Ordered and chaotic motion in the dynamics of three coaxial vortex rings. (Russian) 91h:76012
- Miyazaki, Takeshi see Fukamoto, Yasuhide, 91k:76025
- Moffatt, H. K. Structure and stability of solutions of the Euler equations: a Lagrangian approach. 91k:76028
- Mofina, S. see Aref, Hassan; et al., 91i:76009
- Novikov, Evgeny A. Chaotic vortex-body interaction. 91m:76024
- Orellana, O. F. On some analytic and computational aspects of two-dimensional vortex sheet evolution. 91f:76011
- see also Caffisch, Russel E.; et al., 91h:76017
- Perline, Ronald see Langer, Joel, 91a:76024
- Pironneau, Olivier see McLaughlin, David W., 91m:76023
- Rott, Nicholas Constrained three- and four-vortex problems. 91c:76027
- Saltanov, N. V. On the theory of homogeneous spiral flows of an incompressible fluid. (Russian) 91g:76017
- Sato, Masatomo see Horiyama, Satoshi; et al., 91c:76025
- Semmes, Stephen see Caffisch, Russel E., 91h:76018
- Shavaliy, M. Sh. Laws of change in the moments of the vorticity distribution under the influence of viscosity, external velocity field and the presence of solid boundaries. (Russian) 91g:76018
- Shelley, M. J. see Baker, Gregory R., 91i:76010
- Siegel, M. see Caffisch, Russel E.; et al., 91h:76017
- Soler, Juan Vortex filament method. 91c:76028
- Sunnator, Kh. M. The origin of vortices in an ideal fluid. 91j:76015
- Tang, Yun Problems of the motion of rotating vortices in two-dimensional incompressible fluids. (Chinese) 91f:76012
- Tarasov, I. E. A new integral of equations of the motion of vortex flows. (Russian) 91c:76029
- Ting, Lu see Klein, Rupert, 91d:76015
- (Tong, R. P.) see Tyvand, Peder A., 91m:76025
- Tyvand, Peder A. Motion of a vortex near a free surface. 91m:76025
- Wan, Yieh Hsi Desingularizations of systems of point vortices. 91h:76031
- Zawadzki, I. see Aref, Hassan; et al., 91i:76009
- Zhou, Xiaoliang see Kunin, I.; et al., 91g:76016
- Items with secondary classifications in 76C05
- Agishtein, Michael E. (with Migdal, Alexander A.) Dynamics of vortex surfaces in three dimensions: theory and simulations. 91c:76084
- Albaverio, Sergio (with Cruzeiro, Ana Bela) Global flows with invariant (Gibbs) measures for Euler and Navier-Stokes two-dimensional fluids. 91j:58030
- Alinhac, S. Un phénomène de concentration évanescence pour des flots non-stationnaires incompressibles en dimension deux. (English summary) [Concentration cancellation for incompressible nonstationary flows in dimension two] 91d:35171
- Anderson, Christopher R. (with Greengard, Claude; Greengard, Leslie; Rokhlin, Vladimir V.) On the accurate calculation of vortex shedding. 91c:76085
- Andrews, David G. On the forcing of time-mean flows by transient, small-amplitude eddies. 91g:86005
- Baden, Scott B. (with Puckett, Elbridge Gerry) A fast vortex method for computing 2D viscous flow. (Not in MR)
- Baker, Gregory R. A study of the numerical stability of the method of contour dynamics. 91j:76049
- Bassom, Andrew P. (with Hall, Philip) On the interaction of stationary crossflow vortices and Tollmien-Schlichting waves in the boundary layer on a rotating disc. 91h:76039
- Beale, J. Thomas On the accuracy of vortex methods at large times. 91a:76070
- Bell, George I. Interaction between vortices and waves in a simple model of geophysical flow. 91a:86001
- Ben'kovich, Yu. G. An estimate for the domains of stability of uniform rotations of a heavy rigid body with cavities that are completely filled with an ideal fluid. (Russian) 91e:76014
- Berger, Melvyn S. (with Nee, J.) Leapfrogging of vortex filaments in an ideal fluid. 91m:58144
- Bogomolov, V. A. Solitary vortex-wave structure in a stratified drift current. (Russian) 91a:86002
- Brenier, Yann (with Cottet, Georges-Henri) Convergence des méthodes de vortex vers des solutions faibles des équations d'Euler. (English summary) [Convergent vortex approximation to weak solutions of Euler equations] 91h:65195
- Buttke, Thomas F. A fast adaptive vortex method for patches of constant vorticity in two dimensions. 91g:76072
- Caffisch, Russel E. (with Lowengrub, John S.) Convergence of the vortex method for vortex sheets. 91g:76073
- Carnevale, George F. (with Shepherd, Theodore G.) On the interpretation of Andrews' theorem. 91c:76049
- (with Vallis, G. K.) Pseudo-advective relaxation to stable states of inviscid two-dimensional fluids. 91c:76058
- Cassaigne, Philippe (with Gerbi, Stéphane; Renggli, L.) About admissible boundary conditions for Euler and parabolized Navier-Stokes equations. 91f:35208
- Chacón Rebollo, Tomás (with Hou, Thomas Y.) A Lagrangian finite element method for the 2-D Euler equations. 91h:65169
- Chemin, Jean-Yves Autour du problème des vortex patches. [Concerning the problem of vortex patches] 91k:35196
- Sur le mouvement des particules d'un fluide parfait incompressible bidimensionnel. [On the motion of the particles of a two-dimensional incompressible perfect fluid] 91m:35187
- Chernyshev, A. P. The use of fundamental solutions of generalized axisymmetric equations for modeling problems in fluid mechanics. (Russian) 91g:76088
- Childress, S. (with Landman, Michael J.; Strauss, H.) Steady motion with helical symmetry at large Reynolds number. (see 91h:76005)
- Chorin, Alexandre Joel Vortex filaments and turbulence theory. (see 91h:76005)
- Constrained random walks and vortex filaments in turbulence theory. 91j:76038
- Hairpin removal in vortex interactions. 91h:76062
- Chew, Kwok W. Inviscid secondary instability of the far wake. 91h:76032
- A note on inviscid secondary instability in shear flows. 91h:76033
- Cottet, Georges-Henri (with Mas-Gallie, Sylvie; Raviart, P.-A.) Vortex methods for the incompressible Euler and Navier-Stokes equations. 91d:76064
- see also Brenier, Yann, 91h:65195
- Cruzeiro, Ana Bela Invariant measures for Euler and Navier-Stokes systems. 91k:35198
- see also Albaverio, Sergio, 91j:58030
- Davey, M. K. see Johnson, E. R., 91k:86001
- Dritschel, David G. The stability of elliptical vortices in an external straining flow. 91h:76055
- Generalized helical Beltrami flows in hydrodynamics and magnetohydrodynamics. 91h:76043
- see also Pullin, D. I., 91c:76056
- E, Wei Nan (with Hou, Thomas Y.) Homogenization and convergence of the vortex method for 2-D Euler equations with oscillatory vorticity fields. 91h:35263
- Ekrot, Alan R. (with Miller, Kenneth G.) Rearrangements in steady vortex flows with circulation. 91g:35205
- Engelbrecht, Jüri K. (with Fridman, V. E.; Pelinovskii, E. N.) ★ Nonlinear evolution equations. 91k:35222
- Fabrikant, A. L. see Stepan'yants, Yu. A., 91a:76045
- Findelev, Dalia Vortex methods for slightly viscous three-dimensional flow. 91c:76088
- Fridman, V. E. see Engelbrecht, Jüri K.; et al., 91k:35222

- Friedlander, Susan (with Vishik, M. M.) Lax pair formulation for the Euler equation. 91g:58111
- Gerbi, Stéphane see Cassaigne, Philippe; et al., 91f:35208
- Gonchar, V. Yu. (with Ostapchuk, P. N.; Tur, A. V.; Yanovskii, V. V.) Dynamics and stochasticity in a reversible system describing interaction of point vortices with a potential wave. 91m:76058
- Goodman, Jonathan (with Hou, Thomas Y.; Lowengrub, John S.) Convergence of the point vortex method for the 2-D Euler equations. 91d:65152
- Greengard, Claude see Anderson, Christopher R.; et al., 91c:76085
- Greengard, Leslie Potential flow in channels. 91e:76083
- see also Anderson, Christopher R.; et al., 91c:76085
- Grundland, A. M. (with Lawruk, B.) Classes of exact solutions for fluid-dynamics equations obtained by Riemann invariants method. 91e:76090
- Gryanik, V. M. (with Tevs, M. V.) Dynamics of singular geostrophic vortices in an N -layer model of the atmosphere (ocean). 91e:76032
- Hall, Philip¹ see Bassom, Andrew P., 91h:76039
- Hou, Thomas Y. see Goodman, Jonathan; et al., 91d:65152; E, Wei Nan, 91h:35263 and Chacón Rebollo, Tomás, 91h:65169
- Hryn, A. A. Navier-Stokes and Euler equations on two-dimensional closed manifolds. 91f:35210
- Jackson, Eric see She, Zhen Su; et al., 91g:76048
- Johnson, E. R. (with Davey, M. K.) Free-surface adjustment and topographic waves in coastal currents. 91k:86001
- Khalil, Alexander see Faldor, Nathan, 91c:76050
- Kimura, Yoshifumi Parametric motion of complex-time singularity toward real collapse. 91j:34067
- Kondratiev, B. P. The possibility of planar homogeneous vortical motion in fluid configurations of nonellipsoid form. (Russian. English summary) 91h:76081
- Kopachevskii, N. D. (with Krein, S. G.; Ngô Huy Can) ★ Операторные методы в нелинейной гидродинамике. (Russian) [Operator methods in linear hydrodynamics] 91h:76001
- Krein, S. G. see Kopachevskii, N. D.; et al., 91h:76001
- Krell, Norbert ★ Berechnung von Strömungsfeldern um Propeller und Rotoren im Schwebflug durch die Lösung der Euler-Gleichungen. (German) [Computation of flow fields around propellers and hovering rotors based on the solution of Euler equations] 91h:76083
- Landman, Michael J. see Childress, S.; et al., (91f:76005)
- Lawruk, B. see Grundland, A. M., 91e:76090
- Lifanov, I. K. Velocity calculation in the method of discrete vortices. 91m:76086
- Lin, Chjan C. On Hamiltonian singularities and applications. 91a:70026
- Existence of KAM tori in the phase-space of lattice vortex systems. 91d:58218
- Graph theory and a special class of symplectic transformations: the generalized Jacobi variables. 91k:58040
- Lowengrub, John S. see Goodman, Jonathan; et al., 91d:65152 and Caffisch, Russel E., 91g:76073
- Mas-Gallie, Sylvie see Cottet, Georges-Henri; et al., 91d:76064
- Michalke, A. (with Plaschko, Peter) A note on the instability of a vortex sheet leaving a semi-infinite plate. (Russian and Polish summaries) 91k:76077
- Migdal, Alexander A. see Agolstein, Michael E., 91c:76084
- Mikals, Michael J. see Ting, Lu, 91a:76077
- Miller, Kenneth G. see Elcrat, Alan R., 91g:35205
- (Moffatt, H. K.) see Topological fluid mechanics, 91f:76005
- Moore, D. W. see Pullin, D. I., 91g:76056
- Mu, Mu Globally smooth solutions to two-dimensional Euler equations. (Chinese) (Not in MR)
- Murometz, Yitzhak (with Razboynick, Solomon) Integrability in models of two-dimensional turbulence. 91k:76090
- Nee, J. see Berger, Melvyn S., 91m:58144
- Ngô Huy Can see Kopachevskii, N. D.; et al., 91h:76001
- Orszag, Steven A. see She, Zhen Su; et al., 91g:76048
- Ostapchuk, P. N. see Gonchar, V. Yu.; et al., 91m:76058
- Faldor, Nathan (with Khalil, Alexander) A note on the use of zero potential vorticity models. 91c:76050
- Pelinsonskii, E. N. see Engelbrecht, Jüri K.; et al., 91k:35222
- Plaschko, Peter see Michalke, A., 91k:76077
- Piumb, R. Alan A nonacceleration theorem for transient quasi-geostrophic eddies on a three-dimensional time-mean flow. 91g:86004
- Poltavrskii, L. N. Convergence of the discrete vortex method in stationary problems in aerodynamics. 91c:76092
- Polvaal, L. M. (with Wisdom, J.) On chaotic flow around the Kida vortex. (see 91f:76005)
- Pozdnyakov, E. V. see Savchenko, A. Ya.; et al., 91e:76024
- Puckett, Elbridge Gerry see Baden, Scott B., (Not in MR)
- Pullin, D. I. (with Moore, D. W.) Remark on a result of D. G. Dritschel: "The repeated filamentation of two-dimensional vorticity interfaces" [J. Fluid. Mech. 194 (1988), 511–547; MR 89m:76042]. 91c:76056
- Raviart, P.-A. see Cottet, Georges-Henri; et al., 91d:76064
- Razboynick, Solomon see Murometz, Yitzhak, 91k:76090
- Renggli, L. see Cassaigne, Philippe; et al., 91f:35208
- Ripa, P. Stability of equilibrium solutions reached by "modified dynamics". 91f:76031
- Robert, Raoul États d'équilibre statistique pour l'écoulement bidimensionnel d'un fluide parfait. (English summary) [Statistical equilibrium states in two-dimensional perfect fluid dynamics] 91h:76049
- Rokhlin, Vladimir V. see Anderson, Christopher R.; et al., 91c:76085
- Rossov, Cord-Christian ★ Berechnung von Strömungsfeldern durch Lösung der Euler-Gleichungen mit einer erweiterten Finite-Volumen Diskretisierungsmethode. (German) [Computation of flow fields by the solution of Euler equations using an extended finite volume discretization scheme] 91h:76081
- Saffman, Philip G. A model of vortex reconnection. 91a:76032
- Salac, Jacques-Hervé Finite element solutions of axisymmetric Euler equations for an incompressible and inviscid fluid. 91c:76075
- Saltanov, N. V. Generalized hydrodynamic potential and its analogues in elasticity theory. 91h:73015
- Sant, Jean-Claude Remarks on the damped stationary Euler equations. 91h:35256
- Savchenko, A. Ya. (with Sudakov, S. N.; Pozdnyakov, E. V.) The motion of a heavy rigid body, suspended on a string, with a fluid filling in vortical motion. (Russian) 91e:70024
- Savchenko, Ya. A. Dynamic properties of the Lagrange gyroscope with a nonsymmetrically positioned cavity that is filled with a fluid. (Russian) 91f:70006
- She, Zhen Su (with Jackson, Eric; Orszag, Steven A.) Vortex structure and dynamics in turbulence. 91g:76048
- Shelley, M. J. A case of singularity formation in vortex sheet motion studied by a spectrally accurate method. 91m:76055
- Shepherd, Theodore G. A general method for finding extremal states of Hamiltonian dynamical systems, with applications to perfect fluids. 91g:58087
- see also Carnevale, George F., 91c:76049
- Skvortsov, A. T. Exact solution of equations of magnetohydrodynamics in the form of a solitary toroidal vortex. (Russian) (Not in MR)
- Soler, Juan Weak solutions of two-dimensional Euler equations. (Spanish) (see 91j:00015)
- Spalart, Philippe R. Vortex methods for separated flows. 91a:76074
- Stepanyants, Yu. A. (with Fabrikant, A. L.) Propagation of waves in hydrodynamic shear flows. 91a:76045
- Strass, H. see Childress, S.; et al., (91f:76005)
- Sudakov, S. N. see Savchenko, A. Ya.; et al., 91e:70024
- Tevs, M. V. see Gryanik, V. M., 91e:76032
- Ting, Lu (with Mikals, Michael J.) On vortical flow and sound generation. 91a:76077
- (Tsinobir, A.) see Topological fluid mechanics, 91f:76005
- Tur, A. V. see Gonchar, V. Yu.; et al., 91m:76058
- Vallis, G. K. see Carnevale, George F., 91c:76058
- Vishik, M. M. see Friedlander, Susan, 91f:35210
- Winfrey, Arthur T. Vortices in motionless media. 91m:35002
- Wisdom, J. see Polvaal, L. M., (91f:76005)
- Yanovskii, V. V. see Gonchar, V. Yu.; et al., 91m:76058
- Zajackowski, Wojciech M. Some leakage problems for ideal incompressible fluid motion in domains with edges. 91g:35207
- Zheng, Quan¹ A characteristic finite element method for solving Euler equations. (Chinese. English summary) 91f:65186

Items listed otherwise than by author

Cambridge ★ Topological fluid mechanics. 91f:76005

IUTAM Symposium:

Topological Fluid Mechanics ★ Topological fluid mechanics. 91f:76005

Topological fluid mechanics ★ Topological fluid mechanics. 91f:76005

76C10 Internal waves

- Borison, Anatoli A. (with Derzho, O. G.) The structure of stationary internal solitary waves of finite amplitude. (Russian) 91h:76021
- Chashechkin, Yu. D. see Kistovich, A. V., 91m:76026
- Derzho, O. G. see Borison, Anatoli A., 91h:76021
- Gabulin, R. R. Diffraction of internal waves by a plate that is located on the free surface of a stratified fluid. 91f:76013
- Gabov, S. A. On an abstract Cauchy problem that arises in the theory of internal waves in the presence of flotation. 91d:76016
- Grimshaw, R. H. J. see Mitsuda, H., 91m:76027
- Kistovich, A. V. (with Chashechkin, Yu. D.) Generation, propagation and nonlinear interaction of internal waves. (Russian. English summary) 91m:76026
- Marchenko, A. V. (with Sigbatullin, N. R.) Resonant excitation of long waves in a two-layer medium by variable pressure on the free surface. 91f:76017
- Maslov, V. P. An integral equation for short internal waves in a stratified ocean. (Not in MR)
- Mitsuda, H. (with Grimshaw, R. H. J.) Effects of radiative damping on resonantly generated internal gravity waves. 91m:76027
- Semenov, A. Yu. see Volyak, K. I.; et al., 91h:76033
- Shugan, I. V. see Volyak, K. I.; et al., 91h:76033
- Sigbatullin, N. R. see Marchenko, A. V., 91f:76017
- Ter-Krikorov, A. M. Stratified flows and dipole approximations. (Russian) 91m:76028
- Vladimirov, Yu. V. The field of internal waves in a neighborhood of a front that is excited by a source moving over a slowly varying bottom. 91h:76032
- Volyak, K. I. (with Semenov, A. Yu.; Shugan, I. V.) Interaction of surface and internal waves. (Russian. English summary) 91h:76033

Items with secondary classifications in 76C10

- Akulenko, L. D. (with Mikhailov, S. A.; Nesterov, S. V.) Oscillations of an oscillator near the interface of two fluids. 91d:76081
- Akyas, T. R. (with Kung, T.-J.) On nonlinear wave envelopes of permanent form near a caustic. 91c:76011
- Amick, C. J. (with Turner, R. E. L.) Elliptic equations, internal waves and dynamical systems. 91e:58166
- Borovikov, V. A. (with Bulatov, V. V.; Vladimirov, Yu. V.; Levchenko, E. S.) Calculating the field of internal gravity waves generated by a fixed source a stratified fluid stream. 91d:76082
- Critical layer formation in a stratified medium with mean shear flows. 91m:76049
- Bulatov, V. V. see Borovikov, V. A.; et al., 91d:76082
- (Bunkin, F. V.) see Nonlinear wave processes, 91h:76029
- Gabov, S. A. (with Krutitskii, P. A.) Energy characteristics of nonstationary internal waves in a vertical channel with a stratified fluid. (Russian) 91g:76099
- Kharik, V. M. (with Pietner, Yu. D.) The problem of gravity-gyroscopic waves, which are excited by the oscillations of a curve. 91f:76056
- Krutitskii, P. A. see Gabov, S. A., 91g:76099
- Kung, T.-J. see Akyas, T. R., 91c:76011
- Levchenko, E. S. see Borovikov, V. A.; et al., 91d:76082

- Mikhailov, S. A. *see* Akulenko, L. D.; et al., 91d:76081
 Nesterov, S. V. *see* Akulenko, L. D.; et al., 91d:76081
 Pletner, Yu. D. On the oscillations of a plane disk on the interface of two stratified fluids. (Russian) 91g:76100
 — *see also* Kharik, V. M., 91f:76056
 Ponce, Gustavo Smoothing properties of solutions to the Benjamin-Ono equation. 91c:35135
 Romanova, N. N. Construction of normal variables for waves in a two-layer medium with a linear velocity profile. 91m:76015
 Turner, R. E. L. *see* Amick, C. J., 91e:58166
 Vladimirov, Yu. V. *see* Borovikov, V. A.; et al., 91d:76082
 (Volyak, K. I.) *see* Nonlinear wave processes, 91h:76029

Items listed otherwise than by author

Nonlinear wave processes ★ Нелинейные волновые процессы. (Russian) [Nonlinear wave processes] 91h:76029

76C15 Atmospheric waves

- Gryanik, V. M. (with Tevs, M. V.) Dynamics of singular geostrophic vortices in an N -layer model of the atmosphere (ocean). 91e:76032
 Rådm, R. General form of the equations of atmospheric dynamics in isobaric coordinates. 91m:76029
 Sheina, E. A. *see* Smirnov, A. P., 91f:76014
 Smirnov, A. P. (with Sheina, E. A.) Existence of solitary vortices in a zonal flow. 91f:76014
 Tevs, M. V. *see* Gryanik, V. M., 91e:76032

Items with secondary classifications in 76C15

- Browning, G. (with Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. 91h:86002
 Ghil, M. *see* Jia, Fei Fei, 91h:76065
 Higgins, R. Wayne (with Shirer, Hampton N.) Transitions from Hadley to Rossby flows in internally forced rotating spherical systems. 91e:76055
 Jia, Fei Fei (with Ghil, M.) Intraseasonal oscillations in the extratropics: Hopf bifurcation and topographic instabilities. 91h:76065
 Kreiss, Heinz-Otto *see* Browning, G., 91h:86002
 Mirabel, A. P. (with Monin, A. S.) On the instability of a Sverdrup gyre in a three-layer model and in a continuously stratified model of the ocean. 91m:76051
 Monin, A. S. *see* Mirabel, A. P., 91m:76051
 Shirer, Hampton N. *see* Higgins, R. Wayne, 91e:76055
 Stenofo, L. Acoustic gravity vortices. 91h:86004

76C20 Rossby waves

- Guevryshev, V. G. (with Shirin, V. I.) Monochromatic Rossby wave transformation in zonal flow critical layers. 91j:76018
 Larichev, V. D. Analytic theory for the weak interaction of Rossby solitons. 91e:76033
 Liu, Shi Kuo *see* Tan, Ben Kui, 91h:76029
 Piterburg, L. I. (with Shul'man, E. I.) On the nonintegrability of the Hamiltonian system for Rossby waves and drift waves. 91h:76034
 Shirin, V. I. *see* Guevryshev, V. G., 91j:76018
 Shul'man, E. I. *see* Piterburg, L. I., 91h:76034
 Tan, Ben Kui (with Liu, Shi Kuo) Nonlinear Rossby waves in the geophysical fluids. (Chinese summary) 91h:76029

Items with secondary classifications in 76C20

- Balk, A. M. (with Nazarenko, S. V.; Zakharov, V. E.) On the nonlocal turbulence of drift type waves. 91h:76088
 — (with Nazarenko, S. V.) Physical realizability of anisotropic weak-turbulence Kolmogorov spectra. 91h:76087
 Bell, George I. Interaction between vortices and waves in a simple model of geophysical flow. 91a:86001
 Bois, Pierre-Antoine (with Godts, Stéphane; Ouahine, Abdellatif) Amortissement visqueux des ondes de Rossby dans les courants océaniques par couches de fond et d'interface. [Viscous damping of Rossby waves in oceanic currents by sea-floor and interfacial layers] (Not in MR)
 Cox, Stephen M. (with Drazin, P. G.; Rytke, Susan C.; Slater, K.) Chaotic advection of irrotational flows and of waves in fluids. 91g:76042
 Drazin, P. G. *see* Cox, Stephen M.; et al., 91g:76042
 Flierl, Glenn R. *see* Swaters, Gordon E., 91m:86003
 Fridman, A. M. Larichev-Reznik modons of the f -plane. (Russian) 91e:86005
 Fyfe, John (with Held, Isaac M.) The two-fifths and one-fifth rules for Rossby wave breaking in the WKB limit. 91a:86005
 Ghil, M. *see* Jia, Fei Fei, 91h:76065
 Guevryshev, V. G. (with Shirin, V. I.) Dynamics of Rossby wave packets in the neighborhood of a zonal critical layer including the effects of viscosity. 91h:86003
 Godts, Stéphane *see* Bois, Pierre-Antoine; et al., (Not in MR)
 Gupta, Neelam *see* Sachdev, P. L., 91e:86003
 Hart, J. E. On oscillatory flow over topography in a rotating fluid. 91h:76061
 Held, Isaac M. *see* Fyfe, John, 91a:86005
 Higgins, R. Wayne (with Shirer, Hampton N.) Transitions from Hadley to Rossby flows in internally forced rotating spherical systems. 91e:76055
 Horihata, Satoshi (with Irie, Haruyuki; Sato, Masatomo) Stationary drift-Rossby vortices in shear flows. 91c:76025
 Irie, Haruyuki *see* Horihata, Satoshi; et al., 91c:76025
 Jia, Fei Fei (with Ghil, M.) Intraseasonal oscillations in the extratropics: Hopf bifurcation and topographic instabilities. 91h:76065
 Nazarenko, S. V. *see* Balk, A. M., 91h:76087 and 91h:76088
 Nycander, J. The existence of stationary vortex solutions of the equations for nonlinear drift waves in plasmas and nonlinear Rossby waves. 91d:76088

- Ouahine, Abdellatif *see* Bois, Pierre-Antoine; et al., (Not in MR)
 Rytke, Susan C. *see* Cox, Stephen M.; et al., 91g:76042
 Sachdev, P. L. (with Gupta, Neelam) Exact traveling-wave solutions for model geophysical systems. 91e:86003
 Sato, Masatomo *see* Horihata, Satoshi; et al., 91c:76025
 Shirer, Hampton N. *see* Higgins, R. Wayne, 91e:76055
 Shirin, V. I. *see* Guevryshev, V. G., 91j:76018
 Slater, K. *see* Cox, Stephen M.; et al., 91g:76042
 Swaters, Gordon E. Propagation of two-dimensional solitary drift-vortices in a viscous rotating fluid or plasma. 91h:76104
 — (with Flierl, Glenn R.) Dynamics of ventilated coherent cold eddies on a sloping bottom. 91m:86003
 Zakharov, V. E. *see* Balk, A. M.; et al., 91h:76088

76C99 None of the above, but in this section

- Caviglia, Giacomo (with Morro, Angelo) Conservation laws for incompressible fluids. 91a:76025
 Finnigan, J. J. Streamline coordinates, moving frames, chaos and integrability in fluid flow. (see 91f:76005)
 Hunt, J. C. R. (with Hussain, Fazle) Helicity associated with flow around fluid lumps and with inhomogeneous turbulence. (see 91f:76005)
 Hussain, Fazle *see* Hunt, J. C. R., (91f:76005)
 Leonard, A. *see* Rom-Kedar, V.; et al., 91d:76017
 Moffatt, H. K. The topological (as opposed to the analytical) approach to fluid and plasma flow problems. (see 91f:76005)
 Morro, Angelo *see* Caviglia, Giacomo, 91a:76025
 Rom-Kedar, V. (with Leonard, A.; Wiggins, S.) An analytical study of transport, mixing and chaos in an unsteady vortical flow. 91d:76017
 Sijtsma, P. On optimum sculling propulsion with prescribed sideforce. 91h:76022
 Wiggins, S. *see* Rom-Kedar, V.; et al., 91d:76017

Items with secondary classifications in 76C99

- Chekanov, Yu. V. *see* Khesin, B. A., 91h:58071
 Fitt, A. D. *see* O'Malley, K.; et al., 91h:76049
 Ghil, M. *see* Sakuma, H., 91h:76063
 Jones, T. V. *see* O'Malley, K.; et al., 91h:76049
 Kenyon, Kern E. (with Sheres, David) Stable gravity wave of arbitrary amplitude in finite depth. 91a:76016
 Khesin, B. A. (with Chekanov, Yu. V.) Invariants of the Euler equations for ideal or barotropic hydrodynamics and superconductivity in D dimensions. 91h:58071
 Kleha, R. M. Topological torsion, Pfaff dimension and coherent structures. (see 91f:76005)
 Möller, Detlev Simple waves and shocks in the shallow two-layer fluid. 91f:76057
 Ockendon, J. R. *see* O'Malley, K.; et al., 91h:76049
 O'Malley, K. (with Fitt, A. D.; Jones, T. V.; Ockendon, J. R.; Wilmott, P.) Models for high-Reynolds-number flow down a step. 91h:76049
 Sakuma, H. (with Ghil, M.) Stability of stationary barotropic modons by Lyapunov's direct method. 91h:76063
 Sheres, David *see* Kenyon, Kern E., 91a:76016
 Swaters, Gordon E. Propagation of two-dimensional solitary drift-vortices in a viscous rotating fluid or plasma. 91h:76104
 Tikliyalainen, A. A. On gyroscopic waves in media with transient flow and rotation. 91c:76118
 Valli, Alberto An existence theorem for nonhomogeneous inviscid incompressible fluids. 91a:35140
 Wilmott, P. *see* O'Malley, K.; et al., 91h:76049
 Zohlna, A. I. Calculation of hydrodynamical reactions on a solid profile that oscillates in a fluid at rest. 91c:76005

76Dxx Incompressible viscous fluids

76D05 Navier-Stokes equations [see also 35Q30]

- Abcha, Fehti *see* Le Quere, Patrick, 91h:76038
 Ache, Gerardo A. Computation of the eigenvalues for perturbations of Poiseuille flow using a two-point boundary value method. 91g:76019
 Alajevic, Andre *see* Sheret, Polge, 91e:76037
 Ames, K. A. (with Payne, Lawrence E.; Straughan, Brian) On the possibility of global solutions for variant models of viscous flow on unbounded domains. 91h:76035
 Antontsev, S. N. (with Kazhikhov, A. V.; Monakhov, V. N.) ★ Boundary value problems in mechanics of nonhomogeneous fluids. 91d:76018
 Bakker, P. G. (with de Winkel, M. E. M.) On the topology of three-dimensional separated flow structures and local solutions of the Navier-Stokes equations. (see 91f:76005)
 Banks, W. H. H. *see* Zaturka, M. B., 91h:76035 and Taylor, C. L.; et al., 91h:76036
 Belyaev, N. M. (with Kashimirov, V. V.) Nonstationary solutions of the Navier-Stokes equations for laminar flows. (Russian) (see 91h:86029)
 Bermúdez de Castro, Alfredo (with Rodríguez-Fernández, Celso; Vilar, M. A.) Solving shallow water equations by a mixed implicit finite element method. 91h:76030
 Boudouides, Moses A. The initial value problem for viscous incompressible free surface flow in a partially filled rotating cylinder. (see 91g:86044)
 Bratyan, M. A. (with Golubkin, V. N.; Krapivskii, P. L.) Bernoulli's equation for the axisymmetric flow of a viscous fluid. 91f:76015
 Burd, G. I. An exact solution of the Navier-Stokes equations. (Not in MR)
 Chaskalovic, Joel Sur la modélisation mathématique de courants atmosphériques singuliers. (English summary) [On a mathematical model of singular atmospheric flows] 91h:76031
 Chen, Hudong *see* Chen, Shi Yi; et al., (Not in MR)
 Chen, Shi Yi (with Chen, Hudong; Doolen, Gary D.) How the lattice gas model for the Navier-Stokes equation improves when a new speed is added. (Not in MR)

- Ch'en, Yü I. *see* Wang, Ch'ing An, 91f76021
- Chester, W. A general theory for the motion of a body through a fluid at low Reynolds number. 91f76019
- Colgan, Tracy. *see* Terrill, Robert M., 91f76034
- Cox, Stephen M. Analysis of steady flow in a channel with one porous wall, or with accelerating walls. 91m76030
- Denisova, I. V. Motion of a drop in the flow of a fluid. (Russian) 91f76020
- Dennis, S. C. R. (with Kocaybiyik, S.) The solution of two-dimensional Oseen flow problems using integral conditions. 91g76020
- *see also* Smith, F. T., (Not in MR)
- Descloix, Jean (with Frosio, R.; Flück, M.) A two fluids stationary free boundary problem. 91c76038
- Doolen, Gary D. *see* Chen, Shi Yi; et al., (Not in MR)
- Drazin, P. G. *see* Taylor, C. L.; et al., 91k76036
- Elshehawey, Elsayed F. *see* Zayed, Elsayed M. E., 91d76022
- Fel'de, E. A. *see* Svirskunov, P. N., 91e76039
- Feldershof, B. Ubbo Hydrodynamic response of a sphere in a plane-wave flow. 91k76032
- Flück, M. *see* Descloix, Jean; et al., 91c76030
- Frosio, R. *see* Descloix, Jean; et al., 91c76030
- Gavrilitskiy, S. L. A remark on V. P. Maslov's work on asymptotic solutions of equations of a viscous incompressible fluid and a viscous barotropic gas. 91b76036
- Gellert, M. *see* Harbord, R., 91g76021
- Goldshtik, M. A. (with Shtern, V. N.) Analysis of the paradox of the interaction of a vortex thread with a plane. 91e76034
- Viscous-flow paradoxes. 91b76037
- (with Shtern, V. N.) Collapse in conical viscous flows. 91f76016
- Golubkin, V. N. *see* Brutyan, M. A.; et al., 91f76015
- van Groesen, E. The self-organization hypothesis for 2D Navier-Stokes equations. (see 91f58005)
- Hansen, Erik B. (with Solonnikov, V. A.) An existence theorem for Poiseuille flow with surface tension in an open channel. 91f76017
- Harbord, R. (with Gellert, M.) Progress in symmetric formulation of the incompressible Navier-Stokes equations. 91g76021
- Hui, W. H. (with Tobak, Murray) Topology of steady and unsteady incompressible three-dimensional separated flows. 91d76019
- *see also* Ma, Philip K. H., 91e76035
- Hwang, T.-W. (with Wang, Ch'ing An) Existence and classification of solutions for a problem of surface-tension driven flows in a slot with an insulated bottom. 91d76020
- Kashirnikov, V. V. *see* Belyaev, N. M., (91b00029)
- Kazhikhov, A. V. Boundary-value problems for Navier-Stokes equations of viscous gas. (see 91f35003)
- *see also* Antontsev, S. N.; et al., 91d76018
- Kellman, N. E. Steady flows in vortex chambers. 91h76023
- Kocaybiyik, S. *see* Dennis, S. C. R., 91g76020
- Kopachevskii, N. D. (with Krein, S. G.) A problem of the flow of a viscous fluid. (Russian. English and German summaries) 91f76018
- Krapivskii, P. L. *see* Brutyan, M. A.; et al., 91f76015
- Krein, S. G. *see* Kopachevskii, N. D., 91f76018
- Larchevêque, Michèle Équation de Monge-Ampère et écoulements incompressibles bidimensionnels. (English summary) [The Monge-Ampère equation and two-dimensional incompressible flows] 91h76024
- Le Queux, Patrick (with Abcha, Fehti) Sur une classe de solutions exactes des équations de Navier-Stokes du fluide de Boussinesq. (English summary) [On a class of exact solutions of the Navier-Stokes equations for the Boussinesq fluid] 91h76038
- Ma, Philip K. H. (with Hui, W. H.) Similarity solutions of the unsteady two-dimensional laminar boundary-layer equations. 91e76035
- Majumdar, S. R. *see* Ramkissoon, H., (Not in MR)
- Monakhov, V. N. *see* Antontsev, S. N.; et al., 91d76018
- Osada, Hirofumi Limit points of empirical distributions of vortices with small viscosity. 91h76039
- Payne, Lawrence E. (with Straughan, Brian) Order of convergence estimates on the interaction term for a micropolar fluid. 91h76040
- (with Straughan, Brian) Comparison of viscous flows backward in time with small data. 91h76041
- *see also* Ames, K. A.; et al., 91h76035
- Perekrest, V. I. Asymptotic behavior of the solutions of a singularly perturbed equations of a vortex source. (Russian) (see 91b00029)
- Pogu, M. (with Tournemine, G.) Étude des écoulements régis par les équations de Navier-Stokes posées dans des domaines bornés complémentaires dans le plan d'un profil à pointe. [Study of flows governed by Navier-Stokes equations posed in bounded domains that are complements in the plane to a pointed profile] 91e76036
- Pukhnachev, V. V. Stokes approximation in a problem of the flow around a self-propelled body. (Russian) 91f76013
- The problem of momentumless flow for the Navier-Stokes equations. (see 91f35003)
- Ramkissoon, H. (with Majumdar, S. R.) Flow due to the longitudinal and torsional oscillation of a cylinder. (Not in MR)
- Ranger, K. B. A conformally invariant Oseen equation for flow at small Reynolds numbers. 91c76031
- Rodríguez-Fernández, Celso *see* Bermúdez de Castro, Alfredo; et al., 91k76030
- Sekerzh-Zenkovich, S. Ya. Natural oscillations of a viscous two-layered fluid in a closed vessel. 91d76021
- Sennitskiy, V. L. Self-propulsion of a body in a fluid. 91k76033
- Shamina, V. A. On a problem of the flow of an incompressible viscous fluid around a sphere. (Russian) (see 91k00010)
- Shmyglevskii, Yu. D. Flows of a viscous fluid that do not depend on the Reynolds number. (Russian) 91f76019
- On an inertial flow. (Russian) 91m76031
- Shtern, V. N. *see* Goldshtik, M. A., 91e76034 and 91f76016
- Skerget, Polje (with Alujević, Andro) Time dependent thermo-hydraulics by boundary elements. (Slovenian summary) 91e76037
- Skorik, V. A. (with Suzikov, G. V.) A method for determining the steady-state axisymmetric flow of a viscous incompressible fluid. (Russian) 91f76020
- Smith, F. T. (with Dennis, S. C. R.) Computations on flow past an inclined flat plate of finite length. (Not in MR)
- Smith, S. H. The Jeffery paradox as the limit of a three-dimensional Stokes flow. 91e76038
- Sokolov, I. V. Vorticity enhancement in convergent incompressible flows: nonself-similar solution of the Navier-Stokes equations. 91a76026
- Solonnikov, V. A. *see* Hansen, Erik B., 91f76017
- Straughan, Brian *see* Ames, K. A.; et al., 91b76035; Payne, Lawrence E., 91b76040 and 91h76041
- Suzikov, G. V. *see* Skorik, V. A., 91f76020
- Svirskunov, P. N. (with Fel'de, E. A.) On the self-similar asymptotics of unsteady vortex flows. 91e76039
- Swaters, Gordon E. Dynamical characteristics of decaying Lamb couples. 91m76032
- Taylor, C. L. (with Banks, W. H. H.; Zaturka, M. B.; Drazin, P. G.) Three-dimensional flow in a porous channel. 91k76036
- Terrill, Robert M. (with Colgan, Tracy) Some simple analytic solutions of the Navier-Stokes equations. 91k76034
- Tobak, Murray *see* Hui, W. H., 91e76019
- Tolstykh, A. I. Compact approximations of the third order in algorithms for an incompressible fluid. 91e76040
- Tournemine, G. *see* Pogu, M., 91e76036
- Vilar, M. A. *see* Bermúdez de Castro, Alfredo; et al., 91k76030
- Wang, Chang Yi Exact solutions of the Navier-Stokes equations—the generalized Beltrami flows, review and extension. (Not in MR)
- Liquid film on an unsteady stretching surface. 91h76025
- Shear flow over convection cells—an exact solution of the Navier-Stokes equations. (Not in MR)
- Wang, Ch'ing An (with Ch'en, Yü I.) Existence and classification of similarity solutions for floating disks and rectangular slots. 91f76021
- *see also* Hwang, T.-W., 91d76020
- de Winkel, M. E. M. *see* Bakker, P. G., (91f76005)
- Wolff, Michael ★ Stationary flow of heat-conducting fluids with free surface between concentric cylinders. 91h76026
- Yavorskiy, N. I. On an asymptotic laminar wake. (Russian) 91m76033
- Zaturka, M. B. (with Banks, W. H. H.) Suction-driven flow in a finite wedge. 91k76035
- *see also* Taylor, C. L.; et al., 91k76036
- Zayed, Elsayed M. E. (with Elshehawey, Elsayed F.) Eigenvalues of the time-dependent fluid flow problem. I. 91d76022

Items with secondary classifications in 76D05

Aboulach, R. (with Fortin, Michel) Iterative methods for the solution of Stokes equations. 91a76060

Afanasyev, Ya. D. *see* Voropayev, S. L., (Not in MR)

Afendikov, A. L. (with Rakhmanov, A. I.) Attractors of the Navier-Stokes system in two-dimensional problems. (Russian) 91h35250

Alberverio, Sergio (with Cruzeiro, Ana Bela) Global flows with invariant (Gibbs) measures for Euler and Navier-Stokes two-dimensional fluids. 91j58030

Aliev, I. V. Comparison of the results of a numerical and an approximate-analytic solution of the Navier-Stokes equation. (Russian) (see 91c00018)

Allaire, Grégoire Homogenization of the Navier-Stokes equations in open sets perforated with tiny holes. I. Abstract framework, a volume distribution of holes. 91k35031a

— Homogenization of the Navier-Stokes equations in open sets perforated with tiny holes. II. Noncritical sizes of the holes for a volume distribution and a surface distribution of holes. 91k35031b

Anagnostou, George (with Fischer, Paul F.; Dewey, Daniel; Patera, Anthony T.) Finite/spectral element Navier-Stokes methods on vector hypercubes and geometry-defining processor reconfigurable lattices. 91c76068

Anderson, Christopher R. (with Greengard, Claude; Greengard, Leslie; Rokhlin, Vladimir V.) On the accurate calculation of vortex shedding. 91c76085

Anderson, Dale A. (with Tannehill, John C.; Fletcher, R.) ★ Вычислительная гидромеханика и теплообмен. Том 1, 2. (Russian) [Computational fluid mechanics and heat transfer. Vol. 1, 2] 91f76041

Armfield, S. W. (with Fletcher, C. A. J.) Symbolic analysis of reduced forms of the Navier-Stokes equations. 91d65197

Aurlant, J.-L. *see* Mel, C. C., 91m76117

Bakker, P. G. On the topology of three-dimensional separations: a guide for classification. 91k76042

Banks, W. H. H. *see* Watson, E. B. B.; et al., 91a76038

Bardos, Claude (with Golse, François; Levermore, C. David) Sur les limites asymptotiques de la théorie cinétique conduisant à la dynamique des fluides incompressibles. (English summary) [On asymptotic limits of kinetic theory leading to incompressible fluid dynamics] 91k76139

— (with Golse, François; Levermore, C. David) Macroscopic limits of kinetic equations. (see 91h00031)

Barkley, Dwight Theory and predictions for finite-amplitude waves in two-dimensional plane Poiseuille flow. 91m76042

Baruzzi, G. *see* Habashi, W. G.; et al., 91m76072

Beggs, C. (with Cardot, B.; Parés, Carlos; Pironneau, Olivier) Simulation of turbulence with transient mean. 91g76047

Behnia, M. (with Wolfsthein, M.; de Vahl Davis, G.) A stable fast marching scheme for computational fluid mechanics. 91a76071

Bell, John B. (with Colella, Phillip; Glaz, Harland M.) A second-order projection method for viscous, incompressible flow. (see 91h76003)

Ben Hadid, H. *see* Lame, P.; et al., 91a76039

Bernardi, Christine (with Canuto, Claudio; Maday, Yvon; Métivier, Brigitte) Single-grid spectral collocation for the Navier-Stokes equations. 91g65253

Borchers, Wolfgang (with Sohr, Hermann) On the equations $\operatorname{rot} v = g$ and $\operatorname{div} u = f$ with zero boundary conditions. 91h35248

Bondarides, Moses A. (with Nikoude, Apostolos C.) Higher regularity of solutions of

- semilinear evolution equations and applications. 91g:34031
- Brandt, Achi (with Yavneh, I.) Inadequacy of first-order upwind difference schemes for some recirculating flows. 91m:76075
- Buchin, V. A. Stabilization of unstable steady-state regimes of the flow of a viscous incompressible fluid around bodies. 91j:76036
- Canuto, Claudio Parallelism in spectral methods. (Italian summary) 91h:65183
- see also Bernardi, Christine; et al., 91g:65253
- Cardot, B. see Begue, C.; et al., 91g:76047
- Caussignac, Philippe (with Gerbi, Stéphane; Renggli, L.) About admissible boundary conditions for Euler and parabolized Navier-Stokes equations. 91f:35208
- Chacón Rebollo, Tomás see Couce Calvo, Julio; et al., (91j:00015)
- Chan, Stevens T. see Gresho, Philip M., 91m:76071b
- Chen, Feng Su Determining modes and fractal dimension of flows. 91e:58169
- Chorin, Alexandre Joel Hairpin removal in vortex interactions. 91h:76062
- Clouqueur, A. see d'Humières, D.; et al., 91h:76064
- Colella, Phillip see Bell, John B.; et al., (91h:76003)
- Constantin, Peter Navier-Stokes equations and area of interfaces. 91i:35148
- Cottet, Georges-Henri (with Mas-Gallie, Sylvie; Raviart, P.-A.) Vortex methods for the incompressible Euler and Navier-Stokes equations. 91d:76064
- (with Mas-Gallie, Sylvie) A particle method to solve the Navier-Stokes system. 91g:76074
- Large-time behavior of deterministic particle approximations to the Navier-Stokes equations. 91g:65208
- Couce Calvo, Julio (with Chacón Rebollo, Tomás; Echevarría, M. R.; Fernández Cara, E.; Martín, J. D.; Ortigón, F.) An asymptotic model for describing turbulence in a boundary layer. (Spanish) (see 91j:00015)
- Cruzeiro, Ana Bela Invariant measures for Euler and Navier-Stokes systems. 91k:35198
- Invariant measures in hydrodynamic systems with random perturbations. 91j:60107
- see also Alberverio, Sergio, 91j:58030
- Cveller, C. (with Schulkes, R. M. S. M.) Some numerical methods for the computation of capillary free boundaries governed by the Navier-Stokes equations. 91m:76082
- Daniilov, V. G. (with Makarov, M. V.; Tsypin, V. A.) A problem of the flow of a viscous incompressible fluid around a semi-infinite flat plate. (Russian) 91c:76037
- Day, Michael A. The no-slip condition of fluid dynamics. 91k:76001
- De Gregorio, Salvatore On a one-dimensional model for the three-dimensional vorticity equation. 91m:76022
- De Masi, A. (with Esposito, Raffaele; Lebowitz, Joel L.; Presutti, Errico) Hydrodynamics of stochastic cellular automata. 91g:82052
- Derville, M. O. Chebyshev collocation solutions of flow problems. 91g:76063
- Dewey, Daniel see Anagnostou, George; et al., 91c:76068
- Dinar, Nathan (with Keller, Herbert B.) Computations of Taylor vortex flows using multigrid continuation methods. 91c:76079
- Drazin, P. G. see Watson, E. B.; et al., 91a:76038
- Du, Qiang (with Gunzburger, Max D.) Finite-element approximations of a Ladyzhenskaya model for stationary incompressible viscous flow. 91e:65123
- Duff, G. F. D. L^2 estimates and integrals for solutions of the Navier-Stokes equations on a three-dimensional closed manifold. (see 91m:35003)
- Derivative estimates for the Navier-Stokes equations in a three-dimensional region. 91j:35218
- Duffy, James W. see Ernst, M. H., 91c:82035 and (Not in MR)
- Durst, F. see Raszillier, H.; et al., (Not in MR)
- Dzhalkbaev, A. M. (with Smagulov, Sh. S.) ϵ -approximation of a model for an inhomogeneous fluid. (Russian) 91f:76086
- Echevarría, M. R. see Couce Calvo, Julio; et al., (91j:00015)
- Egorov, I. V. (with Zaitsev, O. L.) An approach to the numerical solution of two-dimensional Navier-Stokes equations by the through calculation method. (Russian) 91m:65307
- Elizarova, T. G. see Gurov, D. B., 91j:76046
- Ernst, M. H. (with Duffy, James W.) Hydrodynamics and time correlation functions for cellular automata. 91c:82035
- (with Duffy, James W.) Erratum: "Hydrodynamics and time correlation functions for cellular automata" [J. Statist. Phys. 58 (1990), no. 1-2, 57-86; MR 91c:82035]. (Not in MR)
- Erunova, I. B. (with Rivkind, V. Ya.) Estimates for the rate of convergence of approximate methods for calculating the flows of a viscous incompressible fluid with a free surface in domains with corner points. 91j:76045
- Esposito, Raffaele (with Pulvirenti, M.) Three-dimensional stochastic vortex flows. 91a:35173
- see also De Masi, A.; et al., 91g:82052
- Felderhof, R. Ubbo Virtual mass and drag in two-phase flow. 91m:76121
- Fernández Cara, E. see Couce Calvo, Julio; et al., (91j:00015)
- Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. 91g:76064
- see also Anagnostou, George; et al., 91c:76068
- Flaholter, Dalla Vortex methods for slightly viscous three-dimensional flow. 91c:76088
- Fletcher, C. A. J. see Armfield, S. W., 91d:65197
- Fofas, Ciprian (with Temam, Roger) Gevrey class regularity for the solutions of the Navier-Stokes equations. 91a:35135
- Fortin, Michel see Aboulalch, R., 91a:76060
- Franca, Leopoldo P. (with Hughes, Thomas J. R.) Galerkin/least-squares finite element formulations for the Stokes flow problem. (see 91b:00050)
- Fuhrman, Marco On Boussinesq's model for free convection in an unbounded domain. (Italian summary) 91k:35223
- Fujima, Shoichi see Tabata, Masahisa, 91h:76113
- Fursikov, A. V. Navier-Stokes equations from the point of view of the theory of ill-posed boundary value problems. 91k:35200
- Galdi, Giovanni P. (with Maremonti, Paolo) Regularity of weak solutions of the Navier-Stokes system in arbitrary domains. (Italian) 91c:35066
- Gatshi, Thomas B. Review of incompressible fluid flow computations using the vorticity-velocity formulation. 91m:76084
- Gerbi, Stéphane see Caussignac, Philippe; et al., 91f:35208
- Giga, Yoshikazu (with Yoshida, Zensho) A dynamic free-boundary problem in plasma physics. 91h:35334
- Girault, V. Curl-conforming finite element methods for Navier-Stokes equations with nonstandard boundary conditions in R^3 . 91k:65143
- Glaz, Harland M. see Bell, John B.; et al., (91h:76003)
- Glazkov, Yu. V. (with Tirkil, G. A.; Shcherbak, V. G.) A method for solving parabolized Navier-Stokes equations using global iterations. (Russian. English summary) 91m:76085
- Glowinski, Roland Supercomputing and the finite element approximation of the Navier-Stokes equations for incompressible viscous fluids. 91c:76070
- (with Périaux, Jacques; Terrason, G.) On the coupling of viscous and inviscid models for compressible fluid flows via domain decomposition. (see 91e:65010)
- Goldenfeld, Nigel (with Martin, Olivier; Oono, Yoshitsugu) Intermediate asymptotics and renormalization group theory. 91d:82015
- Goldshtik, M. A. (with Shtern, V. N.) Self-similar convection near a thermal quadrupole. 91c:76104
- Golse, François see Bardos, Claude; et al., 91h:76139 and (91h:00031)
- Greengard, Claude see Anderson, Christopher R.; et al., 91c:76085
- Greengard, Leslie see Anderson, Christopher R.; et al., 91c:76085
- Gresho, Philip M. The finite element method in viscous incompressible flows. 91k:76108
- On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. I. Theory. 91m:76071a
- (with Chan, Stevens T.) On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. II. Implementation. 91m:76071b
- Grobelaar-van Dalsen, Marié (with Sauer, Niko) Dynamic boundary conditions for the Navier-Stokes equations. 91a:35136
- van Groesen, E. (with Mainardi, Francesco) Balance laws and centro velocity in dissipative systems. 91c:35152
- Grubb, Gerd (with Solonnikov, V. A.) Reduction of basic initial-boundary value problems for Navier-Stokes equations to initial-boundary value problems for nonlinear parabolic systems of pseudo-differential equations. (Russian. English summary) 91c:35174
- Gulays, I. see Raszillier, H.; et al., (Not in MR)
- Gunzburger, Max D. (with Hou, L.; Svobodny, T. P.) Analysis and finite element approximation of optimal control problems for the stationary Navier-Stokes equations with distributed and Neumann controls. 91m:65182
- see also Du, Qiang, 91e:65123
- Gürlebe, Klaus (with Sprössig, Wolfgang) A quaternionic treatment of Navier-Stokes equations. 91h:35251
- Gurov, D. B. (with Elizarova, T. G.) A method for constructing an algorithm for calculating the flows of a viscous incompressible fluid. (Russian) 91j:76046
- Gustafson, Karl A theory for computational vortex dynamics. 91k:76129
- Guz, A. N. (with Nemish, Yu. N.) ★ Метод возмущения формы границы в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007
- Habashi, W. G. (with Baruzzi, G.; Peeters, M. F.; Hafez, M. M.) Finite element method in the solution of the Euler and Navier-Stokes equations for internal flow. 91m:76072
- Hafez, M. M. see Habashi, W. G.; et al., 91m:76072
- Hageman, Louis A. Relaxation parameters for the IQE iterative procedure for solving semi-implicit Navier-Stokes difference equations. (see 91f:65071)
- Hanab, Peter (with Szepessy, Anders) A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations. 91k:76109
- Hebek, F.-K. On Lagrangian methods and Volterra integral equations of the first kind for incompressible Navier-Stokes problems. (see 91f:35003)
- Hecht, F. (with Pironneau, Olivier) On the numerical simulation of turbulent flows around vehicles. 91a:76061
- Hemker, P. W. (with Koren, Barry) Defect correction and nonlinear multigrid for the steady Euler equations. 91d:76058
- Henshaw, W. D. (with Kreiss, Heinz-Otto; Reyna, L. G.) Smallest scale estimates for the Navier-Stokes equations for incompressible fluids. 91f:35289
- Heywood, John G. Open problems in the theory of the Navier-Stokes equations for viscous incompressible flow. (see 91f:35003)
- see also Navier-Stokes equations, 91f:35003
- Ho, Lee-Wing (with Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. 91g:76077
- Horák, Jiří Systems of the fluid mechanical type: applications and connections. (Russian and Czech summaries) 91h:58132
- Hossain, Mursheed see Zhou, Ye; et al., 91k:76091
- Hou, L. see Gunzburger, Max D.; et al., 91m:65182
- Hou, Thomas Y. Convergence of a variable blob vortex method for the Euler and Navier-Stokes equations. 91m:65240
- Huang, Lan Jie The ULWC finite difference scheme for the numerical solution of incompressible Navier-Stokes equations. 91f:65199
- Hughes, Thomas J. R. see Franca, Leopoldo P., (91b:00050)
- d'Humières, D. (with Clouqueur, A.; Lallemand, P.) Lattice gases and parallel processors. 91h:76064
- Hussaini, M. Y. see Malik, M. R., 91a:76035
- Iannelli, Angela Periodic solutions of the Oberbeck-Boussinesq model relative to the flow of a viscous fluid subject to heating. (Italian summary) 91d:35019
- Ilin, A. A. Navier-Stokes and Euler equations on two-dimensional closed manifolds. 91f:35210
- Ilin, A. V. see Rivkind, V. Ya., 91c:80011
- Isaac, S. A. The method of fictitious domains for a model problem in oceanology. (Russian) 91c:86001
- Israeli, M. see Tomboulides, A. G.; et al., 91c:76084
- Iwaihita, Hirokazu L_q - L_r estimates for solutions of the nonstationary Stokes equations in an exterior domain and the Navier-Stokes initial value problems in L_q spaces. 91d:35167
- Jauberteau, F. (with Rosier, C.; Temam, Roger) The nonlinear Galerkin method in

- computational fluid dynamics. 91g:76078
- (with Rosier, C.; Temam, Roger) A nonlinear Galerkin method for the Navier-Stokes equations. 91k:76130
- Johanson, Claes Streamline diffusion finite element methods for incompressible and compressible fluid flow. 91a:76063
- Karageorghis, Andreas (with Phillips, Timothy N.) Conforming Chebyshev spectral collocation methods for the solution of laminar flow in a constricted channel. 91k:76131
- Karniadakis, G. E. *see* Tomboulides, A. G.; et al., 91g:76084
- Kato, Hisako Weak solutions of the Navier-Stokes initial value problem. 91k:35202
- Kawashima, Shuichi (with Shirata, Yasushi) The Navier-Stokes equation associated with the discrete Boltzmann equation. 91k:35154
- Keller, Herbert B. *see* Dinar, Nathan, 91g:76079 and Schröder, Wolfgang, 91k:76017
- Kelmannson, Mark A. Direct B.E.M. solution of low Reynolds number 2-D flow in infinite viscous media. (see 91b:00043)
- Kida, Shigeo (with Yamada, Michio; Ohkitani, Koji) Route to chaos in a Navier-Stokes flow. 91k:58096
- Kitagawa, Koichi * Boundary element analysis of viscous flow. 91m:76074
- Koren, Barry *see* Hemker, P. W., 91d:76058
- Kozlov, Valeriy I. On a problem of a heavy rigid body falling in a resisting medium. (Russian) 91m:76041
- Kozono, Hideo (with Ozawa, Tohru) Stability in L^1 for the Navier-Stokes flow in an n -dimensional bounded domain. 91k:35203
- (with Sohr, Hermann) New a priori estimates for the Stokes equations in exterior domains. 91m:35189
- (Kraike, A. N.) *see* Anderson, Dale A.; et al., 91f:76041
- Kreiss, Heinz-Otto (with Lorenz, Jens) * Initial-boundary value problems and the Navier-Stokes equations. 91a:35138
- *see also* Henshaw, W. D.; et al., 91k:35209
- Kritz, M. V. Numerical modelling of canopy viscosity. A progress report. (see 91g:00044)
- Lagunova, M. V. On the solvability of a three-dimensional problem of thermocapillary convection. (Russian) 91f:35211
- Lallemand, P. *see* d'Humières, D.; et al., 91k:76064
- Laure, P. (with Roux, B.; Ben Hadid, H.) Nonlinear study of the flow in a long rectangular cavity subjected to thermocapillary effect. 91a:76039
- Lebowitz, Joel L. (with Orlandi, Enzo; Presutti, Errico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001
- *see also* De Masi, A.; et al., 91g:82052
- Leibovich, S. *see* Mahalor, A.; et al., 91k:35252
- Levermore, C. David *see* Bardos, Claude; et al., 91k:76139 and (91k:00031)
- Levin, M. P. * К постановке граничных условий для вихря при численном решении уравнения Навье-Стокса. (Russian) [On the formulation of boundary conditions for vorticity in the numerical solution of the Navier-Stokes equations] 91c:65141
- Li, Kai Tai *see* Zhang, Cheng Dian, 91f:58028
- Lian, Avi Solving numerically the Navier-Stokes equations on parallel systems. 91c:76090
- Lian, Zhong Gao The asymptotic expansion of solutions for the Navier-Stokes equations with large parameters. 91f:35065
- Liu, Chang Mao The structure of systems of first-order Euler-Lagrange equations. (Chinese. English summary) 91c:35176
- Liu, Chao Qun The finite volume element (FVE) and fast adaptive composite grid methods (FAC) for the incompressible Navier-Stokes equations. (see 91c:65008)
- Liu, Ying Xi (with Shang, Xuan Yu) Analysis of the two-dimensional Navier-Stokes problem by a penalty quasi-conforming element technique. (Chinese. English summary) (Not in MR)
- Lorenz, Jens *see* Kreiss, Heinz-Otto, 91a:35138
- Li, Tao (with Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting up method and its application to Navier-Stokes equations. (Not in MR)
- Lukaszewicz, Grzegorz On the existence, uniqueness and asymptotic properties for solutions of flows of asymmetric fluids. (Italian summary) 91d:35174
- (Lumley, John L.) *see* Annual review of fluid mechanics, 91k:76001
- Luo, Zhen Dong A second-order mixed finite element method with quadrilateral elements for the Navier-Stokes problem in two-dimensional space. (Chinese. English summary) (Not in MR)
- Machalek, Martin An orthonormal basis of solenoidal vector functions vanishing on a cylinder. 91f:35218
- Maday, Yvon *see* Bernardi, Christine; et al., 91g:65253 and Ho, Lee-Wing; et al., 91g:76077
- Mahalor, A. (with Titi, Edriss S.; Leibovich, S.) Invariant helical subspaces for the Navier-Stokes equations. 91h:35252
- Mainardi, Francesco *see* van Groesen, E., 91k:35152
- Makarov, M. V. *see* Danilov, V. G.; et al., 91k:76037
- Makhmudov, A. A. (with Popov, S. P.) A numerical scheme for solving equations of a boundary layer with self-induced pressure. (Russian) 91m:76079
- Malik, M. R. (with Hussaini, M. Y.) Numerical simulation of interactions between Görtler vortices and Tollmien-Schlichting waves. 91a:76035
- Mallinetskil, G. G. (with Potapov, A. B.; Pril'mak, V. G.) Geometric and statistical characteristics of an attractor of Navier-Stokes equations for turbulent flows of a viscous fluid in a circular pipe. (Russian. English summary) 91k:76085
- Marchioro, Carlo Incompressible fluids with a potential field and vortex theory. (Italian summary) 91d:76016
- On the vanishing viscosity limit for two-dimensional Navier-Stokes equations with singular initial data. 91f:35212
- Maremonti, Paolo *see* Galdi, Giovanni P., 91c:35066
- Martin, J. D. *see* Couce Calvo, Julio; et al., (91g:00015)
- Martin, Olivier *see* Goldenfeld, Nigel; et al., 91d:82015
- Mau-Galli, Sylvie *see* Cottet, Georges-Henri; et al., 91d:76064 and 91g:76074
- (Masada, Kyuya) *see* Navier-Stokes equations, 91f:35003
- Met, C. C. (with Auriant, J.-L.) The effect of weak inertia on flow through a porous medium. 91m:76117
- Métivier, Brigitte *see* Bernardi, Christine; et al., 91g:65253
- Meyer, Friedrich * Numerische Simulation der Transition in dreidimensionalen Grenzschichten. (German) [Numerical simulation of transition in three-dimensional boundary layers] 91c:76091
- Mogilevskii, I. Sh. (with Solonnikov, V. A.) Solvability of a noncoercive initial-boundary value problem for the Stokes system in Hölder classes of functions (the half-space case). (Russian. English and German summaries) 91d:35168
- Mohapatra, Ram Narayan *see* Vajravelu, K.; et al., 91m:34032
- Nath, G. *see* Sekar, S., (Not in MR)
- Nazarov, S. A. Asymptotic solution of the Navier-Stokes problem on the flow of a thin layer of fluid. 91h:35254
- Neittaanmäki, Pekka *see* Li, Tao; et al., (Not in MR)
- Nemish, Yu. N. *see* Gur, A. N., 91f:73007
- Nicolaenko, Basil (with She, Zhen Su) Coherent structures, homoclinic cycles and vorticity explosions in Navier-Stokes flows. (see 91f:76005)
- Nikoudes, Apostolos C. *see* Bondourides, Moses A., 91g:34031
- Novikov, V. V. Removable sets of the stationary Navier-Stokes system. 91g:35202
- Ohkitani, Koji *see* Kida, Shigeo; et al., 91h:58096
- Oono, Yoshitsugu *see* Goldenfeld, Nigel; et al., 91d:82015
- Orlandi, Enzo *see* Lebowitz, Joel L.; et al., 91m:76001
- Ortega, F. *see* Couce Calvo, Julio; et al., (91g:00015)
- Oselede, V. I. A new form of writing out the Navier-Stokes equation. Hamiltonian formalism. 91c:58173
- Oskolkov, A. P. On an estimate, uniform on the semiaxis $t > 0$, for the rate of convergence of Galerkin approximations for equations of motion of Kelvin-Voigt fluids. (Russian. English summary) 91f:76002
- Ozawa, Tohru *see* Kozono, Hideo, 91k:35203
- Pareds, Carlos Existence and uniqueness of the solution of a nonlinear boundary value problem of fluid mechanics. (Spanish) (see 91j:00015)
- *see also* Bigne, C.; et al., 91g:76047
- Paters, Anthony T. *see* Anagnostou, George; et al., 91c:76068 and Ho, Lee-Wing; et al., 91g:76077
- Peters, M. F. *see* Hahashi, W. G.; et al., 91m:76072
- Pérault, Jacques *see* Glowinski, Roland; et al., (91c:65010)
- Perkins, A. Louise (with Rodrigue, Garry) A domain decomposition method for solving a two-dimensional viscous Burgers' equation. 91h:65209
- Peyret, Roger The Chebyshev multidomain approach to stiff problems in fluid mechanics. 91g:76079
- Phillips, Timothy N. *see* Karageorghis, Andreas, 91k:76131
- Pileckas, Konstantinos (with Solonnikov, V. A.) Stationary Stokes and Navier-Stokes systems in an infinite open channel. II. 91d:35169
- (with Specovius, Maria) Solvability of a problem with free noncompact boundary for the stationary Navier-Stokes system. I. 91f:35213
- (with Solonnikov, V. A.) Stationary Stokes and Navier-Stokes systems in an infinite open channel. I. (Russian. English and Lithuanian summaries) 91d:35169
- (with Specovius, Maria) Solvability of a problem with free noncompact boundary for the stationary Navier-Stokes system. II. (Russian. English and Lithuanian summaries) 91f:35214
- Pironneau, Olivier *see* Hecht, F., 91a:76061 and Bigne, C.; et al., 91g:76047
- Pletcher, R. *see* Anderson, Dale A.; et al., 91f:76041
- (Podviza, G. L.) *see* Anderson, Dale A.; et al., 91f:76041
- Popov, S. P. *see* Makhmudov, A. A., 91m:76079
- Potapov, A. B. *see* Mallinetskil, G. G.; et al., 91k:76085
- Presutti, Errico *see* De Masi, A.; et al., 91g:82052 and Lebowitz, Joel L.; et al., 91m:76001
- Pril'mak, V. G. *see* Mallinetskil, G. G.; et al., 91k:76085
- Prilepkov, A. I. (with Vasin, I. A.) An inverse initial-boundary value problem for the nonlinear Navier-Stokes system in the case of final overdetermination. (Russian) 91c:35156
- (with Vasin, I. A.) A study of problems of the uniqueness of solutions in some nonlinear inverse problems in hydrodynamics. 91c:35157
- *see also* Vasin, I. A., 91m:35194
- Prouse, Giovanni A uniqueness criterion for the solution of the stationary Navier-Stokes equations. 91g:35203
- Pulvirenti, M. *see* Esposito, Raffaele, 91a:35173
- Rakhmanov, A. I. *see* Afendikov, A. L., 91h:35250
- Rannacher, Rolf Numerical analysis of nonstationary fluid flow. 91h:76057
- On the numerical analysis of the nonstationary Navier-Stokes equations (the role of regularity and stability theory). (see 91f:35003)
- Rassiller, H. (with Guigou, I.; Durst, F.) Symbolic computation of flow in a rotating pipe. (Not in MR)
- Raugel, Genevieve (with Sell, George R.) Équations de Navier-Stokes dans des domaines minces en dimension trois: régularité globale. (English summary) [The Navier-Stokes equations in three-dimensional thin domains: global regularity] 91f:35215
- (Rautmann, R.) *see* Navier-Stokes equations, 91f:35003
- Raviart, P.-A. *see* Cottet, Georges-Henri; et al., 91d:76064
- Reed, Helen L. *see* Annual review of fluid mechanics, 91k:76001
- Renggli, L. *see* Causagnac, Philippe; et al., 91f:35208
- Renkema, A. J. (with Verstappen, R.; de Vries, R. W.; Zandbergen, P. J.) Some experiences with spectral methods. (see 91k:76003)
- Reyn, L. G. *see* Henshaw, W. D.; et al., 91k:35209
- Rivkind, V. Ya. (with Ifin, A. V.) Theoretical bases and numerical methods for solving heat-mass exchange problems with a free boundary and an unknown interface. (Russian) 91c:80011
- Numerical methods for the Navier-Stokes equations with an unknown boundary between two viscous incompressible fluids. (see 91f:35003)
- *see also* Erunova, I. B., 91f:76045
- Rodrigue, Garry *see* Perkins, A. Louise, 91h:65209
- Rokhlin, Vladimir V. *see* Anderson, Christopher R.; et al., 91c:76085
- Romquist, Einar M. *see* Ho, Lee-Wing; et al., 91g:76077
- Rosier, C. *see* Jauberteau, F.; et al., 91g:76078 and 91k:76130
- Roux, B. *see* Laure, P.; et al., 91a:76039
- Ruas, Vitoriano Approximation of the vector potential for viscous incompressible flow via the constant stress finite element. 91c:76044

- Sacchi Landriani, Giovanni (with Vandeven, Hervé) Error estimates for the spectral approximation of the nonstationary Stokes problem. 91m:65285
- Sahli, Rodolfo The exterior nonstationary problem for the Navier-Stokes equations in regions with moving boundaries. 91c:35121
- The exterior nonstationary problem for the Navier-Stokes equations in regions with moving boundaries. 91h:35255
- Sauer, Niko see Grubbelaar-van Dalsen, Marié, 91a:35136
- Schieweck, Friedhelm (with Tobiska, L.) A nonconforming finite element method of upstream type applied to the stationary Navier-Stokes equation. (French summary) 91g:65249
- Schmalz, Björn Endlichdimensionale Approximation der Lösung der stochastischen Navier-Stokes-Gleichung. (English summary) [Finite-dimensional approximation of the solution of the stochastic Navier-Stokes equation] 91m:60114
- Langzeitverhalten einer parabolischen Evolutionsgleichung mit zufälligen Einflüssen. (English and Russian summaries) [Long-time behavior of a parabolic evolution equation with random influences] 91m:60115
- Schröder, Wolfgang (with Keller, Herbert B.) Wavy Taylor-vortex flows via multigrid-continuation methods. 91f:76017
- Schulkes, R. M. S. M. see Cuvellier, C., 91m:76082
- Sekar, S. (with Nath, G.) Boundary element solution for Navier-Stokes equations in a constricted channel. (Not in MR)
- Sell, George R. see Rangel, Genevieve, 91f:35215
- (Senia, S. V.) see Anderson, Dale A.; et al., 91f:76041
- Shaidurov, V. V. Multigrid iterative algorithms for solving the stationary Navier-Stokes difference problem. (Russian) (see 91j:00011)
- (Shafman, E. Ya.) see Anderson, Dale A.; et al., 91f:76041
- Shang, Xuan Yu see Lin, Ying Xi, (Not in MR)
- Shcherbak, V. G. see Glazkov, Yu. V.; et al., 91m:76085
- She, Zhen Su see Nicolaenko, Basil, (91f:76085)
- Shekhtin, V. V. A problem with time-average data for Navier-Stokes equations. (Russian) 91m:35192
- Shen, Jie (with Temam, Roger) A new fractional scheme for the approximation of incompressible flows. (Portuguese summary) 91g:76080
- Sheretov, Ya. V. Navier-Stokes equations as the asymptotics of a generalized quasigasdynamical system. (Russian) 91m:76101
- Shinkarenko, G. A. see Zubov, V. M., (Not in MR)
- Shizuta, Yasushi see Kawashima, Shuichi, 91f:35154
- Shopov, Petr I. Lagrangian-Eulerian numerical method for Navier-Stokes equations with weak boundary conditions at infinity. 91a:65232
- Shtern, V. N. see Gol'dshnik, M. A., 91f:76104
- Simon, Jacques Sur les fluides visqueux incompressibles et non homogènes. (English summary) [On nonhomogeneous viscous incompressible fluids] 91f:35158
- Nonhomogeneous viscous incompressible fluids: existence of velocity, density, and pressure. 91f:35159
- Simon, Jean-Claude Strong solutions for nonhomogeneous incompressible flows. 91h:35266
- Smagolov, Sh. S. see Drabalkin, A. M., 91f:76086
- Soewono, Edy see Vajravelu, K.; et al., 91m:34032
- Sohr, Hermann see Borchers, Wolfgang, 91h:35248 and Kato, Hideo, 91m:35189
- Solomonov, V. A. On a nonstationary motion of a finite mass of a liquid bounded by a free surface. 91c:35122
- see also Mogilevskii, I. Sh., 91d:35168; Pileckas, Konstantinas, 91d:35169; 91d:35169b; Grubb, Gerd, 91c:35174 and Navier-Stokes equations, 91f:35003
- Specovius, Maria see Pileckas, Konstantinas, 91f:35213 and 91f:35214
- Spriessig, Wolfgang see Griebbeck, Klaus, 91h:35251
- Stenberg, Rolf A technique for analysing finite element methods for viscous incompressible flow. 91k:76112
- Srobnodny, T. P. see Gunzburger, Max D.; et al., 91m:65182
- Sylvester, Donna Lynn Gates Large time existence of small viscous surface waves without surface tension. 91f:35216
- Szepešy, Anders see Hansbo, Peter, 91h:76109
- Tabata, Masahisa (with Fujima, Shiochi) An upwind finite element scheme for high-Reynolds-number flows. 91k:76113
- Tai, Xue Cheng see Li, Tao; et al., (Not in MR)
- Takahashi, Shuji On interior regularity criteria for weak solutions of the Navier-Stokes equations. 91j:35225
- Tannehill, John C. see Anderson, Dale A.; et al., 91f:76041
- Temam, Roger Do inertial manifolds apply to turbulence? 91a:58111
- Inertial manifolds and multigrid methods. 91f:65132
- see also Foias, Ciprian, 91a:35135; Jambert, F.; et al., 91g:76078; Shen, Jie, 91g:76080 and Jambert, F.; et al., 91h:76130
- Terrason, G. see Glowinski, Roland; et al., (91e:65010)
- Timoneda, Jaime Destruction of 2-torus by collision with an unstable manifold. 91j:76030
- Tirakli, G. A. see Glazkov, Yu. V.; et al., 91m:76085
- Titi, Edriss S. On approximate inertial manifolds to the Navier-Stokes equations. 91j:35226
- see also Mahalov, A.; et al., 91h:35252
- Tobiska, L. see Schieweck, Friedhelm, 91g:65249
- Tomboledis, A. G. (with Israeli, M.; Kaniadakis, G. E.) Efficient removal of boundary-divergence errors in time-splitting methods. 91f:76084
- Trubachev, A. V. Stability of oscillations of a viscous liquid in a moving vessel. 91f:76062
- Tsypin, V. A. see Danilov, V. G.; et al., 91c:76037
- Vahala, George see Zhou, Ye; et al., 91h:76091
- de Vahl Davis, G. see Behnia, M.; et al., 91a:76071
- Vajravelu, K. (with Soewono, Edy; Mohapatra, Ram Narayan) On solutions of some singular, nonlinear differential equations arising in boundary layer theory. 91m:34032
- Vandeven, Hervé see Sacchi Landriani, Giovanni, 91m:65285
- (Van Dyke, Milton) see Annual review of fluid mechanics, 91f:76001
- Vasin, I. A. (with Prilepko, A. I.) Solvability of a three-dimensional inverse problem for nonstationary Navier-Stokes equations. (Russian) 91m:35194
- see also Prilepko, A. I., 91c:35156 and 91c:35157
- Veldman, Arthur E. P. "Missing" boundary conditions? Discretize first, substitute next, and combine later. 91d:65211
- Verstappen, R. see Renkema, A. J.; et al., (91k:76003)
- Voropayev, S. I. (with Afanas'ev, Ya. D.) Self-similar solution for the flow induced by a source/sink in a viscous rotating fluid. (Not in MR)
- de Vries, R. W. see Renkema, A. J.; et al., (91k:76003)
- Watson, E. B. B. (with Banks, W. H. H.; Zaturka, M. B.; Drazin, P. G.) On transition to chaos in two-dimensional channel flow symmetrically driven by accelerating walls. 91a:76038
- Wittum, Gabriel Multi-grid methods for Stokes and Navier-Stokes equations. Transforming smoothers: algorithms and numerical results. 91a:65225
- On the convergence of multi-grid methods with transforming smoothers. Theory with applications to the Navier-Stokes equations. 91d:65156
- Wolfshtein, M. see Behnia, M.; et al., 91a:76071
- Wolska-Bochenek, J. Initial value problem for fourth-order equations in the theory of viscous fluid. 91g:35090
- Wu, Lao Existence of solutions to exterior domain problems for the Navier-Stokes equations in three-dimensional spaces. (Chinese. English summary) 91k:35161
- Yamada, Michio see Kida, Shigeo; et al., 91h:58096
- Yavneh, I. see Brandt, Achil, 91m:76075
- Ying, Long An On the viscosity splitting method for initial-boundary value problems of the Navier-Stokes equations. 91c:35123
- Viscosity splitting method in bounded domains. 91h:65201
- Viscous splitting for the unbounded problem of the Navier-Stokes equations. 91d:35170
- Yoshida, Zensho see Giga, Yoshikazu, 91h:35334
- Zaitsev, O. L. see Egorov, I. V., 91m:65307
- Zandbergen, P. J. see Renkema, A. J.; et al., (91k:76003)
- Zaturka, M. B. see Watson, E. B. B.; et al., 91a:76038
- Zhang, Cheng Dian (with Li, Kai Tai) Bifurcation problems of multiparameter and multibranch and their applications. 91h:58028
- Zhang, Lian Wen The regularity of degenerate elliptic boundary value problems and axisymmetric viscous flow for the Stokes problem. (Chinese. English summary) 91m:35097
- Zhang, Lin Bo A second-order upwinding finite difference scheme for the steady Navier-Stokes equations in primitive variables in a driven cavity with a multigrid solver. (French summary) 91d:76062
- Zhou, Ye (with Vahala, George; Hossain, Murshed) Renormalized eddy viscosity and Kolmogorov's constant in forced Navier-Stokes turbulence. 91k:76091
- Zhu, Jia Lin The boundary integral equation method for incompressible viscous flows with slip boundary condition. 91f:76045
- Zhura, N. A. A nonlocal boundary value problem for a stationary linearized two-dimensional system of Navier-Stokes equations. 91f:35162
- Zubov, V. M. (with Shinkarenko, G. A.) Convergence of the regularization method for a boundary value problem for the Navier-Stokes equations. (Ukrainian. Russian summary) (Not in MR)

Items listed otherwise than by author

Annual review of fluid mechanics ★ Annual review of fluid mechanics. Vol. 23. 91f:76001

Conference: Navier-Stokes Equations ★ The Navier-Stokes equations. 91f:35003

Lecture Notes in Engineering see Kitagawa, Koichi, 91m:76074

Lecture Notes in Mathematics ★ The Navier-Stokes equations. 91f:35003

Navier-Stokes equations ★ The Navier-Stokes equations. 91f:35003

Oberwolfach ★ The Navier-Stokes equations. 91f:35003

76D07 Stokes flows

- Allaire, Grégoire Prolongement de la pression et homogénéisation des équations de Stokes dans un milieu poreux connexe. (English summary) [Pressure extension and homogenization of Stokes equations in a connected porous medium] 91f:76041
- Homogénéisation des équations de Stokes dans un domaine perforé de petits trous répartis périodiquement. (English summary) [Homogenization of Stokes equations in open sets perforated with periodically distributed tiny holes] 91f:76042
- Amaranath, T. see Palaniappan, D.; et al., 91h:76037
- Avakyan, V. A. (with Smirnov, L. P.) Generalizations of Faxen's formula for different forms of boundary conditions. 91f:76043
- Bajer, K. (with Moffatt, H. K.) On a class of steady confined Stokes flows with chaotic streamlines. 91g:76022
- Brewster, M. E. see Moore, Andrew M.; et al., 91h:76042
- Buchwald, V. T. see Moore, Andrew M.; et al., 91h:76042
- Chemers, V. S. see Vasilenko, Ya. F., 91a:76027
- Conca, Carlos (with Sepulveda, Mauricio) Numerical results in the Stokes sieve problem. (Spanish. English summary) 91c:76032
- Deakin, Michael A. B. Addendum: "Stokes flow: an elementary treatment" [SIAM Rev. 31 (1989), no. 4, 667-670; MR 90k:76043]. (Not in MR)
- Hackborn, W. W. Asymmetric Stokes flow between parallel planes due to a rotlet. 91m:76034
- Hopper, Robert W. Plane Stokes flow driven by capillarity on a free surface. 91c:76033
- Jeong, Jae-Tack (with Kim, Moon Uhn) Two-dimensional slow viscous flow due to the rotation of a body with cusped edges. 91h:76027
- Kaloni, P. N. see Yu, Qin, 91h:76045
- Kim, Moon Uhn see Jeong, Jae-Tack, 91h:76027
- Maremonti, Paolo (with Solonnikov, V. A.) An estimate for the solutions of a Stokes system in exterior domains. (Russian. English summary) 91h:76028
- Moffatt, H. K. see Bajer, K., 91g:76022
- Moore, Andrew M. (with Buchwald, V. T.; Brewster, M. E.) A Stokesian entry flow. 91h:76042
- Nigam, S. D. see Palaniappan, D.; et al., 91h:76037
- Palaniappan, D. (with Nigam, S. D.; Amaranath, T.; Usha, R.) A theorem for a shear-free sphere in Stokes' flow. 91k:76037

- Pileckas, Konstantinos** On plane motion of a viscous incompressible capillary liquid with a noncompact free boundary. (Russian and Polish summaries) 91m:76035
- Power, Henry** Matched-asymptotic analysis of low-Reynolds number flow past a cylinder of arbitrary cross-sectional shape. (Portuguese summary) 91k:76038
- A note on the exterior second boundary value problem for the Stokes' equation. (Portuguese summary) 91k:76039
- Pravica, D. W.** Spatially periodic Stokes flow stirred by a rotlet interior to a closed corrugated boundary. 91c:76034
- Quartapelle, Luigi** (with Valz-Gris, Fausto) Sur l'évolution du champ de pression dans les écoulements visqueux incompressibles. (English summary) [On the evolution of the pressure field in incompressible viscous flows] 91c:76035
- Ruas, Vitoriano** Approximation of the vector potential for viscous incompressible flow via the constant stress finite element. 91c:76044
- Saltanov, N. V.** New representations of the general solution of a system of Stokes equations. 91k:76029
- Sepulveda, Mauricio** see Conca, Carlos, 91c:76032
- Smirnov, L. P.** see Arakyan, V. A., 91c:76043
- Smith, S. H.** Some limitations of two-dimensional unbounded Stokes flow. 91c:76022
- Solomonov, V. A.** see Maremonti, Paolo, 91h:76028
- Usha, R.** see Palaniappan, D.; et al., 91k:76037
- Valz-Gris, Fausto** see Quartapelle, Luigi, 91c:76035
- Vasilenko, Ya. F.** (with Chemeris, V. S.) The Stokes problem and Muskhelishvili integral equations. (Russian) 91a:76027
- Wu, Wang Yi** see Zeng, Yu, (Not in MR)
- Yan, Zong Yi** New methods in the theory of strong hydrodynamic interactions for Stokes flows. (Russian. English summary) 91g:76023
- Yu, Qin** (with Kaloni, P. N.) An extension of Cartesian tensor solution of Stokes equations to axisymmetric particles. 91c:76045
- Zeng, Yu** (with Wu, Wang Yi) An exact solution to the Stokes flow around a spherical shell with filtration. (Chinese. English summary) (Not in MR)
- Items with secondary classifications in 76D07**
- Allaire, Grégoire** Homogenization of the Stokes flow in a connected porous medium. 91c:35134
- Alujević, Andro** see Skerget, Polje, 91c:76037
- Antanovskii, L. K.** A model problem on the filling of a plane capillary by a viscous fluid. (Russian) 91k:76043
- Stability of the equilibrium of a fluid layer under the action of thermocapillary forces in a quasistationary approximation. 91h:76035
- Baker, Garth A.** (with Jureidini, Wadi N.; Karakashian, Ohannes A.) Piecewise solenoidal vector fields and the Stokes problem. 91c:65246
- Bank, Randolph E.** (with Welfert, Bruno D.) A posteriori error estimates for the Stokes equations: a comparison. 91g:76061
- (with Welfert, Bruno D.) A comparison between the mini-element and the Petrov-Galerkin formulations for the generalized Stokes problem. 91j:76042
- Bayada, G.** (with Chambat, M.) Junction between a 3-D Stokes flow and a 2-D thin film with pressure boundary conditions. 91d:76023
- Bernardi, Christine** (with Maday, Yvon) Relèvement polynomial de traces et applications. (English summary) [Polynomial lifting of traces, and applications] 91k:65040
- Besson, Olivier** (with Laydi, Mohamed; Touzani, Rachid) Un modèle asymptotique en océanographie. (English summary) [An asymptotic model in oceanography] 91d:76025
- Bramble, James H.** (with Pasciak, Joseph E.) A domain decomposition technique for Stokes problems. 91c:65168
- Brenner, Susanne C.** A nonconforming multigrid method for the stationary Stokes equations. 91d:65167
- Chambat, M.** see Bayada, G., 91d:76023
- Chang, Ching-Lung** (with Jiang, Bo-Nan) An error analysis of least-squares finite element method of velocity-pressure-vorticity formulation for Stokes problem. 91k:76106
- see also Jiang, Bo-Nan, 91k:76058
- Chester, W.** A general theory for the motion of a body through a fluid at low Reynolds number. 91j:76019
- Chwang, Allen T.** (with Hwang, Wei-Shien) Rotation of a torus. 91c:76130
- Dearing, Paul** The Stokes-system in exterior domains: L^p -estimates for small values of a resolvent parameter. (German summary) 91k:35199
- Deville, M. O.** Chebyshev collocation solutions of flow problems. 91g:76063
- Dörfler, W.** The conditioning of the stiffness matrix for certain elements approximating the incompressibility condition in fluid dynamics. 91k:65142
- Finocchiaro, P.** (with Restuccia, L.) Growth of thermo-acceleration waves in a model of irreversible thermodynamics. (Italian summary) 91c:80092
- Galdi, Giovanni P.** (with Simader, Christian G.) Existence, uniqueness and L^p -estimates for the Stokes problem in an exterior domain. 91m:35188
- Ganatos, Peter** see Weinbaum, Sheldon; et al., 91m:76087
- Garza, E.** Estimates of errors arising in the computation of forces acting on rigid bodies in Stokes and potential flows due to variations in geometry. 91c:76078
- Halpern, Laurence** (with Vandeven, Hervé) Condition aux limites transparente et méthode spectrale pour le problème de Stokes dans un domaine extérieur. (English summary) [Transparent boundary condition and spectral method for the Stokes problem in an exterior domain] 91k:35201
- Hwang, Wei-Shien** see Chwang, Allen T., 91c:76130
- Jiang, Bo-Nan** (with Chang, Ching-Lung) Least-squares finite elements for the Stokes problem. 91h:76058
- see also Chang, Ching-Lung, 91k:76106
- Jin, Chao Song** see Zhu, Jia Lin, 91c:65186
- Jureidini, Wadi N.** see Baker, Garth A.; et al., 91m:65246
- Karakashian, Ohannes A.** see Baker, Garth A.; et al., 91m:65246
- Keller, Joseph B.** see Rubinstein, Jacob, 91c:76114 and 91c:76115
- Kobel'kov, G. M.** (with Orlova, N. B.) A fast method for solving the Stokes problem. 91c:65162
- Koonse, Hideo** (with Sohr, Hermann) New a priori estimates for the Stokes equations in exterior domains. 91m:35189
- Kratz, Werner** On the representation of Stokes flows. 91j:35221
- Laydi, Mohamed** see Besson, Olivier; et al., 91d:76025
- Lévy, Thérèse** Filtration in a porous fissured rock: influence of the fissures connectivity. 91m:76116
- L'vin, S. Ya.** Linear optimal control problems. Solution of a Stokes system with minimal energy. (Russian) 91k:49030
- Maday, Yvon** see Bernardi, Christine, 91k:65040
- Maslennikova, V. N.** (with Timoshin, M. A.) On L_p -theory for the Stokes problem in unbounded domains with a compact boundary. 91k:35205
- Nazarov, S. A.** Behavior at infinity of the solutions of Lamé and Stokes systems in a sector of a layer. (Russian. Armenian summary) 91g:35049
- Asymptotics of the Stokes system solutions at a surfaces contact point. (French summary) 91k:35157
- Orlova, N. B.** see Kobel'kov, G. M., 91c:65162
- Papanicolaou, George** (with Zhu, Jingyi) A vortex method for fluid-particle systems. 91g:76097
- Pasciak, Joseph E.** see Bramble, James H., 91c:65168
- Phillips, Timothy N.** (with Soliman, Ibrahim M.) Influence matrix technique for the numerical spectral simulation of viscous incompressible flows. 91k:76134
- Pozrikidis, C.** The deformation of a liquid drop moving normal to a plane wall. 91d:76031
- Pukhnachev, V. V.** Stokes approximation in a problem of the flow around a self-propelled body. (Russian) 91k:76013
- Quarteroni, Alfio** (with Sacchi Landriani, Giovanni) Iteration by subdomains in numerical fluid dynamics. 91k:76111
- (with Valli, Alberto) Domain decomposition for a generalized Stokes problem. 91k:65155
- Renardy, Michael** Corner singularities between free surfaces and open boundaries. 91k:76050
- Restuccia, L.** see Finocchiaro, P., 91c:80092
- Rubinstein, Jacob** (with Torquato, Sal) Flow in random porous media: mathematical formulation, variational principles, and rigorous bounds. 91c:76109
- (with Keller, Joseph B.) Sedimentation of a dilute suspension. 91c:76114
- (with Keller, Joseph B.) Particle distribution functions in suspensions. 91c:76115
- Evolution equations for stratified dilute suspensions. 91c:76116
- Rusu, D. D.** Some fundamental solutions in filtration theory. 91g:76093
- Sacchi Landriani, Giovanni** (with Vandeven, Hervé) A multidomain spectral collocation method for the Stokes problem. 91j:65168
- see also Quarteroni, Alfio, 91k:76111
- Samalitis, Kazimieras** A boundary value problem for a Stokes system in a strip. 91m:35191
- Simader, Christian G.** see Galdi, Giovanni P., 91m:35188
- Skerget, Polje** (with Alujević, Andro) Time dependent thermo-hydraulics by boundary elements. (Slovenian summary) 91c:76037
- Smith, S. H.** The Jeffery paradox as the limit of a three-dimensional Stokes flow. 91c:76038
- Sohr, Hermann** (with Varnhorn, Werner) On decay properties of the Stokes equations in exterior domains. 91j:35052
- see also Kozono, Hideo, 91m:35189
- Soliman, Ibrahim M.** see Phillips, Timothy N., 91k:76134
- Timoshin, M. A.** see Maslennikova, V. N., 91k:35205
- Torquato, Sal** see Rubinstein, Jacob, 91c:76109
- Touzani, Rachid** see Besson, Olivier; et al., 91d:76025
- Valli, Alberto** see Quarteroni, Alfio, 91k:65155
- Vandeven, Hervé** Compatibilité des espaces discrets pour l'approximation spectrale du problème de Stokes périodique/non périodique. (English summary) [Compatibility of discrete spaces in the spectral approximation of the periodic/nonperiodic Stokes problem] 91h:65185
- see also Sacchi Landriani, Giovanni, 91j:65168 and Halpern, Laurence, 91k:35201
- Varnhorn, Werner** An explicit potential theory for the Stokes resolvent boundary value problems in three dimensions. 91k:31011
- see also Sohr, Hermann, 91j:35052
- Weinbaum, Sheldon** (with Ganatos, Peter; Yan, Zong Yi) Numerical multipole and boundary integral equation techniques in Stokes flow. 91m:76087
- Welfert, Bruno D.** see Bank, Randolph E., 91g:76061 and 91j:76042
- Yan, Zong Yi** see Weinbaum, Sheldon; et al., 91m:76087
- Ying, Long An** Viscous splitting for the unbounded problem of the Navier-Stokes equations. 91d:35170
- Zhang, Lian Wen** The regularity of degenerate elliptic boundary value problems and axisymmetric viscous flow for the Stokes problem. (Chinese. English summary) 91m:35097
- Zhu, Jia Lin** (with Jin, Chao Song) Boundary element approximation of Stokes equation with slip boundary condition. 91c:65186
- Zhu, Jingyi** see Papanicolaou, George, 91g:76097
- Zhura, N. A.** A nonlocal boundary value problem for a two-dimensional Stokes system. 91k:35258
- 76D08 Lubrication theory**
- Alvarez, S. J.** (with Carrillo, José; Díaz Díaz, Jesús Ildefonso) Cavitation in lubrication: an evolution model. (see 91j:00015)
- Bayada, G.** (with Chambat, M.) Junction between a 3-D Stokes flow and a 2-D thin film with pressure boundary conditions. 91d:76023
- Bermúdez de Castro, Alfredo** (with Durany, J.) Numerical solution of cavitation problems in lubrication. 91c:76036
- Carrillo, José** see Alvarez, S. J.; et al., (91j:00015)
- Chambat, M.** see Bayada, G., 91d:76023
- Díaz Díaz, Jesús Ildefonso** see Alvarez, S. J.; et al., (91j:00015)
- Dube, G. S.** Effect of rotation in infinitely long journal bearing: a new fundamental solution. (Not in MR)
- Durany, J.** see Bermúdez de Castro, Alfredo, 91c:76036
- Items with secondary classifications in 76D08**
- Alvarez, S. J.** Qualitative properties of the free-boundary of the Reynolds equation in

- lubrication. 91a:35169
- Bailey, C. M. (with McAllister, G. T.) On the optimal control of minimum film thickness. 91j:49060
- Bermúdez de Castro, Alfredo (with Durany, J.) Solving some free boundary problems by a method of characteristics. (see 91g:00044)
- Durany, J. see Bermúdez de Castro, Alfredo, 91g:00044
- Gakwaya, A. A three-dimensional boundary element formulation for thermo-elastohydrodynamic contact problems. (see 91b:00043)
- Gratton, Julio (with Minotti, Fernando) Self-similar viscous gravity currents: phase-plane formalism. 91b:76049
- van Groesen, E. (with Verstappen, R.) A dynamic variation principle for elastic-fluid contacts, applied to elastohydrodynamic lubrication theory. 91g:73054
- Haley, Patrick J. (with Miksis, Michael J.) The effect of the contact line on droplet spreading. 91k:76044
- Hu, Bei A quasi-variational inequality arising in elastohydrodynamics. 91c:35163
- Kerchman, V. I. On the problem of the spreading and extrusion of a layer of a nonlinearly viscous fluid. 91b:76005
- Self-similar solutions of problems of the spreading and extrusion of a layer of a nonlinearly viscous fluid. (Russian) 91b:76006
- McAllister, G. T. see Bailey, C. M., 91j:49060
- Miksis, Michael J. see Haley, Patrick J., 91k:76044
- Minotti, Fernando see Gratton, Julio, 91b:76049
- Nazarov, S. A. Asymptotic solution of the Navier-Stokes problem on the flow of a thin layer of fluid. 91h:35254
- Sapagovas, Mifodijus see Vitkauskas, Gediminas; et al., 91e:76081
- Sapagovienė, Dangutė see Vitkauskas, Gediminas; et al., 91e:76081
- Verstappen, R. see van Groesen, E., 91g:73054
- Vitkauskas, Gediminas (with Sapagovas, Mifodijus; Sapagovienė, Dangutė) A numerical method for solving the Reynolds equation in spherical coordinates. (Russian. English and Lithuanian summaries) 91e:76081

76D10 Boundary-layer theory

- Amla, Nersarahaia The effect of bottom topography on channel flow induced by a travelling thermal wave. 91k:76040
- Anson, Rainer (with Blanck, M. L.) On the numerical treatment of Prandtl's boundary-layer equations via Crocco's transformation. 91g:76024
- Blanck, M. L. see Anson, Rainer, 91g:76024
- Botta, E. F. F. see van de Vooren, A. I., 91k:76041
- Burd, G. I. A class of solutions of the boundary layer equations. 91j:76021
- On a self-similar solution of the boundary layer equations. 91e:76046
- Cowley, Stephen J. see van Dommelen, Leon L., 91g:76025
- Daniilov, V. G. (with Makarov, M. V.; Tsupin, V. A.) A problem of the flow of a viscous incompressible fluid around a semi-infinite flat plate. (Russian) 91c:76037
- Dhar, H. (with Nanda, K. D.) Induced flow due to normal oscillation of a wavy wall. 91a:76028
- van Dommelen, Leon L. (with Cowley, Stephen J.) On the Lagrangian description of unsteady boundary-layer separation. I. General theory. 91g:76025
- On the Lagrangian description of unsteady boundary-layer separation. II. The spinning sphere. 91g:76026
- Dumitrache, A. L. see Dumitrache, H.; et al., 91b:76043
- Dumitrache, H. (with Georgescu, Adelina; Dumitrache, A. L.) Boundary layer separation. I. Bubbles on leading edges. 91b:76043
- Georgescu, Adelina see Dumitrache, H.; et al., 91b:76043
- Godts, Stéphane (with Zeytounian, R. Kh.) Flows with variable viscosity: an asymptotic model. 91m:76036
- Gol'dshchik, M. A. (with Yavorskii, N. I.) A rotating disk on an air cushion. 91b:76044
- Hui, W. H. see Ma, Philip K. H., 91k:76030
- Jayaseelan, S. James see Raj, S. Antony, 91m:76037
- Ma, Philip K. H. (with Hui, W. H.) Similarity solutions of the two-dimensional unsteady boundary-layer equations. 91b:76030
- Makarov, M. V. see Daniilov, V. G.; et al., 91c:76037
- Mohapatra, Ram Narayan see Vajravelu, K., 91d:76024
- Nanda, K. D. see Dhar, H., 91a:76028
- Popov, S. P. see Zhuk, V. I., 91c:76038
- Raj, S. Antony (with Jayaseelan, S. James) An analytical solution to unsteady axisymmetric stagnation flow. 91m:76037
- Robin, W. A. A noniterative solution of a system of ordinary differential equations arising from boundary layer theory. (Not in MR)
- Tanaka, Ichiro Three-dimensional ship boundary layer and wake. (see 91e:76004)
- Tersenov, A. S. A problem on the continuation of a boundary layer for an inhomogeneous incompressible fluid. (Russian) 91j:76022
- Titov, O. V. Zones of influence and dependence for a model system of equations in the three-dimensional boundary layer theory. 91b:76045
- Tsupin, V. A. see Daniilov, V. G.; et al., 91c:76037
- Vajravelu, K. (with Mohapatra, Ram Narayan) On fluid dynamic drag reduction in some boundary layer flows. 91d:76024
- van de Vooren, A. I. (with Botta, E. F. F.) The torque required for a steady rotation of a disk in a quiescent fluid. 91k:76041
- Yavorskii, N. I. see Gol'dshchik, M. A., 91b:76044
- Young, A. D. * Boundary layers. 91k:76014
- Zeytounian, R. Kh. see Godts, Stéphane, 91m:76036
- Zhuk, V. I. (with Popov, S. P.) Nonlinear development of long-wave inviscid perturbations in a boundary layer. 91c:76038
- (with Boutros, Y. Z.; Badran, N. A.) Group method analysis of unsteady free-convective laminar boundary-layer flow on a nonisothermal vertical flat plate. 91g:76085
- Badran, N. A. see Abd-el-Malek, M. B.; et al., 91g:76085 and 91j:76062
- Banks, W. H. H. see Zaturka, M. B., 91k:76035
- Bassom, Andrew P. (with Seddougui, Sharon O.) The onset of three-dimensionality and time-dependence in Görtler vortices: neutrally stable wavy modes. 91k:76070
- (with Hall, Philip²) On the interaction of stationary crossflow vortices and Tollmien-Schlichting waves in the boundary layer on a rotating disc. 91b:76039
- Bayada, G. (with Chambat, M.) Junction between a 3-D Stokes flow and a 2-D thin film with pressure boundary conditions. 91d:76023
- Borgas, M. S. (with Pedley, T. J.) Nonuniqueness and bifurcation in annular and planar channel flows. 91c:76043
- Boutros, Y. Z. see Abd-el-Malek, M. B.; et al., 91g:76085
- Cassaigne, Philippe (with Touzani, Rachid) A discontinuous finite element method for heat transfer equation in a three-dimensional boundary layer. (see 91b:00050)
- (with Touzani, Rachid) Solution of three-dimensional boundary layer equations by a discontinuous finite element method. I. Numerical analysis of a linear model problem. 91j:76043
- (with Touzani, Rachid) Solution of three-dimensional boundary layer equations by a discontinuous finite element method. II. Implementation and numerical results. 91j:76044
- Chambat, M. see Bayada, G., 91d:76023
- Ch'en, Yu I. see Wang, Ch'ing An, 91f:76021
- Dekema, Sandra Kay (with Schultz, David H.) High-order methods for differential equations with large first-derivative terms. 91d:76065
- Duck, Peter W. Unsteady three-dimensional marginal separation, including breakdown. 91j:76015
- Ehrenmark, Ulf Torsten On viscous wave motion over a plane beach. 91m:76013
- Fischer, Thomas Manfred A Galerkin approximation for linear eigenvalue problems in two- and three-dimensional boundary-layer flows. 91m:76083
- Fishelov, Dalia Vortex methods for slightly viscous three-dimensional flow. 91c:76088
- Hall, Philip² Görtler vortices in growing boundary layers: the leading edge receptivity problem, linear growth and the nonlinear breakdown stage. 91m:76044
- see also Bassom, Andrew P., 91j:76039
- Hui, W. H. see Ma, Philip K. H., 91k:76035
- Kolobov, B. P. (with Korobitsyna, Zh. L.; Plyasunova, A. V.; Sleptsov, A. G.) The collocation-difference method on moving grids of numerical modeling of boundary layers. (Russian) 91d:76031
- Korobitsyna, Zh. L. see Kolobov, B. P.; et al., 91k:76031
- Kozlov, V. E. A simple finite-difference procedure for calculating an unsteady laminar boundary layer of a plate. (Russian) (Not in MR)
- Kozlov, Viktor Vladimirovich (with Ryzhov, O. S.) Receptivity of boundary layers: asymptotic theory and experiment. 91d:76032
- Lu, Chun Qiang Existence, bifurcation, and limit of solutions of the similarity equations for floating rectangular cavities and disks. 91c:34026
- Ma, Philip K. H. (with Hui, W. H.) Similarity solutions of the unsteady two-dimensional laminar boundary-layer equations. 91e:76035
- Mahmood, T. see Merkin, J. H., 91b:76094 and 91m:76109
- Maslowe, Sherwin A. Waves in shear flows. 91c:76055
- Merkin, J. H. (with Mahmood, T.) On the free convection boundary layer on a vertical plate with prescribed surface heat flux. 91b:76094
- (with Pop, Ioan²; Mahmood, T.) Mixed convection on a vertical surface with a prescribed heat flux: the solution for small and large Prandtl numbers. 91m:76109
- Meyer, Friedrich * Numerische Simulation der Transition in dreidimensionalen Grenzschichten. (German) [Numerical simulation of transition in three-dimensional boundary layers] 91c:76091
- Pedley, T. J. see Borgas, M. S., 91c:76043
- Phan-Thien, N. (with Zheng, R.) Viscoelastic flow in a curved channel: a similarity solution for the Oldroyd-B fluid. 91j:76004
- Plyasunova, A. V. see Kolobov, B. P.; et al., 91k:76031
- Polyanin, A. D. see Zaitsev, V. F., 91c:76001
- Pop, Ioan² see Merkin, J. H.; et al., 91m:76109
- Rollins, David K. see Vajravelu, K., 91m:76129
- Rothmayer, A. P. The viscous flow through symmetric collapsible channels. 91e:73096
- Ryzhov, O. S. see Kozlov, Viktor Vladimirovich, 91d:76032
- Schultz, David H. see Dekema, Sandra Kay, 91d:76065
- Seddougui, Sharon O. see Bassom, Andrew P., 91k:76070
- Singh, Brij Bhan see Singh, Janardan, 91h:76083
- Singh, Janardan (with Singh, Brij Bhan) Existence and uniqueness of the solutions of the hydromagnetic boundary layer flows past a semi-infinite flat plate. 91h:76083
- Sleptsov, A. G. see Kolobov, B. P.; et al., 91k:76031
- Smith, F. T. (with Walton, A. G.) Nonlinear interaction of near-planar TS waves and longitudinal vortices in boundary-layer transition. 91c:76057
- Smith, S. H. The development of geostrophic flow within a split cylinder. 91m:76123
- Šuhubi, E. S. Isosector fields and similarity solutions for general balance equations. 91m:35062
- Touzani, Rachid see Cassaigne, Philippe, 91j:76043; 91j:76044 and (91b:00050)
- Vajravelu, K. (with Rollins, David K.) On solutions of some unsteady flows over a continuous, moving, porous flat surface. 91m:76129
- Walton, A. G. see Smith, F. T., 91c:76057
- Wang, Ch'ing An (with Ch'en, Yu I.) Existence and classification of similarity solutions for floating disks and rectangular slots. 91f:76021
- Zaitsev, V. F. (with Polyanin, A. D.) Exact solutions of the boundary layer equations for power-law fluids. 91c:76001
- Zaturka, M. B. (with Banks, W. H. H.) Suction-driven flow in a finite wedge. 91k:76035
- Zheng, R. see Phan-Thien, N., 91j:76004

Items with secondary classifications in 76D10

- Abd-el-Malek, M. B. (with Badran, N. A.) Group method analysis of unsteady free-convective laminar boundary-layer flow on a nonisothermal vertical circular cylinder. 91j:76062

76D15 Boundary-layer separation and reattachment

- Bakker, P. G. On the topology of three-dimensional separations: a guide for classification.

91k:76042

- Bassanini, Piero Underpressure vs Reynolds number. (Italian summary) 91g:76027
 Becker, Anne The separated flow past a cylinder in a rotating frame. 91m:76038
 Cowley, Stephen J. (with van Dommelen, Leon L.; Lam, Shui T.) On the use of Lagrangian variables in descriptions of unsteady boundary-layer separation. 91j:76023
 van Dommelen, Leon L. see Cowley, Stephen J.; et al. 91j:76023
 Duck, Peter W. Unsteady three-dimensional marginal separation, including breakdown. 91i:76015

Lam, Shui T. see Cowley, Stephen J.; et al. 91j:76023

Items with secondary classifications in 76D15

- Cowley, Stephen J. see van Dommelen, Leon L. 91g:76025
 van Dommelen, Leon L. (with Cowley, Stephen J.) On the Lagrangian description of unsteady boundary-layer separation. I. General theory. 91g:76025
 — On the Lagrangian description of unsteady boundary-layer separation. II. The spinning sphere. 91g:76026
 Dumitrescu, Al. see Dumitrescu, H.; et al. 91h:76043
 Dumitrescu, H. (with Georgescu, Adelina; Dumitrescu, Al.) Boundary layer separation. I. Bubbles on leading edges. 91h:76043
 Georgescu, Adelina see Dumitrescu, H.; et al. 91h:76043
 Hui, W. H. (with Tobak, Murray) Topology of steady and unsteady incompressible three-dimensional separated flows. 91d:76019
 — see also Ma, Philip K. H. 91e:76035 and 91h:76030
 Ma, Philip K. H. (with Hui, W. H.) Similarity solutions of the unsteady two-dimensional laminar boundary-layer equations. 91e:76035
 — (with Hui, W. H.) Similarity solutions of the two-dimensional unsteady boundary-layer equations. 91h:76030
 Singh, Brij Bhan (with Singh, Janardan) On the asymptotic behaviour of the solutions of the equations of the flows near saddle point of attachment. 91h:34083
 Singh, Janardan see Singh, Brij Bhan. 91h:34083
 Tobak, Murray see Hui, W. H. 91d:76019
 Zolina, A. I. Calculation of hydrodynamical reactions on a solid profile that oscillates in a fluid at rest. 91e:76005

76D25 Wakes and jets

Items with secondary classifications in 76D25

- Chow, Kwok W. Inviscid secondary instability of the far wake. 91h:76032
 Everson, R. (with Sirovich, Lawrence; Sreenivasan, K. R.) Wavelet analysis of the turbulent jet. 91c:76061
 Gharib, M. see Williams-Stuber, K. 91h:76086
 Glowinski, Roland Supercomputing and the finite element approximation of the Navier-Stokes equations for incompressible viscous fluids. 91c:76070
 Gol'dshik, M. A. (with Shtern, V. N.) Self-similar convection near a thermal quadrupole. 91e:76104
 — (with Shtern, V. N.) Analysis of the paradox of the interaction of a vortex thread with a plane. 91e:76034
 — (with Shtern, V. N.) Collapse in conical viscous flows. 91e:76016
 Ibrahim, E. A. see Lin, Sung P. 91f:76027
 Kuijpers, W. J. J. see van Vroonhoven, J. C. W.; et al. 91h:76052
 Lin, Sung P. (with Ibrahim, E. A.) Instability of a viscous liquid jet surrounded by a viscous gas in a vertical pipe. 91e:76027
 Popov, S. P. see Zhuk, V. I. 91c:76038
 Shtern, V. N. see Gol'dshik, M. A. 91e:76034; 91e:76104 and 91f:76016
 Sipers, A. J. M. see van Vroonhoven, J. C. W.; et al. 91h:76052
 Sirovich, Lawrence see Everson, R.; et al. 91c:76061
 Sreenivasan, K. R. see Everson, R.; et al. 91c:76061
 Tanaka, Ichiro Three-dimensional ship boundary layer and wake. (see 91e:76004)
 van Vroonhoven, J. C. W. (with Sipers, A. J. M.; Kuijpers, W. J. J.) The free-boundary problem for the die-swell of a viscous fluid. 91h:76052
 Williams-Stuber, K. (with Gharib, M.) Transition from order to chaos in the wake of an airfoil. 91h:76086
 Yavorski, N. I. On an asymptotic laminar wake. (Russian) 91m:76033
 Zhuk, V. I. (with Popov, S. P.) Nonlinear development of long-wave inviscid perturbations in a boundary layer. 91c:76038

76D30 Singular perturbation problems

- Besson, Olivier (with Laydi, Mohamed; Touzani, Rachid) Un modèle asymptotique en océanographie. (English summary) [An asymptotic model in oceanography] 91d:76025
 Boyer, S. D. see Hunter, C.; et al. 91c:76039
 Fleury, Françoise Vibrations linéaires d'une suspension de particules rigides. (English summary) [Linear vibrations in a suspension of rigid particles] 91h:76046
 Hunter, C. (with Tajdari, M.; Boyer, S. D.) On Lagerstrom's model of slow incompressible viscous flow. 91c:76039
 Laydi, Mohamed see Besson, Olivier; et al. 91d:76025
 Shaw, Bruce E. Universality in selection with local perturbations in the Saffman-Taylor problem. 91d:76026
 Tajdari, M. see Hunter, C.; et al. 91c:76039
 Touzani, Rachid see Besson, Olivier; et al. 91d:76025

Items with secondary classifications in 76D30

- Allaire, Grégoire Homogenization of the Stokes flow in a connected porous medium. 91a:35134
 — Homogénéisation des équations de Stokes dans un domaine perforé de petits trous répartis périodiquement. (English summary) [Homogenization of Stokes equations in open sets perforated with periodically distributed tiny holes] 91e:76042
 — Homogenization of the Navier-Stokes equations in open sets perforated with tiny holes. I. Abstract framework, a volume distribution of holes. 91k:35031a

- Homogenization of the Navier-Stokes equations in open sets perforated with tiny holes. II. Noncritical sizes of the holes for a volume distribution and a surface distribution of holes. 91k:35031b

- Avellaneda, Marco see Lipton, Robert. 91e:76050
 Butuzov, V. F. (with Urazgildina, T. A.) Asymptotic solution of the Marangoni convection problem in a thin layer of a viscous liquid. (Russian. English summary) 91k:76146
 Castillo, J. L. (with Garcia-Ybarra, P. L.; Velarde, M. G.) Thermohydrodynamic instabilities. 91e:76028
 Conca, Carlos (with Sepulveda, Mauricio) Numerical results in the Stokes sieve problem. (Spanish. English summary) 91c:76032
 Danilov, V. G. (with Makarov, M. V.; Tsupin, V. A.) A problem of the flow of a viscous incompressible fluid around a semi-infinite flat plate. (Russian) 91c:76037
 Garcia-Ybarra, P. L. see Castillo, J. L.; et al. 91e:76028
 Howison, S. D. see Lacey, Andrew A.; et al. 91j:76027
 Lacey, Andrew A. (with Howison, S. D.; Ockendon, J. R.; Wilmott, P.) Irregular morphologies in unstable Hele-Shaw free-boundary problems. 91j:76027
 Lévy, Thérèse Écoulement dans un milieu poreux avec fissures unidirectionnelles. (English summary) [Fluid flow in a porous medium with unidirectional fissures] 91h:76100
 — Filtration in a porous fissured rock: influence of the fissures connectivity. 91m:76116
 Lipton, Robert (with Avellaneda, Marco) Darcy's law for slow viscous flow past a stationary array of bubbles. 91e:76050
 Makarov, M. V. see Danilov, V. G.; et al. 91c:76037
 Nazarov, S. A. Asymptotic solution of the Navier-Stokes problem on the flow of a thin layer of fluid. 91h:35254
 Ngwetseng, Gabriel Asymptotic analysis for a stiff variational problem arising in mechanics. 91m:73006
 Ockendon, J. R. see Lacey, Andrew A.; et al. 91j:76027
 Polivskii, Dan Homogenization of thermal flows: the influence of Grashof and Prandtl numbers. 91d:76075
 Power, Henry Matched-asymptotic analysis of low-Reynolds number flow past a cylinder of arbitrary cross-sectional shape. (Portuguese summary) 91k:76038
 — A note on the exterior second boundary value problem for the Stokes' equation. (Portuguese summary) 91k:76039
 Richardson, Stanley How not to tackle some singular perturbation problems. 91g:34025
 Rollins, David K. see Vajravelu, K. 91m:76129
 Schwartz, L. W. see Tuck, E. O. 91f:76024
 Sekerzh-Zenkovich, S. Ya. Natural oscillations of a viscous two-layered fluid in a closed vessel. 91d:76021
 Sepulveda, Mauricio see Conca, Carlos. 91c:76032
 Titor, O. V. Zones of influence and dependence for a model system of equations in the three-dimensional boundary layer theory. 91h:76045
 Tsupin, V. A. see Danilov, V. G.; et al. 91c:76037
 Tuck, E. O. (with Schwartz, L. W.) A numerical and asymptotic study of some third-order ordinary differential equations relevant to draining and coating flows. 91f:76024
 Urazgildina, T. A. see Butuzov, V. F. 91k:76146
 Vajravelu, K. (with Rollins, David K.) On solutions of some unsteady flows over a continuous, moving, porous flat surface. 91m:76129
 Van Dyke, Milton Slow variations in continuum mechanics. 91k:76136
 Velarde, M. G. see Castillo, J. L.; et al. 91e:76028
 Vernescu, Bogdan Viscoelastic behavior of a porous medium with deformable skeleton. (Romanian. English summary) 91h:76035
 Wilmott, P. see Lacey, Andrew A.; et al. 91j:76027

76D33 Waves

- Akhmerov, R. R. Travelling waves of Burgers equations and Korteweg-de Vries-Burgers equations with a sign-variable viscosity coefficient. (Russian) (Not in MR)
 Aleshkov, Yu. Z. Modeling wave motions of an inhomogeneous fluid. (Russian. English summary) 91d:76027
 — Ship hydrodynamics. (Russian) (see 91k:00010)
 Askar, Atilla see Can, Mehmet. 91f:76023
 Basmat, A. S. (with Guz', A. N.) Interaction of a nonstationary wave with a solid sphere that is located in a compressible viscous fluid. (Not in MR)
 Boulanger, Ph. (with Hayes, Michael) Inhomogeneous plane waves in viscous fluids. 91d:76028
 Can, Mehmet (with Askar, Atilla) Nonlinear elastic surface gravity waves: continuous and discontinuous solutions. 91f:76023
 Dukler, A. E. see Lacy, C. E.; et al. (Not in MR)
 Garazo, A. N. see Kurchat, S. M.; et al. 91f:76047
 Guz', A. N. see Basmat, A. S. (Not in MR)
 Hall, Philip² (with Smith, F. T.) Near-planar TS waves and longitudinal vortices in channel flow: nonlinear interaction and focussing. 91f:76016
 Hayes, Michael see Boulanger, Ph. 91d:76028
 Keller, Herbert B. see Schröder, Wolfgang². 91h:76017
 Kurchat, S. M. (with Manna, Miguel A.; Pereira, J. G.; Garazo, A. N.) Shallow viscous fluid heated from below and the Kadomtsev-Petviashvili equation. 91e:76047
 Lacy, C. E. (with Sheintuch, Moshe; Dukler, A. E.) Methods of deterministic chaos applied to the flow of thin wavy films. (Not in MR)
 Landman, Michael J. Time-dependent helical waves in rotating pipe flow. 91j:76024
 Manna, Miguel A. see Kurchat, S. M.; et al. 91e:76047
 Melkonian, S. Nonlinear waves on thin films. 91e:76048
 Miles, John W. Wave motion in a viscous fluid of variable depth. 91h:76047
 Pereira, J. G. see Kurchat, S. M.; et al. 91e:76047
 Schröder, Wolfgang² (with Keller, Herbert B.) Wavy Taylor-vortex flows via multigrid-continuation methods. 91h:76017
 Semenova, I. P. (with Yakubenko, A. E.) Evolution of isolated disturbances on the surface of a film of viscous fluid flowing down a vertical wall. (Russian) 91e:76049
 Sheintuch, Moshe see Lacy, C. E.; et al. (Not in MR)
 Smith, F. T. see Hall, Philip². 91h:76016
 Yakubenko, A. E. see Semenova, I. P. 91e:76049

Items with secondary classifications in 76D33

- Aleksaer, A. A. (with Kudryashov, N. A.) Properties of nonlinear waves in dissipative-dispersive media with instability. 91m:35196
- Aranson, I. S. (with Gorskoy, K. A.; Lomov, A. S.; Rabinovich, M. I.) Stable particle-like solutions of multidimensional nonlinear fields. 91j:58145
- Barnyak, M. Ya. Small oscillations of a viscous incompressible fluid in a container. (Russian) 91h:76048
- Bassom, Andrew P. (with Hall, Philip²) On the interaction of stationary crossflow vortices and Tollmien-Schlichting waves in the boundary layer on a rotating disc. 91h:76039
- Benjamin, T. Brooke (with Bona, J. L.; Bose, D. K.) Solitary-wave solutions of nonlinear problems. 91h:35309
- Bona, J. L. see Benjamin, T. Brooke; et al. 91h:35309
- Bose, D. K. see Benjamin, T. Brooke; et al. 91h:35309
- Cariglia, Giacomo (with Morro, Angelo) A uniqueness theorem for the scattering of harmonic waves in a fluid-solid medium. (Italian summary) 91d:73024
- Charra, François (with Fabre, Jean) Ondes longues à l'interface de deux fluides visqueux. (English summary) [Long waves at the interface of two viscous fluids] 91e:76057
- Crow, John A. see Guenther, Ronald B. (91m:35004)
- Ehrenmark, Ulf Torsten On viscous wave motion over a plane beach. 91m:76013
- Fabre, Jean see Charra, François, 91e:76057
- Fabrikant, A. L. see Stepan'yants, Yu. A., 91a:76045
- Gorskoy, K. A. see Aranson, I. S.; et al. 91j:58145
- Guan, Ke Ying Static solutions of mixed Burgers-KdV equation. II. 91k:35226
- Guenther, Ronald B. (with Crow, John A.) Damping of shallow water waves. (see 91m:35004)
- Hall, Philip² see Bassom, Andrew P., 91h:76039
- Kopachevskii, N. D. (with Krein, S. G.; Ngô Huy Can) ★ Операторные методы в линейной гидродинамике. (Russian) [Operator methods in linear hydrodynamics] 91h:76001
- Krein, S. G. see Kopachevskii, N. D.; et al. 91h:76001
- Kudryashov, N. A. see Aleksaer, A. A., 91m:35196
- Latto, Andrew (with Tenenbaum, Eric) Compactly supported wavelets and the numerical solution of Burgers' equation. (French summary) 91m:65308
- Lomov, A. S. see Aranson, I. S.; et al. 91j:58145
- Morro, Angelo see Cariglia, Giacomo, 91d:73024
- Nakoryakov, V. E. (with Pokusaev, B. G.; Shreiber, I. R.) ★ Волновая динамика газопарожидкостных сред. (Russian) [Wave dynamics of gas- and steam-liquid media] 91g:76096
- Ngô Huy Can see Kopachevskii, N. D.; et al. 91h:76001
- Okamoto, Hisashi Applications of degenerate bifurcation equations to the Taylor problem and the water wave problem. 91h:35025
- Pokusaev, B. G. see Nakoryakov, V. E.; et al. 91g:76096
- Rabinovich, M. I. see Aranson, I. S.; et al. 91j:58145
- Rosenberry, James M. (with Saffman, Philip G.) Effect of compliant boundaries on weakly nonlinear shear waves in channel flow. 91d:76033
- Saasen, Arild (with Tyvand, Peder A.) Rayleigh-Taylor instability and Rayleigh-type waves on a Maxwell-fluid. (German summary) (Not in MR)
- Saffman, Philip G. see Rosenberry, James M., 91d:76033
- Schulkes, R. M. S. M. Fluid oscillations in an open, flexible container. 91e:73097
- Sekerzh-Zenkovich, S. Ya. Natural oscillations of a viscous two-layered fluid in a closed vessel. 91d:76021
- Shreiber, I. R. see Nakoryakov, V. E.; et al. 91g:76096
- Simakov, S. T. see Sveshnikov, A. G., 91k:35209
- Smith, F. T. (with Walton, A. G.) Nonlinear interaction of near-planar TS waves and longitudinal vortices in boundary-layer transition. 91e:76057
- Stepan'yants, Yu. A. (with Fabrikant, A. L.) Propagation of waves in hydrodynamic shear flows. 91a:76045
- Sveshnikov, A. G. (with Simakov, S. T.) Fundamental solutions and Green formulas for families of equations that arise in the theory of oscillations of a stratified viscous fluid. (Russian) 91k:35209
- Sylvester, Donna Lynn Gates Large time existence of small viscous surface waves without surface tension. 91f:35216
- Tenenbaum, Eric see Latto, Andrew, 91m:65308
- Trubacher, A. V. Stability of oscillations of a viscous liquid in a moving vessel. 91e:76062
- Tyvand, Peder A. see Saasen, Arild, (Not in MR)
- Volyak, K. I. Counter waves in an ocean. (Russian. English summary) 91h:76015
- Walton, A. G. see Smith, F. T., 91e:76057
- Zakhar'yevskaya, V. F. Existence of a solution of solitary wave type in a strip. 91k:35210

76D45 Capillarity [see also 76B45]

- Antanovskii, L. K. A model problem on the filling of a plane capillary by a viscous fluid. (Russian) 91k:76043
- Floryan, J. M. Thermocapillary effects in liquid bridges. (see 91g:00044)
- Haley, Patrick J. (with Miksis, Michael J.) The effect of the contact line on droplet spreading. 91h:76044
- Kapobosynov, B. K. Steady-state thermocapillary motion in a fine axisymmetric drop on a plane. (Russian) 91j:76025
- Miksis, Michael J. see Haley, Patrick J., 91h:76044
- Schwartz, L. W. see Tuck, E. O., 91h:76045
- Tuck, E. O. (with Schwartz, L. W.) Thin static drops with a free attachment boundary. 91h:76045

Items with secondary classifications in 76D45

- Affouf, Mahmoud (with Caffisch, Russel E.) A numerical study of Riemann problem solutions and stability for a system of viscous conservation laws of mixed type. 91m:76039
- Antanovskii, L. K. Stability of the equilibrium of a fluid layer under the action of thermocapillary forces in a quasistationary approximation. 91h:76035
- Bazhilev, I. B. (with Shopov, Petr I.) Mathematical and numerical modelling of hydrodynamic problems with dynamic contact lines. 91h:76046
- Caffisch, Russel E. see Affouf, Mahmoud, 91m:76039

- Čiegis, Raimondas (with Čiupaila, Regimantas J.) Some aspects of the solution of stationary problems of fluid-metal contact. (Russian. English and Lithuanian summaries) 91j:76073
- Čiupaila, Regimantas J. see Čiegis, Raimondas, 91j:76073
- Cuvellier, C. (with Schulkes, R. M. S. M.) Some numerical methods for the computation of capillary free boundaries governed by the Navier-Stokes equations. 91m:76082
- de Gennes, P.-G. (with Hua, X.; Levinson, P.) Dynamics of wetting: local contact angles. 91a:76029
- Hopper, Robert W. Plane Stokes flow driven by capillarity on a free surface. 91e:76033
- Hua, X. see de Gennes, P.-G.; et al. 91a:76029
- Hwang, T.-W. (with Wang, Ch'ing An) Existence and classification of solutions for a problem of surface-tension driven flows in a slot with an insulated bottom. 91d:76020
- Ibrahim, E. A. see Lin, Sung P., 91f:76027
- Joseph, Daniel D. Fluid dynamics of two miscible liquids with diffusion and gradient stresses. 91j:76026
- Lagunova, M. V. On the solvability of a three-dimensional problem of thermocapillary convection. (Russian) 91f:35211
- Levinson, P. see de Gennes, P.-G.; et al. 91a:76029
- Lin, Sung P. (with Ibrahim, E. A.) Instability of a viscous liquid jet surrounded by a viscous gas in a vertical pipe. 91f:76027
- Milner, S. T. Square patterns and secondary instabilities in driven capillary waves. 91m:76021
- Nepomnyashchii, A. A. (with Simanovskii, I. B.) Long-wave thermocapillary convection in layers with a deformable interface. (Russian) 91h:76019
- Pirazarova, T. E. Numerical modeling of two-phase filtration of immiscible fluids taking capillary forces into account. (Russian) 91e:76107
- Schulkes, R. M. S. M. see Cuvellier, C., 91m:76082
- Schwartz, L. W. see Tuck, E. O., 91h:76045
- Shopov, Petr I. see Bazhilev, I. B., 91h:76046
- Simanovskii, I. B. see Nepomnyashchii, A. A., 91h:76019
- Trubacher, A. V. Localization of the spectrum of oscillations of a viscous capillary fluid. 91m:35193
- Tuck, E. O. (with Schwartz, L. W.) A numerical and asymptotic study of some third-order ordinary differential equations relevant to draining and coating flows. 91f:76024
- Wang, Ch'ing An see Hwang, T.-W., 91d:76020

76D99 None of the above, but in this section

- Affouf, Mahmoud (with Caffisch, Russel E.) A numerical study of Riemann problem solutions and stability for a system of viscous conservation laws of mixed type. 91m:76039
- Arunagan, G. (with Pironneau, Olivier) The problem of "riblets". (Russian) 91g:76028
- Aveland, Marco see Lipton, Robert, 91e:76050
- Barnyak, M. Ya. Small oscillations of a viscous incompressible fluid in a container. (Russian) 91h:76048
- Banks, M. M. The method of artificial viscosity for calculating one-dimensional flows. (Russian) 91d:76029
- Bazhilev, I. B. (with Shopov, Petr I.) Mathematical and numerical modelling of hydrodynamic problems with dynamic contact lines. 91h:76046
- Boudourides, Moses A. Adiabatic circular Couette flow with temperature-dependent viscosity. 91g:76029
- Caffisch, Russel E. see Affouf, Mahmoud, 91m:76039
- Cantwell, B. J. see Chong, M. S.; et al., (91i:76005)
- Childress, S. (with Landman, Michael J.; Strauss, H.) Steady motion with helical symmetry at large Reynolds number. (see 91i:76005)
- Chong, M. S. (with Perry, A. E.; Cantwell, B. J.) A general classification of three-dimensional flow fields. (see 91i:76005)
- Davis, Anthony M. J. Shear flow disturbance due to a hole in the plane. 91h:76047
- Felderhof, B. Ubbo Linear response theory of the motion of a spherical particle in an incompressible fluid. 91d:76030
- Fitt, A. D. see O'Malley, K.; et al., 91h:76049
- Fortis, Michel (with Souissi, Ali) Une nouvelle approche pour l'optimisation de formes en hydrodynamique. [A new approach to optimal shape design in hydrodynamics] 91g:76030
- de Gennes, P.-G. (with Hua, X.; Levinson, P.) Dynamics of wetting: local contact angles. 91a:76029
- Gorbunov, A. A. (with Ivlev, D. D.) On the flow of an ideally viscous medium. (Russian) (see 91h:00025)
- Gratton, Jelle (with Minotti, Fernando) Self-similar viscous gravity currents: phase-plane formalism. 91h:76049
- Grebow, Celso see Yu, Lei; et al., 91f:76025
- Hocking, L. M. Spreading and instability of a viscous fluid sheet. 91a:76030
- Howison, S. D. see Lacey, Andrew A.; et al., 91f:76027
- Hua, X. see de Gennes, P.-G.; et al., 91a:76029
- Ivlev, D. D. see Gorbunov, A. A., (91h:00025)
- Jones, T. V. see O'Malley, K.; et al., 91h:76049
- Joseph, Daniel D. Fluid dynamics of two miscible liquids with diffusion and gradient stresses. 91j:76026
- Kireev, A. S. On a finite-dimensional approach to the determination of the hydrodynamic moment in a floating suspension of complex geometry. (Russian) 91a:76031
- Koch, Donald L. (with Shaqfeh, Eric S. G.) Screening in sedimenting suspensions. 91m:76040
- Kozlov, Valerii V. On a problem of a heavy rigid body falling in a resisting medium. (Russian) 91m:76041
- Kremer, G. M. see Lin, I.-Shih, 91h:76048
- Kulpers, W. J. J. see van Veenhoven, J. C. W.; et al., 91h:76052 and 91c:76041
- Lacey, Andrew A. (with Howison, S. D.; Ockendon, J. R.; Wilmott, P.) Irregular morphologies in unstable Hele-Shaw free-boundary problems. 91j:76027
- Landman, Michael J. see Childress, S.; et al., (91i:76005)
- Levinson, P. see de Gennes, P.-G.; et al., 91a:76029

- Lipton, Robert (with Avellaneda, Marco) Darcy's law for slow viscous flow past a stationary array of bubbles. 91c:76050
- Liu, Chao Qun (with McCormick, Stephen F.) Multigrid, the rotated hybrid scheme and the fast adaptive composite grid method for planar cavity flow. (see 91g:00046)
- Liu, I-Shih (with Kremer, G. M.) Hyperbolic system of field equations for viscous fluids. (Portuguese summary) 91k:76048
- McCormick, Stephen F. see Liu, Chao Qun, (91g:00046)
- Minotti, Fernando see Gratton, Julio, 91b:76049
- Ockendon, J. R. see Lacey, Andrew A.; et al., 91j:76027 and O'Malley, K.; et al., 91k:76049
- O'Malley, K. (with Fitt, A. D.; Jones, T. V.; Ockendon, J. R.; Wilmott, P.) Models for high-Reynolds-number flow down a step. 91k:76049
- Ott, Edward see Yu, Lei; et al., 91f:76025
- Ottino, J. M. see Swanson, P. D., 91b:76051
- Peregrine, D. H. (with Shoker, G.; Symon, A.) The bifurcation of liquid bridges. 91b:76050
- Perry, A. E. see Chong, M. S.; et al., (91i:76005)
- Piromean, Olivier see Arumugam, G., 91g:76028
- Povshchenko, G. P. A mathematical model of the plane flow of a fluid between rotating boundaries. (Russian) 91f:76028
- Pozrikidis, C. The deformation of a liquid drop moving normal to a plane wall. 91f:76031
- Renardy, Michael Corner singularities between free surfaces and open boundaries. 91k:76050
- Saffman, Philip G. Bubbles and fingers in Hele-Shaw cells. (see 91c:00028)
- Selection mechanisms and stability of bubbles and fingers in Hele-Shaw cells. (see 91j:00015)
- A model of vortex reconnection. 91a:76032
- Schwartz, L. W. see Tuck, E. O., 91f:76024
- Shaqfeh, Eric S. G. see Koch, Donald L., 91m:76040
- Shoker, G. see Peregrine, D. H.; et al., 91b:76050
- Shopez, Petr I. see Bazhlekav, I. B., 91k:76046
- Sipers, A. J. M. see van Vroonhoven, J. C. W.; et al., 91b:76052
- Sikha, Yu. N. ★ Об однозначной разрешимости уравнения баротропного вихря вязкой жидкости в классах обобщенных функций на сфере. (Russian) [Unique solvability of the equation of a barotropic vortex of viscous fluid in classes of generalized functions on a sphere] 91b:76031
- Smith, Ronald Two-dimensional shear dispersion for skewed flows in narrow gaps between moving surfaces. 91c:76040
- Soulas, Ali see Fortin, Michel, 91g:76030
- Strauss, H. see Childress, S.; et al., (91f:76005)
- Swanson, P. D. (with Ottino, J. M.) A comparative computational and experimental study of chaotic mixing of viscous fluids. 91b:76050
- Symon, A. see Peregrine, D. H.; et al., 91b:76050
- Tuck, E. O. (with Schwartz, L. W.) A numerical and asymptotic study of some third-order ordinary differential equations relevant to draining and coating flows. 91f:76024
- van Vroonhoven, J. C. W. (with Sipers, A. J. M.; Kuipers, W. J. J.) The free-boundary problem for the die-swell of a viscous fluid. 91b:76052
- (with Kuipers, W. J. J.) A free-boundary problem for viscous fluid flow in injection moulding. 91c:76041
- Wilmott, P. see Lacey, Andrew A.; et al., 91j:76027 and O'Malley, K.; et al., 91k:76049
- Yu, Lei (with Grebogi, Celso; Ott, Edward) Fractal structure in physical space in the dispersal of particles in fluids. 91f:76025
- Yusupov, I. Ya. Some estimates in an initial-boundary value problem for an incompressible viscous fluid. (Russian) (see 91b:00025)
- Items with secondary classifications in 76D99
- Abdullah, A. A. (with Lindsay, K. A.) Benard convection in a nonlinear magnetic fluid under the influence of a nonvertical magnetic field. 91m:76045
- Acrivos, A. (with Jeffrey, D. J.; Saville, D. A.) Particle migration in suspensions by thermocapillary or electrophoretic motion. 91b:76102
- see also Nir, A., 91a:76083
- Anjević, Andre see Skerget, Polje; et al., 91f:76030
- Álvarez León, Luis (with Díaz Díaz, Jesús Ildefonso) Sufficient and necessary initial mass conditions for the existence of a waiting time in nonlinear-convection processes. 91m:35113
- Aref, Hassan (with Jones, S. W.; Moffa, S.; Zawadzki, I.) Vortices, kinematics and chaos. 91f:76009
- Arnold, Gary S. see Drew, Donald A.; et al., 91f:76054
- Avakyan, V. A. (with Smirnov, L. P.) Generalizations of Faxen's formula for different forms of boundary conditions. 91e:76043
- Brebbia, C. A. see Skerget, Polje; et al., 91f:76030
- Brener, E. A. (with Levine, Herbert; Tu, Yuhai) Nonsymmetric Saffman-Taylor fingers. 91k:76073
- Brezzi, Franco (with Falk, Richard S.) Stability of higher-order Hood-Taylor methods. 91m:65272
- Bustos, María Cristina (with Concha, Fernando; Wendland, Wolfgang L.) Global weak solutions to the problem of continuous sedimentation of an ideal suspension. 91j:35168
- Buzhinskii, V. A. Vortex resistance of a plate under vibrations in a low-viscosity fluid. 91d:73050
- Chan Tkhua Kha A nonselfadjoint operator pencil. (Russian) 91c:47026
- Chernous'ko, F. L. see Pivovarov, M. L., 91e:70023
- Concha, Fernando see Bustos, María Cristina; et al., 91j:35168
- Cotsiolis, Athanasios (with Oskolkov, A. P.; Shadiev, R. D.) ★ Глобальные априорные оценки на полуоси $t \geq 0$, асимптотическая устойчивость и периодичность по времени "малых" решений уравнений движения жидкостей Олдройта и жидкостей Кельвина-Фойгта. (Russian) [Global a priori estimates on the half-line $t \geq 0$, asymptotic stability and time periodicity of "small" solutions of equations for the motion of Oldroyd fluids and Kelvin-Voigt fluids] 91j:76003
- Debnath, Lokenath see Ghosh, A. K.; et al., 91f:76094
- Díaz Díaz, Jesús Ildefonso see Álvarez León, Luis, 91m:35113
- Drew, Donald A. (with Arnold, Gary S.; Lahey, Richard T., Jr.) Relation of microstructure to constitutive equations. 91f:76054
- Dzhalkbaev, A. M. (with Smagulov, Sh. S.) ε -approximation of a model for an inhomogeneous fluid. (Russian) 91e:76086
- Eden, Alp (with Michaux, B.; Rakotoson, Jean-Michel) Doubly nonlinear parabolic-type equations as dynamical systems. 91m:35118
- Falk, Richard S. see Brezzi, Franco, 91m:65272
- Felderhof, B. Ubbo Dynamics of hard sphere suspensions. 91f:76067
- Fraenkel, L. E. On a linear, partly hyperbolic model of viscoelastic flow past a plate. 91c:76002
- Fredrickson, Glenn H. see Shaqfeh, Eric S. G., 91b:82061
- Gastaldi, Fabio (with Quarteroni, Alfio; Sacchi Landriani, Giovanni) Coupling of two-dimensional hyperbolic and elliptic equations. 91g:65257
- Ghosh, A. K. (with Khan, A. R.; Debnath, Lokenath) On a pulsatile flow of a two-phase viscous fluid in a tube of elliptic cross-section. 91g:76094
- Gofdahtik, M. A. Viscous-flow paradoxes. 91b:76037
- Greengard, Leslie Potential flow in channels. 91e:76083
- van Groesen, E. A deterministic approach towards self-organization in continuous media. 91b:76030
- Gürlebeck, Klaus (with Sprössig, Wolfgang) ★ Quaternionic analysis and elliptic boundary value problems. 91k:35002a
- (with Sprössig, Wolfgang) ★ Quaternionic analysis and elliptic boundary value problems. 91k:35002b
- Gustafsson, Björn (with Mossino, J.) Some isoperimetric inequalities in electrochemistry and Hele-Shaw flows. (see 91g:00044)
- Gustavsson, L. Håkan (with Shanthini, Rajaratnam) Degeneracies and direct resonances in water-table flow. 91c:76044
- Horváth, Viktor K. (with Vicsek, Tamás) Stochastic spatial behaviour in deterministic pattern formation. 91a:58172
- Huitfeldt, Jacques (with Rube, Axel) A new algorithm for numerical path following applied to an example from hydrodynamical flow. 91j:65095
- Iskenderov, D. Sh. (with Nikolaevskii, V. N.) A mathematical model of tornado-like motions with internal vortices. (Russian) 91m:86005
- Jacobs, S. J. On the equations of mathematical hydraulics. 91b:76048
- Jeffrey, D. J. see Acrivos, A.; et al., 91b:76102
- Jones, S. W. see Aref, Hassan; et al., 91f:76009
- Khan, A. R. see Ghosh, A. K.; et al., 91g:76094
- Kluge, R. Zur Regularisierung des Systems, bestehend aus den Reynolds-Gleichungen und dem k - ε -Modell der Turbulenz. (English and Russian summaries) [On the regularization of the system, consisting of the Reynolds equations and the k - ε -model of turbulence] 91f:76036
- Koch, Donald L. see Shaqfeh, Eric S. G., 91f:76015
- Kuhn, Günther see Skerget, Polje; et al., 91f:76030
- Lahey, Richard T., Jr. see Drew, Donald A.; et al., 91f:76054
- Leal, L. Gary see Sazzi, Andrew J., 91m:76108
- Levine, Herbert see Brener, E. A.; et al., 91k:76073
- Libin, A. (with Sivashinsky, Gregory I.) Long wavelength instability of the ABC-flows. 91b:76075
- Lindsay, K. A. see Abdullah, A. A., 91m:76045
- Lobéac, Jean-Pierre An artificial boundary condition for an advection-diffusion equation. 91m:35104
- Lukasiewicz, Grzegorz On nonstationary flows of incompressible asymmetric fluids. 91j:35223
- Matthaeus, W. H. see Zank, G. P., 91j:76050
- Michaux, B. see Eden, Alp; et al., 91m:35118
- Miksis, Michael J. see Ting, Lu, 91f:76077
- Moffa, S. see Aref, Hassan; et al., 91f:76009
- Mossino, J. see Gustafsson, Björn, (91g:00044)
- Nagata, Wayne Symmetry-breaking effects of distant sidewalls in Rayleigh-Bénard convection. (see 91f:35003)
- Nikolaevskii, V. N. see Iskenderov, D. Sh., 91m:86005
- Nir, A. (with Acrivos, A.) Sedimentation and sediment flow on inclined surfaces. 91a:76083
- Oskolkov, A. P. see Cotsiolis, Athanasios; et al., 91j:76003
- Padula, Mariarosaria On the existence and uniqueness of nonhomogeneous motions in exterior domains. 91d:35175
- Pivovarov, M. L. (with Chernous'ko, F. L.) Oscillations of a rigid body with a toroidal cavity filled with a viscous fluid. 91e:70023
- Pozrikidis, C. The instability of a moving viscous drop. 91a:76044
- Quarteroni, Alfio see Gastaldi, Fabio; et al., 91g:65257
- Rakotoson, Jean-Michel see Eden, Alp; et al., 91m:35118
- Rothmayer, A. P. The viscous flow through symmetric collapsible channels. 91e:73096
- Rozanova, O. S. Formation of the singularities of solutions of a model system of equations in meteorology. (Not in MR)
- Rube, Axel see Huitfeldt, Jacques, 91j:65095
- Rumyantsev, V. V. see Vladimirov, V. A., 91e:70061
- Sacchi Landriani, Giovanni see Gastaldi, Fabio; et al., 91g:65257
- Saville, D. A. see Acrivos, A.; et al., 91b:76102
- Sazonov, V. V. see Sidorenko, V. V., 91j:70008
- Shadiev, R. D. see Cotsiolis, Athanasios; et al., 91j:76003
- Shanthini, Rajaratnam see Gustavsson, L. Håkan, 91c:76044
- Shaqfeh, Eric S. G. (with Fredrickson, Glenn H.) The hydrodynamic stress in a suspension of rods. 91b:82061
- (with Koch, Donald L.) Orientational dispersion of fibers in extensional flows. 91e:76015
- Shavaleev, M. Sh. Laws of change in the moments of the vorticity distribution under the influence of viscosity, external velocity field and the presence of solid boundaries. (Russian) 91g:76018
- Shelley, M. J. A case of singularity formation in vortex sheet motion studied by a spectrally accurate method. 91m:76055
- Sidorenko, V. V. (with Sazonov, V. V.) Perturbed motions of a rigid body that are close to regular precessions in the Lagrangian case. (Russian) 91j:70008
- Sivashinsky, Gregory I. see Libin, A., 91b:76075

- Skerget, Polje (with Alujević, Andro; Zagar, I.; Brebbia, C. A.; Kuhn, Günther) Time dependent three-dimensional laminar isochoric viscous fluid flow by the boundary element method. 91k:76038
- Smagulov, Sh. S. see Dzhalilov, A. M., 91k:76086
- Smirnov, L. P. see Arakyan, V. A., 91k:76043
- Sprössig, Wolfgang see Griebbeck, Klaus, 91k:35002a and 91k:35002b
- Stuart, J. T. (with Tabor, Michael) The Lagrangian picture of fluid motion. 91k:76008
- Styczek, A. (with Zabusky, N. J.) The evolution of a plane, viscous vortex field. (Russian and Polish summaries) 91k:76135
- Saeri, Andrew J. (with Leal, L. Gary) The onset of chaotic oscillations and rapid growth of a spherical bubble at subcritical conditions in an incompressible liquid. 91m:76108
- Tabor, Michael see Stuart, J. T., 91k:76008
- Ting, Lu (with Miksis, Michael J.) On vortical flow and sound generation. 91a:76077
- Tsvetodub, O. Yu. A set of stationary solutions of an evolution equation for perturbations in active-dissipative media. 91a:58137
- An evolution equation on perturbations in a two-layer film flow. (Not in MR)
- Tu, Yuhai see Brenner, E. A.; et al., 91k:76073
- Vicsek, Tamás see Horváth, Viktor K., 91a:58172
- Vladimirov, V. A. (with Rumyantsev, V. V.) On the inversion of the Lagrange theorem for a rigid body with a cavity containing a viscous fluid. 91c:70061
- Wendland, Wolfgang L. see Bustos, María Cristina; et al., 91j:35168
- Wendroff, Burton The stability of McCormack's method for the scalar advection equation. (Not in MR)
- Zabusky, N. J. see Styczek, A., 91k:76135
- Zagar, I. see Skerget, Polje; et al., 91k:76038
- Zank, G. P. (with Matthaeus, W. H.) The equations of nearly incompressible fluids. I. Hydrodynamics, turbulence, and waves. 91j:76050
- Zawadzki, I. see Aref, Hassan; et al., 91k:76009

76Exx Hydrodynamic stability

Items listed otherwise than by author

Instability of flows and the structure of turbulence ★ Nagare no fuanseisei to ranryū no kōzo. (Japanese) [Instability of flows and the structure of turbulence] 91f:76026

Symposium:

Instability of Flows and the Structure of Turbulence ★ Nagare no fuanseisei to ranryū no kōzo. (Japanese) [Instability of flows and the structure of turbulence] 91f:76026

Items with secondary classifications in 76Exx

- Berk, H. L. see Doxas, I.; et al., 91f:76050
- (Cvitanović, Predrag) see Universality in chaos, 91e:58124
- Doxas, I. (with Horton, Claude Wendell, Jr.; Berk, H. L.) Stochastic diffusion in two-dimensional periodic flows. 91f:76050
- Horton, Claude Wendell, Jr. see Doxas, I.; et al., 91f:76050
- (Hussaini, M. Y.) see Instability and transition, 91h:76002 and 91h:76003
- (Voigt, Robert G.) see Instability and transition, 91h:76002 and 91h:76003

Items listed otherwise than by author

- Hampton, VA ★ Instability and transition. Vol. I. 91h:76002
- ★ Instability and transition. Vol. II. 91h:76003
- Instability and transition ★ Instability and transition. Vol. I. 91h:76002
- ★ Instability and transition. Vol. II. 91h:76003
- Universality in chaos ★ Universality in chaos. 91e:58124

Workshop:

- Instability and Transition ★ Instability and transition. Vol. I. 91h:76002
- ★ Instability and transition. Vol. II. 91h:76003

76E05 Stability of parallel flows

- Ashpis, David E. (with Reshotko, Eli) The vibrating ribbon problem revisited. 91k:76018
- Banks, W. H. H. see Watson, E. B. B.; et al., 91k:76035
- Barenblatt, G. I. Instability and turbulence. 91c:76042
- Barkley, Dwight Theory and predictions for finite-amplitude waves in two-dimensional plane Poiseuille flow. 91m:76042
- Borgas, M. S. (with Pedley, T. J.) Nonuniqueness and bifurcation in annular and planar channel flows. 91c:76043
- Brown, S. N. see Smith, F. T., 91g:76032
- Busse, F. H. see Kropp, M., (91m:58001)
- Chow, Kwok W. Inviscid secondary instability of the far wake. 91h:76032
- Criminale, W. O. (with Drazin, P. G.) The evolution of linearized perturbations of parallel flows. 91c:76051
- Djordjević, V. D. (with Redekopp, L. G.) The effect of profile symmetry on the nonlinear stability of mixing layers. 91k:76051
- Drazin, P. G. see Watson, E. B. B.; et al., 91k:76035 and Criminale, W. O., 91c:76051
- Duck, Peter W. (with Hall, Philip²) Nonaxisymmetric viscous lower-branch modes in axisymmetric supersonic flows. 91a:76033
- Georgescu, Adeline Stability of liquid flow on an inclined plane. (Romanian) (Not in MR)
- Grosch, C. E. see Jackson, T. L., 91g:76031
- Gustavsson, L. Håkan (with Shanthini, Rajaratnam) Degeneracies and direct resonances in water-table flow. 91c:76044
- Hall, Philip² see Duck, Peter W., 91a:76033
- Hussaini, M. Y. see Malik, M. R., 91a:76035
- Jackson, T. L. (with Grosch, C. E.) Inviscid spatial stability of a compressible mixing layer. II. The flame sheet model. 91g:76031
- Kozlov, Viktor Vladimirovich (with Ryzhov, O. S.) Receptivity of boundary layers: asymptotic theory and experiment. 91d:76032
- Kropp, M. (with Busse, F. H.) Multiple bifurcation of free-convection flow between vertical parallel plates. (see 91m:58001)

Kudryavtsev, A. N. (with Solov'ev, A. S.) Stability of a shear layer of compressible gas. 91j:76029

Landman, Michael J. On the generation of helical waves in circular pipe flow. 91a:76034

Malik, M. R. (with Hussaini, M. Y.) Numerical simulation of interactions between Görtler vortices and Tollmien-Schlichting waves. 91a:76035

Mironov, M. A. (with Sazonov, I. A.) On discrete spectrum waves in shear flows with a profile having a curvature of constant sign. 91a:76036

Pedley, T. J. see Borgas, M. S., 91c:76043

Peltier, W. R. see Smyth, W. D., 91g:76033

Preziosi, Luigi (with Rosso, F.) Stability of a viscous liquid between sliding pipes. 91b:76053

Redekopp, L. G. see Djordjević, V. D., 91k:76051

Reid, W. H. On the asymptotic theory of the Orr-Sommerfeld problem. 91c:76045

Reshotko, Eli see Ashpis, David E., 91k:76018

Rosso, F. see Preziosi, Luigi, 91b:76053

Rotenberg, James M. (with Saffman, Philip G.) Effect of compliant boundaries on weakly nonlinear shear waves in channel flow. 91d:76033

Ryzhov, O. S. see Kozlov, Viktor Vladimirovich, 91d:76032

Saffman, Philip G. see Rotenberg, James M., 91d:76033

Sazonov, I. A. Interaction of continuous-spectrum waves with each other and with discrete-spectrum waves. 91a:76037

— see also Mironov, M. A., 91a:76036

Shanthini, Rajaratnam On the nonlinear development of small three-dimensional perturbations in plane Poiseuille flow: single-mode approach. 91k:76052

— see also Gustavsson, L. Håkan, 91c:76044

Smith, F. T. (with Brown, S. N.) The inviscid instability of a Blasius boundary layer at large values of the Mach number. 91g:76032

Smorodskii, B. V. see Zel'man, M. B., 91k:76053

Smyth, W. D. (with Peltier, W. R.) Three-dimensional primary instabilities of a stratified, dissipative, parallel flow. 91g:76033

Solopenko, V. M. A theorem on the stability of the plane Couette flow. 91b:76054

Solov'ev, A. S. see Kudryavtsev, A. N., 91j:76029

Takahashi, Hiroyuki see Watanabe, Jiro, 91c:76052

Watanabe, Jiro (with Takahashi, Hiroyuki) On an approximation of the eigenvalue problem for axisymmetric disturbances. 91c:76052

Watson, E. B. B. (with Banks, W. H. H.; Zaturka, M. B.; Drazin, P. G.) On transition to chaos in two-dimensional channel flow symmetrically driven by accelerating walls. 91a:76038

Zaturka, M. B. see Watson, E. B. B.; et al., 91a:76038

Zel'man, M. B. (with Smorodskii, B. V.) Packets of wave perturbations in a Blasius flow. 91k:76053

Zhou, Zhe Wei On the stability of distorted laminar flow. I. Basic ideas and theory. 91c:76053

Items with secondary classifications in 76E05

- Ache, Gerardo A. Computation of the eigenvalues for perturbations of Poiseuille flow using a two-point boundary value method. 91g:76019
- Banks, W. H. H. see Zaturka, M. B., 91k:76035 and Taylor, C. L.; et al., 91k:76036
- Barenblatt, G. I. On a model of laminar-turbulent transition. 91a:76046
- Borovikov, V. A. Critical layer formation in a stratified medium with mean shear flows. 91c:76049
- Boustayeb, A. see Twizell, E. H., 91m:65209
- Brown, S. N. (with Cheng, H. K.; Lee, C. J.) Inviscid-viscous interaction on triple-deck scales in a hypersonic flow with strong wall cooling. 91h:76055
- Carnevale, George F. (with Shepherd, Theodore G.) On the interpretation of Andrews' theorem. 91d:76049
- Charu, François (with Fabre, Jean) Ondes longues à l'interface de deux fluides visqueux. (English summary) [Long waves at the interface of two viscous fluids] 91c:76057
- Cheng, H. K. see Brown, S. N.; et al., 91h:76055
- Chern, Shah Jye (with Marsden, Jerrold E.) A note on symmetry and stability for fluid flows. 91d:76013
- Cowley, Stephen J. (with Hall, Philip²) On the instability of hypersonic flow past a wedge. 91c:76071
- Drazin, P. G. see Taylor, C. L.; et al., 91k:76036
- Duck, Peter W. The inviscid axisymmetric stability of the supersonic flow along a circular cylinder. 91c:76066
- The response of a laminar boundary layer in supersonic flow to small-amplitude progressive waves. 91g:76058
- Unsteady three-dimensional marginal separation, including breakdown. 91k:76015
- Fabre, Jean see Charu, François, 91c:76057
- Fischer, Thomas Manfred A Galerkin approximation for linear eigenvalue problems in two- and three-dimensional boundary-layer flows. 91m:76083
- Gailloché, C. (with Saut, Jean-Claude) Global existence and one-dimensional nonlinear stability of shearing motions of viscoelastic fluids of Oldroyd type. (French summary) 91c:76003
- Hall, Philip² (with Smith, F. T.) Near-planar TS waves and longitudinal vortices in channel flow: nonlinear interaction and focussing. 91k:76016
- Görtler vortices in growing boundary layers: the leading edge receptivity problem, linear growth and the nonlinear breakdown stage. 91m:76044
- see also Cowley, Stephen J., 91c:76071
- Ha, Lee-Wing (with Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. 91g:76065
- Hsieh, D. Y. Mechanism for instability of fluid flow down an inclined plane. 91h:76034
- Ichinose, Kenichi see Tokanaga, Hiroshi¹; et al., (Not in MR)
- Klein, P. P. Eigenwertenschiebung bei nichtselbstadjungierten Eigenwertaufgaben. [On the inclusion of eigenvalues in nonselfadjoint eigenvalue problems] 91k:47040
- Landman, Michael J. Time-dependent helical waves in rotating pipe flow. 91j:76024
- Lee, C. J. see Brown, S. N.; et al., 91h:76055
- Liu, J. T. C. Contributions to the understanding of large-scale coherent structures in developing free turbulent shear flows. 91g:76049

- Macháček, Martin. An orthonormal basis of solenoidal vector functions vanishing on a cylinder. 91f:35218
- Makov, Yu. N. Analogy between shear flow stratification and compressibility effects in hydrodynamic stability theory. 91k:76076
- Marsden, Jerrold E. *see* Chern, Shih Jye, 91d:76013
- Meyer, Friedrich. Numerische Simulation der Transition in dreidimensionalen Grenzschichten. (German) [Numerical simulation of transition in three-dimensional boundary layers] 91c:76091
- Nagata, Masato. Three-dimensional finite-amplitude solutions in plane Couette flow: bifurcation from infinity. 91d:76035
- Patera, Anthony T. *see* Ho, Lee-Wing, 91g:76065
- Sato, Nobuyuki. *see* Tokumaga, Hiroshi¹; et al., (Not in MR)
- Saut, Jean-Claude. *see* Gullipé, C., 91c:76003
- Shepherd, Theodore G. *see* Carnevale, George F., 91c:76049
- Smith, F. T. (with Walton, A. G.). Nonlinear interaction of near-planar TS waves and longitudinal vortices in boundary-layer transition. 91c:76057
- *see also* Hall, Philip², 91f:76016
- Taylor, C. L. (with Banks, W. H. H.; Zaturka, M. B.; Drazin, P. G.). Three-dimensional flow in a porous channel. 91k:76036
- Tokumaga, Hiroshi¹ (with Ichinose, Kenichi; Sato, Nobuyuki). Numerical simulation of instability on plane Poiseuille flow using eighth order accurate method of lines. (Not in MR)
- Twizell, E. H. (with Boutayeb, A.). Numerical methods for the solution of special and general sixth-order boundary value problems, with applications to Bénard layer eigenvalue problems. 91m:65209
- Walton, A. G. *see* Smith, F. T., 91c:76057
- Zaturka, M. B. (with Banks, W. H. H.). Suction-driven flow in a finite wedge. 91k:76035
- *see also* Taylor, C. L.; et al., 91k:76036

76E10 Inertial instability

- Chow, Kwok W. A note on inviscid secondary instability in shear flows. 91h:76033
- Dritschel, David G. The stability of elliptical vortices in an external straining flow. 91h:76055
- Generalized helical Beltrami flows in hydrodynamics and magnetohydrodynamics. 91m:76043
- Edwards, W. Stuart. Linear spirals in the finite Couette-Taylor problem. (see 91h:76003)
- Glimm, James (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang). The growth and interaction of bubbles in Rayleigh-Taylor unstable interfaces. 91k:76054
- Grove, John W. (with Menikoff, Ralph; Zhang, Qiang). Unstable interfaces and anomalous waves in compressible fluids. 91d:76034
- Hall, Philip². Görtler vortices in growing boundary layers: the leading edge receptivity problem, linear growth and the nonlinear breakdown stage. 91m:76044
- He, Hong Xing. *see* Liang, Jian Hua, (91b:00048)
- Hsieh, D. Y. Mechanism for instability of fluid flow down an inclined plane. 91h:76034
- Ibrahim, E. A. *see* Lin, Sung P., 91f:76027
- Li, Guo Wei. *see* Li, Kai Tai; et al., 91c:76046
- Li, Kai Tai (with Liu, Zhi Xing; Li, Guo Wei). Finite element-arc length continuation simulations for spherical Couette-Taylor flow. 91c:76046
- Li, Xiao Lin. *see* Glimm, James; et al., 91k:76054
- Liang, Jian Hua (with He, Hong Xing). Rietz approximation of interface problem for two fluids between two concentric rotating cylinders. (see 91b:00048)
- Lin, Sung P. (with Ibrahim, E. A.). Instability of a viscous liquid jet surrounded by a viscous gas in a vertical pipe. 91f:76027
- Liu, Zhi Xing. *see* Li, Kai Tai; et al., 91c:76046
- Menikoff, Ralph. *see* Grove, John W.; et al., 91d:76034 and Glimm, James; et al., 91k:76054
- Nagata, Masato. Three-dimensional finite-amplitude solutions in plane Couette flow: bifurcation from infinity. 91d:76035
- Saasen, Arild (with Tyvand, Peder A.). Rayleigh-Taylor instability and Rayleigh-type waves on a Maxwell-fluid. (German summary) (Not in MR)
- Sharp, David H. *see* Glimm, James; et al., 91k:76054
- Tyvand, Peder A. *see* Saasen, Arild, (Not in MR)
- Zhang, Qiang. *see* Grove, John W.; et al., 91d:76034 and Glimm, James; et al., 91k:76054

Items with secondary classifications in 76E10

- Bassom, Andrew P. On the effect of crossflow on nonlinear Görtler vortices in curved channel flows. 91h:76065
- (with Hall, Philip²). On the generation of mean flows by the interaction of Görtler vortices and Tollmien-Schlichting waves in curved channel flows. 91h:76066
- Belyaev, Yu. N. (with Yavorskaya, I. M.). Problems of stability and the origin of chaos in closed hydrodynamic flows. (Russian) 91f:76003
- Caffisch, Russel E. (with Orellana, O. F.; Siegel, M.). A localized approximation method for vortical flows. 91h:76017
- Chossat, P. (with Stern, C.). Bifurcations in the Couette-Taylor problem: theory and experiments. (see 91b:00048)
- Filippi, S. (with Ruffini, Remo; Sepulveda, A.). Generalized Riemann configurations and Dedekind's theorem: the case of nonlinear internal velocities. 91d:85002
- Hall, Philip². *see* Bassom, Andrew P., 91h:76066
- Hocking, L. M. Spreading and instability of a viscous fluid sheet. 91a:76030
- Kapouleas, Nikolaos. Slowly rotating drops. 91c:76024
- Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.). Bifurcations of flows in a cylindrical liquid bridge of silicon. (see 91b:00048)
- Keller, Herbert B. *see* Schröder, Wolfgang², 91f:76017
- Mikaelian, Karnig O. Rayleigh-Taylor and Richtmyer-Meshkov instabilities and mixing in stratified spherical shells. 91g:76046
- Mironov, M. A. (with Sazonov, I. A.). On discrete spectrum waves in shear flows with a profile having a curvature of constant sign. 91a:76036
- Okamoto, Hisashi. Applications of degenerate bifurcation equations to the Taylor problem and the water wave problem. 91k:35025
- Orellana, O. F. *see* Caffisch, Russel E.; et al., 91h:76017
- Ruffini, Remo. *see* Filippi, S.; et al., 91d:85002
- Sazonov, I. A. *see* Mironov, M. A., 91a:76036
- Schröder, Wolfgang² (with Keller, Herbert B.). Wavy Taylor-vortex flows via multigrid-continuation methods. 91f:76017
- Semenova, I. P. (with Yakubenko, A. E.). Evolution of isolated disturbances on the surface of a film of viscous fluid flowing down a vertical wall. (Russian) 91c:76049
- Sepulveda, A. *see* Filippi, S.; et al., 91d:85002
- Siegel, M. *see* Caffisch, Russel E.; et al., 91h:76017
- Smith, S. H. The development of geostrophic flow within a split cylinder. 91m:76123
- Stern, C. *see* Chossat, P., (91b:00048)
- Wang, Taylor G. Equilibrium shapes of rotating spheroids and drop shape oscillations. (see 91c:76004)
- Wilkowski, Joseph S. *see* Kazarinoff, Nicholas D., (91b:00048)
- Yakubenko, A. E. *see* Semanova, I. P., 91c:76049
- Yavorskaya, I. M. *see* Belyaev, Yu. N., 91f:76003

76E15 Convective instability

- Abdullah, A. A. (with Lindsay, K. A.). Bénard convection in a nonlinear magnetic fluid under the influence of a nonvertical magnetic field. 91m:76045
- Antanovskii, I. K. Stability of the equilibrium of a fluid layer under the action of thermocapillary forces in a quasistationary approximation. 91h:76035
- Ben Hadid, H. *see* Laure, P.; et al., 91a:76039
- Bestehorn, M. *see* Friedrich, R.; et al., 91h:76056
- Brand, Helmut R. Envelope equations near the onset of a hexagonal pattern. 91c:76047
- Busse, F. H. (with Sieber, M.). Regular and chaotic patterns of Rayleigh-Bénard convection. (see 91m:58001)
- Castillo, J. L. (with Garcia-Ybarra, P. L.; Velarde, M. G.). Thermohydrodynamic instabilities. 91f:76028
- Chang, Hsueh-Chia. *see* Cheng, Minquan, 91g:76034
- Cheng, Minquan (with Chang, Hsueh-Chia). A generalized sideband stability theory via center manifold projection. 91g:76034
- Ciliberto, S. (with Couillet, P.; Lega, Joceline; Pampaloni, E.; Pérez-García, Carlos). Defects in roll-hexagon competition. 91h:76035
- Cliffe, K. A. (with Winters, K. H.). Numerical methods for predicting preferred and anomalous flows in Bénard convection. 91g:76036
- Couillet, P. *see* Ciliberto, S.; et al., 91g:76035
- Dandapat, B. S. Finite amplitude convection in a rotating porous medium. 91c:76054
- Davis, Stephen H. *see* Metzner, Ph., 91c:76048 and Riley, D. S., 91m:76048
- Deane, Anil E. (with Sirovich, Lawrence). A computational study of Rayleigh-Bénard convection. I. Rayleigh-number scaling. 91m:76046a
- *see also* Sirovich, Lawrence, 91m:76046b
- De Luca, J. *see* Knobloch, Edgar, 91h:76036
- Friedrich, R. (with Bestehorn, M.; Haken, Hermann). Pattern formation in convective instabilities. 91h:76056
- García-Ybarra, P. L. *see* Castillo, J. L.; et al., 91f:76028
- Haken, Hermann. *see* Friedrich, R.; et al., 91h:76056
- Holm, Darryl D. (with Kimura, Yoshifumi; Scovel, James C.). Lagrangian particle kinematics in three-dimensional convection. 91f:76029
- Hughes, D. W. (with Proctor, Michael R. E.). A low-order model of the shear instability of convection: chaos and the effect of noise. 91h:76057
- Impey, M. D. (with Riley, D. S.; Wheeler, Adam A.; Winters, K. H.). Bifurcation analysis of solutal convection during directional solidification. 91m:76047
- Joets, A. *see* Ribotta, R., 91g:76039
- Kimura, Yoshifumi. *see* Holm, Darryl D.; et al., 91f:76029
- Knobloch, Edgar (with Silber, M.). Pattern selection in rotating convection. 91f:76030
- (with De Luca, J.). Amplitude equations for travelling wave convection. 91h:76036
- Kolyshkin, A. A. (with Vaillancourt, Rémi). A mathematical model for convective stability problems in a tall vertical annulus. (French summary) 91k:76055
- Laure, P. (with Roux, B.; Ben Hadid, H.). Nonlinear study of the flow in a long rectangular cavity subjected to thermocapillary effect. 91a:76039
- Lega, Joceline. *see* Ciliberto, S.; et al., 91g:76035
- Lindsay, K. A. *see* Abdullah, A. A., 91m:76045
- Malomed, B. A. (with Nepomnyashchii, A. A.; Tribelskii, M. I.). Domain boundaries in convection patterns. 91k:76056
- Massaguer, Josep M. (with Mercader, Isabel; Net, Marta). Nonlinear dynamics of vorticity in low-Prandtl-number thermal convection. 91d:76036
- Mercader, Isabel. *see* Massaguer, Josep M.; et al., 91d:76036
- Metzner, Ph. (with Davis, Stephen H.). An annulus model for time-space transitions in Bénard convection. 91c:76048
- Moore, D. R. (with Weiss, N. O.; Wilkins, J. M.). The reliability of numerical experiments: transitions to chaos in thermosolutal convection. 91h:76037
- (with Weiss, N. O.; Wilkins, J. M.). Symmetry-breaking in thermosolutal convection. 91g:76037
- Merz, Irene M. Multiple instabilities in rotating convection. 91g:76038
- Molone, G. (with Rionero, Salvatore). On the nonlinear stability of the rotating Bénard problem via the Lyapunov direct method. 91k:76061
- *see also* Rionero, Salvatore, 91k:76060
- Nagata, Wayne. Convection in a layer with sidewalls: bifurcation with reflection symmetries. 91k:76057
- Nandakumar, K. *see* Weinitschke, Hubertus J.; et al., 91d:76038
- Nepomnyashchii, A. A. (with Simanovskii, I. B.). Long-wave thermocapillary convection in layers with a deformable interface. (Russian) 91f:76019
- *see also* Malomed, B. A.; et al., 91k:76056
- Net, Marta. *see* Massaguer, Josep M.; et al., 91d:76036
- Newell, Alan C. (with Passot, Thierry; Souli, Mohammad). The phase diffusion and mean drift equations for convection at finite Rayleigh numbers in large containers. 91h:76038
- Pampaloni, E. *see* Ciliberto, S.; et al., 91g:76035
- Passot, Thierry. *see* Newell, Alan C.; et al., 91h:76038
- Pérez-García, Carlos. *see* Ciliberto, S.; et al., 91g:76035

- Proctor, Michael R. E. Instabilities of roll-like patterns for degenerate marginal curves. 91k:76058
 — see also Hughes, D. W., 91b:76057
 Ravi Sankar, S. see Weinitschke, Hubertus J.; et al., 91d:76038
 Rees, D. A. S. (with Riley, D. S.) The three-dimensional stability of finite-amplitude convection in a layered porous medium heated from below. 91a:76040
 — The effect of long-wavelength thermal modulations on the onset of convection in an infinite porous layer heated from below. 91b:76058
 Ribotta, R. (with Joets, A.) Defects and disorder of nonlinear waves in convection. 91g:76039
 Riley, D. S. (with Davis, Stephen H.) Long-wave interactions in morphological and convective instabilities. 91m:76048
 — (with Winters, K. H.) A numerical bifurcation study of natural convection in a tilted two-dimensional porous cavity. 91d:76037
 — (with Winters, K. H.) Time-periodic convection in porous media: the evolution of Hopf bifurcations with aspect ratio. 91k:76059
 — see also Rees, D. A. S., 91a:76040 and Impey, M. D.; et al., 91m:76047
 Rionero, Salvatore (with Mulone, G.) On a maximum problem governing the nonlinear stability of rotating Bénard problem. 91k:76060
 — (with Straughan, Brian) Convection in a porous medium with internal heat source and variable gravity effects. 91b:76059
 — see also Mulone, G., 91k:76061
 Roux, B. see Laure, P.; et al., 91a:76039
 Scovel, James C. see Holm, Darryl D.; et al., 91f:76029
 Sharma, K. C. see Sharma, R. C., 91b:76060
 Sharma, R. C. (with Sharma, K. C.) Thermal instability of compressible fluids with Hall currents in porous medium. 91b:76060
 Sieber, M. see Busse, F. H., (91m:58001)
 Silber, M. see Knobloch, Edgar, 91f:76030
 Simanovskii, I. B. see Nepomnyashchii, A. A., 91f:76019
 Sirovich, Lawrence (with Deane, Anil E.) A computational study of Rayleigh-Bénard convection. II. Dimension considerations. 91m:76046
 — see also Deane, Anil E., 91m:76046a
 Souli, Mohammad see Newell, Alan C.; et al., 91h:76038
 Stein, N. D. Exact sine series solution for oscillatory convection in a binary fluid. 91k:76062
 Straughan, Brian Continuous dependence on the heat source and nonlinear stability for convection with internal heat generation. 91k:76063
 — see also Rionero, Salvatore, 91b:76059
 Timoneda, Jaume Destruction of 2-torus by collision with an unstable manifold. 91j:76030
 Triebel, M. I. see Malomed, B. A.; et al., 91k:76056
 Vaillancourt, Rémi see Kolyshkin, A. A., 91k:76055
 Velarde, M. G. see Castillo, J. L.; et al., 91f:76028
 Weinitschke, Hubertus J. (with Nandakumar, K.; Ravi Sankar, S.) A bifurcation study of convective heat transfer in porous media. 91d:76038
 Weiss, N. O. see Moore, D. R.; et al., 91g:76037 and 91h:76037
 Wheeler, Adam A. see Impey, M. D.; et al., 91m:76047
 Wilkins, J. M. see Moore, D. R.; et al., 91g:76037 and 91h:76037
 Winters, K. H. see Riley, D. S., 91d:76037; Cliffe, K. A., 91g:76036; Riley, D. S., 91k:76059 and Impey, M. D.; et al., 91m:76047

Items with secondary classifications in 76E15

- Allain, Geneviève Rôle de la tension superficielle dans la convection de Bénard. (English summary) [The role of surface tension in Bénard convection] 91c:35177
 Anamika, B. M. see Srimani, P. K., 91f:76053
 Aristov, S. N. (with Frik, P. G.) Large-scale turbulence in Rayleigh-Bénard convection. 91b:76071
 Barron, R. M. see Rudraiah, N.; et al., 91g:76056
 Berezina, Yu. A. (with Zhukov, V. P.) Effect of rotation on the convective stability of large-scale disturbances in a turbulent fluid. 91a:76048
 Bestehorn, M. (with Haken, Hermann) Traveling waves and pulses in a two-dimensional large-aspect-ratio system. 91i:58135
 Butzov, V. F. (with Urazgildina, T. A.) Asymptotic solution of the Marangoni convection problem in a thin layer of a viscous liquid. (Russian. English summary) 91k:76146
 Carnevale, George F. (with Vallis, G. K.) Pseudo-advective relaxation to stable states of inviscid two-dimensional fluids. 91c:76058
 Chandna, O. P. see Rudraiah, N.; et al., 91g:76056
 Constantin, Peter Navier-Stokes equations and area of interfaces. 91i:35148
 Daniels, P. G. (with Ong, C. F.) Nonlinear convection in a rigid channel uniformly heated from below. 91c:76102
 Frik, P. G. see Aristov, S. N., 91b:76071
 Gertsenshtein, S. Ya. (with Rodichev, E. B.) Models of transition to turbulence in the case of convective instability. (Russian) 91e:76066
 Gossesbet, G. Simple model for bifurcations ranging up to chaos in thermal lens oscillations and associated phenomena. 91g:58203
 Haken, Hermann see Bestehorn, M., 91i:58135
 Impey, M. D. (with Riley, D. S.; Winters, K. H.) The effect of sidewall imperfections of pattern formation in Lapwood convection. 91e:76105
 Jones, Christopher K. R. T. (with Kapitula, Todd M.; Powell, James A.) Nearly real fronts in a Ginzburg-Landau equation. 91k:76071
 Kapitula, Todd M. see Jones, Christopher K. R. T.; et al., 91k:76071
 Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.) Period tripling and subharmonic oscillations in Marangoni flows in a cylindrical liquid bridge. 91c:76104
 Knobloch, Edgar Pattern selection in long-wavelength convection. 91c:76054
 Lasseigne, D. Glenn (with Olmstead, W. E.) Stability of a viscoelastic Burgers flow. 91f:76003
 Lindsay, K. A. (with Straughan, Brian) Energy methods for nonlinear stability in convection problems primarily related to geophysics. 91f:76031
 Massaguer, Josep M. see Mercader, Isabel; et al., 91g:76051

- Mercader, Isabel (with Massaguer, Josep M.; Net, Marta) Hysteresis in a transition to chaos. 91g:76051
 Moore, D. R. (with Weiss, N. O.) Dynamics of double convection. 91m:76110
 Net, Marta see Mercader, Isabel; et al., 91g:76051
 Ngô Huy Can (with Nguyễn Xuân Huy; Tạ Ngọc Cau) On the convective motion in a micropolar viscous fluid. 91a:76004
 Nguyễn Xuân Huy see Ngô Huy Can; et al., 91a:76004
 Olmstead, W. E. see Lasseigne, D. Glenn, 91f:76003
 Ong, C. F. see Daniels, P. G., 91c:76102
 Park, Hwasin (with Sirovich, Lawrence) Turbulent thermal convection in a finite domain. II. Numerical results. 91g:76054
 — see also Sirovich, Lawrence, 91g:76053
 Powell, James A. see Jones, Christopher K. R. T.; et al., 91k:76071
 Rabinovich, M. I. (with Sushchik, M. M.) The regular and chaotic dynamics of structures in fluid flows. 91m:76061
 Riley, D. S. see Impey, M. D.; et al., 91m:76105
 Rionero, Salvatore Nonlinear stability of fluid motions: the Lyapunov direct method and its applications to natural convection in a mixture. 91h:76041
 Rodichev, E. B. see Gertsenshtein, S. Ya., 91e:76066
 Rudraiah, N. (with Chandna, O. P.; Barron, R. M.) Asymptotic methods in magnetoconvection. 91e:76056
 Sirovich, Carole H. see Sirovich, Lawrence, 91a:58122
 Sirovich, Lawrence (with Sirovich, Carole H.) Low-dimensional description of complicated phenomena. 91a:58122
 — (with Park, Hwasin) Turbulent thermal convection in a finite domain. I. Theory. 91g:76053
 — see also Park, Hwasin, 91g:76054
 Srimani, P. K. Marangoni porous convection in a cylindrical geometry. I. Surface tension effects dominant. 91f:76052
 — (with Anamika, B. M.) Marangoni porous convection in a cylindrical geometry. II. Buoyancy effects dominant. 91f:76053
 Straughan, Brian see Lindsay, K. A., 91f:76031
 Sushchik, M. M. see Rabinovich, M. I., 91m:76061
 Tạ Ngọc Cau see Ngô Huy Can; et al., 91a:76004
 Urazgildina, T. A. see Butzov, V. F., 91k:76146
 Vallis, G. K. see Carnevale, George F., 91c:76058
 Weiss, N. O. see Moore, D. R., 91m:76110
 Wilkowski, Joseph S. see Kazarinoff, Nicholas D., 91c:76104
 Winters, K. H. see Impey, M. D.; et al., 91e:76105
 Zhukov, V. P. see Berezina, Yu. A., 91a:76048

76E20 Instability of geophysical and astrophysical flows

- Borovikov, V. A. Critical layer formation in a stratified medium with mean shear flows. 91m:76049
 Caponi, E. A. (with Yuen, H. C.; Milinazzo, F. A.; Saffman, Philip G.) Water-wave instability induced by a drift layer. 91m:76050
 Carnevale, George F. (with Shepherd, Theodore G.) On the interpretation of Andrews' theorem. 91c:76049
 Filatov, A. N. see Ifin, A. A., 91f:76020
 Gauthier, Pierre Effect of detuning on the development of marginally unstable baroclinic vortices. 91d:76039
 Ghil, M. see Sakuma, H., 91b:76063 and Jin, Fei Fei, 91k:76065
 Gnevyshev, V. G. (with Shira, V. I.) On the evaluation of barotropic-baroclinic instability parameters of zonal flows on a beta-plane. 91k:76064
 Hart, J. E. On oscillatory flow over topography in a rotating fluid. 91b:76061
 Higgins, R. Wayne (with Shirer, Hampton N.) Transitions from Hadley to Rossby flows in internally forced rotating spherical systems. 91e:76055
 Ifin, A. A. (with Filatov, A. N.) Stability of stationary solutions of equations of a barotropic atmosphere with respect to linear approximation. 91f:76020
 Ismail-Zade, A. T. see Naimark, B. M., 91b:76062
 Jin, Fei Fei (with Ghil, M.) Intraseasonal oscillations in the extratropics: Hopf bifurcation and topographic instabilities. 91k:76065
 Joly, Alain (with Thorpe, Alan J.) The stability of time-dependent flows: an application to fronts in developing baroclinic waves. 91k:76066
 Khait, Alexander see Paldor, Nathan, 91c:76050
 Lindsay, K. A. (with Straughan, Brian) Energy methods for nonlinear stability in convection problems primarily related to geophysics. 91j:76031
 Milinazzo, F. A. see Caponi, E. A.; et al., 91m:76050
 Mirabel, A. P. (with Monin, A. S.) On the instability of a Sverdrup gyre in a three-layer model and in a continuously stratified model of the ocean. 91m:76051
 Monin, A. S. see Mirabel, A. P., 91m:76051
 Naimark, B. M. (with Ismail-Zade, A. T.) A problem on the gravitational instability of a geophysical medium with Maxwell rheology. (Russian) 91b:76062
 Nevilov, V. L. Various scenarios for the development of gravitational instability in three-layered viscous media. (Russian) 91k:76067
 Paldor, Nathan (with Khait, Alexander) A note on the use of zero potential vorticity models. 91c:76050
 Pedlosky, J. see Samelson, R. M., 91f:76032
 Ripa, P. Stability of equilibrium solutions reached by "modified dynamics". 91f:76031
 Saffman, Philip G. see Caponi, E. A.; et al., 91m:76050
 Sakuma, H. (with Ghil, M.) Stability of stationary barotropic modons by Lyapunov's direct method. 91b:76063
 Samelson, R. M. (with Pedlosky, J.) Local baroclinic instability of flow over variable topography. 91j:76032
 Shepherd, Theodore G. Isovertical constraints on the statistical-dynamical behaviour of strongly nonlinear two-dimensional and quasi-geostrophic flow. (see 91f:76005)
 — see also Carnevale, George F., 91c:76049
 Shirer, Hampton N. see Higgins, R. Wayne, 91e:76055
 Shira, V. I. see Gnevyshev, V. G., 91b:76064

- Stranghan, Brian *see* Lindsay, K. A., 91:76031
 Thorpe, Alan J. *see* Joly, Alain, 91:76066
 Yuen, H. C. *see* Caponi, E. A.; et al., 91:76050

Items with secondary classifications in 76E20

- Berezin, Yu. A. (with Zhukov, V. P.) Effect of rotation on the convective stability of large-scale disturbances in a turbulent fluid. 91:76048
 Besthorn, M. *see* Friedrich, R.; et al., 91:76056
 Brand, Helmut R. Envelope equations near the onset of a hexagonal pattern. 91:76047
 Browning, G. (with Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. 91:76002
 Bruinsma, R. The statistical mechanics of meandering. (French summary) 91:76053
 Carnevale, George F. (with Vallis, G. K.) Pseudo-advective relaxation to stable states of inviscid two-dimensional fluids. 91:76058
 Chadam, John M. (with Peirce, Anthony P.; Ortoleva, Peter J.) Stability of reactive flows in porous media: coupled porosity and viscosity changes. 91:76114
 Cheng, Tzu-Kuang *see* Liu, Shi Da, 91:76053
 Chern, Shah Jye (with Marsden, Jerrold E.) A note on symmetry and stability for fluid flows. 91:76013
 Childress, S. *see* Gilbert, A. D., 91:76104
 Choudhuri, A. R. A correction to Spruit's equation for the dynamics of thin flux tubes. 91:76012
 Dritschel, David G. The stability of elliptical vortices in an external straining flow. 91:76055
 — Generalized helical Beltrami flows in hydrodynamics and magnetohydrodynamics. 91:76043
 Friedrich, R. (with Besthorn, M.; Haken, Hermann) Pattern formation in convective instabilities. 91:76056
 Gilbert, A. D. (with Childress, S.) Evidence for fast dynamo action in a chaotic web. 91:76104
 Glukhovskii, A. B. Modeling of two-dimensional turbulence effects in a cascaded system of coupled gyrostats. 91:76082
 Haken, Hermann *see* Friedrich, R.; et al., 91:76056
 Hickernell, F. J. *see* Yortsos, Y. C., 91:76085
 Kreiss, Heinz-Otto *see* Browning, G., 91:76002
 Liu, Shi Da (with Cheng, Tzu-Kuang) A nonlinear mechanism producing atmospheric turbulence. 91:76053
 Labov, Stephen H. On mass transport in nonviscous, non-self-gravitating fluid disks. 91:76003
 Layton, P. J. Nonaxisymmetric dynamical instability of differentially rotating, self-gravitating masses. 91:76002
 Marcus, Philip S. Vortex dynamics in a shearing zonal flow. 91:76026
 Marsden, Jerrold E. *see* Chern, Shah Jye, 91:76013
 Maser, Arthur (with Ratiu, Tudor S.) Formal stability of two-dimensional self-gravitating rotating disks. 91:76151
 Mao, V. L. Stability of a high-viscosity layer on an eroding surface. 91:76013
 McPhaden, M. J. (with Ripa, P.) Wave-mean flow interactions in the equatorial ocean. 91:76002
 Mirabel, A. P. (with Monin, A. S.) On the instability of gyres in a continuously stratified ocean. (Russian) 91:76004
 Monin, A. S. *see* Mirabel, A. P., 91:76004
 Moore, G. W. Kent (with Peltier, W. R.) Nonseparable baroclinic instability. II. Primitive-equations dynamics. 91:76005
 Ortoleva, Peter J. *see* Chadam, John M.; et al., 91:76114
 Peirce, Anthony P. *see* Chadam, John M.; et al., 91:76114
 Peltier, W. R. *see* Moore, G. W. Kent, 91:76005 and Smyth, W. D., 91:76033
 Perry, W. L. *see* Shen, S. S. P., 91:76086
 Proctor, Michael R. E. *see* Zweibel, Ellen G., 91:76006
 Ratiu, Tudor S. *see* Maser, Arthur, 91:76151
 Ripa, P. Taxonomy of ocean stability conditions. (see 91:76001)
 — *see also* McPhaden, M. J., 91:76002
 Ryu, Dongu (with Vishniac, Ethan T.) The dynamic instability of adiabatic blast waves. 91:76013
 Shen, S. S. P. (with Perry, W. L.) An example of nonlinear toxic mass spreading. 91:76086
 Shepherd, Theodore G. Rigorous bounds on the nonlinear saturation of instabilities to parallel shear flows. 91:76042
 — A general method for finding extremal states of Hamiltonian dynamical systems, with applications to perfect fluids. 91:76087
 Smith, S. H. The development of geostrophic flow within a split cylinder. 91:76123
 Smyth, W. D. (with Peltier, W. R.) Three-dimensional primary instabilities of a stratified, dissipative, parallel flow. 91:76033
 Swaters, Gordon E. Dynamical characteristics of decaying Lamb couples. 91:76032
 Vallis, G. K. *see* Carnevale, George F., 91:76058
 Verkey, W. T. M. On the beta plane approximation. 91:76004
 Vishniac, Ethan T. *see* Ryu, Dongu, 91:76013
 Wu, Han Ming *see* Zhu, Ru Zeng, 91:76025
 Yortsos, Y. C. (with Hickernell, F. J.) Linear stability of immiscible displacement in porous media. 91:76085
 Zhu, Ru Zeng (with Wu, Han Ming) Eigenvalue integral relation and stability condition for a mode. 91:76025
 Zhukov, V. P. *see* Berezin, Yu. A., 91:76048
 Zweibel, Ellen G. (with Proctor, Michael R. E.) Current sheet formation in magnetostatic equilibria. 91:76006
 Chandna, O. P. *see* Rudraiah, N.; et al., 91:76056
 Chen, Xiao Liang (with Morrison, P. J.) Resistive tearing instability with equilibrium shear flow. 91:76021
 Elhefnawy, Abdel Raouf F. Nonlinear Marangoni instability in dielectric superposed fluids. 91:76052
 Elshehawey, Elsayed F. (with Abd El Gawaad, N. R.) Nonlinear electrohydrodynamic Kelvin-Helmholtz instability conditions of an interface between two fluids under the effect of a normal periodic field. (Russian summary) 91:76033
 — (with Mahmoud, Y. D.) Electrohydrodynamic Kelvin-Helmholtz instability conditions for two horizontal interfaces. Effect of a tangential field. (Italian and Russian summaries) 91:76064
 — Intervals of electrohydrodynamic Rayleigh-Taylor instability: effect of a normal periodic field. 91:76068
 Finn, John M. (with Ott, Edward) The fast kinematic magnetic dynamo and the dissipationless limit. 91:76040
 Galanti, B. (with Sulem, P.-L.; Gilbert, A. D.) Inverse cascades and time-dependent dynamos in MHD flows. 91:76053
 Galdi, Giovanni P. (with Padula, Mariarosaria) New contributions to nonlinear stability of the magnetic Bénard problem. (see 91:76040)
 Georgescu, Adelina (with Oprea, Iuliana) Neutral stability curves for a thermal convection problem. II. The case of multiple solutions of the characteristic equation. 91:76069
 Gilbert, A. D. *see* Galanti, B.; et al., 91:76053
 Glazunova, N. A. (with Stepan'yants, Yu. A.) Estimates of parameters of growing perturbations in shear flows of a nonhomogeneous magnetized plasma. 91:76040
 Hamaguchi, Satoshi *see* Nakajima, Noriyoshi, 91:76052
 Mahmoud, Y. D. *see* Elshehawey, Elsayed F., 91:76064
 Manolis, G. D. *see* Pelekasis, N. A.; et al., 91:76032
 Morrison, P. J. *see* Chen, Xiao Liang, 91:76021
 Nakajima, Noriyoshi Nonlinear behavior of magnetohydrodynamic modes near marginally stable states. I. General formulation and application to the nonresonant kink modes in a reversed field pinch and to the quasi-interchange modes in a tokamak. 91:76051
 — (with Hamaguchi, Satoshi) Nonlinear behavior of magnetohydrodynamic modes near marginally stable states. II. Application to the resistive fast interchange mode. 91:76052
 Nefedov, V. V. (with Popov, A. M.) Evolution conditions in the problem of the bifurcation of a plasma cylinder. (Russian. English summary) 91:76041
 Oprea, Iuliana *see* Georgescu, Adelina, 91:76069
 Ott, Edward *see* Finn, John M., 91:76040
 Padula, Mariarosaria *see* Galdi, Giovanni P., (91:76040)
 Patulin, V. M. (with Sagalakov, A. M.; Yudin, A. Yu.) Appearance of three-dimensional self-oscillations in magnetohydrodynamic flows. 91:76041
 Pelekasis, N. A. (with Tsamopoulos, J. A.; Manolis, G. D.) Equilibrium shapes and stability of charged and conducting drops. 91:76032
 Popov, A. M. *see* Nefedov, V. V., 91:76041
 Rudraiah, N. (with Chandna, O. P.; Barron, R. M.) Asymptotic methods in magnetoconvection. 91:76056
 Sagalakov, A. M. *see* Patulin, V. M.; et al., 91:76041
 Stepan'yants, Yu. A. *see* Glazunova, N. A., 91:76040
 Sulem, P.-L. *see* Galanti, B.; et al., 91:76053
 Tsamopoulos, J. A. *see* Pelekasis, N. A.; et al., 91:76032
 Weinstein, Marcel Mordechai An analytical solution of the basic Couette flow affected by a three-dimensional magnetic field. 91:76041
 Yudin, A. Yu. *see* Patulin, V. M.; et al., 91:76041

Items with secondary classifications in 76E25

- Abdullah, A. A. (with Lindsay, K. A.) Benard convection in a nonlinear magnetic fluid under the influence of a nonvertical magnetic field. 91:76045
 Bayly, B. J. (with Childress, S.) Fast dynamo action in three-dimensional chaotic maps. 91:76124
 Belotitskii, E. D. (with Mignanov, N. G.; Tomchuk, P. M.) Construction of generalized thermodynamic potentials by the method of Lie algebras. 91:76063
 Blokhin, A. M. (with Druzhinin, I. Yu.) Stability of shock waves in magnetohydrodynamics. 91:76112
 Brand, Helmut R. Envelope equations near the onset of a hexagonal pattern. 91:76047
 Britov, N. A. A study of the controlling action of a magnetic field for the single-component flow of a metal. (Russian) 91:76051
 — The three-dimensional analog of the Hunt theorem for certain magnetohydrodynamic flows in tubes. 91:76102
 Childress, S. *see* Gilbert, A. D., 91:76104 and Bayly, B. J., 91:76124
 D'Ambrogio, Enos A third order scheme in the Vlasov theory and some consequences in the evolution of few body systems. (Italian summary) 91:76112
 Dnestrovskii, Yu. N. (with Kostomarov, D. P.; Nefedov, V. V.; Popov, A. M.) A study of the nonlinear evolution of resistive spiral modes by the method of projection onto an unstable manifold. 91:76058
 Dritschel, David G. Generalized helical Beltrami flows in hydrodynamics and magnetohydrodynamics. 91:76043
 Druzhinin, I. Yu. *see* Blokhin, A. M., 91:76112
 Gilbert, A. D. (with Childress, S.) Evidence for fast dynamo action in a chaotic web. 91:76104
 Grauer, Rainer Nonlinear interactions of tearing modes in the vicinity of a bifurcation point of codimension two. 91:76180
 Gulín, A. V. (with Kregzhde, A. V.; Yakovleva, S. A.) Numerical solution of a quadratic eigenvalue problem. (Russian) 91:76187
 Holm, Darryl D. Hamiltonian techniques for relativistic fluid dynamics and stability theory. 91:76001
 Karpman, V. I. Nonlinear interaction between short and long waves. 91:76022
 Kaup, D. J. (with Thomas, Gary E.) The third-order singular-perturbation expansion of the planar cold-fluid magnetron equations. 91:76090
 — Coherent structures in the planar magnetron. 91:76117
 — (with Thomas, Gary E.) Errata for: "The third-order singular-perturbation expansion of the planar cold-fluid magnetron equations" [Stud. Appl. Math. 81 (1989), no. 1, 57-78;

76E25 Magnetohydrodynamic and electrohydrodynamic instabilities

- Abd El Gawaad, N. R. *see* Elshehawey, Elsayed F., 91:76033
 Barron, R. M. *see* Rudraiah, N.; et al., 91:76056

- MR 91a:76090]. (Not in MR)
- Kolyshkin, A. A. (with Vaillancourt, Rémi) A mathematical model for convective stability problems in a tall vertical annulus. (French summary) 91k:76055
- Kostomarov, D. P. see Dnestrovskii, Yu. N.; et al., 91f:76058
- Kreghde, A. V. see Gulin, A. V.; et al., 91g:65187
- Lindsay, K. A. see Abdullah, A. A., 91m:76045
- Maschke, E. K. Dynamical systems in plasma theory. 91h:76085
- (Meneguzzi, M.) see Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Migranov, N. G. see Belotskii, E. D.; et al., 91h:82063
- Moffatt, H. K. On the existence, structure and stability of MHD equilibrium states. 91m:76128
- Nefedov, V. V. see Dnestrovskii, Yu. N.; et al., 91f:76058
- Popov, A. M. see Dnestrovskii, Yu. N.; et al., 91f:76058
- (Pouquet, A.) see Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Proctor, Michael R. E. see Zweibel, Ellen G., 91m:85006
- Riedel, K. S. Quasilinear ballooning mode saturation. 91d:76085
- Ruderman, M. S. Structure and stability of quasispherical small-amplitude magnetohydrodynamic shocks. 91c:76125
- Sharma, K. C. see Sharma, R. C., 91b:76060
- Sharma, R. C. (with Sharma, K. C.) Thermal instability of compressible fluids with Hall currents in porous medium. 91h:76060
- (Salem, P.-L.) see Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Swanson, D. G. ★ Plasma waves. 91g:76107
- Takeda, Tatsuki (with Tokuda, Shinji) Computation of MHD equilibrium of tokamak plasma. 91k:76157
- Thomas, Gary E. see Kaup, D. J., 91a:76090 and (Not in MR)
- Tokuda, Shinji see Takeda, Tatsuki, 91k:76157
- Tomchuk, P. M. see Belotskii, E. D.; et al., 91h:82063
- Vaillancourt, Rémi see Kolyshkin, A. A., 91k:76055
- Yakovleva, S. A. see Gulin, A. V.; et al., 91g:65187
- Zweibel, Ellen G. (with Proctor, Michael R. E.) Current sheet formation in magnetostatic equilibria. 91m:85006
- Items listed otherwise than by author
- Cargèse ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005
- Turbulence and nonlinear dynamics in MHD flows ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005
- Workshop:
- Turbulence and Nonlinear Dynamics in MHD Flows ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005

76E30 Nonlinear effects

- Bassom, Andrew P. On the effect of crossflow on nonlinear Görtler vortices in curved channel flows. 91h:76065
- (with Hall, Philip²) On the generation of mean flows by the interaction of Görtler vortices and Tollmien-Schlichting waves in curved channel flows. 91h:76066
- (with Seddouglou, Sharon O.) The onset of three-dimensionality and time-dependence in Görtler vortices: neutrally stable wavy modes. 91k:76070
- (with Hall, Philip²) On the interaction of stationary crossflow vortices and Tollmien-Schlichting waves in the boundary layer on a rotating disc. 91h:76039
- see also Horseman, Nicola J., 91d:76042
- Boisvert, Ronald F. see McFadden, G. B.; et al., 91k:76072
- Charu, François (with Fabre, Jean) Ondes longues à l'interface de deux fluides visqueux. (English summary) [Long waves at the interface of two viscous fluids] 91e:76057
- Choi, S.-W. see Goldstein, M. E., (Not in MR)
- Cox, Stephen M. (with Drazin, P. G.; Rye, Susan C.; Slater, K.) Chaotic advection of irrotational flows and of waves in fluids. 91g:76042
- Djomehri, M. J. see Straughan, Brian; et al., 91e:76059
- Drazin, P. G. see Cox, Stephen M.; et al., 91g:76042
- (Dritschel, David G.) see Pullin, D. L., 91c:76056
- Ewing, Richard E. see Straughan, Brian; et al., 91e:76059
- Fabre, Jean see Charu, François, 91e:76057
- Gedalin, K. E. (with Malomed, B. A.) Stability of cellular wave structures in oscillatory pattern-forming systems near onset. 91c:76053
- Glimm, James (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang) A numerical study of bubble interactions in Rayleigh-Taylor instability for compressible fluids. 91h:76040
- Goldstein, M. E. (with Choi, S.-W.) Corrigendum: "Nonlinear evolution of interacting oblique waves on two-dimensional shear layers" [J. Fluid Mech. 207 (1989), 97-120; MR 90i:76092]. (Not in MR)
- Hall, Philip² see Bassom, Andrew P., 91h:76066 and 91h:76039
- Horseman, Nicola J. (with Bassom, Andrew P.) Long-wave/short-wave interactions in flow between concentric cylinders. 91d:76042
- Jacobs, P. G. see Straughan, Brian; et al., 91e:76059
- Jensen, O. E. Instabilities of flow in a collapsed tube. 91j:76034
- Jones, Christopher K. R. T. (with Kapitula, Todd M.; Powell, James A.) Nearly real fronts in a Ginzburg-Landau equation. 91k:76071
- Kapitula, Todd M. see Jones, Christopher K. R. T.; et al., 91k:76071
- Karman, V. I. Nonlinear interaction between short and long waves. 91h:76022
- Kholpanov, L. P. see Yelyukhin, V. A., 91m:76054
- Knightly, George H. (with Sather, D.) Bifurcation and stability problems in rotating plane Couette-Poiseuille flow. 91f:76033
- Knobloch, Edgar Pattern selection in long-wavelength convection. 91c:76054
- Li, Xiao Lin see Glimm, James; et al., 91h:76040
- Maldarelli, C. see Papageorgiou, D. T.; et al., 91b:76067
- Malomed, B. A. see Gedalin, K. E., 91c:76053
- Manlowe, Sherwin A. Waves in shear flows. 91c:76055
- McFadden, G. B. (with Murray, B. T.; Boisvert, Ronald F.) Elimination of spurious eigenvalues in the Chebyshev tau spectral method. 91k:76072
- Menikoff, Ralph see Glimm, James; et al., 91h:76040
- Moore, D. W. see Pullin, D. L., 91c:76056
- Murray, B. T. see McFadden, G. B.; et al., 91k:76072
- Nagata, Masato Nonlinear Faraday resonance in a box with a square base. 91e:76058
- Papageorgiou, D. T. (with Maldarelli, C.; Rumschitzki, D. S.) Nonlinear interfacial stability of core-annular film flows. 91h:76067
- Powell, James A. see Jones, Christopher K. R. T.; et al., 91k:76071
- Pullin, D. L. (with Moore, D. W.) Remark on a result of D. G. Dritschel: "The repeated filamentation of two-dimensional vorticity interfaces" [J. Fluid. Mech. 194 (1988), 511-547; MR 89m:76042]. 91c:76056
- Ren, Shu Zhan Nonlinear stability of triad-wave interaction. (Not in MR)
- Rionero, Salvatore Nonlinear stability of fluid motions: the Lyapunov direct method and its applications to natural convection in a mixture. 91h:76041
- Rumschitzki, D. S. see Papageorgiou, D. T.; et al., 91b:76067
- Rye, Susan C. see Cox, Stephen M.; et al., 91g:76042
- Sather, D. see Knightly, George H., 91f:76033
- Seddouglou, Sharon O. see Bassom, Andrew P., 91k:76070
- Sharp, David H. see Glimm, James; et al., 91h:76040
- Shepherd, Theodore G. Rigorous bounds on the nonlinear saturation of instabilities to parallel shear flows. 91a:76042
- Slater, K. see Cox, Stephen M.; et al., 91g:76042
- Smith, F. T. (with Walton, A. G.) Nonlinear interaction of near-planar TS waves and longitudinal vortices in boundary-layer transition. 91c:76057
- Straughan, Brian (with Ewing, Richard E.; Jacobs, P. G.; Djomehri, M. J.) Nonlinear instability for a modified form of Burgers' equation. 91e:76059
- Tuckerman, Laurette S. Bifurcation analysis of the Eckhaus instability. (see 91e:00028)
- Walton, A. G. see Smith, F. T., 91c:76057
- Yelyukhin, V. A. (with Kholpanov, L. P.) Development and interaction of perturbations in unstable chemically reacting flow systems. 91m:76054
- Zhang, Qiang see Glimm, James; et al., 91h:76040
- Items with secondary classifications in 76E30
- Akhmerov, R. R. Travelling waves of Burgers equations and Korteweg-de Vries-Burgers equations with a sign-variable viscosity coefficient. (Russian) (Not in MR)
- Aranas, I. S. (with Rabinovich, M. I.) The renormgroup description of spatial turbulence development. 91e:76059
- (with Rabinovich, M. I.) Dynamics of spiral waves in nonequilibrium media. 91h:82046
- Ayane, Hassan (with Bernoff, Andrew J.; Lichter, Seth) Spanwise modal competition in cross-waves. 91g:76010
- Bajer, K. (with Moffatt, H. K.) On a class of steady confined Stokes flows with chaotic streamlines. 91g:76022
- Bartuccelli, Michele (with Constantin, Peter; Doering, Charles R.; Gibbon, John D.; Gisselhalt, Magnus) On the possibility of soft and hard turbulence in the complex Ginzburg-Landau equation. 91i:58134
- Ben Hadid, H. see Laure, P.; et al., 91a:76039
- Bernoff, Andrew J. see Ayane, Hassan; et al., 91g:76010 and Underhill, William B.; et al., 91m:76019
- Bunimovich, L. A. Space-time chaos and the generation of coherent structures in map lattices. (Russian) 91g:58179
- (with Lambert, André; Lima, Ricardo) The emergence of coherent structures in coupled map lattices. (Not in MR)
- Callias, Russell E. (with Semmes, Stephen) A nonlinear approximation for vortex sheet evolution and singularity formation. 91h:76018
- Chandrasekar, D. (with Prasad, Phoolan) Transonic flow of a fluid with positive and negative nonlinearity through a nozzle. 91m:76063
- Chang, Hsueh-Chia see Cheng, Minquan, 91g:76034
- Chen, Feng Su Determining modes and fractal dimension of flows. 91e:58169
- Cheng, Minquan (with Chang, Hsueh-Chia) A generalized sideband stability theory via center manifold projection. 91g:76034
- Chow, Kwok W. A note on inviscid secondary instability in shear flows. 91h:76033
- Constantin, Peter see Bartuccelli, Michele; et al., 91i:58134
- Davis, Stephen H. see Metzner, Ph., 91c:76048
- Djordjević, V. D. (with Redekopp, L. G.) The effect of profile symmetry on the nonlinear stability of mixing layers. 91k:76051
- Doelman, Arjen Slow time-periodic solutions of the Ginzburg-Landau equation. 91a:35150
- Doering, Charles R. see Bartuccelli, Michele; et al., 91i:58134
- Dritschel, David G. The stability of elliptical vortices in an external straining flow. 91k:76055
- Elhefnawy, Abdel Raouf F. Nonlinear Marangoni instability in dielectric superposed fluids. 91m:76052
- Feng, Z. C. (with Sethna, P. R.) Chaotic surface waves in a parametrically excited container with almost square cross section. 91c:58089
- Galdi, Giovanni P. (with Padula, Mariarosaria) New contributions to nonlinear stability of the magnetic Bénard problem. (see 91g:00040)
- Garazo, A. N. see Kurchat, S. M.; et al., 91e:76047
- Ghil, M. see Jin, Fei Fei, 91k:76065
- Gibbon, John D. see Bartuccelli, Michele; et al., 91i:58134
- Gisselhalt, Magnus see Bartuccelli, Michele; et al., 91i:58134
- Glimm, James (with Sharp, David H.) Chaotic mixing as a renormalization-group fixed point. 91a:76052
- Guilloup, C. (with Saut, Jean-Claude) Global existence and one-dimensional nonlinear stability of shearing motions of viscoelastic fluids of Oldroyd type. (French summary) 91c:76003
- Gustavsson, L. Håkan (with Shanthini, Rajaratnam) Degeneracies and direct resonances in water-table flow. 91c:76044
- Hall, Philip² (with Smith, F. T.) Near-planar TS waves and longitudinal vortices in channel flow: nonlinear interaction and focussing. 91f:76016
- Görtler vortices in growing boundary layers: the leading edge receptivity problem, linear growth and the nonlinear breakdown stage. 91m:76044
- Hamaguchi, Satoshi see Nakajima, Noriyoshi, 91c:76052

- Hart, J. E. On oscillatory flow over topography in a rotating fluid. 91h:76061
- Henderson, Diane M. *see* Miles, John W., 91c:76019
- Holmes, Philip *see* Szeri, Andrew J., 91m:58089
- Hussaini, M. Y. *see* Malik, M. R., 91a:76035
- Impey, M. D. (with Riley, D. S.; Winters, K. H.) The effect of sidewall imperfections of pattern formation in Lapwood convection. 91e:76105
- Jia, Fei Fei (with Ghil, M.) Intraseasonal oscillations in the extratropics: Hopf bifurcation and topographic instabilities. 91k:76065
- Joets, A. *see* Ribotta, R., 91g:76039
- Kambe, Tsutomu (with Umeki, M.) Nonlinear dynamics of two-mode interactions in parametric excitation of surface waves. 91c:76016
- Kevrekidis, Ioannis G. (with Nicolaenko, Basil; Scovel, James C.) Back in the saddle again: a computer assisted study of the Kuramoto-Sivashinsky equation. 91c:58095
- Kirchgässner, Klaus Nonlinearly resonant surface waves and homoclinic bifurcation. 91e:76007
- Knight, B. W. *see* Sirovich, Lawrence; et al., 91g:58255
- Kurchat, S. M. (with Manna, Miguel A.; Pereira, J. G.; Garazo, A. N.) Shallow viscous fluid heated from below and the Kadomtsev-Petviashvili equation. 91e:76047
- Lambert, André *see* Bunimovich, L. A.; et al., (Not in MR)
- Landman, Michael J. Time-dependent helical waves in rotating pipe flow. 91j:76024
- (with Papanicolaou, George; Sulem, C.; Sulem, P.-L.; Wang, X. P.) Stability of isotropic singularities for the nonlinear Schrödinger equation. 91m:35216
- Laure, P. (with Roux, B.; Ben Hadid, H.) Nonlinear study of the flow in a long rectangular cavity subjected to thermocapillary effect. 91a:76039
- Lichter, Seth *see* Ayanle, Hassan; et al., 91g:76010 and Underhill, William B.; et al., 91m:76019
- Lima, Ricardo *see* Bunimovich, L. A.; et al., (Not in MR)
- Lindsay, K. A. (with Straughan, Brian) Energy methods for nonlinear stability in convection problems primarily related to geophysics. 91j:76031
- Lia, J. T. C. Contributions to the understanding of large-scale coherent structures in developing free turbulent shear flows. 91g:76049
- Malik, M. R. (with Hussaini, M. Y.) Numerical simulation of interactions between Görtler vortices and Tollmien-Schlichting waves. 91a:76035
- Manna, Miguel A. *see* Kurchat, S. M.; et al., 91e:76047
- Massaguer, Josep M. (with Mercader, Isabel; Net, Marta) Nonlinear dynamics of vertical vorticity in low-Prandtl-number thermal convection. 91d:76036
- Mercader, Isabel *see* Massaguer, Josep M.; et al., 91d:76036
- Metzner, Ph. (with Davis, Stephen H.) An annulus model for time-space transitions in Bénard convection. 91c:76048
- Miles, John W. (with Henderson, Diane M.) Parametrically forced surface waves. 91c:76019
- Milner, S. T. Square patterns and secondary instabilities in driven capillary waves. 91m:76021
- Mirabel, A. P. (with Monin, A. S.) On the instability of a Sverdrup gyre in a three-layer model and in a continuously stratified model of the ocean. 91m:76051
- Moffatt, H. K. *see* Bajer, K., 91g:76022
- Monin, A. S. *see* Mirabel, A. P., 91m:76051
- Mulone, G. (with Rionero, Salvatore) On the nonlinear stability of the rotating Bénard problem via the Lyapunov direct method. 91k:76061
- *see also* Rionero, Salvatore, 91k:76060
- Nakajima, Noriyoshi Nonlinear behavior of magnetohydrodynamic modes near marginally stable states. I. General formulation and application to the nonresonant kink modes in a reversed field pinch and to the quasi-interchange modes in a tokamak. 91c:76051
- (with Hamaguchi, Satoshi) Nonlinear behavior of magnetohydrodynamic modes near marginally stable states. II. Application to the relative fast interchange mode. 91c:76052
- Nayfeh, Ali Hassan (with Nayfeh, J. F.) Surface waves in closed basins under principal and autoparametric resonances. 91e:76007
- Nayfeh, J. F. *see* Nayfeh, Ali Hassan, 91e:76007
- Net, Marta *see* Massaguer, Josep M.; et al., 91d:76036
- Newell, Alan C. (with Passot, Thierry; Souli, Mohammad) The phase diffusion and mean drift equations for convection at finite Rayleigh numbers in large containers. 91h:76038
- Nicolaenko, Basil *see* Kevrekidis, Ioannis G.; et al., 91c:58095
- Nohel, John A. (with Pego, Robert L.; Tzavaras, Athanasios E.) Nonlinear stability in non-Newtonian flows. 91m:76002
- Padula, Mariarosaria *see* Galdi, Giovanni P., (91g:00040)
- Papanicolaou, George *see* Landman, Michael J.; et al., 91m:35216
- Passot, Thierry *see* Newell, Alan C.; et al., 91h:76038
- Pego, Robert L. *see* Nohel, John A.; et al., 91m:76002
- Pereira, J. G. *see* Kurchat, S. M.; et al., 91e:76047
- Pfirsch, D. Nonlinear instabilities, negative energy modes and generalized Cherry oscillators. 91d:58122
- Plehr, Bradley J. Instabilities in shear flow of viscoelastic fluids with fading memory. 91h:76006
- Popov, S. P. *see* Zhuk, V. I., 91c:76038
- Prasad, Phoolan *see* Chandrasekar, D., 91m:76063
- Proctor, Michael R. E. (with Weiss, N. O.) Normal forms and chaos in thermosolutal convection. 91l:58092
- Promislow, Keith Induced trajectories and approximate inertial manifolds for the Ginzburg-Landau partial differential equation. 91g:58253
- Quasthoff, Karin Bifurcation points of capillary-gravity waves. 91j:76012
- Rabinovich, M. I. (with Sushchik, M. M.) The regular and chaotic dynamics of structures in fluid flows. 91m:76061
- *see also* Aranson, I. S., 91c:76059 and 91h:32046
- Redekopp, L. G. *see* Djordjević, V. D., 91k:76051
- Ribotta, R. (with Joets, A.) Defects and disorder of nonlinear waves in convection. 91g:76039
- Riley, D. S. *see* Impey, M. D.; et al., 91e:76105
- Rionero, Salvatore (with Mulone, G.) On a maximum problem governing the nonlinear stability of rotating Bénard problem. 91k:76060
- (with Straughan, Brian) Convection in a porous medium with internal heat source and variable gravity effects. 91h:76059
- *see also* Mulone, G., 91k:76061
- Rodriguez, J. D. (with Schell, Mark) Global bifurcations into chaos in systems with SO(2) symmetry. 91h:58162
- *see also* Sirovich, Lawrence; et al., 91g:58255
- Rotenberg, James M. (with Saffman, Philip G.) Effect of compliant boundaries on weakly nonlinear shear waves in channel flow. 91d:76033
- Roux, B. *see* Laure, P.; et al., 91a:76039
- Saffman, Philip G. *see* Rotenberg, James M., 91d:76033
- Sant, Jean-Claude *see* Guillopé, C., 91c:76003
- Sazonov, I. A. Interaction of continuous-spectrum waves with each other and with discrete-spectrum waves. 91a:76037
- Schell, Mark *see* Rodriguez, J. D., 91h:58162
- Scovel, James C. *see* Kevrekidis, Ioannis G.; et al., 91c:58095
- Seddougl, Sharon O. A nonlinear investigation of the stationary modes of instability of the three-dimensional compressible boundary layer due to a rotating disc. 91j:76055
- Semmes, Stephen *see* Caffrich, Russel E., 91h:76018
- Sethna, P. R. *see* Feng, Z. C., 91c:58089
- Shanthini, Rajaratnam On the nonlinear development of small three-dimensional perturbations in plane Poiseuille flow: single-mode approach. 91k:76052
- *see also* Gustavsson, L. Håkan, 91c:76044
- Sharp, David H. *see* Glimm, James, 91d:76052
- Shepherd, Theodore G. Isovortical constraints on the statistical-dynamical behaviour of strongly nonlinear two-dimensional and quasi-geostrophic flow. (see 91h:76005)
- Sirovich, Lawrence (with Knight, B. W.; Rodriguez, J. D.) Optimal low-dimensional dynamical approximations. 91g:58255
- Smith, F. T. *see* Hall, Philip, 91h:76016
- Souli, Mohammad *see* Newell, Alan C.; et al., 91h:76038
- Straughan, Brian *see* Rionero, Salvatore, 91h:76059 and Lindsay, K. A., 91j:76031
- Sulem, C. *see* Landman, Michael J.; et al., 91m:35216
- Sulem, P.-L. *see* Landman, Michael J.; et al., 91m:35216
- Sushchik, M. M. *see* Rabinovich, M. I., 91m:76061
- Szeri, Andrew J. (with Holmes, Philip) Nonlinear stability and bifurcation in Hamiltonian systems with symmetry. 91m:58089
- Taal, Wu-Ting (with Yue, Dick K. P.; Yip, Kenneth M. K.) Resonantly excited regular and chaotic motions in a rectangular wave tank. 91d:76010
- Tavellob, O. Yu. A set of stationary solutions of an evolution equation for perturbations in active-dissipative media. 91a:58137
- Tzavaras, Athanasios E. *see* Nohel, John A.; et al., 91m:76002
- Umeki, M. *see* Kambe, Tsutomu, 91c:76016
- Underhill, William B. (with Lichter, Seth; Bernoff, Andrew J.) Modulated, frequency-locked, and chaotic cross-waves. 91m:76019
- Wang, X. P. *see* Landman, Michael J.; et al., 91m:35216
- Weiss, N. O. *see* Proctor, Michael R. E., 91c:58092
- Winters, K. H. *see* Impey, M. D.; et al., 91e:76105
- Yang, Yisong Computation, dimensionality, and zero-dissipation limit of the Ginzburg-Landau wave equation. 91h:35305
- Convergence of the pseudospectral method for the Ginzburg-Landau equation. 91d:35181
- Yip, Kenneth M. K. *see* Taal, Wu-Ting; et al., 91d:76010
- Yue, Dick K. P. *see* Taal, Wu-Ting; et al., 91d:76010
- Zhak, V. I. (with Popov, S. P.) Nonlinear development of long-wave inviscid perturbations in a boundary layer. 91c:76038

76E99 None of the above, but in this section

- Akhmatov, I. Sh. Shear instability in stratified viscoelastic and gas-fluid media. 91a:76043
- Ali, Muhammad Abdallah *see* Takhar, H. S.; et al., (Not in MR)
- Bershadskii, A. G. A special case of hydrodynamic stability. (Russian) 91j:76035
- Brener, E. A. (with Levine, Herbert; Tu, Yuhai) Nonsymmetric Saffman-Taylor fingers. 91k:76073
- Buchin, V. A. Stabilization of unstable steady-state regimes of the flow of a viscous incompressible fluid around bodies. 91j:76036
- Carnevale, George F. (with Vallis, G. K.) Pseudo-advective relaxation to stable states of inviscid two-dimensional fluids. 91c:76058
- Dixon, A. A stability analysis for interfacial waves using a Zakharov equation. 91h:76068
- Fabrizant, A. L. *see* Stepan'yants, Yu. A., 91a:76045
- Grisfeld, M. A. Instabilities and waves in heterogeneous systems. 91d:76043
- Hornung, Ulrich *see* Langbein, Dieter, (91g:00045)
- Hsieh, D. Y. Kelvin-Helmholtz stability and two-phase flow. 91e:76060
- Hu, Howard H. (with Lundgren, Thomas S.; Joseph, Daniel D.) Stability of core-annular flow with a small viscosity ratio. 91h:76023
- Huerre, Patrick (with Monkewitz, Peter A.) Local and global instabilities in spatially developing flows. 91d:76044
- Jain, Rajendra Kumar *see* Subbiah, M., 91m:76056
- Joseph, Daniel D. *see* Hu, Howard H.; et al., 91h:76023
- Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.) Bifurcations of numerically simulated thermocapillary flows in axially symmetric float zones. (Not in MR)
- Khabakhpasheva, T. I. On the spectrum of an operator that arises in a problem on the stability of waves in deep water. (Russian) 91k:76074
- Kondrat'ev, B. P. * Динамика эллипсоидальных гравитирующих фигур. (Russian) [Dynamics of ellipsoidal gravitating figures] 91h:76069
- Langbein, Dieter (with Hornung, Ulrich) Liquid menisci in polyhedral containers. (see 91g:00045)
- Larson, Ronald Gary (with Shagfeh, Eric S. G.; Muller, S. J.) A purely elastic instability in Taylor-Couette flow. 91g:76043
- Léa, Joceline Forme spirale de la dislocation des ondes stationnaires. (English summary) [Spiral shape of the dislocation of standing waves] 91h:76024
- Levine, Herbert *see* Brener, E. A.; et al., 91k:76073

- Libin, A. (with Sivashinsky, Gregory I.) Long wavelength instability of the ABC-flows. 91h:76075
- Landgren, Thomas S. *see* Ha, Howard H.; et al. 91h:76023
- Makov, Yu. N. Analogy between shear flow stratification and compressibility effects in hydrodynamic stability theory. 91h:76076
- Maslov, V. P. One type of instability in hydrodynamics. (Russian) 91g:76044
- On the situation of attractor instability in hydrodynamic turbulence. 91g:76045
- Michalke, A. (with Plaschko, Peter) A note on the instability of a vortex sheet leaving a semi-infinite plate. (Russian and Polish summaries) 91h:76077
- Mikaelian, Karim O. Rayleigh-Taylor and Richtmyer-Meshkov instabilities and mixing in stratified spherical shells. 91g:76046
- Stability and mix in spherical geometry. 91e:76061
- Monkewitz, Peter A. *see* Haerle, Patrick. 91d:76044
- Muller, S. J. *see* Larsen, Ronald Gary; et al. 91g:76043
- Nohel, John A. (with Pego, Robert L.; Tzavaras, Athanasios E.) Stability of discontinuous steady states in shearing motions of a non-Newtonian fluid. 91d:76045
- Okamoto, Hisashi Degenerate bifurcations in the Taylor-Couette problem. 91h:76070
- Patra, Maria Cristina Stability questions for a third-grade fluid in exterior domains. 91d:76046
- Pego, Robert L. *see* Nohel, John A.; et al. 91d:76045
- Plaschko, Peter *see* Michalke, A. 91h:76077
- Pozrikidis, C. The instability of a moving viscous drop. 91a:76044
- Shagfeh, Eric S. G. *see* Larsen, Ronald Gary; et al. 91g:76043
- Shelley, M. J. A case of singularity formation in vortex sheet motion studied by a spectrally accurate method. 91m:76055
- Sivashinsky, Gregory I. *see* Libin, A. 91h:76075
- Soundalgekar, V. M. *see* Takhar, H. S.; et al. (Not in MR)
- Stepanyants, Yu. A. (with Fabrikant, A. L.) Propagation of waves in hydrodynamic shear flows. 91a:76045
- Subblah, M. (with Jain, Rajendra Kumar²) Stability of compressible shear flows. 91m:76056
- Sunnator, Kh. M. A case of the bifurcation of steady flows of an ideal fluid. (Russian. Uzbek summary) 91h:76042
- Takhar, H. S. (with Soundalgekar, V. M.; Ali, Muhammad Abdallah) Effects of radial temperature gradient on the stability of a narrow-gap annulus flow. (Not in MR)
- Trubachev, A. V. Stability of oscillations of a viscous liquid in a moving vessel. 91h:76062
- Tu, Yuhai *see* Brenner, E. A.; et al. 91h:76073
- Tzavaras, Athanasios E. *see* Nohel, John A.; et al. 91d:76045
- Vallis, G. K. *see* Carnevale, George F. 91c:76058
- Walgraef, D. Flow field effects on dynamical instabilities. 91e:76063
- Wilkowski, Joseph S. *see* Kazarnoff, Nicholas D. (Not in MR)
- Wilson, S. D. R. The Taylor-Saffman problem for a non-Newtonian liquid. 91h:76043
- Wu, Han Ming *see* Zhu, Ru Zeng. 91h:76025
- Xu, Shao Chang Stability theory of continuous mechanical systems and its applications. (Chinese) 91f:76034
- Zhang, Qiang Validation of the chaotic mixing renormalization group fixed point. 91j:76037
- Zhu, Ru Zeng (with Wu, Han Ming) Eigenvalue integral relation and stability condition for a mode. 91h:76025
- Items with secondary classifications in 76E99
- Alvarez, L. M. (with Ditkin, V. V.) Numerical solution of the Orr-Sommerfeld equation. (Russian) 91h:65127
- Armbruster, Dieter (with Guckenheimer, John; Kim, Seung-hwan) Chaotic dynamics in systems with square symmetry. 91g:58176
- Baldo, Sisto Minimal interface criterion for phase transitions in mixtures of Cahn-Hilliard fluids. (French summary) 91j:76005
- Becker, Janet M. (with Miles, John W.) Standing radial cross-waves. 91m:76010
- Beirão da Veiga, H. The stability of one-dimensional stationary flows of compressible viscous fluids. (French summary) 91k:35195
- Bestehorn, M. (with Friedrich, R.; Fuchs, Armin; Haken, Hermann; Kuhn, A.; Wunderlin, A.) Synergetics applied to pattern formation and pattern recognition. 91h:58169
- Boudouides, Moses A. Adiabatic circular Couette flow with temperature-dependent viscosity. 91g:76029
- Caginalp, G. The dynamics of a conserved phase field system: Stefan-like, Hele-Shaw, and Cahn-Hilliard models as asymptotic limits. 91d:35237
- Capodanno, Pierre Sur un mouvement particulier d'un profil muni d'une cavité fermée par un couvercle élastique et remplie de liquide. (English summary) [On a particular motion of a body containing a fluid-filled cavity closed by an elastic cover] 91g:73053
- Sur le problème des vibrations de deux liquides non miscibles dans un container en apesanteur. [On the problem of the vibrations of two immiscible liquids in a container in the absence of gravity] 91m:76011
- Cotsiolis, Athanasios (with Oskolkov, A. P.; Shadiev, R. D.) ★ Глобальные априорные оценки на полусферах $t \geq 0$, асимптотическая устойчивость и периодичность по времени "малых" решений уравнений движения жидкостей Олдройта и жидкостей Колманова-Фортта. (Russian) [Global a priori estimates on the half-line $t \geq 0$, asymptotic stability and time periodicity of "small" solutions of equations for the motion of Oldroyd fluids and Kelvin-Voigt fluids] 91j:76003
- Crawford, John David (with Knobloch, Edgar; Riecke, Hermann) Period-doubling mode interactions with circular symmetry. 91m:58112
- Dangelmayr, G. (with Knobloch, Edgar) Hopf bifurcation in reaction-diffusion equations with broken translation symmetry. 91d:58228
- Davis, Stephen H. Hydrodynamic interactions in directional solidification. 91a:80002
- *see also* Riley, D. S., 91c:35228 and 91m:76048
- Ditkin, V. V. *see* Alvarez, L. M., 91h:65127
- Drake, Thomas G. Granular flow: physical experiments and their implications for microstructural theories. (Not in MR)
- (Engelbrecht, Jiri K.) *see* Nonlinear waves in active media, 91h:00046
- Engelbrecht, V. *see* Parltitz, Ulrich; et al., 91h:76020
- Flinn, Robert ★ Равновесные капиллярные поверхности. (Russian) [Equilibrium capillary surfaces] 91c:53007
- Floryan, J. M. Thermocapillary effects in liquid bridges. (see 91g:00044)
- (Fomenko, A. T.) *see* Finn, Robert, 91c:53007
- Fowler, A. C. Homoclinic bifurcations for partial differential equations in unbounded domains. 91m:35042
- Friedrich, R. *see* Bestehorn, M.; et al., 91h:58169
- Fuchs, Armin *see* Bestehorn, M.; et al., 91h:58169
- Fukamoto, Yasuhide (with Miyazaki, Takeshi) Three-dimensional distortions of a vortex filament with axial velocity. 91h:76025
- Gajjar, J. S. B. Amplitude-dependent neutral modes in compressible boundary layer flows. (see 91h:76003)
- Garaiar, Xabier (with Glimm, James; Guo, W.) Elastic deformation and slug flow as applications of front tracking. 91d:73063
- Glimm, James *see* Garaiar, Xabier; et al., 91d:73063
- Gonchar, V. Ya. (with Ostapchuk, P. N.; Tur, A. V.; Yanovskii, V. V.) Dynamics and stochasticity in a reversible system describing interaction of point vortices with a potential wave. 91m:76058
- van Groesen, E. A deterministic approach towards self-organization in continuous media. 91h:76030
- Guckenheimer, John *see* Armbruster, Dieter; et al., 91g:58176
- Guo, W. *see* Garaiar, Xabier; et al., 91d:73063
- Haken, Hermann *see* Bestehorn, M.; et al., 91h:58169
- Henderson, Diane M. (with Miles, John W.) Faraday waves in 2:1 internal resonance. 91h:76017
- *see also* Becker, Janet M., 91m:76010
- Horváth, Viktor K. (with Vicssek, Tamás) Stochastic spatial behaviour in deterministic pattern formation. 91a:58172
- Igarashi, Yuichiro *see* Takimoto, Noboru; et al., 91m:76018
- Iooss, Gérard (with Los, Jérôme E.) Quasi-codimension 3 bifurcation of invariant T^2 tori for maps. 91k:58095
- Joseph, Daniel D. Hyperbolicity, change of type, wave speeds and related matters. 91a:76007
- *see also* Singh, Prashpendra, 91j:76069
- Kaptev, O. V. New solutions of two-dimensional steady Euler equations. 91h:76020
- Kesava, Kera E. (with Sheres, David) Stable gravity wave of arbitrary amplitude in finite depth. 91a:76016
- Kim, Seung-hwan *see* Armbruster, Dieter; et al., 91g:58176
- Knobloch, Edgar *see* Dangelmayr, G., 91d:58228 and Crawford, John David; et al., 91m:58112
- Kozono, Hideo (with Ozawa, Tohru) Stability in L^p for the Navier-Stokes flow in an n-dimensional bounded domain. 91k:35203
- Kuhn, A. *see* Bestehorn, M.; et al., 91h:58169
- Laedke, E. W. (with Spatschek, K. H.) On localized solutions in nonlinear Faraday resonance. 91h:76019
- Langbein, Dieter The shape and stability of liquid menisci at solid edges. 91d:76011
- Lauterborn, Werner *see* Parltitz, Ulrich; et al., 91h:76020
- Leal, L. Gary *see* Saei, Andrew J., 91m:76100
- Leibovitz, Norman R. Bifurcation and unfolding in systems with two timescales. (see 91k:85001)
- Leonard, A. *see* Rom-Kedar, V.; et al., 91d:76017
- Los, Jérôme E. *see* Iooss, Gérard, 91k:58095
- Lu, Chun Qiang Existence and bifurcation of solutions of the similarity equations for floating rectangular cavities and disks. 91h:34031
- Existence, bifurcation, and limit of solutions of the similarity equations for floating rectangular cavities and disks. 91c:34026
- Malik, David S. (with Nohel, John A.; Plohr, Bradley J.) Quadratic dynamical systems describing shear flow of non-Newtonian fluids. 91d:76002
- (Mandelrot, Benoit B.) *see* Vicssek, Tamás, 91c:82067
- Maslov, V. P. (with Omelyanov, G. A.) Lin-Lees equations for boundary layers in domains with curvilinear boundary. 91f:76047
- McCaughan, F. E. Bifurcation analysis of axial flow compressor stability. 91e:58137
- Milder, D. Michael The effects of truncation on surface-wave Hamiltonians. 91h:76014
- Miles, John W. *see* Henderson, Diane M., 91h:76017 and Becker, Janet M., 91m:76010
- Mineev, M. B. A finite polynomial solution of the two-dimensional interface dynamics. 91e:80007
- Miyazaki, Takeshi *see* Fukamoto, Yasuhide, 91h:76025
- Moffatt, H. K. Structure and stability of solutions of the Euler equations: a Lagrangian approach. 91h:76028
- Nohel, John A. *see* Malik, David S.; et al., 91d:76002
- Novick-Cohen, A. Instability of periodic states for the Sivashinsky equation. 91h:35036
- Okamoto, Hisashi On the problem of water waves of permanent configuration. 91h:76027
- Omelyanov, G. A. *see* Maslov, V. P., 91f:76047
- Oskolkov, A. P. *see* Cotsiolis, Athanasios; et al., 91j:76003
- Ostapchuk, P. N. *see* Gonchar, V. Ya.; et al., 91h:76058
- Ottino, J. M. *see* Swanson, P. D., 91h:76051
- Ozawa, Tohru *see* Kozono, Hideo, 91k:35203
- Parltitz, Ulrich (with Englisch, V.; Scheffczyk, C.; Lauterborn, Werner) Bifurcation structure of bubble oscillators. 91e:76020
- (Pelcé, Pierre) *see* Dynamics of curved fronts, 91h:76002
- Peregrine, D. H. (with Shoker, G.; Symon, A.) The bifurcation of liquid bridges. 91h:76050
- Plohr, Bradley J. *see* Malik, David S.; et al., 91d:76002
- Pozrikidis, C. The deformation of a liquid drop moving normal to a plane wall. 91d:76031
- Prakash, J. Ravi (with Rao, K. Kesava) Steady compressible flow of cohesionless granular materials through a wedge-shaped bunker. (Not in MR)
- Prosperetti, Andrea (with Satrape, James V.) Stability of two-phase flow models. 91f:76055
- Rao, K. Kesava *see* Prakash, J. Ravi, (Not in MR)
- Riecke, Hermann *see* Crawford, John David; et al., 91m:58112
- Riley, D. S. (with Davis, Stephen H.) Long-wave interactions in morphological and convective instabilities. 91m:76048

- (with Davis, Stephen H.) Long-wave morphological instabilities in the directional solidification of a dilute binary mixture. 91c:35228
- Rollins, David K. *see* Vajravelu, K., 91m:76129
- Rom-Kedar, V. (with Leonard, A.; Wiggins, S.) An analytical study of transport, mixing and chaos in an unsteady vortical flow. 91d:76017
- Rumyantsev, V. V. *see* Vladimirov, V. A., 91c:76061
- Russo, Giovanni Some remarks on the stability of shock waves. (Italian summary) 91m:76066
- Saffman, Philip G. Selection mechanisms and stability of bubbles and fingers in Hele-Shaw cells. (see 91j:00015)
- Satrape, James V. *see* Prosperetti, Andrea, 91f:76055
- Scheffczyk, C. *see* Parilits, Ulrich; et al., 91c:76020
- Shadiev, R. D. *see* Cotsiolis, Athanasios; et al., 91j:76003
- (Shapiro, Z. Ya.) *see* Finn, Robert, 91c:53007
- Shaw, Bruce E. Universality in selection with local perturbations in the Saffman-Taylor problem. 91d:76026
- Sheres, David *see* Kanyon, Kern E., 91a:76016
- Shiji, Mayumi New bifurcation diagrams in the problem of permanent progressive waves. 91b:76028
- Shoker, G. *see* Peregrine, D. H.; et al., 91b:76050
- Singh, Pashpendra (with Joseph, Daniel D.) One-dimensional, particle bed models of fluidized suspensions. 91j:76069
- Spatschek, K. H. *see* Laedke, E. W., 91k:76019
- Steindl, A. Mehrfache Hopfverzweigung eines flüssigkeitsdurchströmten, elastisch gelagerten Schlauchs unter O(2)-Symmetrie. [Multiple Hopf bifurcation of an elastically mounted hose with interior flow under O(2)-symmetry] 91k:58029
- Stuart, Andrew A note on high/low-wave-number interactions in spatially discrete parabolic equations. 91c:55000
- Swanson, P. D. (with Ottino, J. M.) A comparative computational and experimental study of chaotic mixing of viscous fluids. 91b:76051
- Symon, A. *see* Peregrine, D. H.; et al., 91b:76050
- Szori, Andrew J. (with Leal, L. Gary) The onset of chaotic oscillations and rapid growth of a spherical bubble at subcritical conditions in an incompressible liquid. 91m:76108
- Takimoto, Noboru (with Tanaka, Seiji; Igarashi, Yuichiro) Amplitude modulations in parametric amplification. 91m:76018
- Tanaka, Seiji *see* Takimoto, Noboru; et al., 91m:76018
- Tang, Yun Problems of the motion of rotating vortices in two-dimensional incompressible fluids. (Chinese) 91f:76012
- Tsvetlovskii, O. Ya. An evolution equation on perturbations in a two-layer film flow. (Not in MR)
- Tur, A. V. *see* Gonchar, V. Yu.; et al., 91m:76058
- Vajravelu, K. (with Rollins, David K.) On solutions of some unsteady flows over a continuous, moving, porous flat surface. 91m:76129
- Vicsek, Tamás ★ Fractal growth phenomena. 91c:82067
- *see also* Horváth, Viktor K., 91a:58172
- Visintin, Augusto Surface tension effects in two-phase systems. (see 91g:00044)
- Vladimirov, V. A. (with Rumyantsev, V. V.) On the inversion of the Lagrange theorem for a rigid body with a cavity containing a viscous fluid. 91c:76061
- Vogel, Thomas I. Types of instability for the trapped drop problem with equal contact angles. 91m:58032
- (Wente, Henry C.) *see* Finn, Robert, 91c:53007
- Wiggins, S. *see* Rom-Kedar, V.; et al., 91d:76017
- Wunderlin, A. *see* Bestehorn, M.; et al., 91b:58169
- Xu, Jian Jun Interfacial wave theory of solidification: dendritic pattern formation and selection of growth velocity. 91m:80009
- Yanovskii, V. V. *see* Gonchar, V. Yu.; et al., 91m:76058
- Zhou, Qing Fu Zakharov equation for surface gravity waves in shear flow. 91k:76023

Items listed otherwise than by author

Colloquium:

- Nonlinear Waves in Active Media ★ Nonlinear waves in active media. 91b:00046
- Dynamics of curved fronts ★ Dynamics of curved fronts. 91b:76002
- Nonlinear waves in active media ★ Nonlinear waves in active media. 91b:00046
- Tallin ★ Nonlinear waves in active media. 91b:00046

76Fxx Turbulence [see also 58F13, 58F27, 60Gxx, 60Jxx]

- Albrecht, G. F. *see* Canuto, V. M.; et al., (Not in MR)
- Barenblatt, G. I. On a model of laminar-turbulent transition. 91a:76046
- Battaglia, A. *see* Canuto, V. M.; et al., (Not in MR)
- Canuto, V. M. (with Harte, G. J.; Battaglia, A.; Chasnov, J.; Albrecht, G. F.) Theoretical study of turbulent channel flow: bulk properties, pressure fluctuations, and propagation of electromagnetic waves. (Not in MR)
- Carruthers, D. J. *see* Hunt, J. C. R., 91a:76047
- Chasnov, J. *see* Canuto, V. M.; et al., (Not in MR)
- Harte, G. J. *see* Canuto, V. M.; et al., (Not in MR)
- Hunt, J. C. R. (with Carruthers, D. J.) Rapid distortion theory and the "problems" of turbulence. 91a:76047

Items with secondary classifications in 76Fxx

- (Huossain, M. Y.) *see* Instability and transition, 91h:76002 and 91h:76003
- (Lamley, John L.) *see* Annual review of fluid mechanics, 91f:76001
- (Meneveau, M.) *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- (Pouquet, A.) *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- (Roe, Helen L.) *see* Annual review of fluid mechanics, 91f:76001
- (Struminskii, V. V.) *see* Mechanics of nonhomogeneous and turbulent flows, 91c:76007
- (Sumi, P.-L.) *see* Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- (Van Dyke, Milton) *see* Annual review of fluid mechanics, 91f:76001

(Voigt, Robert G.) *see* Instability and transition, 91h:76002 and 91h:76003

Items listed otherwise than by author

- Annual review of fluid mechanics ★ Annual review of fluid mechanics. Vol. 23. 91f:76001
- Cargèse ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005
- Hampton, VA ★ Instability and transition. Vol. I. 91h:76002
- ★ Instability and transition. Vol. II. 91h:76003
- Instability and transition ★ Instability and transition. Vol. I. 91h:76002
- ★ Instability and transition. Vol. II. 91h:76003
- Instability of flows and the structure of turbulence ★ Nagare no fuanetsei to ranryu no kōzo. (Japanese) [Instability of flows and the structure of turbulence] 91f:76026
- Mechanics of nonhomogeneous and turbulent flows ★ Механика неоднородных и турбулентных потоков. (Russian) [The mechanics of nonhomogeneous and turbulent flows] 91c:76007
- Symposium:
- Instability of Flows and the Structure of Turbulence ★ Nagare no fuanetsei to ranryu no kōzo. (Japanese) [Instability of flows and the structure of turbulence] 91f:76026
- Turbulence and nonlinear dynamics in MHD flows ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005
- Workshop:
- Instability and Transition ★ Instability and transition. Vol. I. 91h:76002
- ★ Instability and transition. Vol. II. 91h:76003
- Turbulence and Nonlinear Dynamics in MHD Flows ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005

76F05 Homogeneous isotropic turbulence

- Aranson, I. S. (with Rabinovich, M. I.) The renormgroup description of spatial turbulence development. 91c:76059
- Aristov, S. N. (with Frik, P. G.) Large-scale turbulence in Rayleigh-Bénard convection. 91b:76071
- Avellaneda, Marco (with Majda, Andrew J.) Mathematical models with exact renormalization for turbulent transport. 91f:76035
- Beggs, C. (with Cardot, B.; Parés, Carlos; Pironneau, Olivier) Simulation of turbulence with transient mean. 91g:76047
- Berger, Yu. A. (with Zhukov, V. P.) Effect of rotation on the convective stability of large-scale disturbances in a turbulent fluid. 91a:76048
- Bertoglio, Jean-Pierre *see* Marion, Jean-Denis; et al., 91a:76049a and 91a:76049b
- Bhattacharjee, Jayanta K. *see* Nandy, Malay K., 91k:76080
- Camargo, S. J. (with Tasso, H.) Self-similar statistics in MHD turbulence. 91c:76064
- Cambon, Claude *see* Marion, Jean-Denis; et al., 91a:76049b
- Cardot, B. *see* Beggs, C.; et al., 91g:76047
- Chechekin, V. R. (with Lutovinov, V. S.; Turygin, A. Yu.) Multifractal structure of fully developed hydrodynamic turbulence. I. Kolmogorov's third hypothesis revisited. (Not in MR)
- (with Lutovinov, V. S.; Turygin, A. Yu.) Multifractal structure of fully developed hydrodynamic turbulence. II. Intermittency effects in the distribution of passive scalar impurities. (Not in MR)
- Drummond, I. T. (with Münch, W.) Turbulent stretching of line and surface elements. 91c:76060
- (with Münch, W.) Distortion of line and surface elements in model turbulent flows. 91m:76057
- Eggers, Jens (with Grossmann, Siegfried) Origin of the Obukhov scaling relation in turbulence. 91k:76078
- Etemad, N. On curve and surface stretching in isotropic turbulent flow. 91k:76079
- Everson, R. (with Sirovich, Lawrence; Sreenivasan, K. R.) Wavelet analysis of the turbulent jet. 91c:76061
- Fan, M. S. *see* Meneveau, Charles; et al., 91b:76072
- Frik, P. G. *see* Aristov, S. N., 91b:76071
- Grossmann, Siegfried *see* Eggers, Jens, 91k:76078
- Jackson, Eric *see* She, Zhen Su; et al., 91g:76048 and (91e:00024)
- Kailasnath, P. *see* Meneveau, Charles; et al., 91b:76072
- Klüge, R. Zur Regularisierung des Systems, bestehend aus den Reynolds-Gleichungen und dem k - ϵ -Modell der Turbulenz. (English and Russian summaries) [On the regularization of the system, consisting of the Reynolds equations and the k - ϵ -model of turbulence] 91f:76036
- Knorr, G. (with Lynov, J. P.; Pécseli, H. L.) Self-organization in three-dimensional hydrodynamic turbulence. 91h:76044
- Kraichnan, Robert H. Models of intermittency in hydrodynamic turbulence. 91d:76047
- Lutovinov, V. S. *see* Chechekin, V. R.; et al., (Not in MR) and (Not in MR)
- Lynov, J. P. *see* Knorr, G.; et al., 91h:76044
- Majda, Andrew J. *see* Avellaneda, Marco, 91f:76035
- Marion, Jean-Denis (with Bertoglio, Jean-Pierre; Mathieu, Jean Emile) Spectral study of weakly compressible isotropic turbulence. I. Direct interaction approximation. (French summary) 91a:76049a
- (with Bertoglio, Jean-Pierre; Cambon, Claude; Mathieu, Jean Emile) Spectral study of weakly compressible isotropic turbulence. II. Eddy damped quasi normal Markovian closure. (French summary) 91a:76049b
- Mathieu, Jean Emile *see* Marion, Jean-Denis; et al., 91a:76049a and 91a:76049b
- Meneveau, Charles (with Sreenivasan, K. R.; Kailasnath, P.; Fan, M. S.) Joint multifractal measures: theory and applications to turbulence. 91b:76072
- Münch, W. *see* Drummond, I. T., 91c:76060 and 91m:76057
- Nandy, Malay K. (with Bhattacharjee, Jayanta K.) Self-consistent mode coupling theory of turbulence and the universal Prandtl number. 91k:76080
- Novikov, Evgeny A. The effects of intermittency on statistical characteristics of turbulence and scale similarity of breakdown coefficients. 91d:76048
- Orszag, Steven A. *see* Yakhot, V.; et al., 91d:76049; She, Zhen Su; et al., 91g:76048 and (91e:00024)
- Parés, Carlos *see* Beggs, C.; et al., 91g:76047
- Pécseli, H. L. *see* Knorr, G.; et al., 91h:76044

- Pironneau, Olivier *see* Bagne, C.; et al., 91g:76047
- Pollke, Wolfgang Statistics of helicity fluctuations in homogeneous turbulence. (Not in MR) 91g:76081
- Qian, Jian Spectral dynamics of passive scalar convected by homogeneous 2-dimensional turbulence. 91k:76081
- Rabinovich, M. I. *see* Aranson, I. S., 91c:76059
- She, Zhen Su (with Jackson, Eric; Orszag, Steven A.) Intermittency of turbulence. (see 91e:00024)
- (with Jackson, Eric; Orszag, Steven A.) Vortex structure and dynamics in turbulence. 91g:76048
- *see also* Yakhot, V.; et al., 91d:76049
- Shivamoggi, Bhimsen K. Spectral laws for the enstrophy cascade in a two-dimensional turbulence. 91f:76037
- Sirovich, Lawrence *see* Everson, R.; et al., 91c:76061
- Sreenivasan, K. R. *see* Meneveau, Charles; et al., 91b:76072 and Everson, R.; et al., 91c:76061
- Tasso, H. *see* Camargo, S. J., 91c:76064
- Thomson, David J. A stochastic model for the motion of particle pairs in isotropic high-Reynolds-number turbulence, and its application to the problem of concentration variance. 91a:76050
- Turygin, A. Yu. *see* Chechekin, V. R.; et al., (Not in MR) and (Not in MR)
- Vicelli, J. A. Dynamics of two-dimensional turbulence. 91k:76026
- Yakhot, V. (with She, Zhen Su; Orszag, Steven A.) Energy and dissipation range spectra in the inertial range of homogeneous turbulence. 91d:76049
- Yamazaki, Hidekatsu Breakage models: lognormality and intermittency. 91h:76045
- Zhukov, V. P. *see* Berezin, Yu. A., 91a:76048

Items with secondary classifications in 76F05

- Baker, Gregory R. A study of the numerical stability of the method of contour dynamics. 91j:76049
- Fortin, Michel *see* Manouzi, H., 91k:76110
- Goldenfeld, Nigel (with Martin, Olivier; Oono, Yoshitsugu) Intermediate asymptotics and renormalization group theory. 91d:82015
- Hecht, F. (with Pironneau, Olivier) On the numerical simulation of turbulent flows around vehicles. 91a:76061
- Manouzi, H. (with Fortin, Michel) A treatment of wall boundaries for turbulent flows by the use of a transmission finite element method. 91k:76110
- Martin, Olivier *see* Goldenfeld, Nigel; et al., 91d:82015
- Matthaeus, W. H. *see* Zank, G. P., 91j:76050
- Oono, Yoshitsugu *see* Goldenfeld, Nigel; et al., 91d:82015
- Pironneau, Olivier *see* Hecht, F., 91a:76061
- Stefanovich, Mircea A nonassociative algebra associated with the Froude equation. (Russian. Romanian summary) (Not in MR)
- Zank, G. P. (with Matthaeus, W. H.) The equations of nearly incompressible fluids. I. Hydrodynamics, turbulence, and waves. 91j:76050

76F10 Shear flows

- (André, J.-C.) *see* Turbulent shear flows, 91a:76051
- Chernykh, G. G. *see* Voropaeva, O. F., (Not in MR)
- (Cousteix, J.) *see* Turbulent shear flows, 91a:76051
- (Durst, F.) *see* Turbulent shear flows, 91a:76051
- (Lumley, B. E.) *see* Turbulent shear flows, 91a:76051
- Lin, J. T. C. Contributions to the understanding of large-scale coherent structures in developing free turbulent shear flows. 91g:76049
- Newell, Alan C. (with Rand, David A.; Russell, David M.) Turbulent transport and the random occurrence of coherent events. 91e:76065
- Ostrovskii, L. A. (with Tsimring, L. Sh.) Autowaves of turbulence in hydrodynamics. 91c:76062
- Rand, David A. *see* Newell, Alan C.; et al., 91e:76065
- Russell, David M. *see* Newell, Alan C.; et al., 91e:76065
- (Schmidt, F. W.) *see* Turbulent shear flows, 91a:76051
- Tsimring, L. Sh. *see* Ostrovskii, L. A., 91c:76062
- Voropaeva, O. F. (with Chernykh, G. G.) Evolution of a turbulent mixing region in a fluid with nonlinear stratification. (Russian) (Not in MR)
- (Whitelaw, J. H.) *see* Turbulent shear flows, 91a:76051

Items listed otherwise than by author

Symposium:

- Turbulent Shear Flows ★ Turbulent shear flows 6. 91a:76051
- Toulouse ★ Turbulent shear flows 6. 91a:76051
- Turbulent shear flows ★ Turbulent shear flows 6. 91a:76051

Items with secondary classifications in 76F10

- Baker, Gregory R. A study of the numerical stability of the method of contour dynamics. 91j:76049
- Barenblatt, G. I. Instability and turbulence. 91c:76042
- Choi, S.-W. *see* Goldstein, M. E., (Not in MR)
- Fitt, A. D. *see* O'Malley, K.; et al., 91k:76049
- Goldstein, M. E. (with Choi, S.-W.) Corrigendum: "Nonlinear evolution of interacting oblique waves on two-dimensional shear layers" [J. Fluid Mech. 207 (1989), 97–120; MR 90i:76092]. (Not in MR)
- Grosch, C. E. *see* Jackson, T. L., 91g:76031
- Jackson, T. L. (with Grosch, C. E.) Inviscid spatial stability of a compressible mixing layer. II. The flame sheet model. 91g:76031
- Jones, T. V. *see* O'Malley, K.; et al., 91k:76049
- Marcus, Phillip S. Vortex dynamics in a shearing zonal flow. 91c:76026
- Maslowe, Sherwin A. Waves in shear flows. 91c:76055
- Ockendon, J. R. *see* O'Malley, K.; et al., 91k:76049
- O'Malley, K. (with Fitt, A. D.; Jones, T. V.; Ockendon, J. R.; Wilmott, P.) Models for high-Reynolds-number flow down a step. 91k:76049

- Peltier, W. R. *see* Smyth, W. D., 91g:76033
- Smyth, W. D. (with Peltier, W. R.) Three-dimensional primary instabilities of a stratified, dissipative, parallel flow. 91g:76033
- Wilmott, P. *see* O'Malley, K.; et al., 91k:76049
- Zhou, Zhe Wei On the stability of distorted laminar flow. I. Basic ideas and theory. 91c:76053

76F20 Turbulence via chaos techniques

- Bhat, G. S. (with Narasimha, R.; Wiggins, S.) A simple dynamical system that mimics open-flow turbulence. 91k:76027
- Chernikov, Aleksandr Antonovich (with Sagdeev, R. Z.; Zaslavskii, G. M.) Fluid webs with Lagrangian chaos and intermittency. (see 91k:76005)
- Danielson, T. J. (with Ottino, J. M.) Structural stability in two-dimensional model flows: Lagrangian and Eulerian turbulence. 91k:76028
- Dresselhaus, E. (with Tabor, Michael) The geometry of Lagrangian orbits. (see 91k:76005)
- Eckhardt, Bruno Lagrangian chaos and transport of scalars. (see 91k:76005)
- Fitzmaurice, N. *see* Platt, N.; et al., 91m:76060
- Gertsenshtein, S. Ya. (with Rodichev, E. B.) Models of transition to turbulence in the case of convective instability. (Russian) 91k:76066
- Gharib, M. *see* Williams-Stuber, K., 91k:76086
- Gukhovskii, A. B. Modeling of two-dimensional turbulence effects in a cascaded system of coupled gyrostats. 91k:76082
- Glyzla, S. D. Numerical justification of the Landau-Kolesov conjecture on the nature of turbulence. (Russian. English and Lithuanian summaries) 91g:76050
- Gonchar, V. Yu. (with Ostapchuk, P. N.; Tur, A. V.; Yanovskii, V. V.) Dynamics and stochasticity in a reversible system describing interaction of point vortices with a potential wave. 91m:76058
- Grappin, Roland (with Léorat, Jacques) Lyapunov exponents and the dimension of periodic incompressible Navier-Stokes flows: numerical measurements. 91k:76083
- Jiang, Zong Fu (with Ma, Ben Kun; Yang, Li Jia) The Landau-Hopf route to chaos. (Chinese. English summary) 91k:76084
- Kimura, Yoshifumi *see* Okamoto, Hisashi, (91k:76005)
- Léorat, Jacques *see* Grappin, Roland, 91k:76083
- Ma, Ben Kun *see* Jiang, Zong Fu; et al., 91k:76084
- Mallinetski, G. G. (with Potapov, A. B.; Primitak, V. G.) Geometric and statistical characteristics of an attractor of Navier-Stokes equations for turbulent flows of a viscous fluid in a circular pipe. (Russian. English summary) 91k:76085
- Massaguer, Josep M. *see* Mercader, Isabel; et al., 91g:76051
- Mercader, Isabel (with Massaguer, Josep M.; Net, Marta) Hysteresis in a transition to chaos. 91g:76051
- Narasimha, R. *see* Bhat, G. S.; et al., 91k:76027
- Net, Marta *see* Mercader, Isabel; et al., 91g:76051
- Nicolaenko, Basil (with She, Zhen Su) Coherent structures, homoclinic cycles and vorticity explosions in Navier-Stokes flows. (see 91k:76005)
- Okamoto, Hisashi (with Kimura, Yoshifumi) Chaotic advection by a point vortex in a semidisk. (see 91k:76005)
- Ostapchuk, P. N. *see* Gonchar, V. Yu.; et al., 91m:76058
- Ottino, J. M. Mixing, chaotic advection, and turbulence. 91c:76067
- Kinematics of chaotic mixing: experimental and computational results. (see 91k:76005)
- *see also* Danielson, T. J., 91k:76028
- Petrovich, B. A. (with Rogalskii, A. V.; Sagdeev, R. Z.; Zaslavskii, G. M.) Stochastic jets and nonhomogeneous transport in Lagrangian turbulence. 91m:76059
- Platt, N. (with Sirovich, Lawrence; Fitzmaurice, N.) An investigation of chaotic Kolmogorov flows. 91m:76060
- Polvani, L. M. (with Wisdom, J.) On chaotic flow around the Kida vortex. (see 91k:76005)
- Potapov, A. B. *see* Mallinetski, G. G.; et al., 91k:76085
- Primitak, V. G. *see* Mallinetski, G. G.; et al., 91k:76085
- Rabinovich, M. I. (with Sushchik, M. M.) The regular and chaotic dynamics of structures in fluid flows. 91k:76061
- Rodichev, E. B. *see* Gertsenshtein, S. Ya., 91k:76066
- Rogalskii, A. V. *see* Petrovich, B. A.; et al., 91m:76059
- Sagdeev, R. Z. *see* Petrovich, B. A.; et al., 91m:76059 and Chernikov, Aleksandr Antonovich; et al., (91k:76005)
- She, Zhen Su *see* Nicolaenko, Basil, (91k:76005)
- Sirovich, Lawrence *see* Platt, N.; et al., 91m:76060
- Skobelev, B. Yu. *see* Struminskii, V. V., 91g:76052
- Struminskii, V. V. (with Skobelev, B. Yu.) Strange attractors and turbulence. (Russian) 91g:76052
- Sushchik, M. M. *see* Rabinovich, M. I., 91m:76061
- Tabor, Michael *see* Dresselhaus, E., (91k:76005)
- Tur, A. V. *see* Gonchar, V. Yu.; et al., 91m:76058
- Wiggins, S. *see* Bhat, G. S.; et al., 91k:76027
- Williams-Stuber, K. (with Gharib, M.) Transition from order to chaos in the wake of an airfoil. 91k:76086
- Wisdom, J. *see* Polvani, L. M., (91k:76005)
- Yang, Li Jia *see* Jiang, Zong Fu; et al., 91k:76084
- Yanovskii, V. V. *see* Gonchar, V. Yu.; et al., 91m:76058
- Zaslavskii, G. M. *see* Petrovich, B. A.; et al., 91m:76059 and Chernikov, Aleksandr Antonovich; et al., (91k:76005)

Items with secondary classifications in 76F20

- Afendikov, A. L. (with Rakhmanov, A. I.) Attractors of the Navier-Stokes system in two-dimensional problems. (Russian) 91k:35250
- Aref, Hassan (with Jones, S. W.; Moffat, S.; Zawadzki, I.) Vortices, kinematics and chaos. 91k:76009
- Bartuccelli, Michele (with Constantin, Peter; Doering, Charles R.; Gibbon, John D.; Gisselbalt, Magnus) Hard turbulence in a finite-dimensional dynamical system? 91k:58167

- (with Constantin, Peter; Doering, Charles R.; Gibbon, John D.; Gisselbalt, Magnus) Errata: "Hard turbulence in a finite-dimensional dynamical system?" [Phys. Lett. A 142 (1989), no. 6-7, 349-356; MR 91e:58167]. 91e:58168
- Belyaev, Ya. N. (with Yavorskaya, I. M.) Problems of stability and the origin of chaos in closed hydrodynamic flows. (Russian) 91e:76003
- Berk, H. L. see Duxas, L.; et al., 91e:76050
- Bernoff, Andrew J. see Underhill, William B.; et al., 91m:76019
- Buti, B. see Hada, T.; et al., 91h:76084
- Cheng, Chong Qing Hopf-Landau bifurcations of higher-dimensional tori. 91h:58096
- Constantin, Peter Navier-Stokes equations and area of interfaces. 91h:35148
- see also Bartuccelli, Michele; et al., 91e:58167 and 91e:58168
- Deane, Anil E. (with Sirovich, Lawrence) A computational study of Rayleigh-Bénard convection. I. Rayleigh-number scaling. 91m:76046a
- see also Sirovich, Lawrence, 91m:76046b
- Doering, Charles R. see Bartuccelli, Michele; et al., 91e:58167 and 91e:58168
- Duxas, L. (with Horton, Claude Wendell, Jr.; Berk, H. L.) Stochastic diffusion in two-dimensional periodic flows. 91e:76050
- Eden, Alp On Burgers' original mathematical model of turbulence. 91h:35280
- Eggers, Jens (with Grossmann, Siegfried) Origin of the Obukhov scaling relation in turbulence. 91h:76078
- Engelich, V. see Parltitz, Ulrich; et al., 91e:76020
- Finigan, J. J. Streamline coordinates, moving frames, chaos and integrability in fluid flow. (see 91h:76005)
- Gibbon, John D. see Bartuccelli, Michele; et al., 91e:58167 and 91e:58168
- Gisselbalt, Magnus see Bartuccelli, Michele; et al., 91e:58167 and 91e:58168
- Grossmann, Siegfried see Eggers, Jens, 91h:76078
- Gurzhi, A. A. see Meleshko, V. V.; et al., 91h:76012
- Hada, T. (with Kennel, C. F.; Buti, B.; Mjølhus, Einar) Chaos in driven Alfvén systems. 91h:76084
- Horton, Claude Wendell, Jr. see Duxas, L.; et al., 91e:76050
- Hussain, Fazle see Kunia, I.; et al., 91g:76016
- Jones, S. W. see Aref, Hassan; et al., 91h:76009
- Kennel, C. F. see Hada, T.; et al., 91h:76084
- Konstantinov, M. Ya. see Meleshko, V. V.; et al., 91h:76012
- Kovich, D. see Kunia, I.; et al., 91h:76016
- Kunia, I. (with Hussain, Fazle; Zhou, Xiaoliang; Kovich, D.) Dynamics of point vortices in a special rotating frame. 91g:76016
- Lauterborn, Werner see Parltitz, Ulrich; et al., 91e:76020
- Leonard, A. see Rom-Kedar, V.; et al., 91d:76017
- Lichter, Seth see Underhill, William B.; et al., 91m:76019
- Maslov, V. P. On the situation of attractor instability in hydrodynamic turbulence. 91g:76045
- Massaguer, Josep M. (with Mercader, Isabel; Net, Marta) Nonlinear dynamics of vertical vorticity in low-Prandtl-number thermal convection. 91d:76036
- Meleshko, V. V. (with Konstantinov, M. Ya.; Gurzhi, A. A.) Ordered and chaotic motion in the dynamics of three coaxial vortex rings. (Russian) 91h:76012
- Mercader, Isabel see Massaguer, Josep M.; et al., 91d:76036
- Mjølhus, Einar see Hada, T.; et al., 91h:76084
- (Moffatt, H. K.) see Topological fluid mechanics, 91h:76005
- Molina, S. see Aref, Hassan; et al., 91h:76009
- Moore, D. R. (with Weiss, N. O.; Wilkins, J. M.) The reliability of numerical experiments: transitions to chaos in thermolutal convection. 91h:76037
- (with Weiss, N. O.) Dynamics of double convection. 91m:76110
- Nayfeh, Ali Hasan (with Nayfeh, J. F.) Surface waves in closed basins under principal and autoparametric resonances. 91e:76007
- Nayfeh, J. F. see Nayfeh, Ali Hasan, 91e:76007
- Net, Marta see Massaguer, Josep M.; et al., 91d:76036
- Newell, Alan C. (with Rand, David A.; Russell, David M.) Turbulent transport and the random occurrence of coherent events. 91e:76065
- Novikov, Evgeny A. Chaotic vortex-body interaction. 91m:76024
- Osborne, A. R. see Provenzale, A.; et al., (Not in MR)
- Parltitz, Ulrich (with Englisch, V.; Scheffczyk, C.; Lauterborn, Werner) Bifurcation structure of bubble oscillators. 91e:76020
- Provenzale, A. (with Osborne, A. R.; Soj, R.) Convergence of the K_2 entropy for random noises with power law spectra. (Not in MR)
- Rakmanov, A. I. see Afendikov, A. L., 91h:35250
- Rand, David A. see Newell, Alan C.; et al., 91e:76065
- Rom-Kedar, V. (with Leonard, A.; Wiggins, S.) An analytical study of transport, mixing and chaos in an unsteady vortical flow. 91d:76017
- Russell, David M. see Newell, Alan C.; et al., 91e:76065
- Sagdeev, R. Z. see Zaslavskii, G. M., 91d:58062
- Scheffczyk, C. see Parltitz, Ulrich; et al., 91e:76020
- Shih, Wei Structure of an adaptive grid computational method from the viewpoint of dynamic chaos. (Not in MR)
- Sirovich, Lawrence (with Deane, Anil E.) A computational study of Rayleigh-Bénard convection. II. Dimension considerations. 91m:76046b
- see also Deane, Anil E., 91m:76046a
- Soj, R. see Provenzale, A.; et al., (Not in MR)
- Temam, Roger Inertial manifolds. 91h:58087
- Tsai, Wu-Ting (with Yue, Dick K. P.; Yip, Kenneth M. K.) Resonantly excited regular and chaotic motions in a rectangular wave tank. 91d:76010
- (Tsinober, A.) see Topological fluid mechanics, 91h:76005
- Underhill, William B. (with Lichter, Seth; Bernoff, Andrew J.) Modulated, frequency-locked, and chaotic cross-waves. 91m:76019
- Weiss, N. O. see Moore, D. R.; et al., 91h:76037 and 91m:76110
- Wiggins, S. see Rom-Kedar, V.; et al., 91d:76017
- Wilkins, J. M. see Moore, D. R.; et al., 91h:76037
- Yavorskaya, I. M. see Belyaev, Ya. N., 91e:76003
- Yip, Kenneth M. K. see Tsai, Wu-Ting; et al., 91d:76010
- Yue, Dick K. P. see Tsai, Wu-Ting; et al., 91d:76010
- Zaslavskii, G. M. (with Sagdeev, R. Z.) * Введение в нелинейную физику. (Russian) [Introduction to nonlinear physics] 91d:58062
- Zawadzki, I. see Aref, Hassan; et al., 91h:76009
- Zhou, Xiaoliang see Kunia, I.; et al., 91g:76016
- Items listed otherwise than by author
- Cambridge ★ Topological fluid mechanics. 91h:76005
- IUTAM Symposium: Topological Fluid Mechanics ★ Topological fluid mechanics. 91h:76005
- Topological fluid mechanics ★ Topological fluid mechanics. 91h:76005

76F99 None of the above, but in this section

- Balk, A. M. (with Nazarenko, S. V.; Zakharov, V. E.) On the nonlocal turbulence of drift type waves. 91h:76088
- (with Nazarenko, S. V.) Physical realizability of anisotropic weak-turbulence Kolmogorov spectra. 91h:76087
- Caponio, R. see Osborne, A. R., 91h:76054
- Chacón Rebollo, Tomás see Couce Calvo, Julio; et al., (91j:00015) and (91j:00015)
- Cheng, Tsu-Kuang see Liu, Shi Da, 91h:76053
- Chorin, Alexandre Joel Vortex filaments and turbulence theory. (see 91h:76005)
- Constrained random walks and vortex filaments in turbulence theory. 91h:76038
- Couce Calvo, Julio (with Chacón Rebollo, Tomás; Echevarría, M. R.; Fernández Cara, E.; Martín, J. D.; Ortégón, F.) An asymptotic model for describing turbulence in a boundary layer. (Spanish) (see 91j:00015)
- (with Chacón Rebollo, Tomás; Echevarría, M. R.; Fernández Cara, E.; Martín, J. D.; Ortégón, F.) Asymptotic models and numerical treatment of turbulence for compressible fluids. (Spanish) (see 91j:00015)
- D'Ambrogio, Enzo Duffing-like behavior in extended turbulence mode models. 91h:76029
- Dubovikov, M. M. Quantum field theory methods in turbulence theory. (Russian) (see 91h:00025)
- Echevarría, M. R. see Couce Calvo, Julio; et al., (91j:00015) and (91j:00015)
- Fernández Cara, E. see Couce Calvo, Julio; et al., (91j:00015) and (91j:00015)
- Glimm, James (with Sharp, David H.) Chaotic mixing as a renormalization-group fixed point. 91a:76052
- Grubner, V. N. Solvability of the problem of development of a region of turbulent homogeneous fluid. (Russian) 91h:76046
- Grigor'ev, Yu. N. (with Levinskii, V. B.; Nartov, V. P.) Variational models of organized vorticity in turbulent flows in an approximation of Euler and Navier-Stokes equations. (Russian) (see 91e:76007)
- Hossain, Murshed see Zhou, Ye; et al., 91h:76091
- Howard, Louis N. Limits on transport of heat and momentum by turbulent convection with large-scale flow. 91h:76047
- Huang, Ya Dung see Huang, Yong Nian², (91h:00048)
- Huang, Yong Nian² (with Huang, Ya Dong) On the transition to turbulence in a pipe flow. (see 91h:00048)
- Hunt, J. C. R. see Kida, Shigeo, 91h:76073
- Jacobs, S. J. On the equations of mathematical hydraulics. 91h:76048
- Kader, B. A. (with Yaglom, A. M.) Mean fields and fluctuation moments in unstably stratified turbulent boundary layers. (Not in MR)
- Kernévez, J.-P. see Luce, R., (91m:58001)
- Kida, Shigeo (with Hunt, J. C. R.) Interaction between different scales of turbulence over short times. 91h:76073
- (with Orszag, Steven A.) Enstrophy budget in decaying compressible turbulence. 91h:76089
- Korolkov, M. D. see Silant'ev, N. A., 91e:76063
- Levinskii, V. B. see Grigor'ev, Yu. N.; et al., (91e:76007)
- Liu, Shi Da (with Cheng, Tsu-Kuang) A nonlinear mechanism producing atmospheric turbulence. 91a:76053
- Luce, R. (with Kernévez, J.-P.) Controllability of Lorenz equation. (see 91m:58001)
- Lund, Thomas S. Application of the algebraic RNG model for transition simulation. (see 91h:76003)
- see also Plomelli, Ugo; et al., (91h:76003)
- Martin, J. D. see Couce Calvo, Julio; et al., (91j:00015) and (91j:00015)
- Murometz, Yitzhak (with Razboynick, Solomon) Integrability in models of two-dimensional turbulence. 91h:76090
- Nartov, V. P. see Grigor'ev, Yu. N.; et al., (91e:76007)
- Nazarenko, S. V. see Balk, A. M., 91h:76087 and 91h:76088
- Orszag, Steven A. see Kida, Shigeo, 91h:76089
- Ortégón, F. Structural properties of the closure terms of the MPP turbulence model. (Spanish) (see 91j:00015)
- see also Couce Calvo, Julio; et al., (91j:00015) and (91j:00015)
- Osborne, A. R. (with Caponio, R.) Fractal trajectories and anomalous diffusion for chaotic particle motions in 2D turbulence. 91a:76054
- Park, Hwasin (with Sirovich, Lawrence) Turbulent thermal convection in a finite domain. II. Numerical results. 91g:76054
- see also Sirovich, Lawrence, 91g:76053
- Plomelli, Ugo (with Zang, Thomas A.; Speziale, Charles G.; Lund, Thomas S.) Application of renormalization group theory to the large-eddy simulation of transitional boundary layers. (see 91h:76003)
- Plekhotnikov, K. E. A mathematical model of turbulent fluid flow. (Russian) 91h:76068
- Pomeau, Yves Transition to turbulence in open flows. A "metaphoric" approach. 91a:76055
- Primack, V. G. Results and possibilities of direct numerical modeling of turbulent flows of a viscous fluid in a circular pipe. (Not in MR)
- Razboynick, Solomon see Murometz, Yitzhak, 91h:76090
- Robert, Raoul États d'équilibre statistique pour l'écoulement bidimensionnel d'un fluide parfait. (English summary) [Statistical equilibrium states in two-dimensional perfect fluid dynamics] 91h:76049
- Sagdeev, R. Z. (with Tur, A. V.; Yanovskii, V. V.) Construction of frozen-in integrals, Lagrangian and topological invariants in hydrodynamical models. (see 91h:76005)

- Sharp, David H. *see* Glimm, James, 91a:76052
- Silant'ev, N. A. (with Korolkov, M. D.) Diffusion of a scalar field in a compressible turbulent medium. (German summary) 91c:76063
- Silva-Freire, A. P. On the matching conditions for a two-deck compressible turbulent boundary layer model. 91c:76064
- Sirovich, Lawrence (with Park, Hwasin) Turbulent thermal convection in a finite domain. I. Theory. 91g:76053
- *see also* Park, Hwasin, 91g:76054
- Speziale, Charles G. *see* Pionelli, Ugo, et al., (91b:76003)
- Struminskii, V. V. On the kinetic theory of turbulence. (Russian) 91g:76055
- Tur, A. V. *see* Sagdeev, R. Z.; et al., (91b:76005)
- Vahala, George *see* Zhou, Ye; et al., 91k:76091
- Yaglom, A. M. *see* Kader, B. A., (Not in MR)
- Yanovskii, V. V. *see* Sagdeev, R. Z.; et al., (91b:76005)
- Zakharov, V. E. *see* Balk, A. M.; et al., 91k:76088
- Zang, Thomas A. *see* Pionelli, Ugo; et al., (91b:76003)
- Zhou, Ye (with Vahala, George; Hossain, Murshed) Renormalized eddy viscosity and Kolmogorov's constant in forced Navier-Stokes turbulence. 91k:76091
- Items with secondary classifications in 76F99
- Afraimovich, V. S. (with Pesin, Ya. B.) Hyperbolicity of infinite-dimensional drift systems. 91c:58103
- Araonson, I. S. (with Rabinovich, M. I.) Dynamics of spiral waves in nonequilibrium media. 91b:82046
- Arcilla, A. S. (with Lemos, C. M.) ★ Surf-zone hydrodynamics. 91m:76009
- Banks, W. H. H. *see* Watson, E. B. B.; et al., 91a:76038
- Bartuccelli, Michele (with Constantin, Peter; Doering, Charles R.; Gibbon, John D.; Gisselält, Magnus) Hard turbulence in a finite-dimensional dynamical system? 91c:58167
- (with Constantin, Peter; Doering, Charles R.; Gibbon, John D.; Gisselält, Magnus) On the possibility of soft and hard turbulence in the complex Ginzburg-Landau equation. 91c:58134
- (with Constantin, Peter; Doering, Charles R.; Gibbon, John D.; Gisselält, Magnus) Errata: "Hard turbulence in a finite-dimensional dynamical system?" [Phys. Lett. A 142 (1989), no. 6-7, 349-356; MR 91c:58167]. 91c:58168
- Bloch, Anthony M. (with Marsden, Jerrold E.) Control and stabilization of systems with homoclinic orbits. 91a:93050
- Boughton, B. A. *see* DeLaurentis, J. M., 91d:34056
- Causagnac, Philippe (with Touzani, Rachid) Solution of three-dimensional boundary layer equations by a discontinuous finite element method. II. Implementation and numerical results. 91j:76044
- Chhabra, Ashvin B. *see* Meneveau, Charles, 91d:58158
- Cherai, Alexandre Joel Hairpin removal in vortex interactions. 91h:76062
- Constantin, Peter *see* Bartuccelli, Michele; et al., 91c:58167; 91c:58168 and 91c:58134
- DeLaurentis, J. M. (with Boughton, B. A.) An asymptotic analysis of a generalized Langevin equation. 91d:34056
- Doering, Charles R. *see* Bartuccelli, Michele; et al., 91c:58167; 91c:58168 and 91c:58134
- Drazin, P. G. *see* Watson, E. B. B.; et al., 91a:76038
- Fan, M. S. *see* Meneveau, Charles; et al., 91b:76072
- Gavriluk, S. L. A remark on V. P. Maslov's work on asymptotic solutions of equations of a viscous incompressible fluid and a viscous barotropic gas. 91b:76036
- Gibbon, John D. *see* Bartuccelli, Michele; et al., 91c:58167; 91c:58168 and 91c:58134
- Gisselält, Magnus *see* Bartuccelli, Michele; et al., 91c:58167; 91c:58168 and 91c:58134
- Guan, Ke Ying Static solutions of mixed Burgers-KdV equation. II. 91k:35226
- Halsey, Thomas C. *see* Lee, Sung Jung, 91d:58157
- Hunt, J. C. R. (with Hussain, Fazle) Helicity associated with flow around fluid lumps and with inhomogeneous turbulence. (see 91b:76005)
- Hussain, Fazle *see* Hunt, J. C. R., (91b:76005)
- Isola, Stefano *see* Ruelle, David, 91d:58169
- Kalliasnath, P. *see* Meneveau, Charles; et al., 91b:76072
- Landman, Michael J. On the generation of helical waves in circular pipe flow. 91a:76034
- Lee, Sung Jung (with Halsey, Thomas C.) Some results on multifractal correlations. 91d:58157
- Lemos, C. M. *see* Arcilla, A. S., 91m:76009
- Lykosov, V. N. ★ K-теория турбулентного планетарного пограничного слоя атмосферы и обобщенная гипотеза Буссинеска. (Russian) [K-theory of a turbulent planetary atmospheric boundary layer and the generalized Boussinesq conjecture] 91b:86007
- Marsden, Jerrold E. *see* Bloch, Anthony M., 91a:93050
- Maslov, V. P. (with Omel'yanov, G. A.) Asymptotic solution of equations in two-fluid magnetohydrodynamics with large Reynolds numbers, and the turbulent dynamo effect. (Russian) 91c:76123
- McCauley, Joseph L. Introduction to multifractals in dynamical systems theory and fully developed fluid turbulence. 91k:82040b
- McLaughlin, David W. (with Pironneau, Olivier) Some notes on periodic Beltrami fields in Cartesian geometry. 91m:76023
- Meneveau, Charles (with Chhabra, Ashvin B.) Two-point statistics of multifractal measures. 91d:58158
- (with Sreenivasan, K. R.; Kalliasnath, P.; Fan, M. S.) Joint multifractal measures: theory and applications to turbulence. 91b:76072
- Meyer, Friedrich ★ Numerische Simulation der Transition in dreidimensionalen Grenzschichten. (German) [Numerical simulation of transition in three-dimensional boundary layers] 91c:76091
- Mikaelian, Karnig O. Rayleigh-Taylor and Richtmyer-Meshkov instabilities and mixing in stratified spherical shells. 91g:76046
- Stability and mix in spherical geometry. 91c:76061
- Moffatt, H. K. On the existence, structure and stability of MHD equilibrium states. 91m:76128
- Omel'yanov, G. A. *see* Maslov, V. P., 91c:76123
- Papanicolaou, George (with Sulem, C.; Sulem, P.-L.; Wang, X. P.) Singular solutions of the Zakharov equations for Langmuir turbulence. 91k:76159

- Pesin, Ya. B. *see* Afraimovich, V. S., 91c:58103
- Pironneau, Olivier *see* McLaughlin, David W., 91m:76023
- Ponce Dawson, Silvina A model of Alfvén turbulence. 91c:76128
- Rabinovich, M. I. *see* Araonson, I. S., 91b:82046
- Roberts, A. J. The utility of an invariant manifold description of the evolution of a dynamical system. 91c:58088
- Rodriguez, J. D. (with Schell, Mark) Global bifurcations into chaos in systems with SO(2) symmetry. 91b:58162
- Ruelle, David ★ Chaotic evolution and strange attractors. 91d:58169
- Is there screening in turbulence? 91k:82060
- Saffman, Philip G. A model of vortex reconnection. 91a:76032
- Schell, Mark *see* Rodriguez, J. D., 91b:58162
- Sherashkov, V. V. *see* Takvitinidze, Z. I., 91m:86006
- Sirovich, Carole H. *see* Sirovich, Lawrence, 91a:58122
- Sirovich, Lawrence (with Sirovich, Carole H.) Low-dimensional description of complicated phenomena. 91a:58122
- Sreenivasan, K. R. *see* Meneveau, Charles; et al., 91b:76072
- Sulem, C. *see* Papanicolaou, George; et al., 91k:76159
- Sulem, P.-L. *see* Papanicolaou, George; et al., 91k:76159
- Swaters, Gordon E. Dynamical characteristics of decaying Lamb couples. 91m:76032
- Temam, Roger Do inertial manifolds apply to turbulence? 91a:58111
- Touzani, Rachid *see* Causagnac, Philippe, 91j:76044
- Takvitinidze, Z. I. (with Sherashkov, V. V.) Application of asymptotic methods to nonadiabatic hydrodynamic models. 91m:86006
- Wang, X. P. *see* Papanicolaou, George; et al., 91k:76159
- Watson, E. B. B. (with Banks, W. H. H.; Zaturka, M. B.; Drazin, P. G.) On transition to chaos in two-dimensional channel flow symmetrically driven by accelerating walls. 91a:76038
- Young, A. D. ★ Boundary layers. 91b:76014
- Zaturka, M. B. *see* Watson, E. B. B.; et al., 91a:76038

76G25 General aerodynamics and subsonic flows

- Boussquet, J. ★ Méthode des singularités. (French) [The method of singularities] 91b:76050
- Brandão, Mauricio P. Towards the unification of acoustics and fluid mechanics. 91b:76051
- Carabineanu, A. *see* Dragoș, Lazăr, 91h:76052
- Casciola, C. M. (with Lancia, M. R.) A variational approach for boundary integral equations in potential aerodynamics. (Italian summary) 91d:76050
- Dinu, A. *see* Dragoș, Lazăr, 91h:76092
- Dragoș, Lazăr (with Carabineanu, A.) On steady subsonic flow past slender bodies of revolution. 91h:76052
- (with Dinu, A.) Application of the boundary integral equation methods to subsonic flow past bodies and wings. 91h:76092
- Elizarov, A. M. (with Fokin, D. A.) Design of airfoils stall-free on a given range of angles of attack. (Not in MR)
- (with Fedorov, E. V.) Optimization of aerodynamic forms by the method of inverse boundary value problems. (Russian) 91m:76062
- (with Fedorov, E. V.) Optimization of the form of wing profiles by the method of inverse boundary value problems. (Russian) (Not in MR)
- Fedorov, E. V. *see* Elizarov, A. M., 91m:76062 and (Not in MR)
- Fokin, D. A. *see* Elizarov, A. M., (Not in MR)
- Iacob, Călin On gas jets with a prescribed compressibility law. 91g:76056
- Lancia, M. R. *see* Casciola, C. M., 91d:76050
- Wohlhart, M. The extended lifting line theory for systems of sails. (see 91g:00040)

Items with secondary classifications in 76G25

- Arumugam, G. (with Pironneau, Olivier) The problem of "riblets". (Russian) 91g:76028
- Aslanov, S. K. On the solution of problems for flows [around airfoils moving] with the speed of sound. (Russian) 91h:76074
- Blertman, Michael B. *see* Young, David P.; et al., 91k:76115
- Barisov, Adriyan V. (with Karamychev, V. B.) A higher-order scheme for solving stationary problems in aerodynamics. (Russian) (Not in MR)
- Bussolotti, John E. *see* Young, David P.; et al., 91k:76115
- Buzhinskii, V. A. Vortex resistance of a plate under vibrations in a low-viscosity fluid. 91d:73050
- Chaikovskii, M. V. *see* Denisenko, N. V.; et al., 91k:73082
- Charakhch'yan, A. A. *see* Goncharov, V. A.; et al., 91c:76079
- Daneer, A. V. *see* Panchenko, A. N.; et al., 91k:93003
- Denisenko, N. V. (with Lozhechnik, F. D.; Chaikovskii, M. V.) An algorithm for the numerical solution of integro-differential equations in aeroelasticity that takes into account singularities of the kernels of the integral operator. (Russian. English summary) 91k:73082
- Dumitrache, Al. *see* Dumitrescu, H.; et al., 91h:76043
- Dumitrescu, H. (with Georgescu, Adelina; Dumitrache, Al.) Boundary layer separation. I. Bubbles on leading edges. 91h:76043
- Egurov, Aleksandr Ivanovich (with Kogut, P. I.) Stability with respect to the state of a system of integro-differential equations of nonstationary aero-elasticity. (Russian) 91m:73057
- Fedunov, B. E. Maximally fast braking of an object which performs a controlled motion under the action of forces of aerodynamic resistance and gravity. (Russian) (Not in MR)
- Feistauer, Miroslav Nonlinear elliptic problems with incomplete Dirichlet conditions and the stream function solution of subsonic rotational flows past profiles or cascades of profiles. (Russian and Czech summaries) 91d:35080
- Gaynor, G. N. On the tension of a soft shell under aerodynamic loading. (Not in MR)
- Georgescu, Adelina *see* Dumitrescu, H.; et al., 91h:76043
- Gharib, M. *see* Williams-Stuber, K., 91k:76086
- Goncharov, V. A. (with Krivtsov, V. M.; Charakhch'yan, A. A.) A numerical scheme for modeling subsonic flows of a viscous compressible gas. 91c:76079
- Galín, B. V. *see* Ridel, V. V., 91k:73029

- Guo, Qian Rong. The Hopf bifurcation of hybrid dynamical systems. 91c:58092
- Hecht, F. (with Pironneau, Olivier) On the numerical simulation of turbulent flows around vehicles. 91a:76061
- Jameson, Antony. Aerodynamic design via control theory. 91d:49046
- Johnson, Forrester T. see Young, David P.; et al., 91k:76115
- Kaptsor, O. V. Exact solutions of equations of the axisymmetric flow of an ideal gas. (Russian) 91j:76052
- Karamychev, V. B. see Borisov, Adriyan V., (Not in MR)
- Kogut, P. I. see Egorov, Aleksandr Ivanovich, 91m:73057
- Kozlov, Valerii V. On a problem of a heavy rigid body falling in a resisting medium. (Russian) 91m:76041
- Krivtsov, V. M. see Goncharov, V. A.; et al., 91e:76079
- Kroil, Norbert. * Berechnung von Strömungsfeldern um Propeller und Rotoren im Schwebeflug durch die Lösung der Euler-Gleichungen. (German) [Computation of flow fields around propellers and hovering rotors based on the solution of Euler equations] 91h:76083
- Lia, Ari. Solving numerically the Navier-Stokes equations on parallel systems. 91c:76090
- Lazhechnik, F. D. see Denisenko, N. V.; et al., 91k:73082
- Lupu, Mircea. L'étude du mouvement des fluides en présence de corps rallongés dans le cas plan ou axial symétrique en utilisant des transformations quasi-conformes. (Romanian summary) [Study of fluid flow in the presence of elongated bodies in the planar or axial symmetric case using quasiconformal transformations] 91h:76014
- Melvin, Robin G. see Young, David P.; et al., 91k:76115
- de Mestre, Neville. * The mathematics of projectiles in sport. 91f:70005
- Meyer, Friedrich. * Numerische Simulation der Transition in dreidimensionalen Grenzschichten. (German) [Numerical simulation of transition in three-dimensional boundary layers] 91c:76091
- Munt, R. M. Acoustic transmission properties of a jet pipe with subsonic jet flow. I. The cold jet reflection coefficient. 91f:76059
- Neshcheret, V. I. see Panchenko, A. N.; et al., 91k:93003
- Orellana, O. F. On some analytic and computational aspects of two-dimensional vortex sheet evolution. 91f:76011
- Panchenko, A. N. (with Ruzhnikov, G. M.; Daneev, A. V.; Sigalov, G. F.; Neshcheret, V. I.; Zabolonova, N. A.) * Асимптотические методы в задачах оптимального проектирования и управления движением. (Russian) [Asymptotic methods in problems of the optimal design and control of motion] 91k:93003
- Pironneau, Olivier. see Hecht, F., 91a:76061 and Arumugam, G., 91g:76028
- Poltavskii, L. N. Convergence of the discrete vortex method in stationary problems in aerodynamics. 91c:76092
- Rakhimova, M. Yu. Control of the orientation of the axis of a body on a moving point. (Russian) 91f:76026
- Ridel, V. V. (with Gulin, B. V.) * Динамика мягких оболочек. (Russian) [The dynamics of soft shells] 91k:73029
- Rossov, Cord-Christian. * Berechnung von Strömungsfeldern durch Lösung der Euler-Gleichungen mit einer erweiterten Finite-Volumen Diskretisierungsmethode. (German) [Computation of flow fields by the solution of Euler equations using an extended finite volume discretization scheme] 91h:76081
- Ruzhnikov, G. M. see Panchenko, A. N.; et al., 91k:93003
- Samant, Satish S. see Young, David P.; et al., 91k:76115
- Sigalov, G. F. see Panchenko, A. N.; et al., 91k:93003
- Williams-Stuber, K. (with Gharib, M.) Transition from order to chaos in the wake of an airfoil. 91k:76086
- Xu, Guo Rong. see Zhou, Yu Lin, 91k:76125
- Yang, Z. C. see Zhao, Ling Cheng, 91a:73054
- Young, A. D. * Boundary layers. 91h:76014
- Young, David P. (with Melvin, Robin G.; Bieterman, Michael B.; Johnson, Forrester T.; Samant, Satish S.; Bussioletti, John E.) A locally refined rectangular grid finite element method: application to computational fluid dynamics and computational physics. 91k:76115
- Zabolonova, N. A. see Panchenko, A. N.; et al., 91k:93003
- Zhao, Ling Cheng (with Yang, Z. C.) Chaotic motions of an airfoil with nonlinear stiffness in incompressible flow. 91a:73054
- Zhou, Yu Lin (with Xu, Guo Rong) Methods of numerical solution of inviscid flow fields in a streamline coordinate system. (Chinese. English summary) 91k:76125
- Zobnina, A. I. Calculation of hydrodynamical reactions on a solid profile that oscillates in a fluid at rest. 91c:76005
- 76G99 None of the above, but in this section (1985)**
- Ahuja, K. K. see Tam, Christopher K. W., (Not in MR)
- Luo, Shi Jun. see Zhang, Wa, (91h:00048)
- Tam, Christopher K. W. (with Ahuja, K. K.) Theoretical model of discrete tone generation by impinging jets. (Not in MR)
- Zhang, Wa (with Luo, Shi Jun) Numerical investigation of a bifurcation problem in vortex flow aerodynamics. (see 91h:00048)
- Items with secondary classifications in 76G99
- Gao, Hao (with Zhou, Zhi Qiang) The study of the global stability of high performance aircraft at high angles-of-attack. (see 91h:00048)
- Jameson, Antony. Successes and challenges in computational aerodynamics. (see 91h:76003)
- Zhou, Zhi Qiang. see Gao, Hao, (91h:00048)
- 76H05 Transonic flows**
- Anisov, S. K. On the solution of problems for flows [around airfoils moving] with the speed of sound. (Russian) 91k:76074
- Berger, Harald (with Warnecke, Gerald G.; Wendland, Wolfgang L.) Finite elements for transonic potential flows. 91h:76053
- Caruso, S. C. see Nixon, D.; et al., (Not in MR)
- Chakraborty, S. K. see Subramanian, N. R., (91e:00035)
- Chandrasekar, D. (with Prasad, Phoolan) Transonic flow of a fluid with positive and negative nonlinearity through a nozzle. 91m:76063
- Daripa, Prabir. On applications of a complex variable method in compressible flows. 91g:76057
- Farshchi, M. see Nixon, D.; et al., (Not in MR)
- Kreyszig, Erwin. Methods of complex analysis in the theory of transonic flows. 91e:76069
- Lia, Gao Lian. General variational principle family for fully 3-D unsteady transonic flow with shocks around oscillating wings. 91k:76093
- Marawetz, Cathleen S. * Transonic flow and mixed equations. 91e:76070
- Neiland, V. M. A new fast method of integration of Euler equations for planar transonic flows. (Not in MR)
- Nixon, D. (with Caruso, S. C.; Farshchi, M.) Further study of phantom solutions to the "TSD-Euler" equation. (Not in MR)
- Owcock, S. P. (with Zank, G. P.) The effect of viscosity on steady transonic flow with a nodal solution topology. 91m:76064
- Prasad, Phoolan. see Chandrasekar, D., 91m:76063
- Subramanian, N. R. (with Chakraborty, S. K.) Some recent numerical methods for transonic flow computations. (see 91e:00035)
- Warnecke, Gerald G. see Berger, Harald; et al., 91h:76053
- Wendland, Wolfgang L. see Berger, Harald; et al., 91h:76053
- Zank, G. P. see Owcock, S. P., 91m:76064
- Items with secondary classifications in 76H05
- Angelini, J. J. (with Soize, C.) New approach to small transonic perturbations finite element numerical solving method. I. Numerical developments. 91c:76069a
- (with Soize, C.) New approach to small transonic perturbations finite element numerical solving method. II. Numerical applications. 91c:76069b
- Berger, Harald. A convergent finite element formulation for transonic flow. 91g:65204
- Cole, Julian D. (with Malmuth, N.) Shock wave location on a slender transonic body of revolution. 91a:76058
- Gittel, Hans-Peter. On some properties of solutions of transonic potential flow problems. (Russian and Czech summaries) 91d:35173
- Hsi, Shih Pi (with Liu, Tai-Ping) Local uniqueness of interior layer solution and its related stability property. (see 91k:35005)
- Jiang, Hong (with Wong, Yau Shu) Absorbing boundary conditions for second-order hyperbolic equations. 91h:65197
- Kaptsor, O. V. Exact solutions of equations of the axisymmetric flow of an ideal gas. (Russian) 91f:76052
- Kerfitt, Barbara Lee. Shocks near the sonic line: a comparison between steady and unsteady models for change of type. 91f:76040
- Koretzki, V. V. (with Lyubimov, D. A.) A modified approximate factorization method for computing potential three-dimensional flows in channels. (Russian) 91m:76077
- Larkin, N. A. Solvability of stationary transonic equations in an unbounded domain. 91m:35198
- Liu, Tai-Ping. see Hsi, Shih Pi, (91k:35005)
- Lyubimov, D. A. see Koretzki, V. V., 91m:76077
- Malmuth, N. see Cole, Julian D., 91a:76058
- Michaux, B. (with Rakotoson, Jean-Michel; Shen, Jie) On the approximation of a quasilinear mixed problem. (French summary) 91f:65184
- Müller, Bernhard. Linear stability condition for explicit Runge-Kutta methods to solve the compressible Navier-Stokes equations. 91d:65133
- Rakotoson, Jean-Michel. see Michaux, B.; et al., 91f:65184
- Scroggs, Jeffrey S. Physically motivated domain decomposition for singularly perturbed equations. 91m:65245
- Shen, Jie. see Michaux, B.; et al., 91f:65184
- Soize, C. see Angelini, J. J., 91c:76069a and 91c:76069b
- Warnecke, Gerald G. Admissibility of solutions to the Riemann problem for systems of mixed type—transonic small disturbance theory. 91f:35187
- Wong, Yau Shu. see Jiang, Hong, 91h:65197
- Xu, Guo Rong. see Zhou, Yu Lin, 91k:76125
- Zhou, Yu Lin (with Xu, Guo Rong) Methods of numerical solution of inviscid flow fields in a streamline coordinate system. (Chinese. English summary) 91k:76125

76J20 Supersonic flows

- Antonov, A. N. (with Elizarova, T. G.; Chetverushkin, B. N.; Sheretov, Yu. V.) Numerical modeling of pulsation regimes in a supersonic flow around a hollow cylinder. (Russian) 91c:76065
- Antonova, A. M. (with Drzvonik, L. I.) Asymptotic solution of a nonlinear boundary value problem with a partially unknown boundary. (Russian) 91a:76056
- Chen, Shu Xing. A proof of local existence of the problem for supersonic flow past a three-dimensional wing. 91h:76054
- Chetverushkin, B. N. see Antonov, A. N.; et al., 91c:76065
- Constantinescu, V. N. (with Jadic, I.) On a lifting line theory for supersonic flow. I. The velocity field due to a vortex line in supersonic flow. 91k:76094
- (with Jadic, I.) On a lifting line theory for supersonic flow. II. A supersonic lifting line theory for wings. 91k:76095
- Dragos, Lazar. A new method in slender body theory in supersonic flow. 91f:76039
- Duck, Peter W. The inviscid axisymmetric stability of the supersonic flow along a circular cylinder. 91c:76066
- The response of a laminar boundary layer in supersonic flow to small-amplitude progressive waves. 91g:76058
- Drzvonik, L. I. see Antonova, A. M., 91a:76056
- Elizarova, T. G. see Antonov, A. N.; et al., 91c:76065
- Jadic, I. On an extension of the Kutta-Joukowski theorem to the supersonic regime. 91k:76096
- A verification of the supersonic lifting line theory for the case of infinite yawed wings. 91k:76097

- On the improvement of the supersonic lifting line theory. 91k:76098
 — see also Constantinescu, V. N., 91k:76094 and 91k:76095
 Karataev, S. G. (with Koterov, V. N.) A numerical method for calculating supersonic flows of a viscous gas. (Russian) 91k:76067
 Koterov, V. N. see Karataev, S. G., 91k:76067
 Ryllov, A. I. Possible regimes of flow around pointed bodies of finite thickness for arbitrary hypersonic velocities of the incoming flow. (Russian) (Not in MR)
 Sheretov, Yu. V. see Antonov, A. N.; et al., 91k:76065
 Verob'ev, N. F. On a problem of supersonic flow around a thin wing of finite span with completely subsonic leading edges. 91k:76099

Items with secondary classifications in 76J20

- Belova, O. N. see Rusanov, V. V.; et al., 91b:76085
 Bolotin, V. V. (with Dubovskikh, Yu. A.; Zhinzher, N. I.) Wave motion of elongated elastic bodies subjected to nonlinear flutter. 91c:73065
 Chueshev, I. D. Strong solutions and the attractor of a system of von Kármán equations. 91b:35016
 Dubovskikh, Yu. A. see Bolotin, V. V.; et al., 91c:73065
 Duck, Peter W. (with Hall, Philip²) Nonaxisymmetric viscous lower-branch modes in axisymmetric supersonic flows. 91a:76033
 Hall, Philip² see Duck, Peter W., 91a:76033
 Hui, W. H. see Loh, C. Y., 91d:76060
 Kaptsov, O. V. Exact solutions of equations of the axisymmetric flow of an ideal gas. (Russian) 91f:76052
 Karlin, V. A. see Rusanov, V. V.; et al., 91b:76085
 Koren, Barry Upwind discretization of the steady Navier-Stokes equations. 91d:76059
 Legowski, Z. (with Włodarczyk, E.) Stationary plane refraction problem of shock waves in the class of simple waves. I. General properties of the solutions. (Russian and Polish summaries) 91f:35170
 Lifshits, Yu. B. (with Sakovich, V. S.) The potential approximation in the theory of conical flows. 91k:76133
 Loh, C. Y. (with Hui, W. H.) A new Lagrangian method for steady supersonic flow computation. I. Godunov scheme. 91d:76060
 Marzillo, Roberto (with Moretti, Gino) Shock-fitting method for two-dimensional inviscid, steady supersonic flows in ducts. (Italian summary) 91a:76073
 Moretti, Gino see Marzillo, Roberto, 91a:76073
 Rusanov, V. V. (with Belova, O. N.; Karlin, V. A.; Teryaev, S. E.) Some problems of the numerical solution of a problem on the supersonic flow of a viscous gas around blunt bodies. (Russian. English summary) 91b:76085
 Sakovich, V. S. see Lifshits, Yu. B., 91k:76133
 Teryaev, S. E. see Rusanov, V. V.; et al., 91b:76085
 Włodarczyk, E. see Legowski, Z., 91f:35170
 Xu, Gao Rong see Zhou, Yu Lin, 91k:76125
 Zhinzher, N. I. see Bolotin, V. V.; et al., 91c:73065
 Zhou, Yu Lin (with Xu, Gao Rong) Methods of numerical solution of inviscid flow fields in a streamline coordinate system. (Chinese. English summary) 91k:76125

76K05 Hypersonic flows

- Brown, S. N. (with Cheng, H. K.; Lee, C. J.) Inviscid-viscous interaction on triple-deck scales in a hypersonic flow with strong wall cooling. 91b:76055
 Chen, Yao Song (with Chen, Yong Ze) An analytic solution on hypersonic flow over an arbitrary slender body with near power-law profile. 91a:76057
 Chen, Yong Ze see Chen, Yao Song, 91a:76057
 Cheng, H. K. see Brown, S. N.; et al., 91b:76055
 Cowley, Stephen J. (with Hall, Philip²) On the instability of hypersonic flow past a wedge. 91c:76071
 Golubkin, V. N. (with Negoda, V. V.) On the calculation of the flow around delta wings in the thin shock layer approximation. 91b:76075
 Hall, Philip² see Cowley, Stephen J., 91c:76071
 Klopfer, G. H. see Yee, H. C.; et al., 91k:76101
 Lee, C. J. see Brown, S. N.; et al., 91b:76055
 Matarrese, M. D. see Messiter, A. F., 91g:76059
 Messiter, A. F. (with Matarrese, M. D.) Hypersonic viscous interaction with strong blowing. 91g:76059
 Montagné, J.-L. see Yee, H. C.; et al., 91k:76101
 Negoda, V. V. see Golubkin, V. N., 91b:76075
 Rothmayer, A. P. Zones of influence in a two-dimensional, unsteady, hypersonic boundary layer. 91k:76100
 Yee, H. C. (with Klopfer, G. H.; Montagné, J.-L.) High-resolution shock-capturing schemes for inviscid and viscous hypersonic flows. 91k:76101

Items with secondary classifications in 76K05

- Brown, S. N. see Smith, F. T., 91g:76032
 Shakhov, E. M. Analysis of the flow of a rarefied gas near a critical point. (Russian) 91k:76140
 Smith, F. T. (with Brown, S. N.) The inviscid instability of a Blasius boundary layer at large values of the Mach number. 91g:76032

76L05 Shock waves and blast waves [see also 35L67, 73D05]

- Bogatsko, V. I. (with Kolton, G. A.) Nonregular interaction of a strong shock wave with a thin profile. (Russian. English summary) 91c:76072
 Bogdanov, A. N. (with Kulikovskii, V. A.) Propagation of non-steady-state weak shock waves in an oscillatory-nonuniform gas that is subject to the effect of external radiation. (Not in MR)
 Cole, Julian D. (with Malmuth, N.) Shock wave location on a slender transonic body of revolution. 91a:76058

- Colella, Phillip (with Henderson, L. F.) The von Neumann paradox for the diffraction of weak shock waves. 91g:76060
 Colgate, S. A. see Menikoff, Ralph; et al., 91j:76041
 Garrillo, A. N. A strong explosion in a mixture of a gas and several types of particles. (Not in MR)
 Glaister, P. A similarity solution for a shock-reflection problem in isentropic gas dynamics. 91a:76059
 Glaz, Harland M. Self-similar shock reflection in two space dimensions. 91m:76065
 Grove, John W. (with Menikoff, Ralph) Anomalous reflection of a shock wave at a fluid interface. 91k:76102
 Han, Zhao Yuan (with Yin, Xie Zhen) 2-dimensional equations of shock dynamics for moving gas ahead of shock wave. 91c:76073
 Hattori, Harumi see Mischakow, Konstantin, 91b:76078
 Henderson, L. F. see Colella, Phillip, 91g:76060
 Hyman, James M. see Menikoff, Ralph; et al., 91j:76041
 Johnson, Norman Lee see Menikoff, Ralph; et al., 91j:76041
 Kassoy, D. R. see Sutrisno, 91m:76067
 Keyfitz, Barbara Lee Shocks near the sonic line: a comparison between steady and unsteady models for change of type. 91j:76040
 Khrebtov, V. A. Solution of the Cauchy problem for hydraulic shock equations in elastodeformable pipes. 91c:76074
 Kolton, G. A. see Bogatsko, V. I., 91c:76072
 Kulikovskii, V. A. see Bogdanov, A. N., (Not in MR)
 Lackner, K. S. see Menikoff, Ralph; et al., 91j:76041
 Legowski, Z. (with Włodarczyk, E.) Acoustic theory of shock waves in perfect gas. (Russian and Polish summaries) 91b:76076
 — (with Włodarczyk, E.) Plane stationary refraction problem for shock waves in the class of simple waves. II. Numerical example. (Russian and Polish summaries) 91c:76075
 Likhachev, V. N. Focusing of shock waves in a strongly viscous fluid. 91b:76077
 Malmuth, N. see Cole, Julian D., 91a:76058
 Menikoff, Ralph (with Lackner, K. S.; Johnson, Norman Lee; Colgate, S. A.; Hyman, James M.; Miranda, G. A.) Shock wave driven by a phased implosion. 91j:76041
 — see also Grove, John W., 91k:76102
 Miranda, G. A. see Menikoff, Ralph; et al., 91j:76041
 Mischakow, Konstantin (with Hattori, Harumi) On the existence of intermediate magnetohydrodynamic shock waves. 91b:76078
 Okrasinski, W. Remarks on nontrivial solutions of a Volterra integral equation. 91k:76103
 Pavlov, V. A. On a shock wave in a nonuniform flow and in an anisotropic medium. (Russian) (see 91i:00017)
 Puckett, Elbridge Gerry A numerical study of shock wave refraction at a CO₂/CH₄ interface. (see 91b:00031)
 Russo, Giovanni Some remarks on the stability of shock waves. (Italian summary) 91m:76066
 Ryllov, A. I. On the impossibility of regular reflection of a steady shock wave from the axis of symmetry. 91b:76056
 Sherman, Bernard A nonconservation shock problem. (see 91g:00044)
 Sokolov, I. V. High-velocity cumulative gas jets. 91d:76051
 Sutrisno (with Kassoy, D. R.) Weak shocks initiated by power deposition on a spherical source boundary. 91m:76067
 Włodarczyk, E. see Legowski, Z., 91b:76076 and 91c:76075
 Yin, Xie Zhen see Han, Zhao Yuan, 91c:76073

Items with secondary classifications in 76L05

- Affouf, Mahmood (with Calisch, Russel E.) A numerical study of Riemann problem solutions and stability for a system of viscous conservation laws of mixed type. 91m:76039
 Ampomah, R. A. Some practical problems in the application of "artificial viscosity method". 91g:76068
 Antonov, A. N. (with Elizandrova, T. G.; Chetverushkin, B. N.; Sheretov, Yu. V.) Numerical modeling of pulsation regimes in a supersonic flow around a hollow cylinder. (Russian) 91c:76065
 Azevedo, A. V. (with Marchesin, Dan) Multiple viscous profile Riemann solutions in mixed elliptic-hyperbolic models for flow in porous media. 91f:35183
 Bakholdin, I. B. Averaged equations and wave jumps describing the propagation of Stokes waves with slowly varying parameters. 91c:76012
 Basko, M. M. The method of artificial viscosity for calculating one-dimensional flows. (Russian) 91d:76029
 Ben-Artzi, Matania (with Birman, Amnon) Computation of reactive duct flows in external fields. 91g:76069
 Birman, Amnon see Ben-Artzi, Matania, 91g:76069
 Blokhin, A. M. (with Druzhinin, I. Yu.) Stability of shock waves in magnetohydrodynamics. 91c:76112
 Borisov, Anatoli A. (with Sharypov, O. V.) Structure of unstable gas detonation front. 91b:80021
 Bourgade, A. (with Jourdain, H.; Ovadia, J.) Problème de Riemann en hydrodynamique et applications. [The Riemann problem in hydrodynamics, and applications] 91b:76079
 — (with Le Floch, Philippe; Raviart, P.-A.) An asymptotic expansion for the solution of the generalized Riemann problem. II. Application to the equations of gas dynamics. (French summary) 91c:35087
 Bourlioux, Anne (with Majda, Andrew J.; Roytburd, Victor) Theoretical and numerical structure for unstable one-dimensional detonations. 91m:76090
 Brown, S. N. see Smith, F. T., 91g:76032
 Calisch, Russel E. see Affouf, Mahmood, 91m:76039
 Chern, I-Liang Large-time behavior of solutions of Lax-Friedrichs finite difference equations for hyperbolic systems of conservation laws. 91j:65148
 Chetverushkin, B. N. see Antonov, A. N.; et al., 91c:76065
 Coquel, Frédéric (with Le Floch, Philippe) Convergence of finite difference schemes for conservation laws in several space dimensions: the corrected antidiffusive flux approach. 91m:65229
 Cowley, Stephen J. (with Hall, Philip²) On the instability of hypersonic flow past a wedge. 91c:76071

- Cox, Edward A. (with Mortell, Michael P.) The evolution of resonant acoustic oscillations with damping. 91h:76091
- Cox, Robert W. Shocks in a model for stress-driven diffusion. 91h:35167
- Cuntz, M. see Gail, H.-P.; et al. (Not in MR)
- Das, P. see Narasimha, R.; et al. 91m:82053
- Dina, Liviu Some remarks concerning the Riemann invariance. Burnat-Peradzyński and Martin approaches. 91h:35197
- Doyle, John (with Englefield, M. J.) Similarity solutions of a generalized Burgers equation. 91f:35016
- Druzhinin, I. Yu. see Blokhin, A. M.; et al. 91f:76112
- Elizarova, T. G. see Antonov, A. N.; et al. 91f:76065
- Englefield, M. J. see Doyle, John; et al. 91f:35016
- Gail, H.-P. (with Cuntz, M.; Ulmschneider, P.) Wave pressure in stellar atmospheres due to shock wave trains. (Not in MR)
- Glaister, P. An algorithm for isentropic flow. 91c:76080
- Golubkin, V. N. (with Negoda, V. V.) On the calculation of the flow around delta wings in the thin shock layer approximation. 91h:76075
- Goodman, Jeremy Convective instability of hollow Sedov-Taylor blast waves. (Not in MR)
- Grove, John W. (with Menikoff, Ralph; Zhang, Qiang) Unstable interfaces and anomalous waves in compressible fluids. 91d:76034
- Gundersen, Roy M. Oblique magnetohydrodynamic shock wave decay. (French summary) 91j:76075
- (Hainsworth, R. N.) see Rabinovich, M. I.; et al. 91f:00011
- Hall, Philip³ see Cowley, Stephen J.; et al. 91c:76071
- Harabetian, Edward A numerical method for viscous perturbations of hyperbolic conservation laws. 91h:65129
- Hiscock, William A. see Olson, Timothy S.; et al. 91m:83053
- Hoff, David (with Liu, Tai-Ping) The inviscid limit for the Navier-Stokes equations of compressible, isentropic flow with shock data. 91f:35153
- Holden, Helge (with Holden, Lars) On the Riemann problem for a prototype of a mixed type conservation law. II. 91h:35204
- Holden, Lars see Holden, Helge; et al. 91h:35204
- Hsu, Thomas Y. (with Lax, Peter D.) Dispersive approximations in fluid dynamics. 91m:76088
- Hui, W. H. see Loh, C. Y.; et al. 91d:76060
- Hunter, John K. Nonlinear geometrical optics. 91k:76137
- Hussaini, M. Y. see Jackson, T. L.; et al. 91c:80021
- Jackson, T. L. (with Kapila, A. K.; Hussaini, M. Y.) Convection of a pattern of vorticity through a reacting shock wave. 91c:80021
- Jordren, H. see Bourgade, A.; et al. 91b:76079
- Kapila, A. K. see Jackson, T. L.; et al. 91c:80021
- Kassoy, D. R. see Wang, Meng; et al. 91j:76054
- Klingenberg, Christian (with Plohr, Bradley J.) An introduction to front tracking. 91k:76132
- Klopper, G. H. see Yee, H. C.; et al. 91k:76101
- Lax, Melvin see Yudanin, B.; et al. 91m:76081
- Lax, Peter D. see Hsu, Thomas Y.; et al. 91m:76088
- Le Floch, Philippe see Bourgade, A.; et al. 91c:35087 and Coquel, Frédéric, 91m:65229
- Legowski, Z. (with Włodarczyk, E.) Stationary plane refraction problem of shock waves in the class of simple waves. I. General properties of the solutions. (Russian and Polish summaries) 91f:35170
- Li, De Qian (with Zhao, Yan Chun) Global perturbation of the Riemann problem for the system of one-dimensional isentropic flow. 91a:35106
- Li, De Ning Cauchy problem of hyperbolic conservation laws in multidimensional space with intersecting jump initial data. 91f:35073
- see also Tán, Bül An, 91h:35072
- Lian, Wen Yu Numerical computation of two-dimensional flow with shock waves—the PBLM method for two-dimensional flow. 91k:76123
- Lifshits, Yu. B. (with Sakovich, V. S.) The potential approximation in the theory of conical flows. 91k:76133
- Liu, I-Shih (with Salvador, J. A.) Hyperbolic system for viscous fluids and simulation of shock tube flows. 91g:76002
- Liu, Ru Xun see Wang, Ru Xun; et al. (Not in MR)
- Liu, Tai-Ping (with Xin, Zhou Ping) Overcompressive shock waves. 91f:35171
- Geometric theory of shock waves. 91k:35157
- see also Hoff, David, 91f:35153
- Loh, C. Y. (with Hui, W. H.) A new Lagrangian method for steady supersonic flow computation. I. Godunov scheme. 91d:76060
- Majda, Andrew J. (with Roytburd, Victor) Numerical modeling of the initiation of reacting shock waves. 91h:80023
- One perspective on open problems in multi-dimensional conservation laws. 91m:35142
- see also Bourloux, Anne; et al. 91m:76090
- Mao, De Kang A treatment of discontinuities in shock-capturing finite difference methods. 91h:65130
- Marchant, T. R. (with Roberts, A. J.) Reflection of nonlinear deep-water waves incident onto a wedge of arbitrary angle. 91f:76025
- Marchesin, Dan see Azevedo, A. V.; et al. 91f:35183
- Marsilio, Roberto (with Moretti, Gino) Shock-fitting method for two-dimensional inviscid, steady supersonic flows in ducts. (Italian summary) 91a:76073
- Maslov, V. P. A conjecture on the formation of the structure of a front of a shock wave. (Russian) 91h:35208
- Mazhukin, V. I. see Vasilievskii, V. F.; et al. 91k:76124
- Menikoff, Ralph see Grove, John W.; et al. 91d:76034
- Menshov, I. S. Increase in the approximation order for Godunov's scheme on the basis of the solution of the generalized Riemann problem. (Russian) 91m:76093
- Métivier, Guy Ondes soniques. [Sound waves] 91m:35137
- Mikaelian, Karnig O. Rayleigh-Taylor and Richtmyer-Meshkov instabilities and mixing in stratified spherical shells. 91g:76046
- Stability and mix in spherical geometry. 91c:76061
- Monaco, R. (with Pandolfi, Miriam; Platkowski, Tadeusz) Shock-waves formation by the discrete Boltzmann equation for binary gas mixtures. 91h:76068
- Montagné, J.-L. see Yee, H. C.; et al. 91k:76101
- Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012
- Moretti, Gino see Marsilio, Roberto; et al. 91a:76073
- Mortell, Michael P. see Cox, Edward A.; et al. 91b:76091
- Müller, Detlev Simple waves and shocks in the shallow two-layer fluid. 91f:76057
- Nakoryakov, V. E. (with Pokusaev, B. G.; Shreiber, I. R.) ★ Волновая динамика газопорожностных среж. (Russian) [Wave dynamics of gas- and steam-liquid media] 91g:76096
- Narasimha, R. (with Das, P.) A spectral solution of the Boltzmann equation for the infinitely strong shock. 91m:82053
- Negoda, V. V. see Golubkin, V. N.; et al. 91h:76075
- Nessyahu, Haim (with Tadmor, Eitan) Nonoscillatory central differencing for hyperbolic conservation laws. 91f:65157
- Neuberger, J. W. Calculation of sharp shocks using Sobolev gradients. (see 91c:00026)
- Olson, Timothy S. (with Hiscock, William A.) Plane steady shock waves in Israel-Stewart fluids. 91m:83053
- Orłowski, Arkadiusz (with Sobczyk, Kazimierz) Solitons and shock waves under random external noise. 91f:35227
- Ostapenko, V. V. Local satisfaction of conservation laws on the front of a "smoothed" shock wave. (Russian. English summary) (Not in MR)
- Ovadia, J. see Bourgade, A.; et al. 91h:76079
- Owcock, S. P. (with Zank, G. P.) The effect of viscosity on steady transonic flow with a nodal solution topology. 91m:76064
- Pandey, B. D. Growth and decay of shock waves in magnetogasdynamics. 91k:76156
- Pandolfi, Miriam see Monaco, R.; et al. 91h:76068
- Platkowski, Tadeusz see Monaco, R.; et al. 91h:76068
- Plohr, Bradley J. see Klingenberg, Christian; et al. 91k:76132
- Pokusaev, B. G. see Nakoryakov, V. E.; et al. 91g:76096
- Prasad, Phoolan On shock dynamics. 91m:35144
- (with Ravindran, Renuka; Sau, A.) The characteristic rule for shocks. (Not in MR)
- see also Srinivasan, Ramalingam, 91m:35145
- Rabinovich, M. I. (with Trubetskoy, D. I.) ★ Oscillations and waves in linear and nonlinear systems. 91f:00011
- Raviart, P.-A. see Bourgade, A.; et al. 91c:35087
- Ravindran, Renuka see Prasad, Phoolan; et al. (Not in MR)
- Roberts, A. J. see Marchant, T. R.; et al. 91f:76025
- Roberts, Thomas W. The behavior of flux difference splitting schemes near slowly moving shock waves. (Not in MR)
- Roytburd, Victor see Majda, Andrew J.; et al. 91h:80023 and Bourloux, Anne; et al. 91m:76090
- Ruderman, M. S. Structure and stability of quasispherical small-amplitude magnetohydrodynamic shocks. 91c:76125
- Sakovich, V. S. see Lifshits, Yu. B.; et al. 91k:76133
- Salvador, J. A. see Liu, I-Shih; et al. 91g:76002
- Sau, A. see Prasad, Phoolan; et al. (Not in MR)
- Schochet, Steven Examples of measure-valued solutions. 91a:35107
- Sharipov, O. V. see Borisov, Anatoli A.; et al. 91b:80021
- Shcherer, Yu. V. see Antonov, A. N.; et al. 91c:80065
- Shreiber, I. R. see Nakoryakov, V. E.; et al. 91g:76096
- Smith, F. T. (with Brown, S. N.) The inviscid instability of a Blasius boundary layer at large values of the Mach number. 91g:76032
- Smoller, Joel A. (with Temple, Blake; Xin, Zhou Ping) Instability of rarefaction shocks in systems of conservation laws. 91f:35125
- Sobczyk, Kazimierz see Orłowski, Arkadiusz; et al. 91f:35227
- Srinivasan, Ramalingam (with Prasad, Phoolan) Corrections to some expressions in: "On the propagation of a multidimensional shock of arbitrary strength" [Proc. Indian Acad. Sci. Math. Sci. 94 (1985), no. 1, 27–42; MR 87k:76040]. 91m:35145
- Swaters, Gordon E. see Moodie, T. Bryant; et al. 91d:76012
- Tadmor, Eitan Shock capturing by the spectral viscosity method. 91g:35174
- see also Nessyahu, Haim, 91f:65157
- Temple, Blake see Smoller, Joel A.; et al. 91f:35125
- Tán, Bül An (with Li, De Ning) Double shock fronts for hyperbolic systems of conservation laws in multidimensional space. 91h:35072
- Trubetskoy, D. I. see Rabinovich, M. I.; et al. 91f:00011
- Ulmschneider, P. see Gail, H.-P.; et al. (Not in MR)
- Vasilievskii, V. F. (with Mazhukin, V. I.) Calculation of shock waves on grids with dynamic adaptation. (Russian) 91k:76124
- Veechi, Italo Entropy compactification in Lagrangian gas dynamics. 91m:35195
- Voroshchikov, E. V. (with Yanenko, N. N.) ★ Methods for the localization of singularities in numerical solutions of gas dynamics problems. 91m:76069
- Wang, Jing Hua Remarks on bounds on the discrepancy of approximate solutions constructed by Godunov's scheme. 91f:76093
- Wang, Meng (with Kassoy, D. R.) Evolution of weakly nonlinear waves in a cylinder with a movable piston. 91j:76054
- Wang, Ru Xun (with Liu, Ru Xun) Numerical simulation for an unsteady shock wave sweeping over multiple rectangular obstacles. (Chinese. English summary) (Not in MR)
- Warneke, Gerald G. Admissibility of solutions to the Riemann problem for systems of mixed type—transonic small disturbance theory. 91f:35187
- Włodarczyk, E. see Legowski, Z.; et al. 91f:35170
- Xin, Zhou Ping see Liu, Tai-Ping; et al. 91f:35171 and Smoller, Joel A.; et al. 91f:35125
- Yanenko, N. N. see Voroshchikov, E. V.; et al. 91m:76069
- Yee, H. C. (with Klopper, G. H.; Montagné, J.-L.) High-resolution shock-capturing schemes for inviscid and viscous hypersonic flows. 91k:76101
- Yudanin, B. (with Lax, Melvin) Post adaptation for a numerical solution of the spherically-symmetric Riemann problem. 91m:76081
- Zank, G. P. see Owcock, S. P.; et al. 91m:76064
- Zhang, Qiang see Grove, John W.; et al. 91d:76034

- Zhang, Tong (with Zheng, Yu Xi) Conjecture on the structure of solutions of the Riemann problem for two-dimensional gas dynamics systems. 91d:35134
 Zhao, Yan Chun see Li, Da Qian, 91a:35106
 Zheng, Yu Xi see Zhang, Tong, 91d:35134

76Mxx Basic methods in fluid mechanics [see also 65-XX]

- Prosnak, Włodzimierz J. ★ Computation of fluid motions in multiply connected domains. 91m:76068
 Rannacher, Rolf Numerical analysis of nonstationary fluid flow. 91h:76057
 Vorozhtsov, E. V. (with Yanenko, N. N.) ★ Methods for the localization of singularities in numerical solutions of gas dynamics problems. 91m:76069
 Wesseling, Pieter Multigrid methods in computational fluid dynamics. 91f:76038
 Winnicki, I. Analysis of some selected numerical methods from the point of view of irregular initial conditions. (Russian and Polish summaries) 91e:76076
 Yanenko, N. N. see Vorozhtsov, E. V., 91m:76069

Items with secondary classifications in 76Mxx

- Anderson, Dale A. (with Tannehill, John C.; Pletcher, R.) ★ Вычислительная гидромеханика и теплообмен. Том 1, 2. (Russian) [Computational fluid mechanics and heat transfer. Vol. 1, 2] 91f:76041
 (Breblias, C. A.) see Boundary elements X, 91b:00041 and 91b:00042
 (Cakmak, Ahmet) see Computational acoustics, 91f:76002; 91f:76003 and 91f:76004
 Chorin, Alexandre Joel ★ Computational fluid mechanics. 91a:76001
 (Gruber, Ralf) see Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
 (Kraike, A. N.) see Anderson, Dale A.; et al., 91f:76041
 (Lee, Ding) see Computational acoustics, 91f:76002; 91f:76003 and 91f:76004
 (Oden, J. Tinsley) see Reliability in computational mechanics, 91g:00036
 (Périanx, Jacques) see Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
 Pletcher, R. see Anderson, Dale A.; et al., 91f:76041
 (Podríz, G. L.) see Anderson, Dale A.; et al., 91f:76041
 (Sera, S. V.) see Anderson, Dale A.; et al., 91f:76041
 (Shalman, E. Ya.) see Anderson, Dale A.; et al., 91f:76041
 (Shaw, Richard Paul) see Proceedings: Symposium on Numerical Methods in Engineering, 91h:00050
 Takeda, Tatsuki (with Tokuda, Shinji) Computation of MHD equilibrium of tokamak plasma. 91k:76157
 Tannehill, John C. see Anderson, Dale A.; et al., 91f:76041
 Tokuda, Shinji see Takeda, Tatsuki, 91k:76157
 (Vichnevetsky, Robert) see Computational acoustics, 91f:76002; 91f:76003 and 91f:76004
 (Wesseling, Pieter) see Research in numerical fluid mechanics, 91k:76003

Items listed otherwise than by author

- Anstis, TX ★ Reliability in computational mechanics. 91g:00036
 Boundary elements X ★ Boundary elements X. Vol. 1. 91b:00041
 — ★ Boundary elements X. Vol. 2. 91b:00042
 Computational acoustics ★ Computational acoustics. Vol. 1. 91f:76002
 — ★ Computational acoustics. Vol. 2. 91f:76003
 — ★ Computational acoustics. Vol. 3. 91f:76004
 Conference:
 Boundary Element Methods ★ Boundary elements X. Vol. 1. 91b:00041
 — ★ Boundary elements X. Vol. 2. 91b:00042
 Computational Fluid Dynamics ★ AIAA 8th Computational Fluid Dynamics Conference. 91h:76003
 Delft ★ Research in numerical fluid mechanics. 91k:76003
 Honolulu, HI ★ AIAA 8th Computational Fluid Dynamics Conference. 91h:76003
 IMACS Symposium:
 Computational Acoustics ★ Computational acoustics. Vol. 1. 91f:76002
 — ★ Computational acoustics. Vol. 2. 91f:76003
 — ★ Computational acoustics. Vol. 3. 91f:76004
 Karlsruhe ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00021
 Lausanne ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91h:00050
 Meeting:
 Dutch Association for Numerical Fluid Mechanics ★ Research in numerical fluid mechanics. 91k:76003
 GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00021
 Princeton, NJ ★ Computational acoustics. Vol. 1. 91f:76002
 — ★ Computational acoustics. Vol. 2. 91f:76003
 — ★ Computational acoustics. Vol. 3. 91f:76004
 Proceedings:
 Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] 91f:00021
 Symposium on Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91h:00050
 Reliability in computational mechanics ★ Reliability in computational mechanics. 91g:00036
 Research in numerical fluid mechanics ★ Research in numerical fluid mechanics. 91k:76003
 Southampton ★ Boundary elements X. Vol. 1. 91b:00041
 — ★ Boundary elements X. Vol. 2. 91b:00042
 Symposium:
 Numerical Methods in Engineering ★ Proceedings of the Fifth International Symposium on Numerical Methods in Engineering. Vol. 1, 2. 91h:00050

Workshop:

- Reliability in Computational Mechanics ★ Reliability in computational mechanics. 91g:00036

76M10 Finite element methods

- Aboulach, R. (with Fortin, Michel) Iterative methods for the solution of Stokes equations. 91a:76060
 Anagnostos, George (with Fischer, Paul F.; Dewey, Daniel; Patern, Anthony T.) Finite/spectral element Navier-Stokes methods on vector hypercubes and geometry-defining processor reconfigurable lattices. 91c:76068
 Angelini, J. J. (with Soize, C.) New approach to small transonic perturbations finite element numerical solving method. I. Numerical developments. 91c:76069a
 — (with Soize, C.) New approach to small transonic perturbations finite element numerical solving method. II. Numerical applications. 91c:76069b
 Badriev, I. B. (with Pankratova, O. V.) A mixed finite-element method for nonlinear stationary problems of filtration theory. (Russian) 91k:76104
 Bank, Randolph E. (with Welfert, Bruno D.) A posteriori error estimates for the Stokes equations: a comparison. 91g:76061
 — (with Welfert, Bruno D.) A comparison between the mini-element and the Petrov-Galerkin formulations for the generalized Stokes problem. 91f:76042
 Baranger, Jacques (with El Amri, Hassan) Estimateurs a posteriori d'erreur pour le calcul adaptatif d'écoulements quasi-newtoniens. (English summary) [A posteriori error estimates for the adaptive computation of quasi-Newtonian flows] 91m:76070
 Baruzzi, G. see Habaishi, W. G.; et al., 91m:76072
 Bar-Yoseph, Pinchas (with Elata, David) An efficient L_2 Galerkin finite element method for multi-dimensional nonlinear hyperbolic systems. 91f:76039
 Behr, M. see Tezduyar, T. E.; et al., 91g:76067
 Besson, Olivier (with Bourgeois, J.; Chevalier, P.-A.; Rappaz, J.; Touzani, Rachid) Numerical modelling of electromagnetic casting processes. 91k:76105
 Bietsman, Michael B. see Young, David P.; et al., 91k:76115
 Bourgeois, J. see Besson, Olivier; et al., 91k:76105
 Bristeau, M. O. (with Glowinski, Roland; Duto, L.; Périanx, Jacques; Rogé, G.) Compressible viscous flow calculations using compatible finite element approximations. 91g:76062
 Buscioletti, John E. see Young, David P.; et al., 91k:76115
 Carey, Graham F. see Jiang, Bo-Nan, 91a:76062
 Caussignac, Philippe (with Touzani, Rachid) Solution of three-dimensional boundary layer equations by a discontinuous finite element method. I. Numerical analysis of a linear model problem. 91k:76043
 — (with Touzani, Rachid) Solution of three-dimensional boundary layer equations by a discontinuous finite element method. II. Implementation and numerical results. 91k:76044
 Cesari, Francesco ★ Il metodo degli elementi finiti applicato al moto dei fluidi. (Italian) [The finite element method applied to fluid flow] 91d:76052
 Chan, Stevens T. see Gresho, Philip M., 91m:76071b
 Chang, Ching-Lung (with Jiang, Bo-Nan) An error analysis of least-squares finite element method of velocity-pressure-vorticity formulation for Stokes problem. 91k:76106
 — see also Jiang, Bo-Nan, 91h:76058
 Chen, Da Peng (with Zhao, Zhong) A weighted penalty finite element method for the analysis of power-law fluid flow problems. (Not in MR)
 Chevalier, P.-A. see Besson, Olivier; et al., 91k:76105
 Connolly, W. M. see Howard, D.; et al., 91k:76071
 Demkowicz, L. (with Oden, J. Tinsley; Rachowicz, W.) A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h - p adaptivity. 91k:76107
 — see also Oden, J. Tinsley; et al., 91m:76073
 Deville, M. O. Chebyshev collocation solutions of flow problems. 91g:76063
 Dewey, Daniel see Anagnostos, George; et al., 91c:76068
 Duto, L. see Bristeau, M. O.; et al., 91g:76062
 El Amri, Hassan see Baranger, Jacques, 91m:76070
 Elata, David see Bar-Yoseph, Pinchas, 91f:76039
 Eranova, I. B. (with Rivkind, V. Ya.) Estimates for the rate of convergence of approximate methods for calculating the flows of a viscous incompressible fluid with a free surface in domains with corner points. 91f:76045
 Ferragut, Luis see Montenegro, Rafael Alejandro; et al., 91d:76054
 Finlayson, Bruce A. see Rao, Rakha R., 91g:76066
 Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. 91g:76064
 — see also Anagnostos, George; et al., 91c:76068
 Fortin, Michel see Aboulach, R., 91a:76060 and Manouzi, H., 91k:76110
 Fujima, Shoichi see Tahata, Masahiko, 91k:76113
 Ganjoo, D. K. see Tezduyar, T. E.; et al., 91g:76067
 Givoli, Dan see Keller, Joseph B., 91a:76064
 Glowinski, Roland Supercomputing and the finite element approximation of the Navier-Stokes equations for incompressible viscous fluids. 91c:76070
 — see also Bristeau, M. O.; et al., 91g:76062
 Gresho, Philip M. The finite element method in viscous incompressible flows. 91k:76100
 — On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. I. Theory. 91m:76071a
 — (with Chan, Stevens T.) On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. II. Implementation. 91m:76071b
 Gumburger, Max D. ★ Finite element methods for viscous incompressible flows. 91d:76053
 Habaishi, W. G. (with Baruzzi, G.; Peeters, M. F.; Hafez, M. M.) Finite element method in the solution of the Euler and Navier-Stokes equations for internal flow. 91m:76072
 Hafez, M. M. see Habaishi, W. G.; et al., 91m:76072
 Habaishi, Peter (with Szepessy, Anders) A velocity-pressure streamline diffusion finite element method for the incompressible Navier-Stokes equations. 91k:76109

- Hecht, F. (with Pironneau, Olivier) On the numerical simulation of turbulent flows around vehicles. 91a:76061
- Ho, Lee-Wing (with Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. 91g:76065
- Howard, D. (with Connelley, W. M.; Rollett, J. S.) Unsymmetric conjugate gradient methods and sparse direct methods in finite element flow simulation. 91c:76071
- Hughes, Thomas J. R. see Shakib, Farzid; et al., 91a:76065
- Jiang, Bo-Nan (with Piovonelli, Louis A.) Least-squares finite element method for fluid dynamics. 91f:76040
- (with Chang, Ching-Lung) Least-squares finite elements for the Stokes problem. 91h:76058
- (with Carey, Graham F.) Least-squares finite element methods for compressible Euler equations. 91a:76062
- see also Chang, Ching-Lung, 91k:76106
- Johan, Zdeněk see Shakib, Farzid; et al., 91a:76065
- Johnson, Claes Streamline diffusion finite element methods for incompressible and compressible fluid flow. 91a:76063
- Johnson, Forrester T. see Young, David P.; et al., 91k:76115
- Keller, Joseph B. (with Givoli, Dan) Exact nonreflecting boundary conditions. 91a:76064
- Liggett, James A. see Park, Nam-Sik, 91c:76073
- Liu, Jianying see Tezduyar, T. E.; et al., 91g:76067
- Li, Tao (with Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting up method and its application to Navier-Stokes equations. (Not in MR)
- Masozzi, H. (with Fortin, Michel) A treatment of wall boundaries for turbulent flows by the use of a transmission finite element method. 91k:76110
- Melvin, Robin G. see Young, David P.; et al., 91k:76115
- Mikelić, Andro (with Prnić, Žarko) Numerical solution of the Buckley-Leverett equation by using TVD-schemes. (Serbo-Croatian summary) (see 91m:00027)
- Montenegro, Rafael Alejandro (with Montero, Gustavo; Winter, Gabriel; Ferragut, Luis) Application of adaptive finite element methods to two-dimensional convection-diffusion problems. (Spanish. English summary) 91d:76054
- Montero, Gustavo see Montenegro, Rafael Alejandro; et al., 91d:76054
- Neittaanmäki, Pekka see Li, Tao; et al., (Not in MR)
- Oden, J. Tinsley Smart algorithms for complex problems in fluid dynamics. 91c:76072
- (with Demkowicz, L.; Rachowicz, W.; Westermann, T. A.) A posteriori error analysis in finite elements: the element residual method for symmetrizable problems with applications to compressible Euler and Navier-Stokes equations. 91m:76073
- see also Stouboulis, T., 91a:76066 and Demkowicz, L.; et al., 91k:76107
- Pankratova, O. V. see Badrlov, I. B., 91k:76104
- Park, Nam-Sik (with Liggett, James A.) Taylor-least-squares finite element for two-dimensional advection-dominated unsteady advection-diffusion problems. 91c:76073
- Patera, Anthony T. see Apanagiotou, George; et al., 91c:76068 and Ho, Lee-Wing, 91g:76065
- Peters, M. F. see Hahashi, W. G.; et al., 91m:76072
- Périaux, Jacques see Bristeau, M. O.; et al., 91g:76062
- Pironneau, Olivier see Hecht, F., 91a:76061
- Piovonelli, Louis A. see Jiang, Bo-Nan, 91f:76040
- Prnić, Žarko see Mikelić, Andro, (91m:00027)
- Quartapelle, Luigi see Rana, Vitoriano, 91h:76059
- Quarteroni, Alfio (with Sacchi Landriani, Giovanni) Iteration by subdomains in numerical fluid dynamics. 91k:76111
- Rachowicz, W. see Demkowicz, L.; et al., 91k:76107 and Oden, J. Tinsley; et al., 91m:76073
- Ramaswamy, B. Finite element analysis of density flow. 91c:76074
- Rao, Rekha R. (with Finlayson, Bruce A.) On the quality of viscoelastic flow solutions: an adaptive refinement study of a Newtonian and a Maxwell fluid. 91g:76066
- Rappaz, J. see Besson, Olivier; et al., 91k:76105
- Risch, Uwe (with Schieweck, Friedhelm) Experiences with the multigrid method applied to high Reynolds number, steady, incompressible flows. (see 91k:65012)
- Rivkind, V. Ya. see Eruanova, I. B., 91g:76045
- Rogé, G. see Bristeau, M. O.; et al., 91g:76062
- Rollett, J. S. see Howard, D.; et al., 91c:76071
- Rana, Vitoriano (with Quartapelle, Luigi) Uncoupled finite element solution of biharmonic problems for vector potentials. 91h:76059
- Sacchi Landriani, Giovanni see Quarteroni, Alfio, 91k:76111
- Salas, Jacques-Hervé Finite element solutions of axisymmetric Euler equations for an incompressible and inviscid fluid. 91c:76075
- Samant, Satish S. see Young, David P.; et al., 91k:76115
- de Sampaio, P. A. B. A Petrov-Galerkin/modified operator formulation for convection-diffusion problems. 91c:76076
- Schieweck, Friedhelm see Risch, Uwe, (91k:65012)
- Shakib, Farzid (with Hughes, Thomas J. R.; Johan, Zdeněk) A multi-element group preconditioned GMRES algorithm for nonsymmetric systems arising in finite element analysis. 91a:76065
- Solze, C. see Angellai, J. J., 91c:76069a and 91c:76069b
- Steinberg, Rolf A technique for analysing finite element methods for viscous incompressible flow. 91k:76112
- Stouboulis, T. (with Oden, J. Tinsley) A posteriori error estimation of finite element approximations in fluid mechanics. 91a:76066
- Szegessy, Anders see Hansbo, Peter, 91k:76109
- Tabata, Masahisa (with Fujima, Shoichi) An upwind finite element scheme for high-Reynolds-number flows. 91k:76113
- Tai, Xue Cheng see Li, Tao; et al., (Not in MR)
- Tezduyar, T. E. (with Liou, Jianying; Ganjoo, D. K.; Behr, M.) Solution techniques for the vorticity-streamfunction formulation of two-dimensional unsteady incompressible flows. 91g:76067
- Thatcher, R. W. Locally mass-conserving Taylor-Hood elements for two- and three-dimensional flow. 91d:76055
- Touzani, Rachid see Caussignac, Philippe, 91j:76043; 91j:76044 and Besson, Olivier; et al., 91k:76105
- Welfert, Bruno D. see Bank, Randolph E., 91g:76061 and 91j:76042
- Westermann, T. A. see Oden, J. Tinsley; et al., 91m:76073
- Winter, Gabriel see Montenegro, Rafael Alejandro; et al., 91d:76054
- Yang, Dao Qi Mixed methods with dynamic finite-element spaces for miscible displacement in porous media. 91k:76114
- Young, David P. (with Melvin, Robin G.; Bieterman, Michael B.; Johnson, Forrester T.; Samant, Satish S.; Bussioletti, John E.) A locally refined rectangular grid finite element method: application to computational fluid dynamics and computational physics. 91k:76115
- Zhao, Zhong see Chen, Da Peng, (Not in MR)

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- Abboud, Najib N. see Pinsky, Peter M., 91m:76106
- Arbogast, Todd On the simulation of incompressible, miscible displacement in a naturally fractured petroleum reservoir. (French summary) 91d:76073
- Arnold, Douglas N. Mixed finite element methods for elliptic problems. 91h:65168
- Asadzadeh, Mohammad Streamline diffusion methods for the Vlasov-Poisson equation. (French summary) 91d:65137
- Baker, Garth A. (with Jureidini, Wadi N.; Karakashian, Ohannes A.) Piecewise solenoidal vector fields and the Stokes problem. 91m:65246
- Bank, Randolph E. (with Bürgler, Josef F.; Fichtner, Wolfgang; Smith, R. Kent) Some upwinding techniques for finite element approximations of convection-diffusion equations. 91i:65175
- Baranger, Jacques (with Sandri, Dominique) Approximation par éléments finis d'écoulements de fluides viscoélastiques: existence de solutions approchées et majoration d'erreur. I. Contraintes discontinues. (English summary) [Finite-element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints] 91m:65268
- Barrett, John W. (with Elliott, Charles M.) Finite element approximation of a free boundary problem related to plasma physics. (see 91g:00044)
- (with Elliott, Charles M.) Finite element approximation of a free boundary problem arising in the theory of liquid drops and plasma physics. (French summary) 91m:65269
- Bazhilevskii, I. B. (with Shopov, Petr L.) Mathematical and numerical modelling of hydrodynamic problems with dynamic contact lines. 91k:76046
- Beggs, C. (with Cardot, B.; Pares, Carlos; Pironneau, Olivier) Simulation of turbulence with transient mean. 91g:76047
- Berger, Harald A convergent finite element formulation for transonic flow. 91g:65204
- (with Warnecke, Gerald G.; Wendland, Wolfgang L.) Finite elements for transonic potential flows. 91h:76053
- Bermúdez de Castro, Alfredo (with Durany, J.) Numerical solution of cavitation problems in lubrication. 91c:76036
- (with Durany, J.) Solving some free boundary problems by a method of characteristics. (see 91g:00044)
- (with Rodríguez-Fernández, Celso; Vilar, M. A.) Solving shallow water equations by a mixed implicit finite element method. 91k:76030
- Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Bourdel, Françoise (with Croisille, Jean-Pierre; Delorme, Philippe; Mazet, Pierre-Alain) On the approximation of K -diagonalizable hyperbolic systems by finite elements. Applications to the Euler equations and to gaseous mixtures. 91c:76088
- Bramble, James H. (with Pasciak, Joseph E.) A domain decomposition technique for Stokes problems. 91f:65188
- Brenner, Susanne C. A nonconforming multigrid method for the stationary Stokes equations. 91d:65167
- Bruch, J. C., Jr. (with Comincioli, Valeriano) Moving boundary seepage problems solved using a fixed domain method. (see 91g:00044)
- Bürgler, Josef F. see Bank, Randolph E.; et al., 91i:65175
- Caloz, Gabriel Approximation by finite element method of the model plasma problem. (French summary) 91m:76126
- Cardot, B. see Beggs, C.; et al., 91g:76047
- Chacón Rebollo, Tomás (with Hou, Thomas Y.) A Lagrangian finite element method for the 2-D Euler equations. 91h:65169
- Cliffe, K. A. (with Winters, K. H.) Numerical methods for predicting preferred and anomalous flows in Bénard convection. 91g:76036
- Comincioli, Valeriano see Bruch, J. C., Jr., (91g:00044)
- Crochet, M. J. (with Delvaux, V.) Numerical simulation of inertial viscoelastic flow with change of type. 91g:76006
- Croisille, Jean-Pierre see Bourdel, Françoise; et al., 91c:76088
- Dahle, Helge K. (with Espedal, Magne S.; Ewing, Richard E.; Sevareid, Ove) Characteristic adaptive subdomain methods for reservoir flow problems. 91k:76127
- Dawson, Clint N. (with Russell, T. F.; Wheeler, Mary F.) Some improved error estimates for the modified method of characteristics. 91a:65229
- Godunov-mixed methods for immiscible displacement. 91g:76070
- Delorme, Philippe see Bourdel, Françoise; et al., 91c:76088
- Delvaux, V. see Crochet, M. J., 91g:76006
- Dervieux, A. see Desideri, J. A., 91d:76057
- Desideri, J. A. (with Dervieux, A.) Compressible flow solvers using unstructured grids. 91d:76057
- Dina, A. see Dragos, Lazar, 91k:76092
- Djomehri, M. J. see Straughan, Brian; et al., 91c:76059
- Dörfler, W. The conditioning of the stiffness matrix for certain elements approximating the incompressibility condition in fluid dynamics. 91k:65142
- Dragos, Lazar (with Dinu, A.) Application of the boundary integral equation methods to subsonic flow past bodies and wings. 91k:76092
- Du, Qiang (with Gunzburger, Max D.) Finite-element approximations of a Ladyzhenskaya model for stationary incompressible viscous flow. 91e:65123
- Durany, J. see Bermúdez de Castro, Alfredo, 91c:76036 and (91g:00044)
- Elliott, Charles M. see Barrett, John W., 91m:65269 and (91g:00044)
- Espedal, Magne S. see Dahle, Helge K.; et al., 91k:76127
- Ewing, Richard E. see Straughan, Brian; et al., 91c:76059 and Dahle, Helge K.; et al., 91k:76127
- Fang, Zhong Sheng (with Parachivov, I.) Solutions of the full potential equation using

- exact integral method. 91b:76086
- Feistauer, Miloslav (with Kalis, Harij; Rokyta, Mirko) Mathematical modelling of an electrolysis process. 91d:35081
- Fichtner, Wolfgang see Bank, Randolph E.; et al., 91b:65175
- Friedrich, Lutz see Lube, Gert, 91b:65176
- Gardner, G. A. see Gardner, L. R. T., 91m:65248
- Gardner, L. R. T. (with Gardner, G. A.) Solitary waves of the regularised long-wave equation. 91m:65248
- Gellert, M. see Harbord, R., 91g:76021
- Giralet, V. Curl-conforming finite element methods for Navier-Stokes equations with nonstandard boundary conditions in R^3 . 91k:65143
- (Gresho, Philip M.) see Conference: Finite Elements in Flow Problems, 91e:76006
- Gunzburger, Max D. (with Hou, L.; Svobodny, T. P.) Analysis and finite element approximation of optimal control problems for the stationary Navier-Stokes equations with distributed and Neumann controls. 91m:65182
- (with Meir, Amnon J.; Peterson, Janet S.) On the existence, uniqueness, and finite element approximation of solutions of the equations of stationary, incompressible magnetohydrodynamics. 91m:76127
- see also Du, Qiang, 91e:65123
- Hamada, Hozumi see Tabata, Masahisa; et al., 91k:65145
- Harbord, R. (with Gellert, M.) Progress in symmetric formulation of the incompressible Navier-Stokes equations. 91g:76021
- Ho, Lee-Wing (with Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. 91g:76077
- Hou, L. see Gunzburger, Max D.; et al., 91m:65182
- Hou, Thomas Y. see Chacón Rebollo, Tomás, 91b:65169
- Hsiao, G. C. The coupling of BEM and FEM—a brief review. 91c:65071
- Hu, Howard H. (with Lundgren, Thomas S.; Joseph, Daniel D.) Stability of core-annular flow with a small viscosity ratio. 91g:76023
- Ha, Xian Cheng (with Li, Jin) An adaptive finite element method for convection-diffusion equations in one dimension. (Chinese. English summary) 91g:65184
- Hughes, Thomas J. R. see Shakh, Farzin; et al., 91b:65070
- Jacobs, P. G. see Stranghan, Brian; et al., 91e:76059
- Jensen, Søren S. (with Vogelius, Michael) Divergence stability in connection with the p -version of the finite element method. (French summary) 91m:65261
- Johan, Zdeněk see Shakh, Farzin; et al., 91b:65070
- Johnson, Claes Adaptive finite element methods for diffusion and convection problems. 91k:65134
- Joseph, Daniel D. see Hu, Howard H.; et al., 91b:76023
- Jureidini, Wadi N. see Baker, Garth A.; et al., 91m:65246
- Kalis, Harij see Feistauer, Miloslav; et al., 91d:35081
- Karakashian, Oshanes A. see Baker, Garth A.; et al., 91m:65246
- Kim, Jong Uhn A finite element approximation of three-dimensional motion of a Bingham fluid. (French summary) 91g:76012
- Kim, Moon Uhn see Lee, Han-Yong, 91g:76081
- Kock, Ellen (with Olson, Lorraine) Fluid-structure interaction analysis by the finite element method—a variational approach. 91m:73059
- Lauerová, Dana The Rothe method and time periodic solutions to the Navier-Stokes equations and equations of magnetohydrodynamics. (Russian and Czech summaries) 91e:35175
- Lee, Han-Yong (with Kim, Moon Uhn) Numerical solution of plane and axially symmetric jet flow problems based on the variational inequality formulation. 91g:76081
- Le Tallec, Patrick (with Ravachol, Michel) Finite element approximation of viscoelastic progressively incompressible flows. 91b:65171
- Li, Guo Wei see Li, Kai Tai; et al., 91g:76046
- Li, Jin see Hu, Xian Cheng, 91g:65184
- Li, Kai Tai (with Liu, Zhi Xing; Li, Guo Wei) Finite element-arc length continuation simulations for spherical Couette-Taylor flow. 91g:76046
- Lia, Gao Lian General variational-principle family for fully 3-D unsteady transonic flow with shocks around oscillating wings. 91k:76093
- Liu, Zhi Xing see Li, Kai Tai; et al., 91g:76046
- Lube, Gert (with Friedrich, Lutz) Finite element methods of streamline diffusion type for singularly perturbed quasilinear elliptic boundary value problems. (German summary) 91b:65176
- Lundgren, Thomas S. see Hu, Howard H.; et al., 91b:76023
- MacCamy, Richard C. see Bielak, J., 91m:65270
- Maday, Yvon see Ho, Lee-Wing; et al., 91g:76077
- Manolis, G. D. see Pelekasis, N. A.; et al., 91f:76032
- Mazet, Pierre-Alain see Bourdel, Françoise; et al., 91g:76088
- Meir, Amnon J. see Gunzburger, Max D.; et al., 91m:76127
- van Niekerk, A. (with van Niekerk, F. D.) An explicit finite element method for convection-diffusion equations using rational basis functions. 91d:65174
- (with van Niekerk, F. D.) A Galerkin method with rational basis functions for Burgers equation. 91b:65174
- van Niekerk, F. D. see van Niekerk, A., 91d:65174 and 91b:65174
- Olson, Lorraine see Kock, Ellen, 91m:73059
- Ozeki, Yoshikichi see Tabata, Masahisa; et al., 91k:65145
- Parachiroiu, I. see Fang, Zhong Sheng, 91b:76086
- Parés, Carlos see Bégue, C.; et al., 91g:76047
- Pasciak, Joseph E. see Bramble, James H., 91b:65188
- Patera, Anthony T. see Ho, Lee-Wing; et al., 91g:76077
- Pelekasis, N. A. (with Tsamopoulos, J. A.; Manolis, G. D.) Equilibrium shapes and stability of charged and conducting drops. 91f:76032
- Peterson, Janet S. see Gunzburger, Max D.; et al., 91m:76127
- Pinsky, Peter M. (with Abboud, Najib N.) Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. 91m:76106
- Pironneau, Olivier see Bégue, C.; et al., 91g:76047
- Ravachol, Michel see Le Tallec, Patrick, 91b:65171
- Rigal, Alain Numerical analysis of three-time-level finite difference schemes for unsteady diffusion-convection problems. 91k:65136
- Rodríguez-Fernández, Celso see Bermúdez de Castro, Alfredo; et al., 91k:76030
- Rokyta, Mirko see Feistauer, Miloslav; et al., 91d:35081
- Rønquist, Einar M. see Ho, Lee-Wing; et al., 91g:76077
- Rose, Milton E. Compact finite volume methods for the diffusion equation. 91b:65180
- Ruas, Vitoriano Approximation of the vector potential for viscous incompressible flow via the constant stress finite element. 91g:76044
- Russell, T. F. see Dawson, Clint N.; et al., 91a:65229
- Russo, Giovanni Deterministic diffusion of particles. 91k:76075
- Savareid, Ove see Dahle, Helge K.; et al., 91k:76127
- Sandri, Dominique see Baranger, Jacques, 91m:65268
- Schleweck, Friedhelm (with Tobiska, L.) A nonconforming finite element method of upstream type applied to the stationary Navier-Stokes equation. (French summary) 91g:65249
- Schulkes, R. M. S. M. Fluid oscillations in an open, flexible container. 91e:73097
- Shakh, Farzin (with Hughes, Thomas J. R.; Johan, Zdeněk) Element-by-element algorithms for nonsymmetric matrix problems arising in fluids. 91b:65070
- Shinkarenko, G. A. see Zubov, V. M., (Not in MR)
- Shoper, Petr I. Lagrangian-Eulerian numerical method for Navier-Stokes equations with weak boundary conditions at infinity. 91a:65232
- see also Bazhlekova, I. B., 91k:76046
- Smith, R. Kent see Bank, Randolph E.; et al., 91b:65175
- Stranghan, Brian (with Ewing, Richard E.; Jacobs, P. G.; Djomehri, M. J.) Nonlinear instability for a modified form of Burgers' equation. 91e:76059
- Svobodny, T. P. see Gunzburger, Max D.; et al., 91m:65182
- Tabata, Masahisa (with Ozeki, Yoshiichi; Hamada, Hozumi) Symmetric finite element computation of convection-diffusion equations on a URR machine. 91k:65145
- (Taylor, Cedric) see Conference: Finite Elements in Flow Problems, 91e:76006
- Tobiska, L. see Schleweck, Friedhelm, 91g:65249
- Tsamopoulos, J. A. see Pelekasis, N. A.; et al., 91f:76032
- de Vicente, Santiago Harmonic analysis of parasitic waves on a first-order artificial boundary for acoustic-wave equations. (Spanish) (see 91j:00015)
- Vilar, M. A. see Bermúdez de Castro, Alfredo; et al., 91k:76030
- Vogelius, Michael see Jensen, Søren S., 91m:65261
- Warnecke, Gerald G. see Berger, Harald; et al., 91h:76053
- Wendland, Wolfgang L. see Berger, Harald; et al., 91h:76053
- Wheeler, Mary F. see Dawson, Clint N.; et al., 91a:65229
- Winters, K. H. see Cliffe, K. A., 91g:76036
- Zheng, Quan A characteristic finite element method for solving Euler equations. (Chinese. English summary) 91b:65186
- Zhu, Jiang Characteristic numerical methods for nonlinear RLW equations. (Chinese. English summary) 91g:65203
- Zubov, V. M. (with Shinkarenko, G. A.) Convergence of the regularization method for a boundary value problem for the Navier-Stokes equations. (Ukrainian. Russian summary) (Not in MR)

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- Finite Elements in Flow Problems ★ The Seventh International Conference on Finite Elements in Flow Problems. 91e:76006
- Huntsville, AL ★ The Seventh International Conference on Finite Elements in Flow Problems. 91e:76006

76M15 Boundary element methods

- Alajević, Andro see Skerget, Polje; et al., 91b:76030
- Amini, S. (with Chen, Ke) Iterative techniques for boundary element methods—application to the exterior acoustic problem. 91e:76077
- Brebbia, C. A. see Skerget, Polje; et al., 91b:76030
- Chen, Ke see Amini, S., 91e:76077
- Collins, Ian F. see Pullian, A. J., (91f:00015)
- Dragos, Lazar Boundary element methods (BEM) in the theory of thin airfoils. 91c:76077
- Gavre, E. Estimates of errors arising in the computation of forces acting on rigid bodies in Stokes and potential flows due to variations in geometry. 91c:76078
- Hong, S. W. see Schultz, W. W., 91g:76067
- Kitagawa, Keichi ★ Boundary element analysis of viscous flow. 91m:76074
- Kuhn, Günther see Skerget, Polje; et al., 91b:76030
- Nachbin, A. (with Papanicolaou, George) The long time behaviour of a vectorized boundary element code for water wave problems. (see 91f:00015)
- Nath, G. see Sekar, S., (Not in MR)
- Papanicolaou, George see Nachbin, A., (91f:00015)
- Pullian, A. J. (with Collins, Ian F.) Boundary element analysis of quasilinearised infiltration. (see 91f:00015)
- Schultz, W. W. (with Hong, S. W.) Solution of potential problems using an overdetermined complex boundary integral method. 91a:76067
- Sekar, S. (with Nath, G.) Boundary element solution for Navier-Stokes equations in a constricted channel. (Not in MR)
- Skerget, Polje (with Alajević, Andro; Zagar, I.; Brebbia, C. A.; Kuhn, Günther) Time dependent three-dimensional laminar isochoric viscous fluid flow by the boundary element method. 91b:76030
- Wrobel, L. C. On the use of time-dependent fundamental solutions for the boundary element formulation of diffusion problems. 91e:76078
- Zagar, I. see Skerget, Polje; et al., 91b:76030

Items listed otherwise than by author

Lecture Notes in Engineering see Kitagawa, Keichi, 91m:76074

Items with secondary classifications in 76M15

Alajević, Andro see Skerget, Polje, 91b:76037

- Bassanini, Piero. *see* Pitelli, F.; et al., 91c76020
- Blake, J. R. *see* Lucas, S. K.; et al., (Not in MR)
- (Brebba, C. A.) *see* Advances in boundary elements, 91f00015
- Bulgarelli, U. *see* Pitelli, F.; et al., 91c76020
- (Connor, J. J.) *see* Advances in boundary elements, 91f00015
- Hsiao, G. C. The coupling of BEM and FEM—a brief review. 91c65071
- Huang, S.-C. *see* Shaw, Richard Paul, 91m76107
- Jin, Chao Song *see* Zhu, Jia Lin, 91f65186
- Kucera, Adam *see* Lucas, S. K.; et al., (Not in MR)
- Lucas, S. K. (with Blake, J. R.; Kucera, Adam) A boundary-integral method applied to water coning in oil reservoirs. (Not in MR)
- Manolis, G. D. *see* Pelekasis, N. A.; et al., 91f76032
- Pelekasis, N. A. (with Tsamopoulos, J. A.; Manolis, G. D.) Equilibrium shapes and stability of charged and conducting drops. 91f76032
- Pirozzi, M. A. On boundary conditions for the numerical solution of fluid dynamic problems. 91m65259
- Pitelli, F. (with Bassanini, Piero; Bulgarelli, U.) A numerical method for studying the interaction between a partially submerged body and the surrounding fluid. (Italian summary) 91c76020
- Shaw, Richard Paul (with Huang, S.-C.) The embedding integral equation method with application to acoustic problems. 91m76107
- Skerget, Polje (with Ahujić, Andro) Time dependent thermo-hydraulics by boundary elements. (Slovenian summary) 91c76037
- Tsamopoulos, J. A. *see* Pelekasis, N. A.; et al., 91f76032
- Zhu, Jia Lin (with Jin, Chao Song) Boundary element approximation of Stokes equation with slip boundary condition. 91f65186
- The boundary integral equation method for incompressible viscous flows with slip boundary condition. 91f76045

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Advances in boundary elements ★ Advances in boundary elements. Vol. 2. 91f00015

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76M20 Finite difference methods

- Abalakin, I. V. (with Elizaveta, T. G.; Chetverushkin, B. N.) Implicitly kinetically-consistent schemes for calculating stationary problems in gas dynamics. (Russian. English summary) 91k76116
- Ahla, L. A totally discrete spectral scheme for a nonlinear equation modelling flows in fluidized beds. (Spanish) (see 91f00015)
- Ampomah, R. A. Some practical problems in the application of "artificial viscosity method". 91g76068
- Anderson, Dale A. (with Tannehill, John C.; Fletcher, R.) ★ Вычислительная гидромеханика и теплообмен. Том 1, 2. (Russian) [Computational fluid mechanics and heat transfer. Vol. 1, 2] 91f76041
- Bellurdu, Philippe *see* Yang, Gao Lu; et al., (Not in MR)
- Ben-Artzi, Matania (with Birman, Amnon) Computation of reactive duct flows in external fields. 91g76069
- Birman, Amnon *see* Ben-Artzi, Matania, 91g76069
- Borisov, Adriyan V. (with Karamayev, V. B.) A higher-order scheme for solving stationary problems in aerodynamics. (Russian) (Not in MR)
- Bourgade, A. (with Jourdain, H.; Ovadia, J.) Problème de Riemann en hydrodynamique et applications. [The Riemann problem in hydrodynamics, and applications] 91k76079
- Brandt, Achi (with Yavneh, I.) Inadequacy of first-order upwind difference schemes for some recirculating flows. 91m76075
- Brenier, Yann A combinatorial algorithm for the Euler equations of incompressible flows. 91c76068
- Casulli, Vincenzo (with Cheng, Ralph T.) Stability analysis of Eulerian-Lagrangian methods for the one-dimensional shallow-water equations. 91d76056
- Charakhchyan, A. A. *see* Goncharov, V. A.; et al., 91c76079
- Cheer, A. (with Saleem, M.) Acceleration of convergence by shifting the spectrum of implicit finite difference operators associated with the equations of gas dynamics. 91m76076
- Cheng, Ralph T. *see* Casulli, Vincenzo, 91d76056
- Chetverushkin, B. N. *see* Abalakin, I. V.; et al., 91k76116
- Clark, Terry L. (with Hall, William D.) Multi-domain simulations of the time dependent Navier-Stokes equations: benchmark error analysis of some nesting procedures. (Not in MR)
- Cohen, Gary (with Joly, Patrick) Fourth order schemes for the heterogeneous acoustics equation. 91k76117
- Dawson, Clint N. Godunov-mixed methods for immiscible displacement. 91g76070
- Dervieux, A. *see* Desideri, J. A., 91d76057
- Desideri, J. A. (with Dervieux, A.) Compressible flow solvers using unstructured grids. 91d76057
- Dinar, Nathan (with Keller, Herbert B.) Computations of Taylor vortex flows using multigrid continuation methods. 91c76079
- Einfeldt, B. (with Munz, C.-D.; Roe, P. L.; Sjögren, B.) On Godunov-type methods near low densities. 91k76118
- Elizaveta, T. G. *see* Gurov, D. B., 91f76046 and Abalakin, I. V.; et al., 91k76116
- Glaister, P. An algorithm for isentropic flow. 91c76080
- Glazyrina, L. L. (with Pavlova, M. F.) Numerical solution of a nonstationary problem of the simultaneous motion of ground and surface waters. (Russian) (Not in MR)
- Goncharov, V. A. (with Krivtsov, V. M.; Charakhchyan, A. A.) A numerical scheme for modeling subsonic flows of a viscous compressible gas. 91c76079
- Gao, Ben Yu (with Xiong, Yeu Shan) A spectral-difference method for two-dimensional viscous flow. 91k76119
- Gurov, D. B. (with Elizaveta, T. G.) A method for constructing an algorithm for calculating the flows of a viscous incompressible fluid. (Russian) 91f76046
- Hall, William D. *see* Clark, Terry L., (Not in MR)
- Hemker, P. W. (with Koren, Barry) Defect correction and nonlinear multigrid for the steady Euler equations. 91d76058
- Hu, You Qiu A multistep implicit scheme for time-dependent 2-dimensional magnetohydrodynamic flows. 91b76080
- Hui, W. H. *see* Loh, C. Y., 91d76060
- Ichinose, Kenichi *see* Tokunaga, Hiroshi; et al., (Not in MR)
- Joly, Patrick *see* Cohen, Gary, 91k76117
- Jourdren, H. *see* Bourgade, A.; et al., 91b76079
- Karabut, E. A. Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. I. Determination of the coefficients of the power series. (Russian) 91k76120
- Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. II. Determination of singular points. (Russian) 91k76121
- Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. III. Change of variables in the power series. (Russian) 91k76122a
- Application of power series in the time variable in a problem on the motion of a cylindrical cavity in a fluid. IV. Asymptotic properties of the coefficients of the power series. (Russian) 91k76122b
- Karamayev, V. B. *see* Borisov, Adriyan V., (Not in MR)
- Kayumov, Sh. (with Sadykov, M. K.) A regularized difference scheme for solving boundary value problems of nonlinear filtration. (Russian) 91c76080
- Keller, Herbert B. *see* Dinar, Nathan, 91c76079
- Kolobov, B. P. (with Korobitsyna, Zh. L.; Piyasunova, A. V.; Sleptsov, A. G.) The collocation-difference method on moving grids of numerical modeling of boundary layers. (Russian) 91k76031
- Koren, Barry (with Spekreijse, Stefan) Multigrid and defect correction for the efficient solution of the steady Euler equations. (see 91k76003)
- Upwind discretization of the steady Navier-Stokes equations. 91d76059
- *see also* Hemker, P. W., 91d76058
- Koretskii, V. V. (with Lyubimov, D. A.) A modified approximate factorization method for computing potential three-dimensional flows in channels. (Russian) 91m76077
- Korobitsyna, Zh. L. *see* Kolobov, B. P.; et al., 91k76031
- Kozlov, V. E. Increasing the stability of an implicit upwind scheme with three-point scalar sweeps for Euler equations. (Russian) 91f76047
- (Kraika, A. N.) *see* Anderson, Dale A.; et al., 91f76041
- Krivtsov, V. M. *see* Goncharov, V. A.; et al., 91c76079
- Kuznetsov, A. E. (with Strelets, M. Kh.; Shur, M. L.) Calculation of steady-state three-dimensional flows of viscous gases and chemically reacting gas mixtures. (Russian) 91m76078
- Lax, Melvin *see* Yudanin, B., 91m76081
- Liao, Wen Yu Numerical computation of two-dimensional flow with shock waves—the PBLM method for two-dimensional flow. 91k76123
- Loh, C. Y. (with Hui, W. H.) A new Lagrangian method for steady supersonic flow computation. I. Godunov scheme. 91d76060
- Lyubimov, D. A. *see* Koretskii, V. V., 91m76077
- Makhmudov, A. A. (with Popov, S. P.) A numerical scheme for solving equations of a boundary layer with self-induced pressure. (Russian) 91m76079
- Mazhukin, V. I. *see* Vasilievskii, V. F., 91k76124
- Melder, Wim A. Multigrid for the one-dimensional inviscid Burgers equation. 91c76081
- Munz, C.-D. *see* Einfeldt, B.; et al., 91k76118
- Noye, John Some explicit three-level finite-difference simulations of advection. (Not in MR)
- Some three-level finite difference methods for simulating advection in fluids. 91f76048
- Ovadia, J. *see* Bourgade, A.; et al., 91b76079
- Pavlova, M. F. *see* Glazyrina, L. L., (Not in MR)
- Plachukov, V. I. Algorithms for monotization of difference schemes of improved accuracy. (Russian) 91k76060
- Compact schemes of improved accuracy for solving equations of a viscous gas. (Russian) (Not in MR)
- Pletcher, R. *see* Anderson, Dale A.; et al., 91f76041
- Piyasunova, A. V. *see* Kolobov, B. P.; et al., 91k76031
- (Podvitz, G. L.) *see* Anderson, Dale A.; et al., 91f76041
- Popov, A. V. ★ Исследование конечно-разностного метода для системы уравнений одномерного движения вязкого теплопроводного газа в переменных Эйлера. (Russian) [Investigation of the finite-difference method for the system of equations of one-dimensional motion of a viscous heat-conducting gas in Euler variables] 91c76082
- Popov, S. P. *see* Makhmudov, A. A., 91m76079
- Roe, P. L. *see* Einfeldt, B.; et al., 91k76118
- Rosow, Cord-Christian ★ Berechnung von Strömungsfeldern durch Lösung der Euler-Gleichungen mit einer erweiterten Finite-Volumen Diskretisierungsmethode. (German) [Computation of flow fields by the solution of Euler equations using an extended finite volume discretization scheme] 91k76081
- Sadykov, M. K. *see* Kayumov, Sh., 91c76080
- Saleem, M. *see* Cheer, A., 91m76076
- Sapagovas, Mifodijus *see* Vitkankas, Gediminas; et al., 91c76081
- Sapagovienė, Dangutė *see* Vitkankas, Gediminas; et al., 91c76081
- Satozuka, Nobuyuki *see* Tokunaga, Hiroshi; et al., (Not in MR)
- (Senin, S. V.) *see* Anderson, Dale A.; et al., 91f76041
- (Shal'man, E. Yu.) *see* Anderson, Dale A.; et al., 91f76041
- Shur, M. L. *see* Kuznetsov, A. E.; et al., 91m76078
- Sjögren, B. *see* Einfeldt, B.; et al., 91k76118
- Sleptsov, A. G. *see* Kolobov, B. P.; et al., 91k76031
- Spekreijse, Stefan *see* Koren, Barry, (91k76003)
- Stikonas, Artūras A difference scheme for equations of the symmetric motion of a viscous heat-conducting gas. (Russian. English and Lithuanian summaries) 91c76083
- Strelets, M. Kh. *see* Kuznetsov, A. E.; et al., 91m76078
- Tannehill, John C. *see* Anderson, Dale A.; et al., 91f76041
- Temperville, André *see* Yang, Gao Lu; et al., (Not in MR)

- Thomaidis, George (with Zygourakis, Kyriacos; Wheeler, Mary F.) An explicit finite difference scheme based on the modified method of characteristics for solving convection-diffusion problems in one space dimension. 91a:76069
- Tokunaga, Hiroshi¹ (with Ichinose, Kenichi; Satofuka, Nobuyuki) Numerical simulation of instability on plane Poiseuille flow using eighth order accurate method of lines. (Not in MR)
- Vasilievskii, V. F. (with Mazhukin, V. I.) Calculation of shock waves on grids with dynamic adaptation. (Russian) 91k:76124
- Vitkauskas, Gediminas (with Sapagovas, Mifodijus; Sapagovienė, Dangutė) A numerical method for solving the Reynolds equation in spherical coordinates. (Russian. English and Lithuanian summaries) 91e:76081
- Volosovskii, A. S. A variant of the splitting method and implicit realization of boundary conditions for the solution of Navier-Stokes equations in a curvilinear coordinate system. (Russian) 91m:76080
- Vorozhtsov, I. I. (with Yumashev, V. L.) Approximation properties of an implicit difference scheme for the equations of gas dynamics. (Russian) 91f:76042
- Wendroff, Burton The stability of MacCormack's method for the scalar advection equation. (Not in MR)
- Wheeler, Mary F. see Thomaidis, George; et al., 91a:76069
- Xiong, Yeu Shan see Guo, Ben Yu, 91k:76119
- Xu, Guo Rong see Zhou, Yu Lin, 91k:76125
- Yan, Chun Tao High accurate scheme for Boussinesq equation. 91d:76061
- Yang, Guo Lu (with Belleudy, Philippe; Temperville, André) A higher-order Eulerian scheme for coupled advection-diffusion transport. (Not in MR)
- Yavneh, I. see Brandt, Achil, 91m:76075
- Yudania, B. (with Lax, Melvin) Post adaptation for a numerical solution of the spherically-symmetric Riemann problem. 91m:76081
- Yumashev, V. L. see Vorozhtsov, I. I., 91f:76042
- Zhang, Lin Bo A second-order upwinding finite difference scheme for the steady Navier-Stokes equations in primitive variables in a driven cavity with a multigrid solver. (French summary) 91d:76062
- Zhou, Yu Lin (with Xu, Guo Rong) Methods of numerical solution of inviscid flow fields in a streamline coordinate system. (Chinese. English summary) 91k:76125
- Zygourakis, Kyriacos see Thomaidis, George; et al., 91a:76069
- Items with secondary classifications in 76M20
- Abd-el-Malek, M. B. (with Boutros, Y. Z.; Badran, N. A.) Group method analysis of unsteady free-convective laminar boundary-layer flow on a nonisothermal vertical flat plate. 91g:76085
- Alvarez, S. J. (with Carrillo, José; Díaz Díaz, Jesús Ildefonso) Cavitation in lubrication: an evolution model. (see 91j:00015)
- Ansorge, Rainer (with Blanck, M. L.) On the numerical treatment of Prandtl's boundary-layer equations via Crocco's transformation. 91g:76024
- Antonov, A. N. (with Elizaveta, T. G.; Chetverushkin, B. N.; Sheretov, Yu. V.) Numerical modeling of pulsation regimes in a supercavitating flow around a hollow cylinder. (Russian) 91c:76065
- Aristov, V. V. (with Ivanov, Mikhail Samuilovich; Cheremisin, F. G.) Solution of a problem on one-dimensional heat transfer in a rarefied gas by two methods. (Russian) 91c:76086
- Badran, N. A. see Abd-el-Malek, M. B.; et al., 91g:76085
- Ben-Artzi, Matania Numerical calculations of reacting flows. 91e:65143
- Blanck, M. L. see Ansorge, Rainer, 91g:76024
- Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113
- Boutros, Y. Z. see Abd-el-Malek, M. B.; et al., 91g:76085
- Brown, S. N. (with Cheng, H. K.; Lee, C. J.) Inviscid-viscous interaction on triple-deck scales in a hypersonic flow with strong wall cooling. 91h:76055
- Bykadorova, O. V. (with Kuznetsov, B. G.) Investigation of a difference problem for a model of a baroclinic ocean. (Russian) (Not in MR)
- Carrillo, José see Alvarez, S. J.; et al., (91j:00015)
- Chakrabarty, S. K. see Subramanian, N. R., (91c:00035)
- Chakrabarty, Sukumar R. High resolution upwind formulations for the Navier-Stokes equations. 91h:76061
- Chalabi, Abdallah Analyse de schémas décentrés pour des lois de conservation bidimensionnelles non homogènes. (English summary) [An analysis of upwind schemes for inhomogeneous two-dimensional conservation laws] 91h:65133
- Charakhchyan, A. A. Computation of viscous plasma heating under compression by a striker in a conical target. (Russian) 91g:76106
- Cheng, H. K. see Brown, S. N.; et al., 91h:76055
- Cheremisin, F. G. see Aristov, V. V.; et al., 91c:76086
- Chesshire, G. (with Hanshaw, W. D.) Composite overlapping meshes for the solution of partial differential equations. 91f:76043
- Chetverushkin, B. N. see Antonov, A. N.; et al., 91c:76065
- Čiegis, Raimondas (with Čiupaila, Regimantas J.) Some aspects of the solution of stationary problems of fluid-metal contact. (Russian. English and Lithuanian summaries) 91j:76073
- Čiupaila, Regimantas J. see Čiegis, Raimondas, 91j:76073
- Colella, Phillip Multidimensional upwind methods for hyperbolic conservation laws. 91c:76087
- Coquel, Frédéric (with Le Floch, Philippe) Convergence of finite difference schemes for conservation laws in several space dimensions: the corrected antidiffusive flux approach. 91m:65229
- Cottet, Georges-Henri A particle-grid superposition method for the Navier-Stokes equations. 91e:76082
- Dahle, Helge K. (with Espedal, Magne S.; Ewing, Richard E.; Severeid, Ove) Characteristic adaptive subdomain methods for reservoir flow problems. 91k:76127
- De Angelis, P. L. (with Murli, A.; Pirozzi, M. A.) A tridimensional convection-diffusion numerical model for a basin. 91f:76049
- Dennis, S. C. R. see Smith, F. T., (Not in MR)
- Díaz Díaz, Jesús Ildefonso see Alvarez, S. J.; et al., (91j:00015)
- Dick, Erik Relaxation solution of steady flow equations. 91h:76063
- Egorov, I. V. (with Zaitsev, O. L.) An approach to the numerical solution of two-dimensional Navier-Stokes equations by the through calculation method. (Russian) 91m:65307
- Elizaveta, T. G. see Antonov, A. N.; et al., 91c:76065
- Espedal, Magne S. see Dahle, Helge K.; et al., 91k:76127
- Ewing, Richard E. see Dahle, Helge K.; et al., 91k:76127
- Falqués, Alberto A boundary reduction method for the dynamics of a fluid with free surface. (Spanish. English summary) 91a:76014
- Favorskii, A. P. see Vyznitskov, K. V.; et al., 91j:65147
- von Flackenstein, Karl Graf Flack Difference methods for quasilinear parabolic systems from plasma physics. (Not in MR)
- Frezzi, Aldo Numerical computation of rarefied gas flows. (see 91g:00040)
- Gagneux, Gérard (with Lefevre, A.-M.; Madaune-Tort, Monique) An implicit time-stepping scheme for polyphasic flows in porous media including coupled quasi-linear inequalities. 91c:76112
- Garzaiz, Xabier (with Glimm, James; Guo, W.) Elastic deformation and slug flow as applications of front tracking. 91d:73063
- Gasilov, V. A. (with Maslyanin, V. I.; Simonovich, I. P.) Some properties of differential and difference equations of quasi-gas-dynamic type. (Russian) 91e:76089
- Glaskov, Yu. V. (with Tirkil, G. A.; Scherbak, V. G.) A method for solving parabolized Navier-Stokes equations using global iterations. (Russian. English summary) 91m:76085
- Glimm, James see Garzaiz, Xabier; et al., 91d:73063
- Goodrich, John W. (with Gustafson, Karl; Halasi, Kadosa) Hopf bifurcation in the driven cavity. 91j:65177
- Guo, W. see Garzaiz, Xabier; et al., 91d:73063
- Gustafson, Karl see Goodrich, John W.; et al., 91j:65177
- Halasi, Kadosa see Goodrich, John W.; et al., 91j:65177
- Hanshaw, W. D. see Chesshire, G., 91f:76043
- Harabetian, Edward A numerical method for viscous perturbations of hyperbolic conservation laws. 91h:65129
- Hickey, K. A. see Loyalka, S. K., 91e:76096
- Ho, Lee-Wing (with Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. 91g:76065
- (with Mada, Yvon; Patera, Anthony T.; Renquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. 91g:76077
- Huang, Lan Jie The ULWC finite difference scheme for the numerical solution of incompressible Navier-Stokes equations. 91h:65199
- Irsell, M. see Tomboulides, A. G.; et al., 91e:76084
- Ivanov, Mikhail Samuilovich see Aristov, V. V.; et al., 91c:76086
- Karniadakis, G. E. see Tomboulides, A. G.; et al., 91e:76084
- Keller, Herbert B. see Schröder, Wolfgang, 91f:76017
- Khaznov, M. V. A problem on a piston in the motion of a fluid with a free surface in a channel of circular cross section. 91g:76007
- Klopfer, G. H. see Yee, H. C.; et al., 91k:76101
- Kobeltov, G. M. (with Orlova, N. B.) A fast method for solving the Stokes problem. 91d:65162
- Korobitsyn, V. A. Axisymmetric difference operators in an orthogonal coordinate system. 91e:76092
- The method of basis operators for constructing operator difference schemes. (Russian. English summary) 91h:65205
- The method of basis operators for constructing difference schemes in a curvilinear orthogonal coordinate system. (Russian. English summary) 91j:65182
- Kudryavtsev, A. N. (with Solov'ev, A. S.) An adaptive numerical method for solving problems with large gradients. (Russian) 91d:65146
- Kumar, Prem (with Narayanan, P. Sambath; Rout, Sarbeswar) Quasilinearized solution of two-component laminar natural convection boundary layer over a vertical plate with thermal diffusion and diffusion thermo effects. 91d:76071
- Kuznetsov, B. G. see Bykadorova, O. V., (Not in MR)
- Larsson, Bernard Problème de Riemann et approximation numérique pour les équations d'Euler multi-espèces. (English summary) [Riemann problem and numerical approximation for the multicomponent Euler equations] 91h:65130
- Lee, C. J. see Brown, S. N.; et al., 91h:76055
- Lefevre, A.-M. see Gagneux, Gérard; et al., 91c:76112
- Le Floch, Philippe see Coquel, Frédéric, 91m:65229
- Li, Jian² (with Sun, Jia Chang) Applications of generalized mean difference schemes to convection-diffusion equations. 91d:65203
- Lifshits, Yu. B. (with Sakovich, V. S.) The potential approximation in the theory of conical flows. 91k:76133
- Loyalka, S. K. (with Hickey, K. A.) The Kramers problem: velocity slip and defect for a hard sphere gas with arbitrary accommodation. 91e:76096
- Madaune-Tort, Monique see Gagneux, Gérard; et al., 91c:76112
- Mada, Yvon see Ho, Lee-Wing; et al., 91g:76077
- Mao, De Kang A treatment of discontinuities in shock-capturing finite difference methods. 91k:65130
- Maslyanin, V. I. see Gasilov, V. A.; et al., 91e:76089
- Menshov, I. S. Increase in the approximation order for Godunov's scheme on the basis of the solution of the generalized Riemann problem. (Russian) 91m:76093
- Michaux, B. (with Rakotoson, Jean-Michel; Shen, Jie) On the approximation of a quasilinear mixed problem. (French summary) 91j:65184
- Montagné, J.-L. see Yee, H. C.; et al., 91k:76101
- Moore, D. R. (with Weiss, N. O.; Wilkins, J. M.) The reliability of numerical experiments: transitions to chaos in thermosolutal convection. 91h:76037
- Müller, Bernhard Linear stability condition for explicit Runge-Kutta methods to solve the compressible Navier-Stokes equations. 91d:65133
- Murli, A. see De Angelis, P. L.; et al., 91f:76049
- Narayanan, P. Sambath see Kumar, Prem; et al., 91d:76071
- Neszyba, Haim (with Tadmor, Eitan) Nonoscillatory central differencing for hyperbolic conservation laws. 91h:65157
- Orlova, N. B. see Kobeltov, G. M., 91d:65162

- Park, Hwasin *see* Strovich, Lawrence, 91g:76053
- Patena, Anthony T. *see* Ho, Lee-Wing, 91g:76065 and 91g:76077
- Perkins, A. Louise (with Rodrigue, Garry) A domain decomposition method for solving a two-dimensional viscous Burgers' equation. 91h:65209
- Pirazzarova, T. E. Numerical modeling of two-phase filtration of immiscible fluids taking capillary forces into account. (Russian) 91c:76107
- Pirozzi, M. A. *see* De Angelis, P. L.; et al., 91g:76049
- Rakotoson, Jean-Michel *see* Michaux, B.; et al., 91g:65184
- Rodrigue, Garry *see* Perkins, A. Louise, 91h:65209
- Ranquist, Einar M. *see* Ho, Lee-Wing; et al., 91g:76077
- Rose, Milton E. Compact finite volume methods for the diffusion equation. 91h:65180
- Rothmayer, A. P. Zones of influence in a two-dimensional, unsteady, hypersonic boundary layer. 91k:76100
- Rout, Sarbeswar *see* Kumar, Prem; et al., 91d:76071
- Savarid, Ove *see* Dahle, Helge K.; et al., 91k:76127
- Sakovich, V. S. *see* Lifshits, Yu. B., 91k:76133
- de Sampaio, P. A. B. A Petrov-Galerkin/modified operator formulation for convection-diffusion problems. 91c:76076
- Schröder, Wolfgang² (with Keller, Herbert B.) Wavy Taylor-vortex flows via multigrid-continuation methods. 91h:76017
- Shcherbak, V. G. *see* Glazkov, Yu. V.; et al., 91m:76085
- Shes, Jie *see* Michaux, B.; et al., 91g:65184
- Sheretov, Yu. V. *see* Antonov, A. N.; et al., 91c:76065
- Shokin, Yu. I. (with Urusov, A. I.) Differential representation of difference schemes with time-dependent coefficients. 91h:65156
- Simonovich, I. P. *see* Gasilov, V. A.; et al., 91c:76089
- Strovich, Lawrence (with Park, Hwasin) Turbulent thermal convection in a finite domain. I. Theory. 91g:76053
- Smith, F. T. (with Dennis, S. C. R.) Computations on flow past an inclined flat plate of finite length. (Not in MR)
- Solov'ev, A. S. *see* Kudryavtsev, A. N., 91d:65146
- Sowa, Johan Stability of a Runge-Kutta method for the Navier-Stokes equation. 91h:76065
- Stuart, Andrew A note on high/low-wave-number interactions in spatially discrete parabolic equations. 91c:65080
- Subramanian, N. R. (with Chakraborty, S. K.) Some recent numerical methods for transonic flow computations. (see 91c:00035)
- Sun, Jia Chang *see* Li, Jian², 91d:65203
- Tadmor, Eitan *see* Nessyahu, Haim, 91h:65157
- Thompson, Kevin W. Time-dependent boundary conditions for hyperbolic systems. II. 91f:65156
- Tirskii, G. A. *see* Glazkov, Yu. V.; et al., 91m:76085
- Tishkin, V. F. *see* Vyaznikov, K. V.; et al., 91g:65147
- Tolstykh, A. I. Compact approximations of the third order in algorithms for an incompressible fluid. 91c:76040
- Tomboulides, A. G. (with Israeli, M.; Karniadakis, G. E.) Efficient removal of boundary-divergence errors in time-splitting methods. 91c:76084
- Tveito, Aslak Convergence and stability of the Lax-Friedrichs scheme for a nonlinear parabolic polymer flooding problem. 91f:65152
- Urusov, A. I. *see* Shokin, Yu. I., 91h:65156
- Veldman, Arthur E. P. "Missing" boundary conditions? Discretize first, substitute next, and combine later. 91d:65211
- Vyaznikov, K. V. (with Tishkin, V. F.; Favorukii, A. P.) Quasimonotone difference schemes of an increased order of approximation on nonuniform grids. (Russian) 91g:65147
- Wang, Jing Hua Remarks on bounds on the discrepancy of approximate solutions constructed by Godunov's scheme. 91c:76093
- Weiss, N. O. *see* Moore, D. R.; et al., 91h:76037
- Wilkins, J. M. *see* Moore, D. R.; et al., 91h:76037
- Wittum, Gabriel Multi-grid methods for Stokes and Navier-Stokes equations. Transforming smoothers: algorithms and numerical results. 91a:65225
- On the convergence of multi-grid methods with transforming smoothers. Theory with applications to the Navier-Stokes equations. 91d:65156
- Yang, Dao Qi Mixed methods with dynamic finite-element spaces for miscible displacement in porous media. 91k:76114
- Yee, H. C. (with Klopfer, G. H.; Montagné, J.-L.) High-resolution shock-capturing schemes for inviscid and viscous hypersonic flows. 91k:76101
- Zaitsev, O. L. *see* Egorov, I. V., 91m:65307
- 76M25 Other numerical methods**
- Agishtein, Michael E. (with Migdal, Alexander A.) Dynamics of vortex surfaces in three dimensions: theory and simulations. 91c:76084
- Anderson, Christopher R. (with Greengard, Claude; Greengard, Leslie; Rokhlin, Vladimir V.) On the accurate calculation of vortex shedding. 91c:76085
- Antonov, S. N. (with Kashevarov, A. A.; Semenov, T. I.) An iterative method for solving a stationary problem on saturated-unsaturated filtration in a hydraulic approximation. (Russian) 91k:76126
- Aristov, V. V. (with Ivanov, Mikhail Samuilovich; Cheremisin, F. G.) Solution of a problem on one-dimensional heat transfer in a rarefied gas by two methods. (Russian) 91c:76086
- Augenbaum, Jeffrey M. Multidomain adaptive pseudospectral methods for acoustic wave propagation in discontinuous media. (see 91f:76004)
- Babarsky, Richard J. (with Wood, Houston G., III) Approximate eigensolutions for nonaxisymmetric rotating compressible flows. 91g:76071
- Baden, Scott B. (with Puckett, Elbridge Gerry) A fast vortex method for computing 2D viscous flow. (Not in MR)
- Baker, Gregory R. (with Meiron, Daniel I.; Orszag, Steven A.) Generalized vortex methods for free surface flow problems. II. Radiating waves. 91d:76063
- A study of the numerical stability of the method of contour dynamics. 91g:76049
- Beale, J. Thomas On the accuracy of vortex methods at large times. 91a:76070
- Behnia, M. (with Wolfshtein, M.; de Vahl Davis, G.) A stable fast marching scheme for computational fluid mechanics. 91a:76071
- Belova, O. N. *see* Rusanov, V. V.; et al., 91k:76085
- Bermúdez de Castro, Alfredo (with Durany, J.) Solving some free boundary problems by a method of characteristics. (see 91g:00044)
- Borovskii, A. V. (with Galkin, A. L.; Primak, V. G.; Chizhonkov, E. V.) Methods for the simultaneous solution of equations of gas dynamics and the kinetics of a multiply charged plasma. (Russian) (Not in MR)
- Buttke, Thomas F. A fast adaptive vortex method for patches of constant vorticity in two dimensions. 91g:76072
- Caffisch, Russel E. (with Lowengrub, John S.) Convergence of the vortex method for vortex sheets. 91g:76073
- Chakravarthy, Sukumar R. High resolution upwind formulations for the Navier-Stokes equations. 91h:76061
- Cheremisin, F. G. *see* Aristov, V. V.; et al., 91c:76086
- Cheshire, G. (with Hanshaw, W. D.) Composite overlapping meshes for the solution of partial differential equations. 91f:76043
- Chizhonkov, E. V. *see* Borovskii, A. V.; et al., (Not in MR)
- Chorin, Alexandre Joel Hairpin removal in vortex interactions. 91h:76062
- Clouqueur, A. *see* d'Humières, D.; et al., 91h:76064
- Colletta, Phillip Multidimensional upwind methods for hyperbolic conservation laws. 91c:76087
- Cottet, Georges-Henri (with Mas-Gallie, Sylvie; Raviart, P.-A.) Vortex methods for the incompressible Euler and Navier-Stokes equations. 91d:76064
- A particle-grid superposition method for the Navier-Stokes equations. 91c:76082
- (with Mas-Gallie, Sylvie) A particle method to solve the Navier-Stokes system. 91g:76074
- Cuvelier, C. (with Schulkes, R. M. S. M.) Some numerical methods for the computation of capillary free boundaries governed by the Navier-Stokes equations. 91m:76082
- Dahle, Helge K. (with Espedal, Magne S.; Ewing, Richard E.; Savareid, Ove) Characteristic adaptive subdomain methods for reservoir flow problems. 91k:76127
- DeKema, Sandra Kay (with Schultz, David H.) High-order methods for differential equations with large first-derivative terms. 91d:76065
- Dick, Erik Relaxation solution of steady flow equations. 91h:76063
- Ding, Yu (with Planchard, Jacques) Une méthode numérique pour le problème inverse des ondes acoustiques en régime harmonique diffractées par une surface rigide en 2D. [A numerical method for solving the inverse problem of acoustical waves diffracted by a two-dimensional rigid surface in a harmonic region] 91g:76075
- Don, Wai-Sun (with Gottlieb, David) Spectral simulations of an unsteady compressible flow past a circular cylinder. 91g:76076
- Dragos, Lazar On the integration of the equation of thin airfoils by quadrature formulae of Gauss type. (Not in MR)
- Durany, J. *see* Bermúdez de Castro, Alfredo, (91g:00044)
- Espedal, Magne S. *see* Dahle, Helge K.; et al., 91k:76127
- Ewing, Richard E. *see* Dahle, Helge K.; et al., 91k:76127
- Fischer, Thomas Manfred A Galerkin approximation for linear eigenvalue problems in two- and three-dimensional boundary-layer flows. 91m:76083
- Fishelov, Dalia Vortex methods for slightly viscous three-dimensional flow. 91c:76088
- Galkin, A. L. *see* Borovskii, A. V.; et al., (Not in MR)
- Ganatos, Peter *see* Weinbaum, Sheldon; et al., 91m:76087
- Gatski, Thomas B. Review of incompressible fluid flow computations using the vorticity-velocity formulation. 91m:76084
- Geyer, T. (with Wick, Joachim) A deterministic particle-method solving the linearized Boltzmann equation. (German summary) 91c:76089
- Glazkov, Yu. V. (with Tirskii, G. A.; Shcherbak, V. G.) A method for solving parabolized Navier-Stokes equations using global iterations. (Russian. English summary) 91m:76085
- Glimm, James (with Lindquist, W. Brent; Zhang, Qiang) Front tracking, oil reservoirs, engineering scale problems and mass conservation. 91k:76128
- Gottlieb, David *see* Don, Wai-Sun, 91g:76076
- Greengard, Claude *see* Anderson, Christopher R.; et al., 91c:76085
- Greengard, Leslie Potential flow in channels. 91c:76083
- *see also* Anderson, Christopher R.; et al., 91c:76085
- Gustafson, Karl A theory for computational vortex dynamics. 91k:76129
- Hanshaw, W. D. *see* Cheshire, G., 91f:76043
- Hatori, Tadatsugu Magnetohydrodynamic cellular automata. 91f:76044
- Ho, Lee-Wing (with Maday, Yvon; Patera, Anthony T.; Ranquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. 91g:76077
- d'Humières, D. (with Clouqueur, A.; Lallemand, P.) Lattice gases and parallel processors. 91h:76064
- (with Lallemand, P.; Qian, Yue Hong) Review of flow simulations using lattice gases. 91a:76072
- Israeli, M. *see* Tomboulides, A. G.; et al., 91c:76084
- Ivanov, Mikhail Samuilovich *see* Aristov, V. V.; et al., 91c:76086
- Jaubert, F. (with Rosier, C.; Temam, Roger) The nonlinear Galerkin method in computational fluid dynamics. 91g:76078
- (with Rosier, C.; Temam, Roger) A nonlinear Galerkin method for the Navier-Stokes equations. 91k:76130
- Johansen, Thorodd (with Tveito, Aslak; Winther, Ragnar) A Riemann solver for a two-phase multicomponent process. 91h:76082
- Kaniel, S. *see* Rivlin, J., 91d:76066
- Karagorghis, Andreas (with Phillips, Timothy N.) Conforming Chebyshev spectral collocation methods for the solution of laminar flow in a constricted channel. 91k:76131
- Karlin, V. A. *see* Rusanov, V. V.; et al., 91k:76085
- Karniadakis, G. E. *see* Tomboulides, A. G.; et al., 91c:76084
- Kashevarov, A. A. *see* Antonov, S. N.; et al., 91k:76126
- Klingenberg, Christian (with Plohr, Bradley J.) An introduction to front tracking. 91k:76132
- Kroll, Norbert ★ Berechnung von Strömungsfeldern um Propeller und Rotoren im Schwebeflug durch die Lösung der Euler-Gleichungen. (German) [Computation of flow

- fields around propellers and hovering rotors based on the solution of Euler equations] 91b:76083
- Lallemand, P. *see* d'Humières, D.; et al., 91a:76072 and 91b:76064
- Lifanov, I. K. Velocity calculation in the method of discrete vortices. 91m:76086
- Lifshits, Yu. B. (with Sakovich, V. S.) The potential approximation in the theory of conical flows. 91k:76133
- Lia, Avi Solving numerically the Navier-Stokes equations on parallel systems. 91c:76090
- Lindquist, W. Brent *see* Glimm, James; et al., 91k:76128
- Lowengrub, John S. *see* Cuffisch, Russel E., 91g:76073
- Maday, Yvon *see* Ho, Lee-Wing; et al., 91g:76077
- Marsilio, Roberto (with Moretti, Gino) Shock-fitting method for two-dimensional inviscid, steady supersonic flows in ducts. (Italian summary) 91a:76073
- Mas-Gallie, Sylvie *see* Cottet, Georges-Henri; et al., 91d:76064 and 91g:76074
- Meiron, Daniel I. *see* Baker, Gregory R.; et al., 91d:76063
- Meyer, Friedrich *★* Numerische Simulation der Transition in dreidimensionalen Grenzschichten. (German) [Numerical simulation of transition in three-dimensional boundary layers] 91c:76091
- Migdal, Alexander A. *see* Agishtein, Michael E., 91c:76084
- Moretti, Gino *see* Marsilio, Roberto, 91a:76073
- Orszag, Steven A. *see* Baker, Gregory R.; et al., 91d:76063
- Patera, Anthony T. *see* Ho, Lee-Wing; et al., 91g:76077
- Peyret, Roger The Chebyshev multidomain approach to stiff problems in fluid mechanics. 91g:76079
- Phillips, Timothy N. (with Soliman, Ibrahim M.) Influence matrix technique for the numerical spectral simulation of viscous incompressible flows. 91k:76134
— *see also* Karageorghis, Andreas, 91k:76131
- Planchard, Jacques *see* Ding, Yu, 91g:76075
- Plohr, Bradley J. *see* Klingenberg, Christian, 91k:76132
- Poltavskii, L. N. Convergence of the discrete vortex method in stationary problems in aerodynamics. 91c:76092
- Pritmak, V. G. *see* Borovskii, A. V.; et al., (Not in MR)
- Puckett, Elbridge Gerry *see* Baden, Scott B., (Not in MR)
- Qian, Yue Hong *see* d'Humières, D.; et al., 91a:76072
- Raviart, P.-A. *see* Cottet, Georges-Henri; et al., 91d:76064
- Renkema, A. J. (with Verstappen, R.; de Vries, R. W.; Zandbergen, P. J.) Some experiences with spectral methods. (see 91k:76003)
- Rivlin, J. (with Kaniel, S.) Numerical solution of the equations of compressible flow by a transport method. 91d:76066
- Rokhlin, Vladimir V. *see* Anderson, Christopher R.; et al., 91c:76085
- Romate, J. E. Local error analysis of three-dimensional panel methods in terms of curvilinear surface coordinates. 91b:76084
- Rønquist, Einar M. *see* Ho, Lee-Wing; et al., 91g:76077
- Rosier, C. *see* Jauberteau, F.; et al., 91g:76078 and 91k:76130
- Rostand, Philippe Kinetic boundary layers, numerical simulations. 91d:76067
- Rusanov, V. V. (with Belova, O. N.; Karlin, V. A.; Teryaev, S. E.) Some problems of the numerical solution of a problem on the supersonic flow of a viscous gas around blunt bodies. (Russian. English summary) 91b:76085
- Sevareid, Ove *see* Dahle, Helge K.; et al., 91k:76127
- Sakovich, V. S. *see* Lifshits, Yu. B., 91k:76133
- Schulkes, R. M. S. M. *see* Cuvelier, C., 91m:76082
- Schultz, David H. *see* Dekema, Sandra Kay, 91d:76065
- Semenko, T. I. *see* Antonov, S. N.; et al., 91k:76126
- Shcherbak, V. G. *see* Glazkov, Yu. V.; et al., 91m:76085
- Shen, Jie (with Temam, Roger) A new fractional scheme for the approximation of incompressible flows. (Portuguese summary) 91g:76080
- Soliman, Ibrahim M. *see* Phillips, Timothy N., 91k:76134
- Sowa, Johan Stability of a Runge-Kutta method for the Navier-Stokes equation. 91h:76065
- Spalart, Philippe R. Vortex methods for separated flows. 91a:76074
- Styczek, A. (with Zabusky, N. J.) The evolution of a plane, viscous vortex field. (Russian and Polish summaries) 91k:76135
- Temam, Roger *see* Jauberteau, F.; et al., 91g:76078; Shen, Jie, 91g:76080 and Jauberteau, F.; et al., 91k:76130
- Teryaev, S. E. *see* Rusanov, V. V.; et al., 91b:76085
- Tirskii, G. A. *see* Glazkov, Yu. V.; et al., 91m:76085
- Tolstykh, M. A. *see* Zakharov, Yu. N., (Not in MR)
- Tomboulides, A. G. (with Israeli, M.; Karniadakis, G. E.) Efficient removal of boundary-divergence errors in time-splitting methods. 91c:76084
- Tveito, Aslak *see* Johansen, Thorodd; et al., 91b:76082
- de Vahl Davis, G. *see* Behnia, M.; et al., 91a:76071
- Verstappen, R. *see* Renkema, A. J.; et al., (91k:76003)
- de Vries, R. W. *see* Renkema, A. J.; et al., (91k:76003)
- Weinbaum, Sheldon (with Ganatos, Peter; Yan, Zong Yi) Numerical multipole and boundary integral equation techniques in Stokes flow. 91m:76087
- Wick, Joachim *see* Geyer, T., 91c:76089
- Winther, Ragnar *see* Johansen, Thorodd; et al., 91b:76082
- Wolfshtein, M. *see* Behnia, M.; et al., 91a:76071
- Wood, Houston G., III *see* Babarsky, Richard J., 91g:76071
- Yan, Zong Yi *see* Weinbaum, Sheldon; et al., 91m:76087
- Zabusky, N. J. *see* Styczek, A., 91k:76135
- Zakharov, Yu. N. (with Tolstykh, M. A.) Multiparametric optimization of iterative schemes for solving equations with polynomial nonlinearity. (Russian) (Not in MR)
- Zandbergen, P. J. *see* Renkema, A. J.; et al., (91k:76003)
- Zhang, Qiang *see* Glimm, James; et al., 91k:76128
- Anderson, Christopher R. (with Greengard, Claude) The vortex ring merger problem at infinite Reynolds number. 91a:76020
- Arcilla, A. S. (with Lemos, C. M.) *★* Surf-zone hydrodynamics. 91m:76009
- Athuri, S. N. *see* Chien, C. C.; et al., 91k:76141
- Babovsky, Hans (with Bardos, Claude; Platkowski, Tadeusz) Diffusion approximation for a Knudsen gas in a thin domain with accommodation on the boundary. 91m:76095
- Baker, Gregory R. (with Shelley, M. J.) On the connection between thin vortex layers and vortex sheets. 91b:76010
- Bardos, Claude *see* Babovsky, Hans; et al., 91m:76095
- Barnyak, M. Ya. Small oscillations of a viscous incompressible fluid in a container. (Russian) 91b:76048
- Barrière, Jean (with Caltagirone, Jean-Paul; Gipouloux, Olivier) Détermination numérique de la perméabilité en milieu poreux périodique tridimensionnel. (English summary) [Numerical determination of permeability in a three-dimensional periodic porous medium] 91b:76095
- Bekyarov, K. L. *see* Christov, Christo Ivanov, 91g:65275
- van den Berg, P. M. *see* Kleinman, R. E.; et al., 91a:65250
- Bermúdez de Castro, Alfredo (with Durany, J.) Numerical solution of cavitation problems in lubrication. 91c:76036
— (with Rodríguez-Fernández, Celso; Vilar, M. A.) Solving shallow water equations by a mixed implicit finite element method. 91k:76030
- Bernard, Christine (with Maday, Yvon) Relèvement polynomial de traces et applications. (English summary) [Polynomial lifting of traces, and applications] 91k:65040
- Bertoglio, Jean-Pierre *see* Marion, Jean-Denis; et al., 91a:76049a and 91a:76049b
- Besson, Olivier (with Bourgeois, J.; Chevalier, P.-A.; Rappaz, J.; Touzani, Rachid) Numerical modelling of electromagnetic casting processes. 91k:76105
- Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Blake, J. R. *see* Lucas, S. K.; et al., (Not in MR)
- Boisvert, Ronald F. *see* McFadden, G. B.; et al., 91k:76072
- Bourgeois, J. *see* Besson, Olivier; et al., 91k:76105
- Bourlioux, Anne (with Majda, Andrew J.; Roytburd, Victor) Theoretical and numerical structure for unstable one-dimensional detonations. 91m:76090
- Boutayeb, A. *see* Twizell, E. H., 91m:65209
- Bramble, James H. (with Pasciak, Joseph E.) A domain decomposition technique for Stokes problems. 91f:65188
- Brandão, Maurício P. Towards the unification of acoustics and fluid mechanics. 91h:76051
- Brenier, Yann (with Cottet, Georges-Henri) Convergence des méthodes de vortex vers des solutions faibles des équations d'Euler. (English summary) [Convergent vortex approximation to weak solutions of Euler equations] 91b:65195
- Brown, Peter N. (with Saad, Youcef) Hybrid Krylov methods for nonlinear systems of equations. 91c:65069
- Bruch, J. C., Jr. (with Comincioli, Valeriano) Moving boundary seepage problems solved using a fixed domain method. (see 91g:00044)
- Buleev, S. N. A modification of the method of domain decomposition. (Russian) 91d:65185
- Caltagirone, Jean-Paul (with Orellana, O. F.; Siegel, M.) A localized approximation method for vortical flows. 91h:76017
- Caltagirone, Jean-Paul *see* Barrière, Jean; et al., 91b:76095
- Cambon, Claude *see* Marion, Jean-Denis; et al., 91a:76049b
- Canuto, Claudio Parallelism in spectral methods. (Italian summary) 91h:65183
- Chacón Rebollo, Tomás *see* Couce Calvo, Julio; et al., (91j:00015)
- Chan, Stevens T. *see* Gresho, Philip M., 91m:76071b
- Chemeris, V. S. *see* Vasilenko, Ya. F., 91a:76027
- Chen, Hudong *see* Chen, Shi Yi; et al., (Not in MR)
- Chen, Shi Yi (with Chen, Hudong; Doolen, Gary D.) How the lattice gas model for the Navier-Stokes equation improves when a new speed is added. (Not in MR)
- Chevalier, P.-A. *see* Besson, Olivier; et al., 91k:76105
- Chien, C. C. (with Rajiwal, H.; Athuri, S. N.) An effective method for solving the hypersingular integral equations in 3-D acoustics. 91k:76141
- Chorin, Alexandre Joel Constrained random walks and vortex filaments in turbulence theory. 91g:76038
- Christov, Christo Ivanov (with Bekyarov, K. L.) A Fourier-series method for solving soliton problems. 91g:65275
- Chynoweth, S. (with Sewell, M. J.) Mesh duality and Legendre duality. 91e:58023
- Comincioli, Valeriano *see* Bruch, J. C., Jr., (91g:00044)
- Canca, Carlos (with Sepulveda, Mauricio) Numerical results in the Stokes sieve problem. (Spanish. English summary) 91c:76032
- Coron, F. (with Perthame, Benoît) Numerical passage from kinetic to fluid equations. (French summary) 91m:76097
- Cottet, Georges-Henri *see* Brenier, Yann, 91b:65195
- Couce Calvo, Julio (with Chacón Rebollo, Tomás; Echevarría, M. R.; Fernández Cara, E.; Martín, J. D.; Ortegón, F.) Asymptotic models and numerical treatment of turbulence for compressible fluids. (Spanish) (see 91j:00015)
- Daripa, Prabir On applications of a complex variable method in compressible flows. 91g:76057
- Dawson, Clint N. (with Russell, T. F.; Wheeler, Mary F.) Some improved error estimates for the modified method of characteristics. 91a:65229
- Dawson, Trevor W. (with Fawcett, John A.) A boundary integral equation method for acoustic scattering in a waveguide with nonplanar surfaces. 91d:76070
- Deane, Aml E. (with Sirovich, Lawrence) A computational study of Rayleigh-Bénard convection. I. Rayleigh-number scaling. 91m:76046a
— *see also* Sirovich, Lawrence, 91m:76046b
- De Gregorio, Salvatore On a one-dimensional model for the three-dimensional vorticity equation. 91m:76022
- De Masi, A. (with Esposito, Raffaele; Lebowitz, Joel L.; Presutti, Enrico) Hydrodynamics of stochastic cellular automata. 91g:82052
- Deville, M. O. Chebyshev collocation solutions of flow problems. 91g:76063
- Dewey, Daniel *see* Anagnostou, George; et al., 91c:76068
- Dodd, Nicholas Reflective properties of parabolic approximations in shallow water wave

Items with secondary classifications in 76M25

- propagation. 91m:76012
- Dooten, Gary D. *see* Chen, Shi Yi et al., (Not in MR)
- Dritschel, David G. (with McIntyre, M. E.) Does contour dynamics go singular? 91a:76022
- Drummond, I. T. (with Münch, W.) Distortion of line and surface elements in model turbulent flows. 91m:76057
- Durany, J. *see* Hernández de Castro, Alfredo, 91c:76036
- E, Wei Nan (with Hou, Thomas Y.) Homogenization and convergence of the vortex method for 2-D Euler equations with oscillatory vorticity fields. 91h:35263
- Echevarría, M. R. *see* Couce Calvo, Julio; et al., (91j:00015)
- Erštin, Yu. A. (with Orlov, N. V.) Quasiresolution of problems of the diffraction of acoustical waves by thin three-dimensional screens. (Russian. English summary) 91f:35076
- Eskkeeva, M. Zh. (with Khorsova, G. E.) Construction of initial data in regularized models of filtering a two-phase incompressible fluid. (Russian) 91b:76097
- Esposito, Raffaele *see* De Masi, A.; et al., 91g:82052
- Ewing, Richard E. Preconditioned conjugate gradient methods for large-scale fluid flow applications. 91d:65052
- Fawcett, John A. *see* Dawson, Trevor W., 91d:76070
- Fearn, David R. Eigensolutions of boundary value problems using inverse iteration. (Not in MR)
- Fernández Cara, E. *see* Couce Calvo, Julio; et al., (91j:00015)
- Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. 91g:76064
- *see also* Anagnostou, George; et al., 91c:76068
- Frank, A. M. *see* Pastor, V. N., (91j:00011)
- Frezzotti, Aldo Numerical computation of rarefied gas flows. (see 91g:00040)
- Fujishiro, Issai (with Ikebe, Yasuhiko; Harashima, Akira; Watanabe, Masataka) A note on cyclic reduction Poisson solvers with application to bioconvective phenomena problems. 91a:76092
- Gastaldi, Fabio (with Quarteroni, Alfio) On the coupling of hyperbolic and parabolic systems: analytical and numerical approach. 91h:35037
- (with Quarteroni, Alfio) On the coupling of hyperbolic and parabolic systems: analytical and numerical approach. 91d:65200
- (with Quarteroni, Alfio; Sacchi Landriani, Giovanni) Coupling of two-dimensional hyperbolic and elliptic equations. 91g:65257
- Gertsenshtein, S. Ya. (with Rodichev, E. B.) Models of transition to turbulence in the case of convective instability. (Russian) 91e:76066
- Gipouloux, Olivier *see* Barrère, Jean; et al., 91b:76095
- Glaister, P. A similarity solution for a shock-reflection problem in isentropic gas dynamics. 91a:76059
- Glimm, James (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang) A numerical study of bubble interactions in Rayleigh-Taylor instability for compressible fluids. 91h:76040
- (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang) The growth and interaction of bubbles in Rayleigh-Taylor unstable interfaces. 91h:76054
- Glynn, S. D. Numerical justification of the Landau-Kolesov conjecture on the nature of turbulence. (Russian. English and Lithuanian summaries) 91g:76050
- Goodman, Jonathan (with Hou, Thomas Y.; Lowengrub, John S.) Convergence of the point vortex method for the 2-D Euler equations. 91d:65152
- Goryunov, A. A. (with Saikova, A. V.) * Обратные задачи рассеяния в акустике. (Russian) [Inverse scattering problems in acoustics] 91e:76098
- Grappin, Roland (with Léorat, Jacques) Lyapunov exponents and the dimension of periodic incompressible Navier-Stokes flows: numerical measurements. 91h:76083
- Greengard, Claude *see* Anderson, Christopher R., 91a:76020
- Gresho, Philip M. On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. I. Theory. 91m:76071a
- (with Chan, Stevens T.) On the theory of semi-implicit projection methods for viscous incompressible flow and its implementation via a finite element method that also introduces a nearly consistent mass matrix. II. Implementation. 91m:76071b
- Grove, John W. (with Menikoff, Ralph; Zhang, Qiang) Unstable interfaces and anomalous waves in compressible fluids. 91d:76034
- Gu, Mao Xiang *see* Sun, Be Qi, 91h:76016
- Gue, Ben Yu (with Xiong, Yeu Shan) A spectral-difference method for two-dimensional viscous flow. 91h:76119
- Halpern, Laurence (with Vandeven, Hervé) Condition aux limites transparente et méthode spectrale pour le problème de Stokes dans un domaine extérieur. (English summary) [Transparent boundary condition and spectral method for the Stokes problem in an exterior domain] 91h:35201
- Harashima, Akira *see* Fujishiro, Issai; et al., 91a:76092
- Harris, P. J. *see* Amini, S., 91m:76102
- Hou, Thomas Y. (with Lowengrub, John S.) Convergence of the point vortex method for the 3-D Euler equations. 91h:76026
- *see also* Goodman, Jonathan; et al., 91d:65152 and E, Wei Nan, 91h:35263
- Huberson, S. (with Jollès, A.) Correction of the projection error in particle/mesh methods. 91m:65241
- Hultfeldt, Jacques (with Ruhe, Axel) A new algorithm for numerical path following applied to an example from hydrodynamical flow. 91h:65095
- Hussaini, M. Y. *see* Malik, M. R., 91a:76035
- Ikebe, Yasuhiko *see* Fujishiro, Issai; et al., 91a:76092
- Isaev, S. A. The method of fictitious domains for a model problem in oceanology. (Russian) 91c:66001
- Ivanov, Mikhail Samuilovich (with Rogazinski, S. V.) Statistical modeling of rarefied gas flows on the basis of the majorant frequency principle. (Not in MR)
- Ivanov, V. T. (with Shcherbinin, S. A.) Methods for the calculation and analysis of interacting physical processes. (Russian) 91f:00002
- Jackson, Eric *see* She, Zhen Su; et al., 91g:76048
- Jiang, Hong (with Wong, Yau Shu) Absorbing boundary conditions for second-order hyperbolic equations. 91h:65197
- Jollès, A. *see* Huberson, S., 91m:65241
- Kamenetkii, D. S. (with Ryaben'kii, V. S.) Solution of boundary value problems for the Laplace equation in a domain with a cut by the method of difference potentials. (Russian) 91f:65172
- Karatsev, S. G. (with Koterov, V. N.) A numerical method for calculating supersonic flows of a viscous gas. (Russian) 91c:76067
- Keller, Herbert B. *see* Schröder, Wolfgang, 91h:76017
- Khorsova, G. E. *see* Eskkeeva, M. Zh., 91b:76097
- Kida, Shigeo (with Orszag, Steven A.) Enstrophy budget in decaying compressible turbulence. 91k:76089
- Kleinman, R. E. (with Roach, G. F.; Schuetz, L. S.; Shirron, J.; van den Berg, P. M.) An over-relaxation method for the iterative solution of integral equations in scattering problems. 91a:65250
- Klopfer, G. H. *see* Yee, H. C.; et al., 91k:76101
- Kolobov, B. P. (with Korobitsyna, Zh. L.; Piyasunova, A. V.; Sleptsov, A. G.) The collocation-difference method on moving grids of numerical modeling of boundary layers. (Russian) 91k:76031
- Kolyshkin, A. A. (with Vaillancourt, Rémi) A mathematical model for convective stability problems in a tall vertical annulus. (French summary) 91k:76055
- Korobitsyna, Zh. L. *see* Kolobov, B. P.; et al., 91k:76031
- Koterov, V. N. *see* Karatsev, S. G., 91c:76067
- Krinner, Dietmar Absorbing boundary conditions for the linearized Euler equations in 2-D. 91m:65300
- Kucera, Adam *see* Lucas, S. K.; et al., (Not in MR)
- Latto, Andrew (with Tenenbaum, Eric) Compactly supported wavelets and the numerical solution of Burgers' equation. (French summary) 91m:65308
- Lebowitz, Joel L. (with Orlandi, Enzo; Presutti, Enrico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001
- *see also* De Masi, A.; et al., 91g:82052
- Léorat, Christian A quasi-Monte Carlo method for the Boltzmann equation. 91j:65008
- Legowski, Z. (with Włodarczyk, E.) Plane stationary refraction problem for shock waves in the class of simple waves. II. Numerical example. (Russian and Polish summaries) 91e:76075
- Lemos, C. M. *see* Arellano, A. S., 91m:76009
- Léorat, Jacques *see* Grappin, Roland, 91h:76083
- Le Taliec, Patrick * Numerical analysis of viscoelastic problems. 91h:73029
- Levanov, A. G. (with Solov'ev, A. V.; Shashkov, M. Yu.) A method for reinterpolation of gas dynamic parameters in a quadrangular grid for a grid of Dirichlet cells. (Russian) 91k:65150
- Levitan, E. I. *see* Virmovskii, G. A., 91c:76110
- Li, Guo Wei *see* Li, Kai Tai; et al., 91c:76046
- Li, Kai Tai (with Lin, Zhi Xing; Li, Guo Wei) Finite element-arc length continuation simulations for spherical Couette-Taylor flow. 91c:76046
- Li, Xiao Lin *see* Glimm, James; et al., 91h:76040 and 91h:76054
- Liu, Zhi Xing *see* Li, Kai Tai; et al., 91c:76046
- Lowengrub, John S. *see* Goodman, Jonathan; et al., 91d:65152 and Hou, Thomas Y., 91h:76026
- Li, Tao (with Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting up method and its application to Navier-Stokes equations. (Not in MR)
- Lucas, S. K. (with Blake, J. R.; Kucera, Adam) A boundary-integral method applied to water coning in oil reservoirs. (Not in MR)
- MacCamy, Richard C. *see* Bielak, J., 91m:65270
- Maday, Yvon *see* Bernardi, Christine, 91h:65040
- Malajda, Andrew J. *see* Bourloux, Anne; et al., 91m:76090
- Malik, M. R. (with Hussaini, M. Y.) Numerical simulation of interactions between Görtler vortices and Tollmien-Schlichting waves. 91a:76035
- Marion, Jean-Denis (with Bertoglio, Jean-Pierre; Mathieu, Jean Emile) Spectral study of weakly compressible isotropic turbulence. I. Direct interaction approximation. (French summary) 91a:76049a
- (with Bertoglio, Jean-Pierre; Cambon, Claude; Mathieu, Jean Emile) Spectral study of weakly compressible isotropic turbulence. II. Eddy damped quasi normal Markovian closure. (French summary) 91a:76049b
- Martin, J. D. *see* Couce Calvo, Julio; et al., (91j:00015)
- Mathieu, Jean Emile *see* Marion, Jean-Denis; et al., 91a:76049a and 91a:76049b
- McFadden, G. B. (with Murray, B. T.; Boisvert, Ronald F.) Elimination of spurious eigenvalues in the Chebyshev tau spectral method. 91k:76072
- McIntyre, M. E. *see* Dritschel, David G., 91a:76022
- Menikoff, Ralph *see* Grove, John W.; et al., 91d:76034; Glimm, James; et al., 91h:76040 and 91h:76054
- Montagné, J.-L. *see* Yee, H. C.; et al., 91k:76101
- Münch, W. *see* Drummond, I. T., 91m:76057
- Murray, B. T. *see* McFadden, G. B.; et al., 91k:76072
- Neittaanmäki, Pekka *see* Li, Tao; et al., (Not in MR)
- Orellana, O. F. On some analytic and computational aspects of two-dimensional vortex sheet evolution. 91f:76011
- *see also* Caffisch, Russel E.; et al., 91h:76017
- Orlandi, Enzo *see* Lebowitz, Joel L.; et al., 91m:76001
- Orlov, N. V. *see* Erštin, Yu. A., 91b:76092
- Orszag, Steven A. *see* She, Zhen Su; et al., 91g:76048 and Kida, Shigeo, 91k:76089
- Ortega, F. Structural properties of the closure terms of the MPP turbulence model. (Spanish) (see 91j:00015)
- *see also* Couce Calvo, Julio; et al., (91j:00015)
- Osborne, A. R. (with Segre, E.) Numerical solutions of the Korteweg-de Vries equation using the periodic scattering transform μ -representation. 91h:35288
- Oskolkov, A. P. On an estimate, uniform on the semiaxis $t > 0$, for the rate of convergence of Galerkin approximations for equations of motion of Kelvin-Voigt fluids. (Russian. English summary) 91f:76002
- Papanicolaou, George (with Zhu, Jiagui) A vortex method for fluid-particle systems. 91g:76097
- Park, Hwasun (with Sirovich, Lawrence) Turbulent thermal convection in a finite domain. II. Numerical results. 91g:76054

- Pasciak, Joseph E. *see* Bramble, James H., 91f:65188
- Patera, Anthony T. *see* Anagnostou, George; et al., 91c:76068
- Pavlov, V. N. (with Frank, A. M.) An algorithm for constructing Dirichlet cells for problems with free boundaries. (Russian) (see 91j:00011)
- Pavoni, D. Single and multidomain Chebyshev collocation methods for the Korteweg-de Vries equation. 91h:65184
- Perthame, Benoît Boltzmann type schemes for gas dynamics and the entropy property. (French summary) 91h:65135
- *see also* Coron, F., 91m:76097
- Platkowski, Tadeusz *see* Babovsky, Hans; et al., 91m:76095
- Plyanova, A. V. *see* Kolobov, B. P.; et al., 91h:76031
- Presutti, Enrico *see* De Mari, A.; et al., 91g:82052 and Lebowitz, Joel L.; et al., 91m:76001
- Prismak, V. G. Results and possibilities of direct numerical modeling of turbulent flows of a viscous fluid in a circular pipe. (Not in MR)
- Quarteroni, Alfio (with Sacchi Landriani, Giovanni) Iteration by subdomains in numerical fluid dynamics. 91h:76111
- (with Valli, Alberto) Domain decomposition for a generalized Stokes problem. 91h:65155
- *see also* Gastaldi, Fabio, 91d:65200; 91g:65257 and 91h:35037
- Rader, Stefan P. (with Stefanov, S. K.) Monte Carlo simulation of molecular flows engendered by evaporation-condensation processes. (see 91m:65003)
- Rajiyah, H. *see* Chien, C. C.; et al., 91h:76141
- Rappaz, J. *see* Besson, Olivier; et al., 91h:76105
- Riley, D. S. (with Winters, K. H.) A numerical bifurcation study of natural convection in a tilted two-dimensional porous cavity. 91d:76037
- Rosch, G. F. *see* Kleinman, R. E.; et al., 91a:65250
- Rodichev, E. B. *see* Gertsenshtein, S. Ya., 91c:76066
- Rodríguez-Fernández, Celso *see* Bernádez de Castro, Alfredo; et al., 91h:76030
- Rogozinski, S. V. *see* Ivanov, Mikhail Samuilovich, (Not in MR)
- Roythord, Victor *see* Bourlioux, Anne; et al., 91m:76090
- Rube, Axel *see* Hultfeldt, Jacques, 91j:65095
- Russell, T. F. *see* Dawson, Clint N.; et al., 91a:65229
- Russo, Giovanni Deterministic diffusion of particles. 91h:76075
- Ryaben'kiĭ, V. S. *see* Kamenetskii, D. S., 91j:65172
- Saad, Youcef *see* Brown, Peter N., 91c:65069
- Sacchi Landriani, Giovanni (with Vandeven, Hervé) A multidomain spectral collocation method for the Stokes problem. 91h:65168
- *see also* Gastaldi, Fabio; et al., 91g:65257 and Quarteroni, Alfio, 91h:76111
- Sakovets, A. V. *see* Goryunov, A. A., 91c:76098
- Schröder, Wolfgang² (with Keller, Herbert B.) Wavy Taylor-vortex flows via multigrid-continuation methods. 91h:76017
- Schuetz, L. S. *see* Kleinman, R. E.; et al., 91a:65250
- Serogues, Jeffrey S. Physically motivated domain decomposition for singularly perturbed equations. 91m:65245
- Segre, E. *see* Osborne, A. R., 91h:35288
- Sepúlveda, Mauricio *see* Conca, Carlos, 91h:76032
- Sewell, M. J. *see* Chynoweth, S., 91c:58023
- Shaidurov, V. V. Multigrid iterative algorithms for solving the stationary Navier-Stokes difference problem. (Russian) (see 91j:60011)
- Sharp, David H. *see* Glimm, James; et al., 91h:76040 and 91h:76054
- Shashkov, M. Yu. *see* Levanov, A. G.; et al., 91h:65150
- Shcherbinin, S. A. *see* Ivanov, V. T., 91h:60002
- She, Zhen Su (with Jackson, Eric; Orszag, Steven A.) Vortex structure and dynamics in turbulence. 91g:76048
- Shelley, M. J. A case of singularity formation in vortex sheet motion studied by a spectrally accurate method. 91m:76055
- *see also* Baker, Gregory R., 91h:76010
- Shirron, J. *see* Kleinman, R. E.; et al., 91a:65250
- Siegel, M. *see* Caffrich, Russell E.; et al., 91h:76017
- Sirovich, Lawrence (with Deane, Anil E.) A computational study of Rayleigh-Bénard convection. II. Dimension considerations. 91m:76046b
- *see also* Park, Hwasin, 91g:76054 and Deane, Anil E., 91m:76046a
- Skorik, V. A. (with Suzikov, G. V.) A method for determining the steady-state axisymmetric flow of a viscous incompressible fluid. (Russian) 91f:76020
- Slepnev, A. G. *see* Kolobov, B. P.; et al., 91h:76031
- Soler, Juan Vortex filament method. 91c:76028
- Solov'ev, A. V. *see* Levanov, A. G.; et al., 91h:65150
- Stefanov, S. K. *see* Rader, Stefan P., (91m:65003)
- Sen, Be Qi (with Gu, Mao Xiang) A numerical method for second order mean forces and slowly varying forces on a floating structure. 91h:76016
- Suzikov, G. V. *see* Skorik, V. A., 91f:76020
- Tadmor, Eltan Shock capturing by the spectral viscosity method. 91g:35174
- Tai, Xue Cheng *see* Li, Tao; et al., (Not in MR)
- Takahashi, Hiroyuki *see* Watanabe, Jiro, 91h:76052
- Temam, Roger Inertial manifolds and multigrid methods. 91h:65132
- Tenenbaum, Eric *see* Latta, Andrew, 91m:65308
- Timoneda, Jaime Destruction of 2-torus by collision with an unstable manifold. 91j:76030
- Tolstykh, A. I. Compact approximations of the third order in algorithms for an incompressible fluid. 91c:76040
- Touzaud, Rachid *see* Besson, Olivier; et al., 91h:76105
- Trefethen, Lloyd N. Lax-stability vs. eigenvalue stability of spectral methods. 91a:65241
- Twissell, E. H. (with Boutayeb, A.) Numerical methods for the solution of special and general sixth-order boundary value problems, with applications to Bénard layer eigenvalue problems. 91m:65209
- Vallancourt, Rémi *see* Kolyshkin, A. A., 91h:76055
- Valli, Alberto *see* Quarteroni, Alfio, 91h:65155
- Vandeven, Hervé Compatibilité des espaces discrets pour l'approximation spectrale du problème de Stokes périodique/non périodique. (English summary) [Compatibility of discrete spaces in the spectral approximation of the periodic/nonperiodic Stokes problem] 91h:65185
- *see also* Sacchi Landriani, Giovanni, 91j:65168 and Halpern, Lawrence, 91h:35201
- Vasilenko, Ya. F. (with Cherneris, V. S.) The Stokes problem and Muskhelishvili integral equations. (Russian) 91a:76027
- Vilar, M. A. *see* Bernádez de Castro, Alfredo; et al., 91h:76030
- Virovskii, G. A. (with Levitan, E. I.) On the identification of a two-dimensional model of the flow of a homogeneous fluid in a porous medium. (Russian) 91c:76110
- Watanabe, Jiro (with Takahashi, Hiroyuki) On an approximation of the eigenvalue problem for axisymmetric disturbances. 91c:76052
- Watanabe, Masataka *see* Fujishiro, Issei; et al., 91a:76092
- Wheeler, Mary F. *see* Dawson, Clint N.; et al., 91a:65229
- Winters, K. H. *see* Riley, D. S., 91d:76037
- Włodarczyk, E. *see* Legowski, Z., 91c:76075
- Wong, Yan Shu *see* Jiang, Hong, 91h:65197
- Xiong, You Shan *see* Guo, Ben Ya, 91h:76119
- Yan, Zong Yi New methods in the theory of strong hydrodynamic interactions for Stokes flows. (Russian. English summary) 91g:76023
- Yee, H. C. (with Klopfer, G. H.; Montagné, J.-L.) High-resolution shock-capturing schemes for inviscid and viscous hypersonic flows. 91h:76101
- Yang, Long An Viscosity splitting method in bounded domains. 91h:65201
- Zhang, Qiang *see* Grove, John W.; et al., 91d:76034; Glimm, James; et al., 91h:76040 and 91h:76054
- Zhu, Jingyi *see* Papanicolaou, George, 91g:76097
- Zobnin, A. I. Calculation of hydrodynamical reactions on a solid profile that oscillates in a fluid at rest. 91c:76005

76M30 Variational methods

- Bensabat, J. (with Zeitoun, D. G.) A least-squares procedure for the solution of transport problems. 91a:76075
- Kim, Moon Uhn *see* Lee, Han-Yong, 91g:76081
- Lee, Han-Yong (with Kim, Moon Uhn) Numerical solution of plane and axially symmetric jet flow problems based on the variational inequality formulation. 91g:76081
- Zeitoun, D. G. *see* Bensabat, J., 91a:76075
- Zhu, Jia Lia The boundary integral equation method for incompressible viscous flows with slip boundary condition. 91f:76045
- Items with secondary classifications in 76M30
- Abbond, Najib N. *see* Pinsky, Peter M., 91m:76106
- Aguilar, Gloria A mathematical transport model of salt dissolved in water in farmland. (Spanish. English summary) 91f:76051
- Arumugam, G. (with Pironneau, Olivier) The problem of "riblets". (Russian) 91g:76028
- Baldo, Sisto Minimal interface criterion for phase transitions in mixtures of Cahn-Hilliard fluids. (French summary) 91j:76005
- Barrett, John W. (with Elliott, Charles M.) Finite element approximation of a free boundary problem arising in the theory of liquid drops and plasma physics. (French summary) 91m:65269
- Casciola, C. M. (with Lancia, M. R.) A variational approach for boundary integral equations in potential aerodynamics. (Italian summary) 91d:76050
- Čiegis, Raimondas (with Čiupaila, Regimantas J.) Some aspects of the solution of stationary problems of fluid-metal contact. (Russian. English and Lithuanian summaries) 91j:76073
- Čiupaila, Regimantas J. *see* Čiegis, Raimondas, 91j:76073
- Danilov, V. Ya. (with Mel'nik, V. S.) Optimization problems for equations of hydrodynamic type. (Russian. English summary) 91j:76008
- Elizarov, A. M. (with Fedorov, E. V.) Optimization of aerodynamic forms by the method of inverse boundary value problems. (Russian) 91m:76062
- Elliott, Charles M. *see* Barrett, John W., 91m:65269
- Fedorov, E. V. *see* Elizarov, A. M., 91m:76062
- Feistauer, Miloslav (with Kalis, Harijs; Rokytka, Mirko) Mathematical modelling of an electrolysis process. 91d:35081
- Galfandinar, A. N. Variational properties of inverse boundary value problems of filtration in earth dams. (Russian) 91m:76115
- Gobe, François Applications of the Boltzmann equation within the context of upper atmosphere vehicle aerodynamics. 91d:76069
- van Groesen, E. (with Verstappen, R.) A dynamic variation principle for elastic-fluid contacts, applied to elastohydrodynamic lubrication theory. 91g:73054
- Ho, Lee-Wing (with Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. 91g:76065
- Jayaseelan, S. James *see* Raj, S. Antony, 91m:76037
- Kalis, Harijs *see* Feistauer, Miloslav; et al., 91d:35081
- Komaranka, A. N. Equivalence of the Hamilton-Ostrogradskii principle and of a boundary value problem of the dynamics of a fluid in a vessel. (Russian) 91c:76007
- Kotlov, V. N. (with Shcheprov, A. V.) Calculation of spatially nonequilibrium transport of electrons in a gas-discharge plasma. (Russian) (Not in MR)
- Lancia, M. R. *see* Casciola, C. M., 91d:76050
- Liu, Gao Lian General variational principle family for fully 3-D unsteady transonic flow with shocks around oscillating wings. 91h:76093
- Lukovskii, I. A. (with Timokha, A. N.) A variational formulation of a nonlinear boundary value problem with an unknown interface between two regions. (Russian) 91c:76009
- Mel'nik, V. S. *see* Danilov, V. Ya., 91j:76008
- Malone, G. (with Rionero, Salvatore) On the nonlinear stability of the rotating Bénard problem via the Lyapunov direct method. 91h:76061
- *see also* Rionero, Salvatore, 91h:76060
- Patera, Anthony T. *see* Ho, Lee-Wing, 91g:76065
- Pinsky, Peter M. (with Abboud, Najib N.) Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. 91m:76106
- Pironneau, Olivier *see* Arumugam, G., 91g:76028
- Raj, S. Antony (with Jayaseelan, S. James) An analytical solution to unsteady axisymmetric stagnation flow. 91m:76037

- Rieners, Salvatore (with Mulone, G.) On a maximum problem governing the nonlinear stability of rotating Bénard problem. 91k:76060
 — see also Mulone, G., 91k:76061
 Rokys, Mirko see Feistauer, Miloslav; et al., 91d:35081
 Rubinstein, Jacob (with Torquato, Sal) Flow in random porous media: mathematical formulation, variational principles, and rigorous bounds. 91c:76109
 Santos, Lisa Asymptotic convergences in fluid dynamics using variational inequalities—the compressible case. (see 91g:00044)
 Shcheglov, A. V. see Koterov, V. N., (Not in MR)
 Smyslyayev, P. P. (with Suranchiev, A. Zh.) Optimal control of the convection of a viscous weakly compressible fluid. 91m:76112
 Suranchiev, A. Zh. see Smyslyayev, P. P., 91m:76112
 Timokha, A. N. see Lukovskii, I. A., 91c:76009
 Torquato, Sal see Rubinstein, Jacob, 91c:76109
 Versteppen, R. see van Groesen, E., 91g:73054

76M35 Stochastic analysis

Items with secondary classifications in 76M35

- Axelrad, D. R. Stochastic transport theory for porous media. 91g:76087
 Bigue, C. (with Cardot, B.; Parés, Carlos; Pironneau, Olivier) Simulation of turbulence with transient mean. 91g:76047
 Cardot, B. see Bigue, C.; et al., 91g:76047
 Cruzeiro, Ana Bela Invariant measures in hydrodynamic systems with random perturbations. 91j:60107
 Lebowitz, Joel L. (with Orlandi, Enzo; Presutti, Errico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001
 Lakshin, A. V. Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation. (Russian) 91h:82044
 Orlandi, Enzo see Lebowitz, Joel L.; et al., 91m:76001
 Parés, Carlos see Bigue, C.; et al., 91g:76047
 Park, Hwasin (with Sirovich, Lawrence) Turbulent thermal convection in a finite domain. II. Numerical results. 91g:76054
 — see also Sirovich, Lawrence, 91g:76053
 Petrovichev, B. A. (with Rogalskii, A. V.; Sagdeev, R. Z.; Zaslavskii, G. M.) Stochastic jets and nonhomogeneous transport in Lagrangian turbulence. 91m:76059
 Pironneau, Olivier see Bigue, C.; et al., 91g:76047
 Presutti, Errico see Lebowitz, Joel L.; et al., 91m:76001
 Rogalskii, A. V. see Petrovichev, B. A.; et al., 91m:76059
 Rubinstein, Jacob (with Torquato, Sal) Flow in random porous media: mathematical formulation, variational principles, and rigorous bounds. 91c:76109
 Sagdeev, R. Z. see Petrovichev, B. A.; et al., 91m:76059
 Sirovich, Lawrence (with Park, Hwasin) Turbulent thermal convection in a finite domain. I. Theory. 91g:76053
 — see also Park, Hwasin, 91g:76054
 Stefanov, S. K. (with Yanitskii, V. E.) Stochastic models and Monte Carlo algorithms in rarefied gas dynamics. (see 91m:65003)
 Torquato, Sal see Rubinstein, Jacob, 91c:76109
 Yanitskii, V. E. see Stefanov, S. K., (91m:65003)
 Zaslavskii, G. M. see Petrovichev, B. A.; et al., 91m:76059
 Zhang, Qiang Validation of the chaotic mixing renormalization group fixed point. 91j:76037

76M99 None of the above, but in this section

- Chen, Hudong (with Chen, Shi Yi; Doolen, Gary D.; Matthaeus, W. H.) Lattice-gas models for multiphase flows and magnetohydrodynamics. (see 91m:00034)
 Chen, Shi Yi see Chen, Hudong; et al., (91m:00034)
 Doolen, Gary D. see Chen, Hudong; et al., (91m:00034)
 Hou, Thomas Y. (with Lax, Peter D.) Dispersive approximations in fluid dynamics. 91m:76088
 Lax, Peter D. see Hou, Thomas Y., 91m:76088
 Matthaeus, W. H. see Chen, Hudong; et al., (91m:00034)
 Van Dyke, Milton Slow variations in continuum mechanics. 91k:76136

Items with secondary classifications in 76M99

- Antanovskii, L. K. A model problem on the filling of a plane capillary by a viscous fluid. (Russian) 91k:76043
 Attouch, Hedy Homogénéisation. [Homogenization] 91m:49007
 Baake, M. M. The method of artificial viscosity for calculating one-dimensional flows. (Russian) 91d:76029
 Bernardin, D. (with Sero-Guillaume, O. E.) Lattice gases mixtures models for mass diffusion. 91m:76096
 Chan, Tony F. Domain decomposition algorithms and computational fluid dynamics. (see 91k:65014)
 Chen, Gui Qiang (with Lu, Yun Guang) Convergence of the approximate solutions to isotropic gas dynamics. 91h:76066
 Horning, Ulrich Numerical aspects of capillary surfaces. 91c:76023
 Hossain, Murshed see Zhou, Ye; et al., 91k:76091
 Huang, S.-C. see Shaw, Richard Paul, 91m:76197
 Kazarihoff, Nicholas D. (with Wilkowski, Joseph S.) Period tripling and subharmonic oscillations in Marangoni flows in a cylindrical liquid bridge. 91c:76104
 — (with Wilkowski, Joseph S.) Bifurcations of numerically simulated thermocapillary flows in axially symmetric float zones. (Not in MR)
 Lu, Yun Guang see Chen, Gui Qiang, 91h:76066
 Middleton, David Operational formulations for the computational solution of scattering problems in ocean acoustics involving surface, volume, and bottom interactions. (see 91h:76003)

- Piver, V. F. On the theory of axisymmetric generalized analytic functions in dynamical processes. (Not in MR)
 Schwartz, L. W. see Tuck, E. O., 91f:76024
 Sero-Guillaume, O. E. see Bernardin, D., 91m:76096
 Shaw, Richard Paul (with Huang, S.-C.) The embedding integral equation method with application to acoustic problems. 91m:76107
 Sheretov, Yu. V. Navier-Stokes equations as the asymptotics of a generalized quasigasdynamical system. (Russian) 91m:76101
 Shih, Wei Structure of an adaptive grid computational method from the viewpoint of dynamic chaos. (Not in MR)
 Stuart, J. T. (with Tabor, Michael) The Lagrangian picture of fluid motion. 91k:76008
 Tabor, Michael see Stuart, J. T., 91k:76008
 Thompson, Kevin W. Time-dependent boundary conditions for hyperbolic systems. II. 91f:65156
 Tsitsishvili, A. R. Further development of the Polubarinova-Kochina method and its applications. (Russian) 91j:76066
 — A new approach to solving a class of plane problems in filtration theory. (Russian. English and Georgian summaries) 91m:76119
 Tuck, E. O. (with Schwartz, L. W.) A numerical and asymptotic study of some third-order ordinary differential equations relevant to draining and coating flows. 91f:76024
 Vahala, George see Zhou, Ye; et al., 91k:76091
 Vichniac, Gérard Y. Cellular-automata fluids. 91k:76014
 Wilkowski, Joseph S. see Kazarihoff, Nicholas D., 91c:76104 and (Not in MR)
 Zhou, Ye (with Vahala, George; Hossain, Murshed) Renormalized eddy viscosity and Kolmogorov's constant in forced Navier-Stokes turbulence. 91k:76091

76Nxx Compressible fluids and gas dynamics, general

Items with secondary classifications in 76Nxx

- Rasso, Giovanni Some remarks on the stability of shock waves. (Italian summary) 91m:76066

76N10 Compressible fluids, general [see also 35Q30]

- Artykov, G. (with Orazov, M. B.) On the solvability of an initial-boundary value problem of the dynamics of a compressible stratified fluid. (Russian. English summary) 91e:76085
 Bautin, S. P. A class of solutions of the Navier-Stokes system that are periodic with respect to space variables. (Russian) 91a:76076
 ten Bosch, B. I. M. see Weisenborn, A. J., 91b:76089
 Dzhalikbaev, A. M. (with Smagulov, Sh. S.) ϵ -approximation of a model for an inhomogeneous fluid. (Russian) 91k:76086
 Fang, Zhong Sheng (with Paratchivou, I.) Solutions of the full potential equation using exact integral method. 91k:76086
 Frankel, I. R. Compressible flow induced by the transient motion of a wavemaker. 91g:76082
 Gabbulla, R. R. Diffraction by a strip parallel to the surface of a compressible stratified fluid. (Russian) 91h:76032
 Glushko, A. V. Multiplicity of roots of a symbol of a problem of the dynamics of a viscous compressible rotating fluid. (Russian) 91h:76087
 Hoffman, Joe D. see Wang, Bing Nan, 91d:76068 and Wang, Bo Nian, 91e:76087
 Matthaeus, W. H. see Zank, G. P., 91j:76050
 Miksis, Michael J. see Ting, Lu, 91a:76077
 Orazov, M. B. see Artykov, G., 91e:76085
 Paratchivou, I. see Fang, Zhong Sheng, 91k:76086
 Prakash, J. Ravi (with Rao, K. Kesava) Steady compressible flow of cohesionless granular materials through a wedge-shaped bunker. (Not in MR)
 Rao, K. Kesava see Prakash, J. Ravi, (Not in MR)
 Rongved, Lelf Fluid dynamics of an expanding ideal fluid. 91h:76088
 Santos, Lisa Asymptotic convergences in fluid dynamics using variational inequalities—the compressible case. (see 91g:00044)
 Smagulov, Sh. S. see Dzhalikbaev, A. M., 91k:76086
 Ting, Lu (with Miksis, Michael J.) On vortical flow and sound generation. 91a:76077
 Tychinin, V. A. see Vladimirov, V. A., (91g:00031)
 Uspenskii, S. V. (with Vasil'eva, E. N.) Behavior at infinity of the solution of a problem in hydrodynamics. (Russian) 91m:76089
 Vasil'eva, E. N. see Uspenskii, S. V., 91m:76089
 Vladimirov, V. A. (with Tychinin, V. A.) Nonlocal linearization of a system of hydrodynamic equations admitting an infinite-dimensional invariance group. (Russian) (see 91g:00031)
 Wang, Bing Nan (with Hoffman, Joe D.) A simple physical approach for deriving the characteristic equations of fluid dynamics. 91d:76068
 Wang, Bo Nian (with Hoffman, Joe D.) Study on a new form of the energy equation. 91e:76087
 Weisenborn, A. J. (with ten Bosch, B. I. M.) Faxén's theorem for a circular cylinder in compressible flow with arbitrary slip. 91h:76089
 Zank, G. P. (with Matthaeus, W. H.) The equations of nearly incompressible fluids. I. Hydrodynamics, turbulence, and waves. 91j:76050
- Items with secondary classifications in 76N10
- Anderson, Dale A. (with Tannehill, John C.; Pletcher, R.) ★ Вычислительная гидромеханика и теплообмен. Том 1, 2. (Russian) [Computational fluid mechanics and heat transfer. Vol. 1, 2] 91f:76043
 Atassi, H. M. (with Grzedzinski, J.) Unsteady disturbances of streaming motions around bodies. 91e:76016
 Auriant, J.-L. (with Strzelecki, T.; Bauer, Jacek; He, S.) Porous deformable media saturated by a very compressible fluid: quasi-statics. 91k:76148
 Baruzzi, G. see Habaishi, W. G.; et al., 91m:76072
 Bauer, Jacek see Auriant, J.-L.; et al., 91k:76148

- Bedrikovskii, P. G. (with Kanevskaya, R. D.; Lu'e, M. V.) Self-similar solutions of problems of two-phase flow through porous media with allowance for the compressibility of one of the phases. 91k:76149
- Beirão da Veiga, H. The stability of one-dimensional stationary flows of compressible viscous fluids. (French summary) 91k:35195
- Bristeau, M. O. (with Glowinski, Roland; Duto, L.; Périaux, Jacques; Rogé, G.) Compressible viscous flow calculations using compatible finite element approximations. 91g:76062
- Cagnalp, G. (with Jones, James) A derivation of a phase field model with fluid properties. (Not in MR)
- Cassaigne, Philippe (with Gerbi, Stéphane; Renggli, L.) About admissible boundary conditions for Euler and parabolized Navier-Stokes equations. 91f:35208
- Chacón Rebollo, Tomás see Couce Calvo, Julio; et al., (91j:00015)
- Chemis, Jean-Yves Remarques sur l'apparition de singularités dans les écoulements eulériens compressibles. (English summary) [Remarks on the formation of singularities in compressible Euler flows] 91k:35197
- Évolution d'une singularité ponctuelle dans un fluide compressible. (English summary) [Evolution of a point singularity in a compressible fluid] 91k:35147
- Chen, Senhui E. (with Kellogg, R. Bruce) An interior discontinuity of a nonlinear elliptic-hyperbolic system. 91j:35187
- Chesshire, G. (with Hanshaw, W. D.) Composite overlapping meshes for the solution of partial differential equations. 91f:76043
- Couce Calvo, Julio (with Chacón Rebollo, Tomás; Echevarría, M. R.; Fernández Cara, E.; Martín, J. D.; Ortégón, F.) Asymptotic models and numerical treatment of turbulence for compressible fluids. (Spanish) (see 91j:00015)
- Daripa, Prabir On applications of a complex variable method in compressible flows. 91g:76057
- Demkowicz, L. (with Oden, J. Tinsley; Rachowicz, W.) A new finite element method for solving compressible Navier-Stokes equations based on an operator splitting method and h - p adaptivity. 91k:76107
- see also Oden, J. Tinsley; et al., 91m:76073
- Dervieux, A. see Desideri, J. A., 91d:76057
- Desideri, J. A. (with Dervieux, A.) Compressible flow solvers using unstructured grids. 91d:76057
- Don, Wai-Sun (with Gottlieb, David) Spectral simulations of an unsteady compressible flow past a circular cylinder. 91g:76076
- Dutto, L. see Bristeau, M. O.; et al., 91g:76062
- Echevarría, M. R. see Couce Calvo, Julio; et al., (91j:00015)
- Einfeldt, B. (with Munz, C.-D.; Roe, P. L.; Sjögreen, B.) On Godunov-type methods near low densities. 91k:76118
- Fernández Cara, E. see Couce Calvo, Julio; et al., (91j:00015)
- Gabov, S. A. (with Sundukova, A. V.) An initial-boundary value problem that arises in the dynamics of a compressible stratified fluid. (Russian) 91k:76105
- Gastaldi, Fabio (with Quarteroni, Alfio) On the coupling of hyperbolic and parabolic systems: analytical and numerical approach. 91h:35037
- (with Quarteroni, Alfio) On the coupling of hyperbolic and parabolic systems: analytical and numerical approach. 91d:65200
- Gerbi, Stéphane see Cassaigne, Philippe; et al., 91f:35208
- Glimm, James (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang) A numerical study of bubble interactions in Rayleigh-Taylor instability for compressible fluids. 91h:76040
- (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang) The growth and interaction of bubbles in Rayleigh-Taylor unstable interfaces. 91k:76054
- Glowinski, Roland see Bristeau, M. O.; et al., 91g:76062
- Gottlieb, David see Don, Wai-Sun, 91g:76076
- Grosch, C. E. see Jackson, T. L., 91g:76031
- Grove, John W. (with Menikoff, Ralph; Zhang, Qiang) Unstable interfaces and anomalous waves in compressible fluids. 91d:76034
- Grzedzinski, J. see Atassi, H. M., 91e:76016
- Gundersen, Roy M. Oblique magnetohydrodynamic shock wave decay. (French summary) 91j:76075
- Guz, A. N. Problems of hydroelasticity for a compressible viscous fluid. (Not in MR)
- Habashi, W. G. (with Baruzzi, G.; Peeters, M. F.; Hafez, M. M.) Finite element method in the solution of the Euler and Navier-Stokes equations for internal flow. 91m:76072
- Hafez, M. M. see Habashi, W. G.; et al., 91m:76072
- Hänel, D. (with Meinke, M.; Schröder, Wolfgang²) Application of the multigrid method in solutions of the compressible Navier-Stokes equations. (see 91e:65008)
- Hanshaw, W. D. see Chesshire, G., 91f:76043
- He, S. see Auriant, J.-L.; et al., 91k:76148
- Hoff, David (with Liu, Tai-Ping) The inviscid limit for the Navier-Stokes equations of compressible, isentropic flow with shock data. 91k:35153
- Jackson, T. L. (with Grosch, C. E.) Inviscid spatial stability of a compressible mixing layer. II. The flame sheet model. 91g:76031
- Jain, Rajendra Kumar² see Subbiah, M., 91m:76056
- Johanson, Claes Streamline diffusion finite element methods for incompressible and compressible fluid flow. 91k:76063
- Jones, James see Cagnalp, G., (Not in MR)
- Kamp, L. P. J. see Miesen, R. H. M.; et al., 91c:76120
- Kanevskaya, R. D. see Bedrikovskii, P. G.; et al., 91k:76149
- Kaniel, S. see Rivlin, J., 91d:76066
- Kellogg, R. Bruce see Chen, Senhui E., 91j:35187
- Kida, Shigeo (with Orszag, Steven A.) Entropy budget in decaying compressible turbulence. 91k:76089
- Koren, Barry (with Spekreijse, Stefan) Multigrid and defect correction for the efficient solution of the steady Euler equations. (see 91f:76003)
- Upwind discretization of the steady Navier-Stokes equations. 91d:76059
- Korolkov, M. D. see Silant'ev, N. A., 91c:76063
- (Kraika, A. N.) see Anderson, Dale A.; et al., 91f:76041
- Li, Xiao Lin see Glimm, James; et al., 91h:76040 and 91k:76054
- Liu, Tai-Ping see Hoff, David, 91k:35153
- Lovicar, V. (with Stralkaba, I.; Valli, Alberto) On bounded solutions of one-dimensional compressible Navier-Stokes equations. 91k:35155
- Lu'e, M. V. see Bedrikovskii, P. G.; et al., 91k:76149
- Makov, Yu. N. Analogy between shear flow stratification and compressibility effects in hydrodynamic stability theory. 91k:76076
- Marcatti, Pierangelo (with Milani, Albert J.) The one-dimensional Darcy's law as the limit of a compressible Euler flow. 91k:35156
- Martin, J. D. see Couce Calvo, Julio; et al., (91j:00015)
- Meinke, M. see Hänel, D.; et al., (91e:65008)
- Menikoff, Ralph see Grove, John W.; et al., 91d:76034; Glimm, James; et al., 91k:76040 and 91k:76054
- Miesen, R. H. M. (with Kamp, L. P. J.; Sluijter, F. W.) Solitary waves in compressible deep fluids. 91c:76120
- Milani, Albert J. see Marcatti, Pierangelo, 91k:35156
- Miller, S. T. Square patterns and secondary instabilities in driven capillary waves. 91m:76021
- Mulder, Wim A. Multigrid for the one-dimensional inviscid Burgers equation. 91c:76081
- Müller, Bernhard Linear stability condition for explicit Runge-Kutta methods to solve the compressible Navier-Stokes equations. 91d:65133
- Munz, C.-D. see Einfeldt, B.; et al., 91k:76118
- Nakoryakov, V. E. (with Pokusaev, B. G.; Shreiber, I. R.) ★ Волновая динамика газопарожидкостных сред. (Russian) [Wave dynamics of gas- and steam-liquid media] 91g:76096
- Nesterov, A. V. see Varlamov, V. V., 91j:76061
- Oden, J. Tinsley (with Demkowicz, L.; Rachowicz, W.; Westermann, T. A.) A posteriori error analysis in finite elements: the element residual method for symmetrizable problems with applications to compressible Euler and Navier-Stokes equations. 91m:76073
- see also Demkowicz, L.; et al., 91k:76107
- Orszag, Steven A. see Kida, Shigeo, 91k:76089
- Ortégón, F. see Couce Calvo, Julio; et al., (91j:00015)
- Peeters, M. F. see Habashi, W. G.; et al., 91m:76072
- Périaux, Jacques see Bristeau, M. O.; et al., 91g:76062
- Pileckas, Konstantinos (with Zajackowski, Wojciech M.) On the free boundary problem for stationary compressible Navier-Stokes equations. 91c:35227
- Pletcher, R. see Anderson, Dale A.; et al., 91f:76041
- (Podvitz, G. L.) see Anderson, Dale A.; et al., 91f:76041
- Pokusaev, B. G. see Nakoryakov, V. E.; et al., 91g:76096
- Quarteroni, Alfio see Gastaldi, Fabio, 91d:65200 and 91h:35037
- Rachowicz, W. see Demkowicz, L.; et al., 91k:76107 and Oden, J. Tinsley; et al., 91m:76073
- Renggli, L. see Cassaigne, Philippe; et al., 91f:35208
- Rivlin, J. (with Kaniel, S.) Numerical solution of the equations of compressible flow by a transport method. 91d:76066
- Roe, P. L. see Einfeldt, B.; et al., 91k:76118
- Rogé, G. see Bristeau, M. O.; et al., 91g:76062
- Rostand, Philippe Kinetic boundary layers, numerical simulations. 91d:76067
- Sanchez Hubert, J. (with Sánchez-Palencia, E.) ★ Vibration and coupling of continuous systems. 91c:00018
- Sánchez-Palencia, E. see Sanchez Hubert, J., 91c:00018
- Schochet, Steven Examples of measure-valued solutions. 91a:35107
- Schröder, Wolfgang² see Hänel, D.; et al., (91e:65008)
- Secchi, Paolo On the motion of gaseous stars in the presence of radiation. 91a:35159
- On the uniqueness of motion of viscous gaseous stars. 91k:35164
- (Senla, S. V.) see Anderson, Dale A.; et al., 91f:76041
- (Shafman, E. Yu.) see Anderson, Dale A.; et al., 91f:76041
- Sharp, David H. see Glimm, James; et al., 91h:76040 and 91k:76054
- Shepherd, Theodore G. A general method for finding extremal states of Hamiltonian dynamical systems, with applications to perfect fluids. 91g:58087
- Shvabmogi, Bhlmsen K. Spectral laws for the entropy cascade in a two-dimensional turbulence. 91f:76037
- Shreiber, I. R. see Nakoryakov, V. E.; et al., 91g:76096
- Silant'ev, N. A. (with Korolkov, M. D.) Diffusion of a scalar field in a compressible turbulent medium. (German summary) 91f:76063
- Sjögreen, B. see Einfeldt, B.; et al., 91k:76118
- Sluijter, F. W. see Miesen, R. H. M.; et al., 91c:76120
- Smyshlyaev, P. P. (with Suranovich, A. Zh.) Optimal control of the convection of a viscous weakly compressible fluid. 91m:76112
- Solomonov, V. A. (with Tani, A.) A problem with a free boundary for Navier-Stokes equations for a compressible fluid in the presence of surface tension. (Russian. English summary) 91c:35229
- Sowa, Johan Stability of a Runge-Kutta method for the Navier-Stokes equation. 91h:76065
- Spekreijse, Stefan see Koren, Barry, (91k:76003)
- Stralkaba, I. see Lovicar, V.; et al., 91k:35155
- Strzelecki, T. see Auriant, J.-L.; et al., 91k:76148
- Subbiah, M. (with Jain, Rajendra Kumar²) Stability of compressible shear flows. 91m:76056
- Sundukova, A. V. see Gabov, S. A., 91h:76105
- Suranovich, A. Zh. see Smyshlyaev, P. P., 91m:76112
- Tani, A. see Solomonov, V. A., 91c:35229
- Tannehill, John C. see Anderson, Dale A.; et al., 91f:76041
- Valli, Alberto On the one-dimensional Navier-Stokes equations for compressible fluids. 91g:35204
- see also Lovicar, V.; et al., 91k:35155
- Varlamov, V. V. (with Nesterov, A. V.) Asymptotic representation of a solution of the problem of acoustic wave propagation in an inhomogeneous compressible relaxing medium. (Russian) 91j:76061
- Volnovskii, A. S. A variant of the splitting method and implicit realization of boundary conditions for the solution of Navier-Stokes equations in a curvilinear coordinate system. (Russian) 91m:76000
- Westermann, T. A. see Oden, J. Tinsley; et al., 91m:76073
- Yang, Zuo Sheng Boundary integral formulation for compressible nonlinear potential and Navier-Stokes equations. (see 91h:00050)

- Zajackowski, Wojciech M. On an initial-boundary value problem for the parabolic system which appears in free boundary problems for compressible Navier-Stokes equations. 91h:35218
 — see also Pileckas, Konstantinas, 91e:35227
 Zhang, Qiang see Grove, John W.; et al., 91d:76034; Glimm, James; et al., 91h:76040 and 91h:76054

76N15 Gas dynamics, general

- Aristov, S. N. A class of exact solutions of the Navier-Stokes equations for a compressible viscous gas. (Not in MR)
 Blekhis, A. M. Some problems in the mathematical modeling of problems in gas dynamics. (Russian) (see 91k:65007)
 Bourdel, Françoise (with Croisille, Jean-Pierre; Delorme, Philippe; Mazet, Pierre-Alain) On the approximation of K -diagonalizable hyperbolic systems by finite elements. Applications to the Euler equations and to gaseous mixtures. 91e:76088
 Bourloux, Anne (with Majda, Andrew J.; Roytburd, Victor) Theoretical and numerical structure for unstable one-dimensional detonations. 91m:76090
 Chen, Gui Qiang (with Lu, Yun Guang) Convergence of the approximate solutions to isentropic gas dynamics. 91h:76066
 Croisille, Jean-Pierre see Bourdel, Françoise; et al., 91e:76088
 Delorme, Philippe see Bourdel, Françoise; et al., 91e:76088
 Dubois, F. Concavity of thermodynamic entropy and convexity of Lax's mathematical entropy. 91j:76051
 Gasilov, V. A. (with Maslyankin, V. I.; Simonovich, I. P.) Some properties of differential and difference equations of quasi-gas-dynamic type. (Russian) 91e:76089
 Grundland, A. M. (with Lawruk, B.) Classes of exact solutions for fluid-dynamics equations obtained by Riemann invariants method. 91e:76090
 Gudkov, V. V. (with Mikhailov, A. P.; Stepanova, V. V.) Localized compression regimes of a heat conducting gas. (Russian) 91e:76091
 Hunter, John K. Nonlinear geometrical optics. 91h:76137
 Iskenderova, D. A. The Cauchy problem for equations of a viscous gas with Hugoniot conditions at infinity. (Russian) 91m:76091
 Kapteev, O. V. Exact solutions of equations of the axisymmetric flow of an ideal gas. (Russian) 91j:76052
 Kassoy, D. R. see Wang, Meng, 91j:76054
 Konyshov, Zh. E. see Smagulov, Sh. S., 91m:76094
 Korobitsyn, V. A. Axisymmetric difference operators in an orthogonal coordinate system. 91e:76092
 Lawruk, B. see Grundland, A. M., 91e:76089
 Legowski, Z. (with Włodarczyk, E.) Divergent forms of the set of equations of dynamics of a perfect gas in the case of self-similar spatial motions. (Russian and Polish summaries) 91a:76078
 Levin, M. P. ★ Метод контрольной поверхности в пространственных вариационных задачах газовой динамики. (Russian) [The control surface method in three-dimensional variational problems in gas dynamics] (Not in MR)
 Lu, Yun Guang see Chen, Gui Qiang, 91h:76066
 Majda, Andrew J. see Bourloux, Anne; et al., 91m:76090
 Maslyankin, V. I. see Gasilov, V. A.; et al., 91e:76089
 Mazet, Pierre-Alain see Bourdel, Françoise; et al., 91e:76088
 Meleshko, S. V. Potential flows of a polytropic gas of triple-wave type. (Russian) 91m:76092
 Meshkov, I. S. Increase in the approximation order for Godunov's scheme on the basis of the solution of the generalized Riemann problem. (Russian) 91m:76093
 Mikhailov, A. P. see Gudkov, V. V.; et al., 91e:76091
 Onanyan, G. G. The effect of dissipation on the asymptotic picture of the propagation of linear waves in gas-liquid mixtures. (Russian. Armenian summary) 91e:76046
 Peradzyński, Z. Nonlinear scalar parabolic equation describing the temperature and flow of a heat conducting gas. 91j:76053
 Roytburd, Victor see Bourloux, Anne; et al., 91m:76090
 Siderov, A. F. Optimal shockless compression of gas layers. 91g:76083
 Simonovich, I. P. see Gasilov, V. A.; et al., 91e:76089
 Smagulov, Sh. S. (with Konyshov, Zh. E.) Well-posedness of an initial-boundary value problem for equations of a viscous heat-conducting gas with degenerate density. (Russian) 91m:76094
 Stepanova, V. V. see Gudkov, V. V.; et al., 91e:76091
 Wang, Jing Hua Remarks on bounds on the discrepancy of approximate solutions constructed by Godunov's scheme. 91e:76093
 Wang, Meng (with Kassoy, D. R.) Evolution of weakly nonlinear waves in a cylinder with a movable piston. 91j:76054
 Włodarczyk, E. see Legowski, Z., 91a:76078
- Items with secondary classifications in 76N15
- Abalakin, I. V. (with Elizarova, T. G.; Chetverushkin, B. N.) Implicitly kinetically-consistent schemes for calculating stationary problems in gas dynamics. (Russian. English summary) 91k:76116
 Ad'yutov, M. M. (with Klokov, Yu. A.; Mikhailov, A. P.) Some problems for an ordinary differential equation that arise in gas dynamics. 91e:34002
 Alber, Hans-Dieter (with Cooper, Jeffery) Quasilinear hyperbolic 2×2 systems with a free, damping boundary condition. 91h:35198
 Ampomah, R. A. Some practical problems in the application of "artificial viscosity method". 91g:76068
 Antontsev, S. N. (with Kazhikhov, A. V.; Monakhov, V. N.) ★ Boundary value problems in mechanics of nonhomogeneous fluids. 91d:76018
 — Localization of solutions for degenerate equations in continuum mechanics. 91h:35259
 Babarsky, Richard J. (with Wood, Houston G., III) Approximate eigensolutions for nonaxisymmetric rotating compressible flows. 91j:76071
 Baisileva, Zh. N. Difference schemes for equations of a barotropic viscous gas with a nonmonotone state function with spherical symmetry. (Russian) (see 91h:93088)
- Basko, M. M. The method of artificial viscosity for calculating one-dimensional flows. (Russian) 91d:76029
 Ben-Artzi, Matania (with Birman, Amnon) Computation of reactive duct flows in external fields. 91g:76069
 Birman, Amnon see Ben-Artzi, Matania, 91g:76069
 Borisov, Anatoli A. (with Sharyov, O. V.) Structure of unstable gas detonation front. 91h:80021
 Borovskii, A. V. (with Galkin, A. L.; Priimak, V. G.; Chizhonkov, E. V.) Methods for the simultaneous solution of equations of gas dynamics and the kinetics of a multiply charged plasma. (Russian) (Not in MR)
 Bourgade, A. (with Le Floch, Philippe; Raviart, P.-A.) An asymptotic expansion for the solution of the generalized Riemann problem. II. Application to the equations of gas dynamics. (French summary) 91e:35087
 Carey, Graham F. see Jiang, Bo-Nan, 91e:76062
 Chakravarthy, Sukumar R. High resolution upwind formulations for the Navier-Stokes equations. 91h:76061
 Charakhch'yan, A. A. see Goncharov, V. A.; et al., 91e:76079
 Cheer, A. (with Saleem, M.) Acceleration of convergence by shifting the spectrum of implicit finite difference operators associated with the equations of gas dynamics. 91m:76076
 Chen, Gui Qiang (with Lu, Yun Guang) Existence behavior of solution for inhomogeneous systems of gas dynamics. 91e:35149
 Cherepanov, G. P. Invariant integrals in continuum mechanics. 91j:73007
 Chetverushkin, B. N. see Abalakin, I. V.; et al., 91k:76116
 Chizhonkov, E. V. see Borovskii, A. V.; et al., (Not in MR)
 Cooper, Jeffery see Alber, Hans-Dieter, 91h:35198
 Darin, N. A. On a connection between symmetry operators of equations of gas dynamics in different coordinate systems. (Russian) 91j:35012
 Dine, Liviu Some remarks concerning the Riemann invariance. Burnat-Peradzyński and Martin approaches. 91h:35197
 Elizarova, T. G. see Abalakin, I. V.; et al., 91k:76116
 Ferapontov, E. V. Reciprocal transformations and their invariants. 91a:58210
 Fezoui, L. see Laroutouros, Bernard, 91c:76113
 Frankel, Michael L. An equation of surface dynamics modeling flame fronts as density discontinuities in potential flows. 91g:80011
 Galkin, A. L. see Borovskii, A. V.; et al., (Not in MR)
 Gavriluk, S. L. A remark on V. P. Maslov's work on asymptotic solutions of equations of a viscous incompressible fluid and a viscous barotropic gas. 91h:76036
 Glaister, P. An algorithm for isentropic flow. 91c:76080
 Glaz, Harald M. Self-similar shock reflection in two space dimensions. 91m:76065
 Glazkov, Yu. V. (with Tirkil, G. A.; Shcherbak, V. G.) A method for solving parabolized Navier-Stokes equations using global iterations. (Russian. English summary) 91m:76085
 Goncharov, V. A. (with Krivtsov, V. M.; Charakhch'yan, A. A.) A numerical scheme for modeling subsonic flows of a viscous compressible gas. 91e:76079
 Gudkov, V. V. An existence theorem for a solution of a self-similar problem on a semi-infinite interval. 91e:34024
 Gurnal, H. (with Nutku, Y.) Multi-Hamiltonian structure of equations of hydrodynamic type. 91j:35229
 Hattori, Youshi (with Nishihara, Kenji) A note on the stability of the rarefaction wave of the Burgers equation. 91k:35227
 d'Humières, D. (with Lallemand, P.; Qian, Yue Hong) Review of flow simulations using lattice gases. 91e:76072
 Jacob, Cahus On gas jets with a prescribed compressibility law. 91g:76056
 Jiang, Bo-Nan (with Carey, Graham F.) Least-squares finite element methods for compressible Euler equations. 91a:76062
 Kassoy, D. R. see Sutrisno, 91m:76067
 Kazhikhov, A. V. see Antontsev, S. N.; et al., 91d:76018
 Khabirov, S. V. Application of contact transformations of the inhomogeneous Monge-Ampère equation in one-dimensional gas dynamics. 91d:58268
 Klokov, Yu. A. see Ad'yutov, M. M.; et al., 91e:34002
 Kozlov, V. E. Increasing the stability of an implicit upwind scheme with three-point scalar sweeps for Euler equations. (Russian) 91j:76047
 Krasnolobodtsev, A. V. Gas dynamic and kinetic analogues in the theory of vertically inhomogeneous shallow water. (Russian. English summary) 91h:76012
 Krivtsov, V. M. see Goncharov, V. A.; et al., 91e:76079
 Krüner, Dietmar Absorbing boundary conditions for the linearized Euler equations in 2-D. 91m:65300
 Kupersmidt, Boris A. Form-invariance upon relativisation of the Hamiltonian structures of fluids is not universal. 91k:76007
 Kuznetsov, A. E. (with Strelets, M. Kh.; Shur, M. L.) Calculation of steady-state three-dimensional flows of viscous gases and chemically reacting gas mixtures. (Russian) 91e:76078
 Lallemand, P. see d'Humières, D.; et al., 91e:76072
 Laroutouros, Bernard (with Fezoui, L.) On the equations of multi-component perfect or real gas inviscid flow. 91c:76113
 — Problème de Riemann et approximation numérique pour les équations d'Euler multi-espèces. (English summary) [Riemann problem and numerical approximation for the multicomponent Euler equations] 91h:65130
 Le Floch, Philippe see Bourgade, A.; et al., 91e:35087
 Levanov, A. G. (with Solov'ev, A. V.; Shashkov, M. Yu.) A method for reinterpolation of gas dynamic parameters in a quadrangular grid for a grid of Dirichlet cells. (Russian) 91k:65150
 Liu, I-Shih (with Salvador, J. A.) Hyperbolic system for viscous fluids and simulation of shock tube flows. 91g:76002
 Liu, Tai-Ping Geometric theory of shock waves. 91k:35157
 Lu, Yun Guang see Chen, Gui Qiang, 91h:76066
 Majda, Andrew J. (with Roytburd, Victor) Numerical modeling of the initiation of reacting shock waves. 91h:80023
 — One perspective on open problems in multi-dimensional conservation laws. 91m:35142
 Maslov, V. P. (with Omel'yanov, G. A.) Lin-Lee equations for boundary layers in domains

- with curvilinear boundary. 91f:76047
- (with Mosolov, P. P.) ★ Уравнения одномерного баротропного газа. (Russian) [Equations of a one-dimensional barotropic gas] 91j:35230
- Matsumura, Akitaka (with Nishida, Takaaki) Periodic solutions of a viscous gas equation. 91g:35029
- Métivier, Guy Stability of multi-dimensional weak shocks. 91m:35143
- Mikhailov, A. P. see Ad'yanov, M. M.; et al., 91c:34002
- Monakhov, V. N. see Antontsev, S. N.; et al., 91d:76018
- Mosolov, P. P. see Maslov, V. P., 91j:35230
- Munt, R. M. Acoustic transmission properties of a jet pipe with subsonic jet flow. I. The cold jet reflection coefficient. 91j:76059
- Nagawa, Takeyuki On the one-dimensional free boundary problem for the heat-conductive compressible viscous gas. 91h:35337
- Nishida, Takaaki see Matsumura, Akitaka, 91g:35029
- Nishihara, Kenji see Hattori, Youchi, 91k:35227
- Nitka, Y. see Gümrük, H., 91j:35229
- Okrasinski, W. Remarks on nontrivial solutions of a Volterra integral equation. 91k:76103
- Omel'yanov, G. A. see Maslov, V. P., 91f:76047
- Perthame, Benoît Boltzmann type schemes for gas dynamics and the entropy property. (French summary) 91k:65135
- Pinchukov, V. I. Compact schemes of improved accuracy for solving equations of a viscous gas. (Russian) (Not in MR)
- Pivovarchik, V. N. A spectral problem that is connected with an equation of viscous sound. 91g:34049
- Pompe, Anna (with Rigano, Maria Adriana) Group properties and invariant solutions for a model of detonation. 91h:80007
- Popov, A. V. ★ Исследование конечно-разностного метода для системы уравнений одномерного движения вязкого теплопроводящего газа в переменных Эйлера. (Russian) [Investigation of the finite-difference method for the system of equations of one-dimensional motion of a viscous heat-conducting gas in Euler variables] 91c:76002
- Prilimak, V. G. see Borovskii, A. V.; et al., (Not in MR)
- Qian, Yue Hong see d'Hambres, D.; et al., 91a:76072
- Raviart, P.-A. see Bourgade, A.; et al., 91c:35087
- Rigano, Maria Adriana see Pompe, Anna, 91h:80007
- Rongved, Leif Fluid dynamics of an expanding ideal fluid. 91h:76008
- Roytburd, Victor see Majda, Andrew J., 91h:80023
- Rylov, A. I. On the impossibility of regular reflection of a steady shock wave from the axis of symmetry. 91h:76056
- Saleem, M. see Cheer, A., 91m:76076
- Salvador, J. A. see Liu, I-Shih, 91g:76002
- Sapagovas, Mifodijus see Vitkaskas, Gediminas; et al., 91c:76081
- Sapagovienė, Dangutė see Vitkaskas, Gediminas; et al., 91c:76081
- Sharpyov, O. V. see Borisov, Anatoli A., 91b:80021
- Shashkov, M. Yu. see Levanov, A. G.; et al., 91k:65150
- Shcherbak, V. G. see Glazkov, Yu. V.; et al., 91m:76005
- Shemarulla, V. E. Higher symmetries and laws of conservation of an equation of one-dimensional planar isentropic flows of a polytropic gas. (Russian) 91d:58266
- Shur, M. L. see Kuznetsov, A. E.; et al., 91m:76078
- Silchenko, Yu. T. A boundary value problem for an equation of the type of sound propagation in a viscous gas. (Russian) (see 91h:34001)
- Sokolov, I. V. High-velocity cumulative gas jets. 91d:76051
- Solov'ev, A. V. see Levanov, A. G.; et al., 91k:65150
- Štikonas, Artūras A difference scheme for equations of the symmetric motion of a viscous heat-conducting gas. (Russian. English and Lithuanian summaries) 91c:76083
- Strelets, M. Kh. see Kuznetsov, A. E.; et al., 91m:76078
- Sutrisno (with Kassoy, D. R.) Weak shocks initiated by power deposition on a spherical source boundary. 91m:76067
- Tetrakli, G. A. see Glazkov, Yu. V.; et al., 91m:76005
- Vecchi, Italo Entropy compactification in Lagrangian gas dynamics. 91m:35195
- Vitkaskas, Gediminas (with Sapagovas, Mifodijus; Sapagovienė, Dangutė) A numerical method for solving the Reynolds equation in spherical coordinates. (Russian. English and Lithuanian summaries) 91c:76081
- Vorozhtsov, E. V. (with Yanenko, N. N.) ★ Methods for the localization of singularities in numerical solutions of gas dynamics problems. 91m:76069
- Vorozhtsov, I. I. (with Yumashev, V. L.) Approximation properties of an implicit difference scheme for the equations of gas dynamics. (Russian) 91f:76042
- Wood, Houston G., III see Babarsky, Richard J., 91g:76071
- Xie, Gai Liang Asymptotic behavior of global solutions for certain systems of equations of gas dynamics. (Chinese. English summary) 91h:35061
- Yanenko, N. N. see Vorozhtsov, E. V., 91m:76069
- Yumashev, V. L. see Vorozhtsov, I. I., 91f:76042
- Zhang, Tong (with Zheng, Yu Xi) Conjecture on the structure of solutions of the Riemann problem for two-dimensional gas dynamics systems. 91d:35134
- Zheng, Yu Xi see Zhang, Tong, 91d:35134

76N20 Boundary-layer theory

- Gajjar, J. S. B. Amplitude-dependent neutral modes in compressible boundary layer flows. (see 91f:76003)
- Kumar, Anil³ (with Singh, Brij Bhan) Some aspects related to the asymptotic solutions of the laminar boundary-layer equations with heat flux. 91c:76093
- see also Singh, Janardan; et al., 91h:76067
- Maslov, V. P. (with Omel'yanov, G. A.) Lin-Lees equations for boundary layers in domains with curvilinear boundary. 91f:76047
- Omel'yanov, G. A. see Maslov, V. P., 91f:76047
- Seddouqui, Sharon O. A nonlinear investigation of the stationary modes of instability of the three-dimensional compressible boundary layer due to a rotating disc. 91j:76053
- Singh, Brij Bhan see Kumar, Anil³, 91c:76093 and Singh, Janardan; et al., 91h:76067
- Singh, Janardan (with Singh, Brij Bhan; Kumar, Anil³) On the asymptotic behaviour of boundary layer blow off. 91h:76067

Items with secondary classifications in 76N20

- Barrera, Paolo (with Brugarino, Tommaso) Group analysis and similarity solutions of the compressible boundary layer equations. 91d:35006
- Brown, S. N. (with Cheng, H. K.; Lee, C. J.) Inviscid-viscous interaction on triple-deck scales in a hypersonic flow with strong wall cooling. 91h:76055
- see also Smith, F. T., 91g:76032
- Brugarino, Tommaso see Barrera, Paolo, 91d:35006
- Cheng, H. K. see Brown, S. N.; et al., 91h:76055
- Cowley, Stephen J. (with van Dommelen, Leon L.; Lam, Shui T.) On the use of Lagrangian variables in descriptions of unsteady boundary-layer separation. 91j:76023
- van Dommelen, Leon L. see Cowley, Stephen J.; et al., 91j:76023
- Duck, Peter W. (with Hall, Philip²) Nonaxisymmetric viscous lower-branch modes in axisymmetric supersonic flows. 91a:76033
- The inviscid axisymmetric stability of the supersonic flow along a circular cylinder. 91c:76066
- The response of a laminar boundary layer in supersonic flow to small-amplitude progressive waves. 91g:76058
- Golse, François Applications of the Boltzmann equation within the context of upper atmosphere vehicle aerodynamics. 91d:76069
- Hall, Philip² see Duck, Peter W., 91a:76033
- Hui, W. H. (with Tobak, Murray) Topology of steady and unsteady incompressible three-dimensional separated flows. 91d:76019
- Koren, Barry Upwind discretization of the steady Navier-Stokes equations. 91d:76059
- Kudryavtsev, A. N. (with Solov'ev, A. S.) Stability of a shear layer of compressible gas. 91j:76029
- Kumar, Prem (with Narayanan, P. Sambath; Rout, Sarbeswar) Quasilinearized solution of two-component laminar natural convection boundary layer over a vertical plate with thermal diffusion and diffusion thermo effects. 91d:76071
- Lam, Shui T. see Cowley, Stephen J.; et al., 91j:76023
- Lee, C. J. see Brown, S. N.; et al., 91h:76055
- Narayanan, P. Sambath see Kumar, Prem; et al., 91d:76071
- Rothmayer, A. P. Zones of influence in a two-dimensional, unsteady, hypersonic boundary layer. 91h:76100
- Rout, Sarbeswar see Kumar, Prem; et al., 91d:76071
- Silva-Freire, A. P. On the matching conditions for a two-deck compressible turbulent boundary layer model. 91c:76064
- Smith, F. T. (with Brown, S. N.) The inviscid instability of a Blasius boundary layer at large values of the Mach number. 91g:76032
- Solov'ev, A. S. see Kudryavtsev, A. N., 91j:76029
- Tobak, Murray see Hui, W. H., 91d:76019
- Young, A. D. ★ Boundary layers. 91h:76014

76N99 None of the above, but in this section

- Drake, Thomas G. Granular flow: physical experiments and their implications for microstructural theories. (Not in MR)
- Embid, Pedro F. On the reactive and nondiffusive equations for zero Mach number flow. 91a:76079
- Prosperetti, Andrea The thermal behaviour of oscillating gas bubbles. 91h:76138
- Items with secondary classifications in 76N99
- Bebernes, Jerrold (with Eberly, David) ★ Mathematical problems from combustion theory. 91d:35165
- Ben-Artzi, Matania Numerical calculations of reacting flows. 91c:65143
- Eberly, David see Bebernes, Jerrold, 91d:35165
- Li, Xiao Ping (with Lü, Gui Qing) A new model of real gas filtering in a homogeneous gas reservoir, and its application. (Chinese. English summary) (Not in MR)
- Li, Gui Qing see Li, Xiao Ping, (Not in MR)
- Odeh, F. M. see Thomann, Enrique, 91f:82000
- Perdang, J. Self-gravitational fractal configurations. 91m:85003
- Pitman, E. Bruce Computations of granular flow in a hopper. 91f:73017
- Thomann, Enrique (with Odeh, F. M.) Remarks on the well-posedness of the hydrodynamic model for semiconductor devices. 91f:82006

76P05 Rarefied gas flows, Boltzmann equation [see also 82B40, 82C40, 82D05]

- Abramov, A. A. (with Kogan, M. N.) Possible regimes of strong gas evaporation and condensation. 91c:76094
- Arkeryd, Leif On the Enskog equation with large initial data. 91c:76094
- Babovsky, Hans (with Bardos, Claude; Piatkowski, Tadeusz) Diffusion approximation for a Knudsen gas in a thin domain with accommodation on the boundary. 91m:76095
- Bardos, Claude (with Golse, François; Levermore, C. David) Sur les limites asymptotiques de la théorie cinétique conduisant à la dynamique des fluides incompressibles. (English summary) [On asymptotic limits of kinetic theory leading to incompressible fluid dynamics] 91h:76139
- see also Babovsky, Hans; et al., 91m:76095
- Bernardin, D. (with Sero-Guillaume, O. E.) Lattice gases mixtures models for mass diffusion. 91m:76096
- Brey, J. Javier see Kim, Chang Suk; et al., 91c:76095
- Cercignani, Carlo Boltzmann equation and rarefied gas dynamics. (see 91g:00040)
- Coron, F. (with Perthame, Benoît) Numerical passage from kinetic to fluid equations. (French summary) 91m:76097
- DiPerna, R. J. (with Lions, Pierre-Louis) Global solutions of Boltzmann's equation and the entropy inequality. 91m:76098
- Duffy, James W. see Kim, Chang Suk; et al., 91c:76095
- Frezziotti, Aldo Numerical computation of rarefied gas flows. (see 91g:00040)
- Golse, François Applications of the Boltzmann equation within the context of upper atmosphere vehicle aerodynamics. 91d:76069

- see also Bardos, Claude; et al., 91k:76139
- Greenberg, J. M. (with Moler, Cleve) Collisionless solutions to the four velocity Broadwell equations. 91m:76099
- Hickey, K. A. see Loyalka, S. K., 91c:76096
- Ivanov, Mikhail Samuilovich (with Rogozinski, S. V.) Statistical modeling of rarefied gas flows on the basis of the majorant frequency principle. (Not in MR)
- Kim, Chang Suh (with Duffy, James W.; Santos, Andres; Brey, J. Javier) Analysis of nonlinear transport in Couette flow. 91c:76095
- Kogan, M. N. see Abramov, A. A., 91c:76094
- Levermore, C. David see Bardos, Claude; et al., 91k:76139
- Lions, Pierre-Louis see DiPerna, R. J., 91m:76098
- Loyalka, S. K. (with Hickey, K. A.) The Kramers problem: velocity slip and defect for a hard sphere gas with arbitrary accommodation. 91c:76096
- Moler, Cleve see Greenberg, J. M., 91m:76099
- Monaco, R. (with Pandolfi, Miriam; Platkowski, Tadeusz) Shock-waves formation by the discrete Boltzmann equation for binary gas mixtures. 91h:76068
- Pandolfi, Miriam see Monaco, R.; et al., 91h:76068
- Perthame, Benoît see Caron, F., 91m:76097
- Piechór, K. Spectral problems for semidiscrete and discrete models of the Boltzmann equation. I. (Russian and Polish summaries) 91m:76100
- Platkowski, Tadeusz see Monaco, R.; et al., 91h:76068 and Babovsky, Hans; et al., 91m:76095
- Rogozinski, S. V. see Ivanov, Mikhail Samuilovich, (Not in MR)
- Santos, Andres see Kim, Chang Suh; et al., 91c:76095
- Sero-Guillaume, O. E. see Bernardin, D., 91m:76096
- Shakhov, E. M. Analysis of the flow of a rarefied gas near a critical point. (Russian) 91k:76140
- Sheretov, Yu. V. Navier-Stokes equations as the asymptotics of a generalized quasigasdynamical system. (Russian) 91m:76101
- Items with secondary classifications in 76P05
- Anderson, James L. (with Nowotny, Ekkehard) Stochastic forces and fluctuation-dissipation theorems in a relativistic one-component gas. 91b:82054
- Anolik, M. V. (with Khalidov, I. A.) Calculation of path integrals encountered in a problem on two-fold reflection of atoms of a rarefied gas from a slightly rough surface. (Russian. English summary) (Not in MR)
- Aristov, V. V. (with Ivanov, Mikhail Samuilovich; Cheremisin, F. G.) Solution of a problem on one-dimensional heat transfer in a rarefied gas by two methods. (Russian) 91c:76086
- Arkeryd, Lell (with Cercignani, Carlo) Global existence in L^1 for the Enskog equation and convergence of the solutions to solutions of the Boltzmann equation. 91m:82114
- Bardos, Claude (with Golse, François; Levermore, C. David) Macroscopic limits of kinetic equations. (see 91h:00031)
- Bellomo, N. (with Lachowicz, M.; Palczewski, A.; Toscani, G.) On the initial value problem for the Boltzmann equation with a force term. 91a:82055
- Bishaev, A. M. (with Rykov, V. A.) Variational principles in linear kinetic theory of gases. (Russian) 91c:82051
- Boffi, Vincio C. (with Protopopescu, V.; Spiga, G.) On the equivalence between the probabilistic, kinetic, and scattering kernel formulations of the Boltzmann equation. 91c:82052
- (with Torrisi, Mariano) Methods of similarity analysis in the study of nonlinear dynamics of a gas mixture. 91m:82115
- (with Rossani, A.) On the Boltzmann system for a mixture of reacting gases. (Italian summary) 91d:82031
- Cabannes, Henri Solution globale des équations de Broadwell pour des données initiales partiellement négatives. (English summary) [Global solution of Broadwell equations for partially negative initial data] 91j:35277
- Capriano, S. (with De Masi, A.; Presutti, Errico; Pulvirenti, M.) Addendum: "A stochastic particle system modeling the Carleman equation" [J. Statist. Phys. 55 (1989), no. 3-4, 625-638; MR 90g:82048]. 91d:82032
- Cercignani, Carlo ★ Mathematical methods in kinetic theory. 91k:82052
- Equilibrium states and trend to equilibrium in a gas according to the Boltzmann equation. (Italian summary) 91m:82116
- see also Arkeryd, Lell, 91m:82114
- Cheremisin, F. G. see Aristov, V. V.; et al., 91c:76086
- Cornille, Henri (with Qian, Yue Hong) Solutions exactes pour un modèle de Boltzmann discrétisé unidimensionnel satisfaisant à toutes les lois de conservation. (English summary) [Exact solutions for a discrete unidimensional Boltzmann model satisfying all conservation laws] 91b:82042
- Das, P. see Narasimha, R., 91m:82053
- Degond, Pierre (with Raviart, P.-A.) On the numerical simulation of the kinetic equations of physics. (see 91b:00050)
- (with Poupaud, Frédéric; Niclot, Bernard; Guyot-Delaurens, F.) Semiconductor modelling via the Boltzmann equation. 91k:82053
- De Masi, A. see Capriano, S.; et al., 91d:82032
- Desvillettes, L. Convergence to equilibrium in large time for Boltzmann and B.G.K. equations. 91d:35210
- Dobrushin, R. L. Caricatures of hydrodynamics. 91a:82056
- Dudyński, Marek On the linearized relativistic Boltzmann equation. II. Existence of hydrodynamics. 91b:82043
- Dukák, Günter On the relevance of orthogonal ($d \times d$) matrices within Nikol'skii's transformation method for ($d > 1$)-dimensional Boltzmann equations. 91b:82044
- Esposito, Raffaele (with Pulvirenti, M.) Statistical solutions of the Boltzmann equation near the equilibrium. 91c:82053
- Esteban, Maria J. (with Perthame, Benoît) Solutions globales de l'équation d'Enskog modifiée avec collisions élastiques ou inélastiques. (English summary) [Global solutions for the modified Enskog equation with elastic or inelastic collisions] 91d:82055
- Gabetta, Ester From stochastic mechanics to the discrete Boltzmann equation: the Broadwell model. 91m:82117
- Geyer, T. (with Wick, Joachim) A deterministic particle-method solving the linearized Boltzmann equation. (German summary) 91c:76089
- Gol'dshtein, A. I. (with Poturayev, V. N.; Shulyak, I. A.) Structure of the equations of hydrodynamics for a medium consisting of inelastic rough spheres. 91k:76006
- Golse, François see Bardos, Claude; et al., (91h:00031)
- Greenberg, William (with Polewczak, Jack) Averaging techniques for the transport operator and an existence theorem for the BGK equation in kinetic theory. 91d:35215
- Guyot-Delaurens, F. see Degond, Pierre; et al., 91k:82053
- Hershbach, Hans A cellular automaton for a solvable Boltzmann equation. 91k:82054
- Hubner, G. F. (with Titulaer, U. M.) The kinetic boundary layer for the linearized Boltzmann equation around an absorbing sphere. 91c:82055
- Ivanov, Mikhail Samuilovich see Aristov, V. V.; et al., 91c:76086
- Kawashima, Shuichi (with Shizuta, Yasushi) The Navier-Stokes equation associated with the discrete Boltzmann equation. 91k:35154
- Initial-boundary value problem for the discrete Boltzmann equation. 91d:82033
- The Boltzmann equation and thirteen moments. 91i:82020
- Khalidov, I. A. see Anolik, M. V., (Not in MR)
- Kremer, G. M. see Rodbard, M. G., 91b:82046
- Lachowicz, M. see Bellomo, N.; et al., 91a:82055
- Lécat, Christian A quasi-Monte Carlo method for the Boltzmann equation. 91j:65008
- Lei, Peng (with Yang, Ming Zhu; Ye, Jian Jun) Spectral analysis of a class of abstract kinetic operators. 91f:47100
- Levermore, C. David see Bardos, Claude; et al., (91h:00031)
- Lakshin, A. V. Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation. (Russian) 91b:82044
- (with Yufarov, I. E.) Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation for a gas mixture. (Russian. English summary) 91m:82118
- Majumara, Armando Relativistic relaxation models for a simple gas. 91j:82043
- van der Mee, Cornelis V. M. see Toscani, G., 91c:35203
- Narasimha, R. (with Das, P.) A spectral solution of the Boltzmann equation for the infinitely strong shock. 91m:82053
- Niclot, Bernard see Degond, Pierre; et al., 91k:82053
- Nishitani, Toshiyuki Similarity transformation of the Boltzmann equation. 91m:82120
- Nowotny, Ekkehard see Anderson, James L., 91b:82054
- Orlov, Yu. N. (with Pavlotskii, I. P.) Equations of weakly relativistic viscous hydrodynamics. (Russian) 91c:76118
- Palczewski, A. see Bellomo, N.; et al., 91a:82055
- Pavlotskii, I. P. see Orlov, Yu. N., 91c:76118
- Perthame, Benoît Global existence to the BGK model of Boltzmann equation. (French summary) 91a:35158
- Boltzmann type schemes for gas dynamics and the entropy property. (French summary) 91k:65135
- see also Esteban, Maria J., 91d:82055
- Piechór, K. A rational construction of discrete velocity models of the Boltzmann equation. (Russian and Polish summaries) 91b:82045
- Plekhotnikov, K. É. A mathematical model of turbulent fluid flow. (Russian) 91c:76068
- Polewczak, Jack see Greenberg, William, 91d:35215
- Poturayev, V. N. see Gol'dshtein, A. I.; et al., 91k:76006
- Poupaud, Frédéric see Degond, Pierre; et al., 91k:82053
- Presutti, Errico see Capriano, S.; et al., 91d:82032
- Protopopescu, V. see Boffi, Vincio C.; et al., 91c:82052
- Pulvirenti, M. see Esposito, Raffaele, 91c:82053 and Capriano, S.; et al., 91d:82032
- Qian, Yue Hong see Cornille, Henri, 91b:82042
- Rader, Stefan P. (with Stefanov, S. K.) Monte Carlo simulation of molecular flows engendered by evaporation-condensation processes. (see 91m:65003)
- Raviart, P.-A. see Degond, Pierre, (91h:00050)
- Rodbard, M. G. (with Kremer, G. M.) Kinetic theory for mixtures of polyatomic gases of rough spherical molecules. 91b:82046
- Rosenau, Philip Extending hydrodynamics via the regularization of the Chapman-Enskog expansion. 91b:82047
- Rossani, A. see Boffi, Vincio C., 91d:82031
- Rostand, Philippe Kinetic boundary layers, numerical simulations. 91d:76067
- Rykov, V. A. see Bishaev, A. M., 91c:82051
- Sakabekov, A. Solvability of systems of Boltzmann moment equations in the first approximation. 91b:82048
- Sharipov, F. M. Onsager's reciprocity relations for polyatomic rarefied gas flow in an external field. 91a:82058
- Shizuta, Yasushi see Kawashima, Shuichi, 91i:35154
- Shulyak, I. A. see Gol'dshtein, A. I.; et al., 91k:76006
- Spiga, G. see Boffi, Vincio C.; et al., 91c:82052
- Stefanov, S. K. (with Yanitskii, V. E.) Stochastic models and Monte Carlo algorithms in rarefied gas dynamics. (see 91m:65003)
- see also Rader, Stefan P., (91m:65003)
- (Struminskii, V. V.) see Molecular gas dynamics and the mechanics of nonhomogeneous media, 91k:82001
- Takát, Peter The nonlinear Boltzmann equation: representation theory, super- and sub-solutions. 91c:35202
- Titulaer, U. M. see Hubner, G. F., 91c:82055
- Torrisi, Mariano see Boffi, Vincio C., 91m:82115
- Toscani, G. (with van der Mee, Cornelis V. M.) An abstract approach to nonlinear Boltzmann-type equations. 91c:35203
- see also Bellomo, N.; et al., 91a:82055
- Voronina, V. A. Stochastic methods for solving the Boltzmann equation for reacting gases. (Russian) 91d:82036
- Stochastic modeling of the Boltzmann equation for reacting gases. 91j:82046
- Wenzel, Lothar Die linearisierte Boltzmann-Gleichung mit reflektierenden Randbedingungen. II. Der Raum von L^p -Funktionen. [The linearized Boltzmann equation with reflecting boundary conditions. II. The space of L^p -functions] 91d:82018
- Wick, Joachim see Geyer, T., 91c:76089

- Yang, Bin³ (with Yang, Ming Zhu) Existence of a discrete spectrum for a class of integro-differential equations. (Chinese) 91m:45013
 Yang, Ming Zhu see Lei, Peng; et al., 91f:47100 and Yang, Bin³, 91m:45013
 Yanitskii, V. E. see Stefanov, S. K., (91m:65003)
 Ye, Jian Jun see Lei, Peng; et al., 91f:47100
 Yufarov, I. E. see Lukshin, A. V., 91m:82118

Items listed otherwise than by author

All-Union Conference:

- Kinetic Theory of Rarefied and Dense Gas Mixtures and the Mechanics of Nonhomogeneous Media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001
 Leningrad ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001
 Molecular gas dynamics and the mechanics of nonhomogeneous media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001

76Q05 Hydrodynamic sound, acoustics

- Abdoud, Najib N. see Pinsky, Peter M., 91m:76106
 Abrahams, I. D. (with Wickham, G. R.) The scattering of sound by two semi-infinite parallel staggered plates. II. Evaluation of the velocity potential for an incident plane wave and an incident duct mode. 91e:76095
 — (with Wickham, G. R.) Acoustic scattering by two parallel slightly staggered rigid plates. 91j:76056
 Abrahamsson, Leif (with Kreiss, Heinz-Otto) Boundary conditions for the parabolic equation in a range-dependent duct. 91b:76090
 Amin, S. (with Harris, P. J.) A comparison between various boundary integral formulations of the exterior acoustic problem. 91m:76102
 Andronov, I. V. (with Belinskii, B. P.) Boundary-contact problems in acoustics for a vertically stratified medium bounded above by a plate with concentrated inhomogeneities. 91m:76103
 Ari, Nasit (with Firth, James R.) Acoustic inverse scattering problems of polygonal shape reconstruction. 91e:76096
 Atluri, S. N. see Chien, C. C.; et al., 91k:76141
 Bahar, Ezekieli Full wave solutions for the scattering of acoustic waves excited by arbitrary source distributions in irregular layered media. (Not in MR)
 Belinskii, B. P. see Andronov, I. V., 91m:76103
 Cates, A. T. Diffracting nonlinear acoustic beams in 3 + 1 dimensions with applications to oceanic acoustics. 91m:76104
 Chien, C. C. (with Rajiyyah, H.; Atluri, S. N.) An effective method for solving the hypersingular integral equations in 3-D acoustics. 91k:76141
 Choi, Hyung-Chul (with Harris, John G.) Focusing of an ultrasonic beam by a curved interface. 91j:76057
 Cox, Edward A. (with Mortell, Michael P.) The evolution of resonant acoustic oscillations with damping. 91b:76091
 Crighton, D. G. see Hammerton, P. W., 91b:76092
 Dawson, Trevor W. (with Fawcett, John A.) A boundary integral equation method for acoustic scattering in a waveguide with nonplanar surfaces. 91d:76070
 Deelman, N. J. A general theory for wave field extrapolation in bounded and unbounded homogeneous media. 91b:76069
 Dryuba, V. P. (with Ilichev, V. I.) Reverberation in the field of the flux density vector of acoustic energy. (Russian) (Not in MR)
 Ershov, N. E. (with Smagin, S. I.) Solution of three-dimensional stationary problems of diffraction by the method of potentials. 91h:76070
 Fawcett, John A. Reconstruction of bathymetry shape from remote acoustic observations. (Not in MR)
 — see also Dawson, Trevor W., 91d:76070
 Felsen, L. B. see Mazar, R., 91c:76098
 Firth, James R. see Ari, Nasit, 91c:76096
 Fishman, Louis Exact and uniform perturbation solutions of the Helmholtz, Weyl composition equation in underwater acoustics—the quadratic profile. (see 91h:76004)
 Franke, S. J. see Li, Yuan-Liang; et al., 91e:76100
 Gilbert, Robert P. (with Xu, Yong Zhi) Starting fields and far fields in ocean acoustics. 91e:76080
 — (with Xu, Yong Zhi) Dense sets and the projection theorem for acoustic harmonic waves in a homogeneous finite depth ocean. 91e:76097
 Godin, O. A. A sound field in a neighborhood of a caustic in a moving medium. 91k:76142
 Gorskov, A. G. (with Rachinskii, Yu. V.; Tarlovskii, D. V.) Transient waves in an acoustic medium with boundaries in the form of a parabolic cylinder. 91j:76058
 Goryunov, A. A. (with Sakovets, A. V.) ★ Обратные задачи рассеяния в акустике. (Russian) [Inverse scattering problems in acoustics] 91e:76098
 Hall, W. S. (with Robertson, W. H.) Boundary element methods for acoustic wave scattering. (see 91b:00044)
 Hammerton, P. W. (with Crighton, D. G.) Approximate solution methods for nonlinear acoustic propagation over long ranges. 91b:76092
 Harris, John G. see Choi, Hyung-Chul, 91j:76057
 Harris, P. J. see Amin, S., 91m:76102
 de Hoop, Adrianus T. Reciprocity theorems for acoustic wave fields in fluid/solid configurations. 91c:76097
 Howe, M. S. Scattering by a surface inhomogeneity on an elastic half-space, with application to fluid-structure interaction noise. 91e:76099
 Huang, S.-C. see Shaw, Richard Paul, 91m:76107 and (91f:00015)
 Ilichev, V. I. see Dryuba, V. P., (Not in MR)
 Jones, C. Malr A. Scattering by a semi-infinite sandwich panel perforated on one side. 91k:76143
 Jones, D. S. (with Mao, Xin Qiang) A method for solving the inverse problem in soft acoustic scattering. 91a:76081
 Kreiss, Heinz-Otto see Abrahamsson, Leif, 91b:76090
 Kriegsmann, Gregory A. (with Scandrett, Clyde L.) Decoupling approximations for structural acoustic interactions. (Not in MR)
 Leal, L. Gary see Szeri, Andrew J., 91m:76108
 Li, Jian Hua¹ see Xie, Gan Quan, 91c:76101
 Li, Yuan-Liang (with Liu, Chen-Huei; Franke, S. J.) Three-dimensional Green's function for wave propagation in a linearly inhomogeneous medium—the exact analytic solution. 91e:76100
 Likhachev, V. N. Diffraction of a short acoustic wave by a smooth body that has a discontinuity in the radius of the curvature of the surface. (Russian) 91m:76105
 Liu, Chen-Huei see Li, Yuan-Liang; et al., 91e:76100
 Mao, Xin Qiang see Jones, D. S., 91a:76081
 Marks, Roger B. An iterative method for high frequency scattering. 91h:76071
 Mazar, R. (with Felsen, L. B.) Stochastic geometrical theory of diffraction. 91c:76098
 Middleton, David Operational formulations for the computational solution of scattering problems in ocean acoustics involving surface, volume, and bottom interactions. (see 91h:76003)
 Mortell, Michael P. see Cox, Edward A., 91b:76091
 Munt, R. M. Acoustic transmission properties of a jet pipe with subsonic jet flow. I. The cold jet reflection coefficient. 91j:76059
 Nesterov, A. V. see Varlamov, V. V., 91j:76061
 Ostashev, V. E. Ray acoustics of moving media: a survey. 91k:76144
 Pekurovskii, L. E. (with Poruchikov, V. B.; Sozonenko, Yu. A.) ★ Взаимодействие волн с телами. (Russian) [Interaction of waves with bodies] 91j:76060
 Photiadis, Douglas M. The relationship of singular value decomposition to wave-vector filtering in sound radiation problems. 91k:76145
 Pierce, Allan D. The Helmholtz-Kirchhoff integral relation as a framework for developing algorithms for sound propagation through inhomogeneous moving media. (see 91h:76002)
 Pinsky, Peter M. (with Abdoud, Najib N.) Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. 91m:76106
 Poruchikov, V. B. see Pekurovskii, L. E.; et al., 91j:76060
 Rachinskii, Yu. V. see Gorskov, A. G.; et al., 91j:76058
 Rajiyyah, H. see Chien, C. C.; et al., 91k:76141
 Rawlins, A. D. Spherical wave diffraction by rational wedges. 91f:76048
 Razavy, M. Scattering of acoustic waves by an oscillating soft sphere. (French summary) 91c:76099
 Robertson, W. H. see Hall, W. S., (91b:00044)
 Sarkissian, Angle A new integral equation formulation for an axisymmetric structure. 91g:76084
 Sakovets, A. V. see Goryunov, A. A., 91e:76098
 Scandrett, Clyde L. see Kriegsmann, Gregory A., (Not in MR)
 Shaw, Richard Paul Integral equation methods in acoustics. (see 91b:00044)
 — (with Huang, S.-C.) Element and eigenfunction expansion forms for an embedding integral equation approach to acoustics. (see 91f:00015)
 — (with Huang, S.-C.) The embedding integral equation method with application to acoustic problems. 91m:76107
 Skelton, Elizabeth A. Acoustic scattering by parallel plates with a single connector. 91e:76101
 — Acoustic scattering by parallel plates with periodic connectors. 91e:76102
 Smagin, S. I. see Ershov, N. E., 91h:76070
 Smyshlyaev, V. P. Ray-mode representations of Green's function in a three-dimensional homogeneous waveguide. (Russian. English summary) 91h:76072
 Sozonenko, Yu. A. see Pekurovskii, L. E.; et al., 91j:76060
 Szeri, Andrew J. (with Leal, L. Gary) The onset of chaotic oscillations and rapid growth of a spherical bubble at subcritical conditions in an incompressible liquid. 91m:76108
 Tarlovskii, D. V. see Gorskov, A. G.; et al., 91j:76058
 Tew, R. H. Ray theory of the diffraction of sound by an inhomogeneous membrane. 91e:76103
 Varlamov, V. V. On the propagation of nonstationary acoustic waves in a relaxing medium. 91h:76093
 — (with Nesterov, A. V.) Asymptotic representation of a solution of the problem of acoustic wave propagation in an inhomogeneous compressible relaxing medium. (Russian) 91j:76061
 de Vicente, Santiago Harmonic analysis of parasitic waves on a first-order artificial boundary for acoustic-wave equations. (Spanish) (see 91j:00015)
 Wickham, G. R. see Abrahams, I. D., 91c:76095 and 91j:76056
 Wu, Biao (with Zhang, Guan Quan) The simultaneous inversion of acoustic velocity and dissipation. 91c:76100
 Xie, Gan Quan (with Li, Jian Hua¹) Nonlinear integral equation of coefficient inversion of acoustic wave equation and iteration. 91c:76101
 Xu, Yong Zhi see Gilbert, Robert P., 91a:76080 and 91e:76097
 Zhang, Guan Quan see Wu, Biao, 91c:76100

Items with secondary classifications in 76Q05

- Abrahams, I. D. (with Wickham, G. R.) General Wiener-Hopf factorization of matrix kernels with exponential phase factors. 91h:73018
 Abramov, A. A. (with Konyukhova, N. B.; Paritskii, B. S.; Prikhod'ko, V. Yu.; Tyutekin, V. V.) Erratum: "Numerical investigations of free and forced oscillations of closed elastic general shells of revolution in a compressible medium" [Zh. Vychisl. Mat. i Mat. Fiz. 29 (1989), no. 5, 747–764; MR 90g:73101]. (Russian) (Not in MR)
 Abramov, Yu. Sh. Regular waveguide systems that generate two-parameter operator pencils of waveguide type. (Russian) (see 91k:00025)
 (Achenbach, J. D.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
 Ahuja, K. K. see Tam, Christopher K. W., (Not in MR)
 Almgren, Robert F. (with Majda, Andrew J.; Rosales, Rodolfo R.) Rapid initiation in condensed phases through resonant nonlinear acoustics. 91c:80020
 Ames, William F. Optimal numerical algorithms. 91m:65237
 Amin, S. (with Chen, Ke) Iterative techniques for boundary element methods—application to the exterior acoustic problem. 91e:76077

- Angel, Y. C. On the static and dynamic equilibrium of concentrated loads in linear acoustics and linear elasticity. 91f:73016
- Apel'tsin, V. F. (with Kyurkchan, A. G.) ★ Аналитические свойства волновых полей. (Russian) [Analytic properties of wave fields] 91k:35189
- Athanasiadis, Ch. Acoustic scattering theory for a multi-layered scatterer in low-frequency. 91c:35041
- Augenbaum, Jeffrey M. Multidomain adaptive pseudospectral methods for acoustic wave propagation in discontinuous media. (see 91f:76004)
- Baer, A. V. Uniqueness of a solution of an inverse problem for an equation in acoustics, and an inverse spectral problem. (Russian) 91b:35320
- Banerjee, Prasanta K. see Israel, A. S. M., 91a:73075
- Bastos, M. A. (with dos Santos, A. F.) Convolution equations of the first kind on a finite interval in Sobolev spaces. 91f:47066
- van den Berg, P. M. (with Kleinman, R. E.) Iterative solution of integral equations in scattering problems. (see 91k:73002)
- see also Kleinman, R. E.; et al., 91a:65250
- Berger, N. E. see Phanord, D. D., 91f:73019
- Beylkin, G. (with Burridge, R.) Linearized inverse scattering problems in acoustics and elasticity. 91c:73034
- Bhaskar, T. Ganana see Venkatesulu, M., 91b:47110
- Bielak, J. (with MacCamy, Richard C.) Symmetric finite element and boundary integral coupling methods for fluid-solid interaction. 91m:65270
- Bleistein, Norman (with Cohen, Jack K.) Stacking of narrow aperture common shot inversions. 91a:73017
- Bombelli, Luca (with Couch, W. E.; Torrence, R. J.) Wake-free waves in one and three dimensions. 91f:35114
- Brandão, Maurício P. Towards the unification of acoustics and fluid mechanics. 91b:76051
- (Bunkin, F. V.) see Nonlinear wave processes, 91b:76029
- Burridge, R. see Beylkin, G., 91c:73034
- (Cakmak, Ahmet) see Computational acoustics, 91f:76002; 91f:76003 and 91f:76004
- Cates, A. T. (with Crighton, D. G.) Nonlinear diffraction and caustic formation. 91k:58144
- Chen, Ke see Amini, S., 91c:76077
- Cheng, Jia³ Some properties of far field patterns of acoustic waves in an inhomogeneous medium. 91j:35210
- Chopik, V. I. see Fushchich, V. I.; et al., 91j:35267
- Cohen, Gary (with Joly, Patrick) Fourth order schemes for the heterogeneous acoustics equation. 91k:76117
- Cohen, Jack K. see Bleistein, Norman, 91a:73017
- Colton, David (with Monk, P. B.) The inverse scattering problem for acoustic waves in an inhomogeneous medium. 91f:65200
- (with Monk, P. B.) A new method for solving the inverse scattering problem for acoustic waves in an inhomogeneous medium. II. 91j:35278
- Couch, W. E. see Bombelli, Luca; et al., 91f:35114
- Crighton, D. G. see Cates, A. T., 91k:58144
- Danilov, V. Ya. Some optimization problems for a parabolic equation in acoustics. (Russian) 91f:49040
- (Datta, S. K.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
- David, J. M. see Soize, C.; et al., 91f:73053
- Desanti, Annick see Soize, C.; et al., 91a:73053
- DeSanto, John A. Approximation methods for scattering from rough surfaces. 91m:35180
- Ding, Yu (with Planchard, Jacques) Une méthode numérique pour le problème inverse des ondes acoustiques en régime harmonique diffractées par une surface rigide en 2D. [A numerical method for solving the inverse problem of acoustical waves diffracted by a two-dimensional rigid surface in a harmonic region] 91f:76075
- (with Planchard, Jacques) Méthode d'optimisation pour résoudre le problème d'impédance inverse des ondes acoustiques en régime harmonique en 2 dimensions. [An optimization method for solving the inverse impedance problem for acoustical waves in a harmonic region in two dimensions] (Not in MR)
- Domadski, W. Surface and boundary waves for linear hyperbolic systems: applications to basic equations of electrodynamics and mechanics of continuum. (Russian and Polish summaries) 91f:35121
- Doyle, John (with Englefield, M. J.) Similarity solutions of a generalized Burgers equation. 91f:35016
- Engelbrecht, Jöri K. (with Fridman, V. E.; Pelinovskii, E. N.) ★ Nonlinear evolution equations. 91k:35222
- Englefield, M. J. see Doyle, John, 91f:35016
- Englisch, V. see Parltz, Ulrich; et al., 91c:76020
- Erëma, Yu. A. (with Orlov, N. V.) Quasiresolution of problems of the diffraction of acoustical waves by thin three-dimensional screens. (Russian. English summary) 91f:35076
- (with Sveshnikov, A. G.) An iterative method for solving diffraction problems on the basis of dissipative operators. 91j:65176
- Evans, D. V. (with McIver, P.) Trapped waves over symmetric thin bodies. 91k:76016
- Farky, L. S. On the asymptotic behaviour of solutions of the exterior boundary acoustic problem outside trapping obstacles. 91m:35132
- Farrell, R. A. see Freund, D. E., 91c:35115
- Fedorov, S. I. see Lyashenko, N. N., 91m:65317
- Freund, D. E. (with Farrell, R. A.) A variational principle for the scattered wave. 91c:35115
- see also Engelbrecht, Jöri K.; et al., 91k:35222
- Fushchich, V. I. (with Chopik, V. I.; Mironyuk, P. I.) Conditional invariance and exact solutions of three-dimensional nonlinear equations in acoustics. (Russian. English summary) 91j:35267
- Gady'shin, R. R. The amplitude of oscillations for a Helmholtz resonator. 91f:35077
- Gilbert, Robert P. (with Xu, Yong Zhi) The propagation problem and far-field patterns in a stratified finite-depth ocean. 91d:35055
- Guyader, J.-L. Uncertainty bounds for energy of imperfectly described vibration fields. Application to the validity of truncated modal expansion. 91d:73025
- Gur', A. N. (with Nemish, Yu. N.) ★ Метод возмущения форм границ в механике сплошных сред. (Russian) [Methods for perturbing boundary forms in continuum mechanics] 91f:73007
- Ha-Duong, Tuong On the transient acoustic scattering by a flat object. 91k:35116
- Heins, Albert E. The Sommerfeld half-plane problem revisited. V. The bifurcated guide with mixed boundary conditions on the septum. 91f:78007
- Hung, Hung Chi (with Li, Yu Feng) A new boundary element method for resonance of an acoustic enclosure. (Chinese summary) (Not in MR)
- Hunter, John K. Numerical solutions of some nonlinear dispersive wave equations. (see 91a:65005)
- Nonlinear geometrical optics. 91k:76137
- Israel, A. S. M. (with Banerjee, Prasanta K.) Advanced development of time-domain BEM for two-dimensional scalar wave propagation. 91a:73075
- Joly, Patrick see Cohen, Gary, 91k:76117
- Kabanikhina, I. I. Numerical realization of the Monte Carlo algorithm for solving a matrix analogue of an inverse problem for an equation in acoustics. (Russian) (see 91g:65009)
- Kaplanov, Yu. D. Equations of high-frequency long-wave vibrations of an elastic layer lying on an acoustic half-space. 91f:73012
- Karlsson, Anders (with Kristensson, Gerhard) Wave splitting in the time domain for a radially symmetric geometry. 91f:35154
- Kassoy, D. R. see Sutrisno, 91m:76067
- Katranov, A. G. see Likhachev, V. M.; et al., 91f:33013
- Kikuchi, Keiji (with Tamura, Hideo) Limiting amplitude principle for acoustic propagators in perturbed stratified fluids. 91k:35145
- Kleinman, R. E. (with Roach, G. F.; Schuetz, L. S.; Shirron, J.; van den Berg, P. M.) An over-relaxation method for the iterative solution of integral equations in scattering problems. 91a:65250
- see also van den Berg, P. M., (91k:73002)
- Konyukhova, N. B. see Abramov, A. A.; et al., (Not in MR)
- Kress, Rainer Numerical methods in inverse acoustic obstacle scattering. 91f:65207
- Krishnasamy, G. (with Schmerr, L. W.; Rudolph, Thomas J.; Rizzo, F. J.) Hypersingular boundary integral equations: some applications in acoustic and elastic wave scattering. 91c:73029
- Kristensson, Gerhard see Karlsson, Anders, 91f:35154
- Kyurkchan, A. G. see Apel'tsin, V. F., 91k:35189
- Lauterborn, Werner see Parltz, Ulrich; et al., 91c:76020
- (Lee, Ding) see Computational acoustics, 91f:76002; 91f:76003 and 91f:76004
- Leppington, F. G. The effective boundary conditions for a perforated elastic sandwich panel in a compressible fluid. 91b:73032
- Li, Yu Feng see Hung, Hung Chi, (Not in MR)
- Likhachev, V. M. (with Katranov, A. G.; Stashkevich, A. I.) Calculation of a special function in mathematical diffraction theory. (Russian) 91f:33013
- Longuet-Higgins, Michael S. An analytic model of sound production by raindrops. 91b:76012
- Ray paths and caustics on a slightly oblate ellipsoid. 91d:58022
- Lukovskii, I. A. (with Timokha, A. N.) Selfadjointness of an integro-differential operator. 91m:35199
- Lyashenko, N. N. (with Fedorov, S. I.) An algorithm for analyzing the structure of group signal sources. (Russian) 91m:65317
- MacCamy, Richard C. see Bielak, J., 91m:65270
- Majda, Andrew J. see Almgren, Robert F.; et al., 91c:80020
- McCoy, John J. (with Wales, Stephen C.) Another interpretation and derivation of one-way wave theories. 91f:35079
- McIver, P. see Evans, D. V., 91k:76016
- Métivier, Guy Ondes soniques. [Sound waves] 91m:35137
- Mikala, Michael J. see Ting, Lu, 91f:76077
- Mironyuk, P. I. see Fushchich, V. I.; et al., 91j:35267
- Monk, P. B. see Colton, David, 91f:65200 and 91j:35278
- Morgenröther, K. (with Werner, Peter) On the instability of resonances in parallel-plane waveguides under local perturbations of the boundary. 91d:35128
- Nakoryakov, V. E. (with Pokusaev, B. G.; Shreiber, I. R.) ★ Волновая динамика газопарожидкостных сред. (Russian) [Wave dynamics of gas- and steam-liquid media] 91f:76096
- Nemish, Yu. N. see Gur', A. N., 91f:73007
- Orlov, N. V. see Erëma, Yu. A., 91f:35076
- Parltz, B. S. see Abramov, A. A.; et al., (Not in MR)
- Parltz, Ulrich (with Englisch, V.; Scheffczyk, C.; Lauterborn, Werner) Bifurcation structure of bubble oscillators. 91c:76020
- Parncutt, Richard ★ Harmony: a psychoacoustical approach. 91c:00015
- Pelinovskii, E. N. see Engelbrecht, Jöri K.; et al., 91k:35222
- Pence, Thomas J. On the encounter of an acoustic shear pulse with a phase boundary in an elastic material: reflection and transmission behavior. 91k:73042
- Phanord, D. D. (with Berger, N. E.) Reciprocity relations and energy theorems for multiple scattering of elastic waves. 91f:73019
- Pivovarchik, V. N. A spectral problem that is connected with an equation of viscous sound. 91g:34049
- Planchard, Jacques see Ding, Yu, 91f:76075 and (Not in MR)
- Pokusaev, B. G. see Nakoryakov, V. E.; et al., 91f:76096
- Popov, I. Yu. Justification of a model of zero-width slits for the Neumann problem. 91k:35062
- Prikhod'ko, V. Yu. see Abramov, A. A.; et al., (Not in MR)
- Prosperetti, Andrea The thermal behaviour of oscillating gas bubbles. 91k:76138
- Rabinovich, V. S. On the solvability of problems of acoustics of open waveguides. (Russian) 91j:35159
- (Rajapakse, Y. S.) see Elastic waves and ultrasonic nondestructive evaluation, 91k:73002
- Rizzo, F. J. see Krishnasamy, G.; et al., 91c:73029
- Roach, G. F. see Kleinman, R. E.; et al., 91a:65250
- Romanov, V. G. Questions of the well-posedness of a problem of determining the speed of sound. 91g:35239
- Rosales, Rodolfo R. see Almgren, Robert F.; et al., 91c:80020
- Rudolph, Thomas J. see Krishnasamy, G.; et al., 91c:73029

- Sabatier, Pierre C. On modeling discontinuous media. Three-dimensional scattering. 91a:81221
- Sacks, Paul E. (with Symes, William W.) Velocity inversion from common offset data. 91h:73037
- A velocity inversion problem involving an unknown source. 91d:35234
- dos Santos, A. F. see Bastos, M. A., 91d:7066
- Scheffczyk, C. see Parilitz, Ulrich; et al., 91e:76020
- Schmerr, L. W. see Krishnasamy, G.; et al., 91c:73029
- Schuetz, L. S. see Kleinman, R. E.; et al., 91a:65250
- Shestopalov, V. P. (with Sirenko, Yu. K.) ★ Динамическая теория решеток. (Russian) [Dynamic theory of gratings] 91e:78030
- see also Tuckhla, Yu. A., (Not in MR) and (Not in MR)
- Shirron, J. see Kleinman, R. E.; et al., 91a:65250
- Shreber, I. R. see Nakoryakov, V. E.; et al., 91g:76096
- Sil'chenko, Yu. T. A boundary value problem for an equation of the type of sound propagation in a viscous gas. (Russian) (see 91h:34001)
- Sirenko, Yu. K. see Shestopalov, V. P., 91e:78030
- Smagin, S. I. On a system of integral equations in diffraction theory. 91i:35050
- Seize, C. (with David, J. M.; Desanti, Annick) Dynamic and acoustic response of coupled structure/dense fluid axisymmetric systems excited by a random wall pressure field. 91a:73053
- Spivack, Mark Operator splitting for the random wave moment equations. 91h:65210
- Stashkevich, A. I. see Likhachev, V. M.; et al., 91f:33013
- Stephan, E. P. see Wendland, Wolfgang L., 91k:35063
- (Sakur, A. I.) see Ape'tsin, V. F., 91k:35189
- Sutrisno (with Kassoy, D. R.) Weak shocks initiated by power deposition on a spherical source boundary. 91m:76067
- Sveshnikov, A. G. see Ermiin, Yu. A., 91g:65176
- Symes, William W. see Sacks, Paul E., 91h:73037
- Tam, Christopher K. W. (with Ahuja, K. K.) Theoretical model of discrete tone generation by impinging jets. (Not in MR)
- Tamura, Hideo see Kikuchi, Koji, 91k:35145
- Timoshka, A. N. see Lakovskii, I. A., 91m:35199
- Ting, Li (with Miksis, Michael J.) On vortical flow and sound generation. 91a:76077
- Torrence, R. J. Selfadjoint acoustic equations with progressing wave solutions. 91g:35157
- see also Bombelli, Luca; et al., 91k:35114
- Tuckhla, Yu. A. (with Shestopalov, V. P.) Diffraction of waves by screens of finite thickness. (Not in MR)
- (with Shestopalov, V. P.) Regularization of a boundary value problem of diffraction by a wavy surface with the Dirichlet condition. (Not in MR)
- Tyutkin, V. V. see Abramov, A. A.; et al., (Not in MR)
- Varlamov, V. V. An initial-boundary value problem for a third-order hyperbolic equation. (Russian) 91g:35165
- Venkatesulu, M. (with Bhaskar, T. Gnana) Selfadjoint boundary value problems associated with a pair of mixed linear ordinary differential equations. 91h:47110
- (Vikhevetzky, Robert) see Computational acoustics, 91i:76002; 91i:76003 and 91i:76004
- (Vol'yak, K. I.) see Nonlinear wave processes, 91h:76029
- Wales, Stephen C. see McCoy, John J., 91i:35079
- Wang, Qing² (with Xu, Bo Hou) On the uniqueness of boundary integral equation for the exterior Helmholtz problem. 91i:35052
- Wendland, Wolfgang L. (with Stephan, E. P.) A hypersingular boundary integral method for two-dimensional screen and crack problems. 91k:35063
- Werner, Peter Zero resonances in local perturbations of parallel-plane waveguides. 91j:35160
- see also Morgenroth, K., 91d:35128
- Wickham, G. R. see Abrahams, I. D., 91h:73018
- Xu, Bo Hou see Wang, Qing², 91i:35052
- Xu, Yong Zhi An optimal control problem for the Helmholtz equation in a stratified shallow ocean. 91i:49024
- see also Gilbert, Robert P., 91d:35055
- Zabolot'skaya, E. A. Nonlinear waves in a liquid with gas bubbles. (Russian. English summary) (see 91h:76029)
- Zhang, Guan Quan On an inverse problem for 1-dimensional wave equation. 91i:35211
- Items listed otherwise than by author
- Boulder, CO ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
- Computational acoustics ★ Computational acoustics. Vol. 1. 91i:76002
- ★ Computational acoustics. Vol. 2. 91i:76003
- ★ Computational acoustics. Vol. 3. 91i:76004
- Elastic waves and ultrasonic nondestructive evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
- IMACS Symposium:
- Computational Acoustics ★ Computational acoustics. Vol. 1. 91i:76002
- ★ Computational acoustics. Vol. 2. 91i:76003
- ★ Computational acoustics. Vol. 3. 91i:76004
- IUTAM Symposium:
- Elastic Wave Propagation and Ultrasonic Evaluation ★ Elastic waves and ultrasonic nondestructive evaluation. 91k:73002
- Nonlinear wave processes ★ Нелинейные волновые процессы. (Russian) [Nonlinear wave processes] 91h:76029
- Princeton, NJ ★ Computational acoustics. Vol. 1. 91i:76002
- ★ Computational acoustics. Vol. 2. 91i:76003
- ★ Computational acoustics. Vol. 3. 91i:76004

76Rxx Diffusion and convection

Kumar, Prem (with Narayanan, P. Sambath; Rout, Sarbeswar) Quasilinearized solution of two-component laminar natural convection boundary layer over a vertical plate with thermal diffusion and diffusion thermo effects. 91d:76071

Narayanan, P. Sambath see Kumar, Prem; et al., 91d:76071

Rout, Sarbeswar see Kumar, Prem; et al., 91d:76071

Items with secondary classifications in 76Rxx

- Bank, Randolph E. (with Bürgler, Josef F.; Fichtner, Wolfgang; Smith, R. Kent) Some upwinding techniques for finite element approximations of convection-diffusion equations. 91i:65175
- Brenner, H. see Dungan, Stephanie R.; et al., 91d:76076
- Bürgler, Josef F. see Bank, Randolph E.; et al., 91i:65175
- Dick, Erik Relaxation solution of steady flow equations. 91h:76063
- Dungan, Stephanie R. (with Shapiro, Michael; Brenner, H.) Convective-diffusive-reactive Taylor dispersion processes in particulate multiphase systems. 91d:76076
- Fichtner, Wolfgang see Bank, Randolph E.; et al., 91i:65175
- Frischer, Michael Numerical methods for diffusion-convection equations. (see 91e:90021)
- Hamada, Hozumi see Tabata, Masahisa; et al., 91k:65145
- Ho, Lee-Wing (with Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. 91g:76077
- Hu, Xian Cheng (with Li, Jin) An adaptive finite element method for convection-diffusion equations in one dimension. (Chinese. English summary) 91g:65184
- Johnson, Claes Adaptive finite element methods for diffusion and convection problems. 91k:65134
- Li, Jin see Hu, Xian Cheng, 91g:65184
- Maday, Yvon see Ho, Lee-Wing; et al., 91g:76077
- Malomed, B. A. (with Nepomnyashchii, A. A.; Tribel'skii, M. I.) Domain boundaries in convection patterns. 91k:76056
- Moore, D. R. (with Weiss, N. O.; Wilkins, J. M.) Symmetry-breaking in thermosolutal convection. 91g:76037
- Nepomnyashchii, A. A. see Malomed, B. A.; et al., 91k:76056
- Ozeki, Yoshiichi see Tabata, Masahisa; et al., 91k:65145
- Patera, Anthony T. see Ho, Lee-Wing; et al., 91g:76077
- Rigal, Alain Numerical analysis of three-time-level finite difference schemes for unsteady diffusion-convection problems. 91k:65136
- Rønquist, Einar M. see Ho, Lee-Wing; et al., 91g:76077
- de Sampaio, P. A. B. A Petrov-Galerkin/modified operator formulation for convection-diffusion problems. 91c:76076
- Shapiro, Michael see Dungan, Stephanie R.; et al., 91d:76076
- Smith, R. Kent see Bank, Randolph E.; et al., 91i:65175
- Straughan, Brian Continuous dependence on the heat source and nonlinear stability for convection with internal heat generation. 91k:76063
- Tabata, Masahisa (with Ozeki, Yoshiichi; Hamada, Hozumi) Symmetric finite element computation of convection-diffusion equations on a URX machine. 91k:65145
- Thomaidis, George (with Zygorakis, Kyriacos; Wheeler, Mary F.) An explicit finite difference scheme based on the modified method of characteristics for solving convection-diffusion problems in one space dimension. 91a:76069
- Tribel'skii, M. I. see Malomed, B. A.; et al., 91k:76056
- Weiss, N. O. see Moore, D. R.; et al., 91g:76037
- Wheeler, Mary F. see Thomaidis, George; et al., 91a:76069
- Wilkins, J. M. see Moore, D. R.; et al., 91g:76037
- Zygorakis, Kyriacos see Thomaidis, George; et al., 91a:76069

76R05 Forced convection

- Daniels, P. G. (with Ong, C. F.) Nonlinear convection in a rigid channel uniformly heated from below. 91c:76102
- Ong, C. F. see Daniels, P. G., 91c:76102
- Items with secondary classifications in 76R05
- Anamika, B. M. see Srini, P. K., 91i:76053
- Aristov, S. N. (with Frik, P. G.) Large-scale turbulence in Rayleigh-Bénard convection. 91h:76071
- Brand, Helmut R. Envelope equations near the onset of a hexagonal pattern. 91c:76047
- Castillo, J. L. (with Garcia-Ybarra, P. L.; Velarde, M. G.) Thermohydrodynamic instabilities. 91f:76028
- Frik, P. G. see Aristov, S. N., 91h:76071
- Garcia-Ybarra, P. L. see Castillo, J. L.; et al., 91f:76028
- Lindsay, K. A. (with Straughan, Brian) Energy methods for nonlinear stability in convection problems primarily related to geophysics. 91i:76031
- Mahmoud, T. see Merkin, J. H.; et al., 91m:76109
- Massaguer, Josep M. (with Mercader, Isabel; Net, Marta) Nonlinear dynamics of vertical vorticity in low-Prandtl-number thermal convection. 91d:76036
- Mercader, Isabel see Massaguer, Josep M.; et al., 91d:76036
- Merkin, J. H. (with Pop, Ioan²; Mahmoud, T.) Mixed convection on a vertical surface with a prescribed heat flux: the solution for small and large Prandtl numbers. 91m:76109
- Net, Marta see Massaguer, Josep M.; et al., 91d:76036
- Newell, Alan C. (with Passot, Thierry; Souli, Mohammad) The phase diffusion and mean drift equations for convection at finite Rayleigh numbers in large containers. 91h:76038
- Passot, Thierry see Newell, Alan C.; et al., 91h:76038
- Pop, Ioan² see Merkin, J. H.; et al., 91m:76109
- Rees, D. A. S. The effect of long-wavelength thermal modulations on the onset of convection in an infinite porous layer heated from below. 91h:76058
- Riley, D. S. (with Winters, K. H.) A numerical bifurcation study of natural convection in a tilted two-dimensional porous cavity. 91d:76037
- Risener, Salvatore (with Straughan, Brian) Convection in a porous medium with internal heat source and variable gravity effects. 91h:76059
- Souli, Mohammad see Newell, Alan C.; et al., 91h:76038
- Srini, P. K. Marangoni porous convection in a cylindrical geometry. I. Surface tension effects dominant. 91f:76052
- (with Anamika, B. M.) Marangoni porous convection in a cylindrical geometry. II. Buoyancy effects dominant. 91f:76053

- Straughan, Brian *see* Rionero, Salvatore, 91h:76059 and Lindsay, K. A., 91j:76031
 Velarde, M. G. *see* Castillo, J. L.; et al., 91f:76028
 Winters, K. H. *see* Riley, D. S., 91d:76037

76R10 Free convection

- Abd-el-Malek, M. B. (with Badran, N. A.) Group method analysis of unsteady free-convective laminar boundary-layer flow on a nonisothermal vertical circular cylinder. 91j:76062
 — (with Boutros, Y. Z.; Badran, N. A.) Group method analysis of unsteady free-convective laminar boundary-layer flow on a nonisothermal vertical flat plate. 91g:76085
 Badran, N. A. *see* Abd-el-Malek, M. B.; et al., 91g:76085 and 91j:76062
 Boutros, Y. Z. *see* Abd-el-Malek, M. B.; et al., 91g:76085
 Butuzov, V. F. (with Urazgil'dina, T. A.) Asymptotic solution of the Marangoni convection problem in a thin layer of a viscous liquid. (Russian. English summary) 91k:76146
 Dessal, Prateen V. *see* Littlefield, David L., 91h:76073
 Gol'dshhtik, M. A. (with Shtern, V. N.) Self-similar convection near a thermal quadrupole. 91e:76104
 Impey, M. D. (with Riley, D. S.; Winters, K. H.) The effect of sidewall imperfections of pattern formation in Lapwood convection. 91e:76105
 Littlefield, David L. (with Dessal, Prateen V.) Frobenius analysis of higher order equations: incipient buoyant thermal convection. 91h:76073
 Mahmood, T. *see* Merkin, J. H., 91h:76094 and 91m:76109
 Merkin, J. H. (with Mahmood, T.) On the free convection boundary layer on a vertical plate with prescribed surface heat flux. 91h:76094
 — (with Zhang, G.) Free convection in a horizontal porous layer with a partly heated or cooled wall. (Not in MR)
 — (with Pop, Ioan²; Mahmood, T.) Mixed convection on a vertical surface with a prescribed heat flux: the solution for small and large Prandtl numbers. 91m:76109
 Moore, D. R. (with Weiss, N. O.) Dynamics of double convection. 91m:76110
 Pop, Ioan² *see* Merkin, J. H.; et al., 91m:76109
 Riley, D. S. *see* Impey, M. D.; et al., 91e:76105
 Shtern, V. N. *see* Gol'dshhtik, M. A., 91e:76104
 Urazgil'dina, T. A. *see* Butuzov, V. F., 91k:76146
 Weiss, N. O. *see* Moore, D. R., 91m:76110
 Winters, K. H. *see* Impey, M. D.; et al., 91e:76105
 Zhang, G. *see* Merkin, J. H., (Not in MR)

Items with secondary classifications in 76R10

- Amin, Nornarahaida The effect of bottom topography on channel flow induced by a travelling thermal wave. 91k:76040
 Fabris, Pierre Attracteurs pour deux modèles de convection naturelle en milieux poreux. (English summary) [Attractors for two models of natural convection in porous media] 91k:35206
 Floryan, J. M. Thermocapillary effects in liquid bridges. (see 91g:00044)
 Fuhrman, Marco On Boussinesq's model for free convection in an unbounded domain. (Italian summary) 91k:35223
 Georgescu, Adelina (with Oprea, Iuliana) Neutral stability curves for a thermal convection problem. II. The case of multiple solutions of the characteristic equation. 91k:76069
 Howard, Louis N. Limits on the transport of heat and momentum by turbulent convection with large-scale flow. 91h:76047
 Knobloch, Edgar Pattern selection in long-wavelength convection. 91c:76054
 Lagunova, M. V. On the solvability of a three-dimensional problem of thermocapillary convection. (Russian) 91f:35211
 Lindsay, K. A. (with Straughan, Brian) Energy methods for nonlinear stability in convection problems primarily related to geophysics. 91j:76031
 Nagata, Wayne Symmetry-breaking effects of distant sidewalls in Rayleigh-Bénard convection. (see 91f:35003)
 — Convection in a layer with sidewalls: bifurcation with reflection symmetries. 91h:76057
 Néel, Marie-Christine Convection naturelle dans une couche poreuse horizontale d'extension infinie: chauffage inhomogène. (English summary) [Natural convection in a horizontal porous layer of infinite extent: inhomogeneous heating] 91k:76034
 Oprea, Iuliana *see* Georgescu, Adelina, 91k:76069
 Pascal, H. (with Pascal, J. P.) Nonlinear effects of non-Newtonian fluids on natural convection in a porous medium. 91a:76082
 Pascal, J. P. *see* Pascal, H., 91a:76082
 Rees, D. A. S. (with Riley, D. S.) The three-dimensional stability of finite-amplitude convection in a layered porous medium heated from below. 91a:76040
 Riley, D. S. (with Winters, K. H.) Time-periodic convection in porous media: the evolution of Hopf bifurcations with aspect ratio. 91k:76059
 — *see also* Rees, D. A. S., 91a:76040
 Straughan, Brian *see* Lindsay, K. A., 91j:76031
 Winters, K. H. *see* Riley, D. S., 91k:76059

76R50 Diffusion [see also 60J60]

- Asanov, A. R. (with Mamayusupov, O. Sh.) An inverse problem for an equation of the convective diffusion of salts in porous media. (Russian) 91k:76147
 Berk, H. L. *see* Dumas, L.; et al., 91f:76050
 Bernard, Peter S. Convective diffusion in two-dimensional incompressible linear flow. 91j:76063
 De Angelis, P. L. (with Murti, A.; Pirozzi, M. A.) A tridimensional convection-diffusion numerical model for a basin. 91f:76049
 Dumas, L. (with Horton, Claude Wendell, Jr.; Berk, H. L.) Stochastic diffusion in two-dimensional periodic flows. 91f:76050
 Gomes, Sônia M. Diffusion controlled growth of precipitate particles: similarity solutions with radial symmetries. (see 91g:00044)
 Graham-Eagle, James (with Stakgold, I.) A steady-state diffusion problem with fractional power absorption rate. 91c:76103

- Hornung, Ulrich (with Showalter, Ralph E.) Diffusion models for fractured media. 91d:76072
 Horton, Claude Wendell, Jr. *see* Dumas, L.; et al., 91f:76050
 Kay, Anthony Advection-diffusion in reversing and oscillating flows. I. The effect of a single reversal. 91h:76074
 Mamayusupov, O. Sh. *see* Asanov, A. R., 91k:76147
 Mercer, G. N. (with Roberts, A. J.) A centre manifold description of contaminant dispersion in channels with varying flow properties. 91m:76111
 Messerie, E. S. On the existence of an optimal control of a system of diffusion equations in a three-component gas mixture. (Russian) (see 91k:00020)
 Moshinskii, A. I. Dispersion of an impurity in non-one-dimensional flows. (Not in MR)
 Murti, A. *see* De Angelis, P. L.; et al., 91f:76049
 Perry, W. L. *see* Shen, S. S. P., 91g:76086
 Pirozzi, M. A. *see* De Angelis, P. L.; et al., 91f:76049
 Roberts, A. J. *see* Mercer, G. N., 91m:76111
 Russo, Giovanni Deterministic diffusion of particles. 91h:76075
 Shen, S. S. P. (with Perry, W. L.) An example of nonlinear toxic mass spreading. 91g:76086
 Showalter, Ralph E. *see* Hornung, Ulrich, 91d:76072
 Stakgold, I. *see* Graham-Eagle, James, 91c:76103
 Van den Broeck, C. Taylor dispersion revisited. 91h:76076

Items with secondary classifications in 76R50

- Avellaneda, Marco (with Majda, Andrew J.) Mathematical models with exact renormalization for turbulent transport. 91f:76035
 Bass, Ludvik *see* McNabb, Alex, 91a:35088
 Bellamy, Philippe *see* Yang, Guo Lu; et al., (Not in MR)
 Bernard, D. (with Sero-Guillaume, O. E.) Lattice gases mixtures models for mass diffusion. 91m:76096
 Bhutani, O. P. (with Vijayakumar, K.) On the isogroups of the generalised diffusion equation. 91c:58146
 Buleev, S. N. A modification of the method of domain decomposition. (Russian) 91d:65185
 Carillo, Sandra *see* Guo, Ben Yu, 91k:76152
 Cohen, Donald S. (with White, Andrew B., Jr.) Sharp fronts due to diffusion and viscoelastic relaxation in polymers. 91k:35058
 Coll, Pierluigi (with Rodrigues, José-Francisco) A perturbation problem related to the highly compressible behaviour of a fluid in a thin porous layer. 91a:35081
 Cox, Robert W. Shocks in a model for stress-driven diffusion. 91h:35167
 van Duin, C. J. (with Zhang, Hong Fei) Properties of weak solutions of a class of doubly degenerate diffusion equations. 91j:35148
 Fasano, A. (with Primicerio, M.; Ricci, Riccardo) Limiting behaviour of some problems in diffusive penetration. (Italian summary) 91k:35214
 Feingold, Mario (with Kadanoff, Leo P.; Piro, Oreste) Transport of passive scalars: KAM surfaces and diffusion in three-dimensional Liouvillean maps. 91a:58160
 Giudici, Mauro Identifiability of distributed physical parameters in diffusive-like systems. 91m:35238
 Grebenev, V. N. Solvability of the problem of development of a region of turbulent homogeneous fluid. (Russian) 91h:76046
 Guo, Ben Yu (with Carillo, Sandra) Infiltration in soils with prescribed boundary concentration. 91k:76152
 Gurtin, Morton E. On diffusion in two-phase systems: the sharp interface versus the transition layer. 91h:80002
 Hill, Desmond L. *see* Hill, James M., 91m:35210
 Hill, James M. (with Hill, Desmond L.) High-order nonlinear evolution equations. 91m:35210
 Howes, F. A. Two-dimensional advection-diffusion equations with constant limiting solutions. 91h:35113
 Jiang, Li Shang (with Primicerio, M.; Xie, Wei Qing) A class of diffraction problems in diffusive absorption phenomena. 91m:35101
 Joseph, Daniel D. Fluid dynamics of two miscible liquids with diffusion and gradient stresses. 91j:76026
 Kadanoff, Leo P. *see* Feingold, Mario; et al., 91a:58160
 Kamin, Shoshana (with Peletier, Lambertus A.; Vázquez, Juan Luis) Classification of singular solutions of a nonlinear heat equation. 91g:35137
 Korolkov, M. D. *see* Silant'ev, N. A., 91c:76063
 Lohéac, Jean-Pierre Une condition aux limites artificielle pour un problème de convection-diffusion. (English summary) [An artificial boundary condition for an advection-diffusion problem] 91f:35125
 — An artificial boundary condition for an advection-diffusion equation. 91m:35104
 Majda, Andrew J. *see* Avellaneda, Marco, 91f:76035
 McNabb, Alex (with Bass, Ludvik) Flux-ratio theorems for nonlinear equations of generalized diffusion. 91a:35088
 Noye, John Some explicit three-level finite-difference simulations of advection. (Not in MR)
 Peletier, Lambertus A. *see* Kamin, Shoshana; et al., 91g:35137
 Peyret, Roger The Chebyshev multidomain approach to stiff problems in fluid mechanics. 91g:76079
 Pham Le'i Va Weak Cauchy problems for diffusion equations. 91m:35098
 Piro, Oreste *see* Feingold, Mario; et al., 91a:58160
 Primicerio, M. *see* Fasano, A.; et al., 91k:35214 and Jiang, Li Shang; et al., 91m:35101
 Ricci, Riccardo *see* Fasano, A.; et al., 91k:35214
 Rodrigues, José-Francisco *see* Coll, Pierluigi, 91a:35081
 Rose, Milton E. Compact finite volume methods for the diffusion equation. 91h:65180
 Savell', A. E. Аналитические методы решения уравнения Колмогорова. (Russian) [Analytic method for solving the Kolmogorov equations] 91j:35117
 Sero-Guillaume, O. E. *see* Bernard, D., 91m:76096
 Showalter, Ralph E. (with Walkington, Noel J.) A diffusion system for fluid in fractured media. 91c:35081

- Silant'ev, N. A. (with Korolkov, M. D.) Diffusion of a scalar field in a compressible turbulent medium. (German summary) 91c:76063
- Smith, Ronald Two-dimensional shear dispersion for skewed flows in narrow gaps between moving surfaces. 91c:76040
- An easy-to-use formula for contaminant dispersion. 91d:76077
- Temperville, André see Yang, Guo Lu; et al. (Not in MR)
- Vázquez, Juan Luis Two nonlinear diffusion equations with finite speed of propagation. 91b:35156
- see also Kamin, Shoshana; et al. 91g:35137
- Vijayakumar, K. see Bhutani, O. P. 91c:58146
- Villa, Luis Tadeo Some remarks on a moving boundary problem in a fluid-fluid reaction-diffusion system. 91a:35172
- Walkington, Noel J. see Showalter, Ralph E. 91c:35081
- White, Andrew B., Jr. see Cohen, Donald S. 91k:35058
- Xie, Wei Qing see Jiang, Li Shang; et al. 91m:35101
- Yang, Guo Lu (with Belledy, Philippe; Temperville, André) A higher-order Eulerian scheme for coupled advection-diffusion transport. (Not in MR)
- Zhang, Hong Fei see van Duin, C. J. 91j:35148

76R99 None of the above, but in this section

- Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.) Period tripling and subharmonic oscillations in Marangoni flows in a cylindrical liquid bridge. 91c:76104
- Smyshlyayev, P. P. (with Suranchiev, A. Zh.) Optimal control of the convection of a viscous weakly compressible fluid. 91m:76112
- Suranchiev, A. Zh. see Smyshlyayev, P. P. 91m:76112
- Wilkowski, Joseph S. see Kazarinoff, Nicholas D. 91c:76104
- Items with secondary classifications in 76R99
- Acivos, A. (with Jeffrey, D. J.; Saville, D. A.) Particle migration in suspensions by thermocapillary or electrophoretic motion. 91b:76102
- see also Nir, A. 91a:76083
- Bensabat, J. (with Zeitoun, D. G.) A least-squares procedure for the solution of transport problems. 91a:76075
- Ch'en, Yü I see Wang, Ch'ing An. 91f:76021
- Davis, Stephen H. see Metzner, Ph. 91c:76048
- Dawson, Clint N. (with Russell, T. F.; Wheeler, Mary F.) Some improved error estimates for the modified method of characteristics. 91a:65229
- Degond, Pierre (with Markowich, Peter A.) On a one-dimensional steady-state hydrodynamic model for semiconductors. 91m:82155
- Ferragut, Luis see Montenegro, Rafael Alejandro; et al. 91d:76054
- Jeffrey, D. J. see Acivos, A.; et al. 91b:76102
- Kitagawa, Koichi ★ Boundary element analysis of viscous flow. 91m:76074
- Koch, Donald L. (with Shaqfeh, Eric S. G.) Screening in sedimenting suspensions. 91m:76040
- Markowich, Peter A. see Degond, Pierre. 91m:82155
- Metzner, Ph. (with Davis, Stephen H.) An annulus model for time-space transitions in Bénard convection. 91c:76048
- Montenegro, Rafael Alejandro (with Montero, Gustavo; Winter, Gabriel; Ferragut, Luis) Application of adaptive finite element methods to two-dimensional convection-diffusion problems. (Spanish. English summary) 91d:76054
- Montero, Gustavo see Montenegro, Rafael Alejandro; et al. 91d:76054
- Morro, Angelo (with Straughan, Brian) Time-invariant uniqueness for reacting viscous fluids near chemical equilibrium. 91h:35163
- Nepomnyashchii, A. A. (with Simanovskii, I. B.) Long-wave thermocapillary convection in layers with a deformable interface. (Russian) 91f:76019
- Nir, A. (with Acivos, A.) Sedimentation and sediment flow on inclined surfaces. 91a:76083
- Oden, J. Tinsley see Strouboulis, T. 91a:76066
- Oeda, Kazuo Weak and strong solutions of the heat convection equations in regions with moving boundaries. 91g:35131
- Ottino, J. M. Mixing, chaotic advection, and turbulence. 91c:76067
- Kinematics of chaotic mixing: experimental and computational results. (see 91h:76005)
- Russell, T. F. see Dawson, Clint N.; et al. 91a:65229
- Saville, D. A. see Acivos, A.; et al. 91b:76102
- Shaqfeh, Eric S. G. see Koch, Donald L. 91m:76040
- Shih, Wei Structure of an adaptive grid computational method from the viewpoint of dynamic chaos. (Not in MR)
- Simanovskii, I. B. see Nepomnyashchii, A. A. 91f:76019
- Straughan, Brian see Morro, Angelo. 91h:35163
- Strouboulis, T. (with Oden, J. Tinsley) A posteriori error estimation of finite element approximations in fluid mechanics. 91a:76066
- Taboada, Mario Finite-dimensional asymptotic behavior for the Swift-Hohenberg model of convection. 91d:58233
- Wang, Ch'ing An (with Ch'en, Yü I) Existence and classification of similarity solutions for floating disks and rectangular slots. 91f:76021
- Wheeler, Mary F. see Dawson, Clint N.; et al. 91a:65229
- Winter, Gabriel see Montenegro, Rafael Alejandro; et al. 91d:76054
- Zeitoun, D. G. see Bensabat, J. 91a:76075
- Zolotenko, G. F. Stability of a system of two bodies floating on a liquid. (Russian) 91c:76039
- Items listed otherwise than by author
- Lecture Notes in Engineering see Kitagawa, Koichi. 91m:76074
- Amirat, Youcef (with Hamdache, Kamel; Ziani, Abdelhamid) Homogénéisation d'un modèle d'écoulements miscibles en milieu poreux. (English summary) [Homogenization of a model of miscible flows in porous media] 91c:76105
- Anamika, B. M. see Srimalal, P. K. 91f:76053
- Arbogast, Todd On the simulation of incompressible, miscible displacement in a naturally fractured petroleum reservoir. (French summary) 91d:76073
- (with Douglas, Jim, Jr.; Hornung, Ulrich) Derivation of the double porosity model of single phase flow via homogenization theory. 91d:76074
- Auriault, J.-L. (with Strzelecki, T.; Bauer, Jacek; He, S.) Porous deformable media saturated by a very compressible fluid: quasi-statics. 91k:76148
- see also Mei, C. C. 91m:76117
- Axelrad, D. R. Stochastic transport theory for porous media. 91g:76087
- Barrière, Jean (with Caltagirone, Jean-Paul; Gipouloux, Olivier) Détermination numérique de la perméabilité en milieu poreux périodique tridimensionnel. (English summary) [Numerical determination of permeability in a three-dimensional periodic porous medium] 91b:76095
- Barron, R. M. (with Hamdan, M. H.) The steady motion of an incompressible dusty gas in porous media. 91b:76096
- Bauer, Jacek see Auriault, J.-L.; et al. 91k:76148
- Bedrikovetskii, P. G. (with Kanevskaya, R. D.; Lur'e, M. V.) Self-similar solutions of problems of two-phase flow through porous media with allowance for the compressibility of one of the phases. 91k:76149
- Begmatov, A. Solution of nonstationary problems in the hydrodynamic theory of pressureless filtration by the method of reduction to integro-differential equations. (Russian) 91j:76064
- Bereslavskii, E. N. Mathematical modeling of filtration flows from canals and irrigation canals. (Russian) (Not in MR)
- Blake, J. R. see Lucas, S. K.; et al. (Not in MR)
- Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113
- Broadbridge, P. (with Rogers, Colin) Exact solutions for vertical drainage and redistribution in soils. 91c:76106
- Bruch, J. C. Jr. (with Comincioli, Valeriano) Moving boundary seepage problems solved using a fixed domain method. (see 91g:00044)
- Caltagirone, Jean-Paul see Barrière, Jean; et al. 91b:76095
- Carillo, Sandra see Guo, Ben Yu. 91k:76152
- Chadam, John M. (with Ortoleva, Peter J.) Reactive flows in porous media. 91k:76150
- (with Peirce, Anthony P.; Ortoleva, Peter J.) Stability of reactive flows in porous media: coupled porosity and viscosity changes. 91m:76114
- Chen, Y.-Y. see Wang, Ch'ing An; et al. 91c:76111
- Chernyavskii, A. P. The use of fundamental solutions of generalized axisymmetric equations for modeling problems in fluid mechanics. (Russian) 91g:76088
- Linear steady filtration in a vertically inhomogeneous stratum that occupies the lower half-space. 91g:76089
- Comincioli, Valeriano see Bruch, J. C., Jr. (91g:00044)
- Dinariev, O. Yu. (with Nikolaev, O. V.) Generalization of the Darcy law for unsteady filtration regimes. 91h:76077
- Domanski, A. V. Some properties of generalized solutions of one-dimensional problems of two-phase filtration. 91g:76090
- Dombrovskii, G. A. Integration of equations of plane steady nonlinear filtration. (Russian) 91h:76078
- Douglas, Jim, Jr. see Arbogast, Todd; et al. 91d:76074
- Eskkeeva, M. Zh. (with Khorsova, G. E.) Construction of initial data in regularized models of filtering a two-phase incompressible fluid. (Russian) 91h:76097
- Étiogof, P. I. Integrability of filtration problems with a moving boundary. 91k:76151
- Fabrie, Pierre (with Goyeau, Benoit; Langlais, Michel) Sur un modèle de déplacements non isothermes en milieux poreux. (English summary) [A nonisothermal displacement problem in a porous medium] 91f:76065
- Gailfudlinov, A. N. Variational properties of inverse boundary value problems of filtration in earth dams. (Russian) 91m:76115
- Gipouloux, Olivier see Barrière, Jean; et al. 91b:76095
- Goyeau, Benoit see Fabrie, Pierre; et al. 91f:76065
- Guo, Ben Yu (with Carillo, Sandra) Infiltration in soils with prescribed boundary concentration. 91k:76152
- Hamdache, Kamel see Amirat, Youcef; et al. 91c:76105
- Hamdan, M. H. see Barron, R. M. 91b:76096
- He, S. see Auriault, J.-L.; et al. 91k:76148
- Hilhorst, D. see Hong, J. R. Chan. (91g:00043)
- Hong, J. R. Chan (with Hilhorst, D.) The interface between fresh and salt groundwater. (see 91g:00043)
- Hornung, Ulrich Free and moving boundary problems arising in porous media flow and transport (rapporteur's report). (see 91g:00043)
- see also Arbogast, Todd; et al. 91d:76074
- Hwang, T.-W. see Wang, Ch'ing An; et al. 91c:76111
- Ilnskii, N. B. (with Kasimov, A. R.) Solution of isoperimetric problems in filtration theory by the method of inverse boundary value problems. (Russian) (Not in MR)
- Kanevskaya, R. D. see Bedrikovetskii, P. G.; et al. 91k:76149
- Kasimov, A. R. see Ilnskii, N. B. (Not in MR)
- Khorsova, G. E. see Eskkeeva, M. Zh. 91h:76097
- Khruslov, E. Ya. Averaged models of diffusion in fractured-porous media. 91h:76098
- Kopaev, A. V. (with Radygin, V. M.) Porous-medium flow theorems for circles. 91g:76091
- Korner, G. K. Extremal estimates in the theory of freezing of filtering soils. 91b:76099
- Kucera, Adam see Lucas, S. K.; et al. (Not in MR)
- Langlais, Michel see Fabrie, Pierre; et al. 91f:76065
- Levitin, E. I. see Vinarskii, G. A. 91c:76110
- Lévy, Thérèse Écoulement dans un milieu poreux avec fissures unidirectionnelles. (English summary) [Fluid flow in a porous medium with unidirectional fissures] 91h:76100
- Filtration in a porous fissured rock: influence of the fissures connectivity. 91m:76116
- Liu, Ying Zhong see Tang, Ling. 91m:76118
- Lucas, S. K. (with Blake, J. R.; Kucera, Adam) A boundary-integral method applied to

76S05 Flows in porous media; filtration; seepage

- Aganović, Ibrahim (with Mikelic, Andro) On miscible flow in a porous medium. 91h:76033
- Aguiar, Gloria A mathematical transport model of salt dissolved in water in farmland. (Spanish. English summary) 91f:76051

- water coning in oil reservoirs. (Not in MR)
- Lar's, M. V. *see* Bedrikovetskii, P. G.; et al., 91k:76149
- Mel, C. C. (with Auriault, J.-L.) The effect of weak inertia on flow through a porous medium. 91m:76117
- Mikelic, Andre (with Tutek, Z.) Identification of mobilities for the Buckley-Leverett equation. 91g:76092
- *see also* Aganovic, Ibrahim, 91k:76033
- Muchinski, Kiyoshi (with Suzuki, Ryuichi) One-dimensional two-phase porous flow equations. 91c:76107
- Mukhlinov, N. Solution of a filtration problem in a three-layered stratum with special boundary conditions. (Russian) 91c:76108
- Néel, Marie-Christine Convection naturelle dans une couche poreuse horizontale d'extension infinie: chauffage inhomogène. (English summary) [Natural convection in a horizontal porous layer of infinite extent: inhomogeneous heating] 91k:76034
- Nikolaev, O. V. *see* Dinariev, O. Yu., 91k:76077
- Oestreich, Dieter Singular integral equations applied to free surface seepage from nonlinear channels. 91c:76106
- Ortoleva, Peter J. *see* Chadam, John M., 91k:76150 and 91m:76114
- Pascal, H. (with Pascal, J. P.) Nonlinear effects of non-Newtonian fluids on natural convection in a porous medium. 91a:76082
- Some self-similar two-phase flows of non-Newtonian fluids through a porous medium. 91k:76101
- Pascal, J. P. *see* Pascal, H., 91a:76082
- Pelce, Anthony P. *see* Chadam, John M.; et al., 91m:76114
- Pirazzola, T. E. Numerical modeling of two-phase filtration of immiscible fluids taking capillary forces into account. (Russian) 91c:76107
- Poliferevskii, Dan Homogenization of thermal flows: the influence of Grashof and Prandtl numbers. 91d:76075
- Radygin, V. M. *see* Kopaev, A. V., 91g:76091
- Rogers, Colin *see* Broadbridge, P., 91c:76106
- Rostovskii, N. S. (with Selyakov, V. I.) Effect of the microinhomogeneity of the medium on the flow law in porous media. 91c:76108
- Rubinstein, Jacob (with Torquato, Sal) Bounds on various electrostatic and hydrodynamic capacities. (see 91b:00052)
- (with Torquato, Sal) Flow in random porous media: mathematical formulation, variational principles, and rigorous bounds. 91c:76109
- Rusa, D. D. Some fundamental solutions in filtration theory. 91g:76093
- Selyakov, V. I. *see* Rostovskii, N. S., 91c:76108
- Srinani, P. K. Marangoni porous convection in a cylindrical geometry. I. Surface tension effects dominant. 91f:76052
- (with Anamika, B. M.) Marangoni porous convection in a cylindrical geometry. II. Buoyancy effects dominant. 91f:76053
- Strazelski, T. *see* Auriault, J.-L.; et al., 91k:76148
- Su, Ning Mathematical problems on the fluid-solute-heat flow through porous media. I. Unsaturated case. 91c:76109
- Mathematical problems on the fluid-solute-heat flow through porous media. II. Partially saturated case. 91c:76110
- Suzuki, Ryuichi *see* Muchinski, Kiyoshi, 91c:76107
- Tang, Ling (with Liu, Ying Zhong) Evolution of slowly modulated wave train on porous sea bed. 91m:76118
- Torquato, Sal *see* Rubinstein, Jacob, 91c:76109 and (91b:00052)
- Tsitsikishvili, A. R. Further development of the Polubarinova-Kochina method and its applications. (Russian) 91f:76066
- A new approach to solving a class of plane problems in filtration theory. (Russian. English and Georgian summaries) 91m:76119
- Tutek, Z. *see* Mikelic, Andre, 91g:76092
- Valeeva, R. T. *see* Zinov'ev, N. P., (91b:00036)
- Vernescu, Bogdan Viscelastic behavior of a porous medium with deformable skeleton. (Romanian. English summary) 91k:76035
- Virnovskii, G. A. (with Levitan, E. I.) On the identification of a two-dimensional model of the flow of a homogeneous fluid in a porous medium. (Russian) 91c:76110
- Wang, Ch'ing An (with Hwang, T.-W.; Chen, Y.-Y.) Existence of solutions for Berman's equation from laminar flows in a porous channel with suction. 91c:76111
- Ziaei, Abdelhamid *see* Amirat, Youcef; et al., 91c:76105
- Zinov'ev, N. P. (with Valeeva, R. T.) Qualitative investigation of the process of filtration of an incompressible fluid in inhomogeneous strata. (Russian) (see 91b:00036)
- On the determination of the stream function in nonhomogeneous petroleum beds. (Russian) 91m:76120
- Items with secondary classifications in 76S05**
- Allaire, Grégoire Homogenization of the Stokes flow in a connected porous medium. 91a:35134
- Prolongement de la pression et homogénéisation des équations de Stokes dans un milieu poreux connexe. (English summary) [Pressure extension and homogenization of Stokes equations in a connected porous medium] 91c:76041
- Homogénéisation des équations de Stokes dans un domaine perforé de petits trous répartis périodiquement. (English summary) [Homogenization of Stokes equations in open sets perforated with periodically distributed tiny holes] 91c:76042
- Homogenization of the Navier-Stokes equations in open sets perforated with tiny holes. I. Abstract framework, a volume distribution of holes. 91k:35031a
- Homogenization of the Navier-Stokes equations in open sets perforated with tiny holes. II. Noncritical sizes of the holes for a volume distribution and a surface distribution of holes. 91k:35031b
- Álvarez Leda, Luis (with Díaz Díaz, Jesús Ildefonso; Kersner, Robert) On the initial behaviour of interfaces in nonlinear diffusion-convection processes. (see 91g:00044)
- (with Díaz Díaz, Jesús Ildefonso) Sufficient and necessary initial mass conditions for the existence of a waiting time in nonlinear-convection processes. 91m:35113
- Antontsev, S. N. (with Kashevarov, A. A.; Semenko, T. L.) An iterative method for solving a stationary problem on saturated-unsaturated filtration in a hydraulic approximation. (Russian) 91k:76126
- (with Kazhikhov, A. V.; Monakhov, V. N.) ★ Boundary value problems in mechanics of nonhomogeneous fluids. 91d:76018
- Localization of solutions for degenerate equations in continuum mechanics. 91k:35259
- Asanov, A. R. (with Mamayusupov, O. Sh.) An inverse problem for an equation of the convective diffusion of salts in porous media. (Russian) 91k:76147
- Auriault, J.-L. *see* Boutin, C., 91k:73059
- Avellaneda, Marco *see* Lipton, Robert, 91c:76050
- Azevedo, A. V. (with Marchesin, Dan) Multiple viscous profile Riemann solutions in mixed elliptic-hyperbolic models for flow in porous media. 91f:35183
- Badriev, I. B. (with Pankratova, O. V.) A mixed finite-element method for nonlinear stationary problems of filtration theory. (Russian) 91k:76104
- Bai, Dong Hua (with Yun, Jie) The filtration problem of gas in a porous medium with double porosity. (Chinese. English summary) 91c:35076
- Bermúdez de Castro, Alfredo (with Durany, J.) Solving some free boundary problems by a method of characteristics. (see 91g:00044)
- Bertsch, M. (with Dal Passo, R.) A numerical treatment of a superdegenerate equation with applications to the porous media equation. 91d:65130
- Beskos, D. E. *see* Manolis, G. D., 91c:73037
- Bhattachal, O. P. (with Vijayakumar, K.) On the isogroups of the generalised diffusion equation. 91c:58146
- Biller, Piotr Blow up in the porous media equation. 91f:35049
- Blowup in nonlinear parabolic equations. 91a:35011
- Boutin, C. (with Auriault, J.-L.) Dynamic behaviour of porous media saturated by a viscoelastic fluid. Application to bituminous concretes. 91k:73059
- Brenner, H. *see* Dungan, Stephanie R.; et al., 91d:76076
- Caffarelli, Luis A. (with Wolanski, Noemi L.) $C^{1,\alpha}$ regularity of the free boundary for the N -dimensional porous media equation. 91h:35332
- Chen, Zhong Xiang *see* Jiang, Li Shang, (91g:00044)
- Coll, Pierluigi (with Rodrigues, José-Francisco) A perturbation problem related to the highly compressible behaviour of a fluid in a thin porous layer. 91a:35081
- Collins, Ian F. *see* Pullian, A. J., (91f:00015)
- Corberó, Jaime *see* Santos, Juan E.; et al., 91k:73039
- Cortázar, Carmen (with Elgueta, Manuel) Localization of solutions of porous-medium equations. (Spanish) (see 91k:35006)
- Dahle, Helge K. (with Espedal, Magne S.; Ewing, Richard E.; Sevareid, Ove) Characteristic adaptive subdomain methods for reservoir flow problems. 91k:76127
- Dal Passo, R. A numerical study of interface problem for the porous media equation via superdegenerate equation. (see 91g:00044)
- *see also* Bertsch, M., 91d:65130
- Dandapat, B. S. Finite amplitude convection in a rotating porous medium. 91c:76054
- Dawson, Clint N. (with Russell, T. F.; Wheeler, Mary F.) Some improved error estimates for the modified method of characteristics. 91a:65229
- Godunov-mixed methods for immiscible displacement. 91g:76070
- Díaz Díaz, Jesús Ildefonso *see* Álvarez Leda, Luis, 91m:35113 and (91g:00044)
- Dietrich, C. R. (with Newsam, G. N.) Sufficient conditions for identifying transmissivity in a confined aquifer. 91b:86002
- Douglas, Jim, Jr. *see* Santos, Juan E.; et al., 91k:73039
- van Duin, C. J. (with Knabner, Peter) Solute transport through porous media with slow adsorption. 91k:35255
- (with de Graaf, J. M.) Large time behaviour of solutions of the porous media equation with convection. 91k:35112
- Dungan, Stephanie R. (with Shapiro, Michael; Brenner, H.) Convective-diffusive-reactive Taylor dispersion processes in particulate multiphase systems. 91d:76076
- Durany, J. *see* Bermúdez de Castro, Alfredo, (91g:00044)
- Eden, Alp (with Michaux, B.; Rakotoson, Jean-Michel) Doubly nonlinear parabolic-type equations as dynamical systems. 91m:35118
- Edisonov, I. *see* Petrov, V. G., (Not in MR)
- Egorov, A. G. Damping of elastic waves in thin-layered saturated porous media. 91c:73030
- Ehlers, W. On thermodynamics of elasto-plastic porous media. (Russian and Polish summaries) 91f:73009
- Eldus, D. The Cauchy problem for the nonlinear filtration equation in an inhomogeneous medium. 91d:35172
- Elgueta, Manuel *see* Cortázar, Carmen, (91k:35006)
- Espedal, Magne S. *see* Dahle, Helge K.; et al., 91k:76127
- Ewing, Richard E. Computational methods for nonlinear systems of partial differential equations arising in contaminant transport in porous media. (see 91c:65005)
- *see also* Dahle, Helge K.; et al., 91k:76127
- Fabrie, Pierre Attracteurs pour deux modèles de convection naturelle en milieux poreux. (English summary) [Attractors for two models of natural convection in porous media] 91k:35206
- Frémond, Michel (with Nicolas, Pierre) Macroscopic thermodynamics of porous media. 91b:80003
- Gagneux, Gérard (with Lefevre, A.-M.; Madaune-Tort, Monique) An implicit time-stepping scheme for polyphasic flows in porous media including coupled quasi-linear inequalities. 91c:76112
- (with Guerfi, F.) Approximations de la fonction de Heaviside et résultats d'unicité pour une classe de problèmes quasiliéaires elliptiques-paraboliques. (English summary) [Approximations of the Heaviside function and uniqueness results for a class of quasilinear elliptic-parabolic problems] 91f:35184
- Gilardi, Gianal Filtration problems in unbounded domains. (see 91g:00043)
- Gledici, Mauro Identifiability of distributed physical parameters in diffusive-like systems. 91m:35238
- Glazyrina, L. L. (with Pavlova, M. F.) Numerical solution of a nonstationary problem of the simultaneous motion of ground and surface waters. (Russian) (Not in MR)
- Glimm, James (with Lindquist, W. Brent; Zhang, Qiang) Front tracking, oil reservoirs, engineering scale problems and mass conservation. 91k:76128
- Goldshik, M. A. (with Yavorskii, N. I.) A rotating disk on an air cushion. 91k:76044
- Gonczewicz, J. Porous medium-type equations with irregular boundary data. 91k:35139
- de Graaf, J. M. *see* van Duin, C. J., 91k:35112
- Guerfi, F. *see* Gagneux, Gérard, 91f:35184

- Gurevich, B. Ya. *see* Sadovnichaya, A. P.; et al., 91c:73030
- Hickernell, F. J. *see* Yortos, Y. C., 91a:76085
- Hill, Desmond L. *see* Hill, James M., 91m:35210
- Hill, James M. (with Hill, Desmond L.) High-order nonlinear evolution equations. 91m:35210
- Holden, Helge (with Holden, Lars) On the Riemann problem for a prototype of a mixed type conservation law. II. 91h:35204
- (with Holden, Lars; Risebro, N. H.) Some qualitative properties of 2×2 systems of conservation laws of mixed type. 91f:35166
- Holden, Lars On the strict hyperbolicity of the Buckley-Leverett equations for three-phase flow in a porous medium. 91c:35098
- *see also* Holden, Helge; et al., 91f:35166 and 91h:35204
- Hornung, Ulrich (with Showalter, Ralph E.) Diffusion models for fractured media. 91d:76072
- Howison, S. D. *see* Lacey, Andrew A.; et al., 91j:76027
- Huang, Zhi Da A filtration problem with surface evaporation. (Italian summary) 91h:35109
- Impey, M. D. (with Riley, D. S.; Winters, K. H.) The effect of sidewall imperfections of pattern formation in Lapwood convection. 91e:76105
- Inoue, Masaki Construction of diffusion processes associated with a porous medium equation. 91a:60198
- Janno, Jaan On the uniqueness of the solution of an inverse problem of the reconstruction of the filtration coefficient that is constant with respect to one variable. (Russian. English and Estonian summaries) 91m:35241
- Jiang, Li Shang (with Chen, Zhong Xiang) Weak formulation of a multidimensional Muskat problem. *see* 91g:00044
- (with Liang, Jin) The perturbation of the interface of the two-dimensional diffraction problem and an approximating Muskat model. 91f:35274
- Johansen, Thorodd (with Tveito, Aslak; Winther, Ragnar) A Riemann solver for a two-phase multicomponent process. 91f:76082
- Kaliev, I. A. (with Mukhambetzhano, S. T.; Razinkov, E. N.) Well-posedness of a mathematical model of nonequilibrium phase transitions of water in porous media. (Russian) 91k:86011
- Kamin, Shoshana (with Vázquez, Juan Luis) Asymptotic behaviour of solutions of the porous medium equation with changing sign. 91h:35152
- Karakin, A. V. Models of the fluid dynamics of the Earth's core with an inelastic skeleton. (Russian) 91d:86016
- Kashevarov, A. A. *see* Antontsev, S. N.; et al., 91k:76126
- Kawarada, Hideo (with Koshigoe, Hideyuki) Unsteady flow in porous media with a free surface. 91m:35246
- Kayumov, Sh. (with Sadykov, M. K.) A regularized difference scheme for solving boundary value problems of nonlinear filtration. (Russian) 91f:76080
- Kazhikhov, A. V. *see* Antontsev, S. N.; et al., 91d:76018
- Keady, G. The Dupuit approximation for the rectangular dam problem. 91f:35275
- Kenmochi, Nobuyuki (with Kubo, Masahiro) Periodic behaviour of solutions to a parabolic-elliptic problem. 91d:35020
- Kersner, Robert *see* Álvarez León, Luis; et al., (91g:00044)
- Khrushin, M. Kh. Application of the regularization method to determining the parameters of stratified layers. 91f:86001
- Knabner, Peter *see* van Duin, C. J., 91k:35255
- Koshigoe, Hideyuki *see* Kawarada, Hideo, 91m:35246
- Kubo, Masahiro *see* Kenmochi, Nobuyuki, 91d:35020
- Kuzovator, I. A. Existence of a classical solution to steady-state flow problem. (Russian) 91k:35204
- Lacey, Andrew A. (with Howison, S. D.; Ockendon, J. R.; Wilmott, P.) Irregular morphologies in unstable Hele-Shaw free-boundary problems. 91f:76027
- Langtangen, Hans Petter Implicit finite element methods for two-phase flow in oil reservoirs. (Not in MR)
- Lefevre, A.-M. *see* Gagneux, Gérard; et al., 91c:76112
- Liang, Jin *see* Jiang, Li Shang, 91f:35274
- Lindqvist, W. Brent *see* Glimm, James; et al., 91k:76128
- Lipton, Robert (with Avellaneda, Marco) Darcy's law for slow viscous flow past a stationary array of bubbles. 91e:76050
- Liu, Xi Yuan¹ On the Fréchet differentiability of free boundary operator for a Muskat type problem. 91d:35243
- Lopatnikov, S. L. *see* Vinogradova, O. S., 91d:76078 and Sadovnichaya, A. P.; et al., 91e:73030
- Lovera, Oscar M. *see* Santos, Juan E.; et al., 91h:73039
- Madame-Tort, Monique *see* Gagneux, Gérard; et al., 91c:76112
- Mamayusupov, O. Sh. *see* Ananov, A. R., 91k:76147
- Manolis, G. D. (with Beskos, D. E.) Boundary integral equation formulation for dynamic poroelasticity. 91c:73037
- Marcati, Pierangelo (with Milani, Albert J.) The one-dimensional Darcy's law as the limit of a compressible Euler flow. 91i:35156
- Marchesin, Dan *see* Azevedo, A. V., 91f:35183
- Michaux, B. *see* Eden, Alp; et al., 91m:35118
- Mikelić, Andro A convergence theorem for homogenization of two-phase miscible flow through fractured reservoirs with uniform fracture distributions. 91a:35023
- Milani, Albert J. Long time existence and singular perturbation results for quasilinear hyperbolic equations with small parameter and dissipation term. III. 91m:35050
- *see also* Marcati, Pierangelo, 91i:35156
- Monakhov, V. N. Filtration of fluid with free boundary in nonideal porous media. 91k:35258
- *see also* Antontsev, S. N.; et al., 91d:76018
- Monson, P. A. The properties of inhomogeneous square-well mixtures in one dimension. 91m:82076
- Mukhambetzhano, S. T. *see* Kaliev, I. A.; et al., 91k:86011
- Nandakumar, K. *see* Weinitschke, Hubertus J.; et al., 91d:76038
- Newsam, G. N. *see* Dietrich, C. R., 91b:86002
- Nicolas, Pierre *see* Frémond, Michel, 91b:80003
- Ockendon, J. R. *see* Lacey, Andrew A.; et al., 91j:76027
- Oelschläger, Karl Large systems of interacting particles and the porous medium equation. 91m:82129
- Öziz, Turgut On the existence and uniqueness of a weak solution of a nonsteady transient free-boundary problem in porous media. 91k:35259
- Pankratova, O. V. *see* Badriev, I. B., 91k:76104
- Papatzacos, Paul Cellular automaton model for fluid flow in porous media. (Not in MR)
- Pavlova, M. F. *see* Glazyrina, L. L., (Not in MR)
- Peletier, Lambertus A. (with Zhao, Jun Ning) Source-type solutions of the porous media equation with absorption: the fast diffusion case. 91k:35140
- Petrov, V. G. (with Edissonov, L.) Nonlinear dynamic model with concentrated parameters of flow rate and pressure in an elastic porous reservoir of the type of aorta. (Not in MR)
- Pallan, A. J. (with Collins, Ian F.) Boundary element analysis of quasilinear infiltration. *see* 91f:00015
- Rakotonon, Jean-Michel *see* Eden, Alp; et al., 91m:35118
- Ravi Sankar, S. *see* Weinitschke, Hubertus J.; et al., 91d:76038
- Razinkov, E. N. *see* Kaliev, I. A.; et al., 91k:86011
- Rees, D. A. S. (with Riley, D. S.) The three-dimensional stability of finite-amplitude convection in a layered porous medium heated from below. 91a:76040
- The effect of long-wavelength thermal modulations on the onset of convection in an infinite porous layer heated from below. 91h:76058
- Riley, D. S. (with Winters, K. H.) A numerical bifurcation study of natural convection in a tilted two-dimensional porous cavity. 91d:76037
- (with Winters, K. H.) Time-periodic convection in porous media: the evolution of Hopf bifurcations with aspect ratio. 91k:76059
- *see also* Rees, D. A. S., 91a:76040 and Impey, M. D.; et al., 91e:76105
- Rionero, Salvatore (with Straughan, Brian) Convection in a porous medium with internal heat source and variable gravity effects. 91h:76059
- Risebro, N. H. *see* Holden, Helge; et al., 91f:35166
- Rodríguez, José-Francisco *see* Collí, Pierluigi, 91a:35081
- Rodríguez, Ana (with Vázquez, Juan Luis) A well-posed problem in singular Fickian diffusion. 91g:35139
- Russell, T. F. *see* Dawson, Clint N.; et al., 91a:65229
- Sadovnichaya, A. P. (with Gurevich, B. Ya.; Lopatnikov, S. L.; Shapiro, S. A.) Integral representations of wave fields in piecewise-homogeneous porous media. (Russian) 91e:73030
- Sadykov, M. K. *see* Kayumov, Sh., 91e:76080
- Sarverid, Ove *see* Dahle, Helge K.; et al., 91k:76127
- Santos, Juan E. (with Douglas, Jim, Jr.; Corberó, Jaime; Lovera, Oscar M.) A model for wave propagation in a porous medium saturated by a two-phase fluid. 91h:73039
- Semenko, T. I. *see* Antontsev, S. N.; et al., 91k:76126
- Shapiro, Michael *see* Dungan, Stephanie R.; et al., 91d:76076
- Shapiro, S. A. *see* Sadovnichaya, A. P.; et al., 91e:73030
- Sharma, K. C. *see* Sharma, R. C., 91b:76060
- Sharma, R. C. (with Sharma, K. C.) Thermal instability of compressible fluids with Hall currents in porous medium. 91h:76060
- Shi, De Ming The initial-boundary value problem for a nonlinear equation of migration of moisture in soil. (Chinese. English summary) 91c:35124
- Showalter, Ralph E. (with Walkington, Noel J.) A diffusion system for fluid in fractured media. 91c:35081
- *see also* Hornung, Ulrich, 91d:76072
- Straughan, Brian *see* Rionero, Salvatore, 91h:76059
- Tsiferman, N. M. *see* Zhiber, A. V., 91d:80009
- Tveito, Aslak Convergence and stability of the Lax-Friedrichs scheme for a nonlinear parabolic polymer flooding problem. 91f:65152
- *see also* Johansen, Thorodd; et al., 91h:76082
- Vázquez, Juan Luis Two nonlinear diffusion equations with finite speed of propagation. 91h:35156
- *see also* Rodríguez, Ana, 91g:35139 and Kamin, Shoshana, 91h:35152
- Vijayakumar, K. *see* Bhutani, O. P., 91c:58146
- Vinogradova, O. S. (with Lopatnikov, S. L.) Added mass in equations of motion of multiphase media. (Russian) 91d:76078
- Walkington, Noel J. *see* Showalter, Ralph E., 91c:35081
- Weinitschke, Hubertus J. (with Nandakumar, K.; Ravi Sankar, S.) A bifurcation study of convective heat transfer in porous media. 91d:76038
- Wheeler, Mary F. *see* Dawson, Clint N.; et al., 91a:65229
- Wilmott, P. *see* Lacey, Andrew A.; et al., 91j:76027
- Winters, K. H. *see* Riley, D. S., 91d:76037; Impey, M. D.; et al., 91e:76105 and Riley, D. S., 91k:76059
- Winther, Ragnar *see* Johansen, Thorodd; et al., 91h:76082
- Wolanski, Noemi I. *see* Caffarelli, Luis A., 91k:35332
- Xiao, Shu Tie Diffusion and absorption in infiltration processes. 91j:35292
- Yang, Dao Qi Mixed methods with dynamic finite-element spaces for miscible displacement in porous media. 91k:76114
- Yavorskii, N. I. *see* Gol'dshtik, M. A., 91h:76044
- Yin, Hong Ming A free boundary problem arising from the moisture evaporation in a partially saturated porous medium. 91k:35262
- Yortos, Y. C. (with Hickernell, F. J.) Linear stability of immiscible displacement in porous media. 91a:76085
- Yun, Jie *see* Bai, Dong Hua, 91c:35076
- Zhang, Qiang *see* Glimm, James; et al., 91k:76128
- Zhao, Jun Ning *see* Peletier, Lambertus A., 91k:35140
- Zhiber, A. V. (with Tsiferman, N. M.) Exact solutions of the problem of adsorption-desorption dynamics with a nonlinear sorption isotherm. 91d:80009

76T05 Two-phase and multiphase flows

- Acrivos, A. (with Jeffrey, D. J.; Saville, D. A.) Particle migration in suspensions by thermocapillary or electrophoretic motion. 91h:76102
- *see also* Nir, A., 91a:76083

- Arnold, Gary S. *see* Drew, Donald A.; et al., 91f:76054
- Bobkov, N. N. (with Gupalo, Yu. P.) A model of a nonhomogeneous fluidized layer with exchange of particles between the nonhomogeneity and the layer. (Russian) (Not in MR)
- Brenner, H. *see* Dungan, Stephanie R.; et al., 91d:76076
- Debnath, Lokenath *see* Ghosh, A. K.; et al., 91g:76094
- Drew, Donald A. (with Arnold, Gary S.; Lahey, Richard T., Jr.) Relation of microstructure to constitutive equations. 91f:76054
- Evolution of geometric statistics. 91h:76079
- Dungan, Stephanie R. (with Shapiro, Michael; Brenner, H.) Convective-diffusive-reactive Taylor dispersion processes in particulate multiphase systems. 91d:76076
- Felderhof, B. Ubbo Dynamics of hard sphere suspensions. 91j:76067
- Virtual mass and drag in two-phase flow. 91m:76121
- Fesoul, L. *see* Larroustous, Bernard, 91c:76113
- Fletcher, D. F. *see* Thyagaraja, A., 91c:76117
- Gagneux, Gérard (with Lefevre, A.-M.; Madaune-Tort, Monique) An implicit time-stepping scheme for polyphasic flows in porous media including coupled quasi-linear inequalities. 91c:76112
- Ghosh, A. K. (with Khan, A. R.; Debnath, Lokenath) On a pulsatile flow of a two-phase viscous fluid in a tube of elliptic cross-section. 91g:76094
- Gupalo, Yu. P. *see* Bobkov, N. N., (Not in MR)
- Hickernell, F. J. *see* Yortsos, Y. C., 91a:76085
- Hsieh, D. Y. On dynamics of bubbly liquids. 91g:76095
- Jeffrey, D. J. *see* Acrivos, A.; et al., 91h:76102
- Joseph, Daniel D. *see* Singh, Pushpendra, 91j:76069
- Keller, Joseph B. *see* Rubinstein, Jacob, 91c:76114 and 91c:76115
- Khan, A. R. *see* Ghosh, A. K.; et al., 91g:76094
- Kosiński, W. (with Romano, Antonio) Evolution balance laws in two-phase problems. (Russian and Polish summaries) 91m:76122
- Lahey, Richard T., Jr. *see* Drew, Donald A.; et al., 91f:76054
- Larroustous, Bernard (with Fesoul, L.) On the equations of multi-component perfect or real gas inviscid flow. 91c:76113
- Lefevre, A.-M. *see* Gagneux, Gérard; et al., 91c:76112
- Lopatnikov, S. L. *see* Vinogradova, O. S., 91d:76078
- Madaune-Tort, Monique *see* Gagneux, Gérard; et al., 91c:76112
- Miller, F. A. The Cahn-Hilliard equation of phase separation: the case of near constant mobility. (see 91h:90050)
- Nakoryakov, V. E. (with Pokusaev, B. G.; Shreiber, I. R.) * ВОЛНОВАЯ ДИНАМИКА ГАЗО-ПАРОВОЖИДКОСТНЫХ СРЕД. (Russian) [Wave dynamics of gas-and steam-liquid media] 91g:76096
- Nir, A. (with Acrivos, A.) Sedimentation and sediment flow on inclined surfaces. 91a:76083
- Oliveri, F. Nonlinear wave propagation in a nondiffusive model of bubbly liquids. 91j:76068
- Pandey, Kantil (with Saxena, Meenu) Growth and decay of sonic-waves in two-phase flows. (Not in MR)
- Papanicolaou, George (with Zhu, Jingyi) A vortex method for fluid-particle systems. 91g:76097
- Pokusaev, B. G. *see* Nakoryakov, V. E.; et al., 91g:76096
- Prosperetti, Andrea (with Satrape, James V.) Stability of two-phase flow models. 91f:76055
- Parushotham, G. (with Sumithra, G. V.) Studies on viscous dusty compressible fluid flows. (Not in MR)
- Romano, Antonio *see* Kosiński, W., 91m:76122
- Rubinstein, Jacob (with Keller, Joseph B.) Sedimentation of a dilute suspension. 91c:76114
- (with Keller, Joseph B.) Particle distribution functions in suspensions. 91c:76115
- Evolution equations for stratified dilute suspensions. 91c:76116
- Satrape, James V. *see* Prosperetti, Andrea, 91f:76055
- Saville, D. A. *see* Acrivos, A.; et al., 91h:76102
- Saxena, Meenu *see* Pandey, Kantil, (Not in MR)
- Shapiro, Michael *see* Dungan, Stephanie R.; et al., 91d:76076
- Shreiber, I. R. *see* Nakoryakov, V. E.; et al., 91g:76096
- Singh, K. K. *see* Singh, Kanhi, 91a:76084
- Singh, Kanhi (with Singh, K. K.) Unsteady flow of a dusty visco-elastic liquid through a hexagonal channel. 91a:76084
- Singh, Pushpendra (with Joseph, Daniel D.) One-dimensional, particle bed models of fluidized suspensions. 91j:76069
- Smith, Ronald An easy-to-use formula for contaminant dispersion. 91d:76077
- Soo, S. L. * Particulates and continuum. 91h:76103
- Sumithra, G. V. *see* Parushotham, G., (Not in MR)
- Thyagaraja, A. (with Fletcher, D. F.) The nonhyperbolicity of multiphase flow equations: a nonlinear nonproblem? 91c:76117
- Tsvetlovsk, O. Yu. An evolution equation on perturbations in a two-layer film flow. (Not in MR)
- Vinogradova, O. S. (with Lopatnikov, S. L.) Added mass in equations of motion of multiphase media. (Russian) 91d:76078
- Wallis, Graham B. On Geurst's equations for inertial coupling in two-phase flow. 91h:76080
- Yortsos, Y. C. (with Hickernell, F. J.) Linear stability of immiscible displacement in porous media. 91a:76085
- Zabolot'skaya, E. A. Nonlinear waves in a liquid with gas bubbles. (Russian. English summary) (see 91h:76029)
- Zhu, Jingyi *see* Papanicolaou, George, 91g:76097
- Items with secondary classifications in 76T05
- Acker, Andrew On the convexity and on the successive approximation of solutions in a free-boundary problem with two fluid phases. 91d:35235
- Agarwal, Ibrahim (with Mikelic, Andro) On miscible flow in a porous medium. 91h:76033
- Aguilar, Gloria A mathematical transport model of salt dissolved in water in farmland. (Spanish. English summary) 91f:76051
- Akhatov, I. Sh. Shear instability in stratified viscoelastic and gas-fluid media. 91a:76043
- Almgren, Frederick J., Jr. (with Gurtin, Morton E.) A mathematical contribution to Gibbs's analysis of fluid phases in equilibrium. 91h:76009
- Antontsev, S. N. (with Kazhikhov, A. V.; Monakhov, V. N.) * Boundary value problems in mechanics of nonhomogeneous fluids. 91d:76018
- Arbogast, Todd On the simulation of incompressible, miscible displacement in a naturally fractured petroleum reservoir. (French summary) 91d:76073
- Avellaneda, Marco *see* Lipton, Robert, 91c:76050
- Axelrad, D. R. Stochastic transport theory for porous media. 91g:76087
- Baer, Melvin R. *see* Embid, Pedro F., 91k:80007
- Barron, R. M. (with Hamdan, M. H.) The steady motion of an incompressible dusty gas in porous media. 91h:76096
- Bazhlekova, I. B. (with Shopov, Petr I.) Mathematical and numerical modelling of hydrodynamic problems with dynamic contact lines. 91h:76046
- Bedrikovetskii, P. G. (with Kanevskaya, R. D.; Lur'e, M. V.) Self-similar solutions of problems of two-phase flow through porous media with allowance for the compressibility of one of the phases. 91h:76149
- Bustos, Maria Cristina (with Paiva, Freddy; Wendland, Wolfgang L.) Control of continuous sedimentation of ideal suspensions as an initial and boundary value problem. 91h:35199
- (with Concha, Fernando; Wendland, Wolfgang L.) Global weak solutions to the problem of continuous sedimentation of an ideal suspension. 91j:35168
- Caginalp, G. (with Jones, James) A derivation of a phase field model with fluid properties. (Not in MR)
- Calmelet-Eluho, Colette (with Crooke, Philip) Continuous dependence on data for solutions of a conducting dusty gas model backwards in time. 91c:76113
- Casal, Pierre (with Gouin, Henri) Invariance properties of inviscid fluids of grade n . 91h:76004
- Chen, Hudong (with Chen, Shi Yi; Doolen, Gary D.; Matthaeus, W. H.) Lattice-gas models for multiphase flows and magnetohydrodynamics. (see 91m:80034)
- Chen, Shi Yi *see* Chen, Hudong; et al., (91m:80034)
- Concha, Fernando *see* Bustos, Maria Cristina; et al., 91j:35168
- Corberó, Jaime *see* Santos, Juan E.; et al., 91h:73039
- Crooke, Philip *see* Calmelet-Eluho, Colette, 91c:76113
- Descloux, Jean (with Frosio, R.; Flück, M.) A two fluids stationary free boundary problem. 91c:76030
- Domanski, A. V. Some properties of generalized solutions of one-dimensional problems of two-phase filtration. 91g:76090
- Doolen, Gary D. *see* Chen, Hudong; et al., (91m:80034)
- Douglas, Jim, Jr. *see* Santos, Juan E.; et al., 91h:73039
- van Duin, C. J. (with Zhang, Hong Fei) Properties of weak solutions of a class of doubly degenerate diffusion equations. 91j:35148
- Embid, Pedro F. (with Baer, Melvin R.) Modeling two-phase flow of reactive granular materials. 91h:80007
- Eskseva, M. Zh. (with Khorsova, G. E.) Construction of initial data in regularized models of filtering a two-phase incompressible fluid. (Russian) 91h:76097
- Felderhof, B. Ubbo Hydrodynamic response of a sphere in a plane-wave flow. 91h:76032
- Flück, M. *see* Descloux, Jean; et al., 91c:76030
- Frosio, R. *see* Descloux, Jean; et al., 91c:76030
- Ghiardi, Paolo (with Menduni, Giovanni) On the unsteady flow of a supercritical current in a natural bed. (Italian. English summary) (Not in MR)
- Glimm, James (with Sharp, David H.) Chaotic mixing as a renormalization-group fixed point. 91a:76052
- (with Li, Xiao Lin; Menikoff, Ralph; Sharp, David H.; Zhang, Qiang) The growth and interaction of bubbles in Rayleigh-Taylor unstable interfaces. 91h:76054
- (with Lindquist, W. Brent; Zhang, Qiang) Front tracking, oil reservoirs, engineering scale problems and mass conservation. 91h:76128
- Gouin, Henri *see* Casal, Pierre, 91h:76004
- Gurtin, Morton E. On diffusion in two-phase systems: the sharp interface versus the transition layer. 91h:80002
- *see also* Almgren, Frederick J., Jr., 91h:76009
- Hamdan, M. H. *see* Barron, R. M., 91h:76096
- Holden, Helge (with Holden, Lars) On the Riemann problem for a prototype of a mixed type conservation law. II. 91h:35204
- (with Holden, Lars; Risebro, N. H.) Some qualitative properties of 2×2 systems of conservation laws of mixed type. 91f:35166
- Holden, Lars On the strict hyperbolicity of the Buckley-Leverett equations for three-phase flow. (see 91c:35004)
- On the strict hyperbolicity of the Buckley-Leverett equations for three-phase flow in a porous medium. 91c:35098
- *see also* Holden, Helge; et al., 91f:35166 and 91h:35204
- Hsieh, D. Y. Kelvin-Helmholtz stability and two-phase flow. 91c:76060
- Huppert, Herbert E. The fluid mechanics of solidification. 91a:80005
- Johansen, Thormod (with Tveito, Aslak; Winther, Ragnar) A Riemann solver for a two-phase multicomponent process. 91h:76082
- Jones, James *see* Caginalp, G., (Not in MR)
- Joseph, Daniel D. *see* Singh, Pushpendra, 91j:76069
- Kanevskaya, R. D. *see* Bedrikovetskii, P. G.; et al., 91h:76149
- Kazhikhov, A. V. *see* Antontsev, S. N.; et al., 91d:76018
- Khorsova, G. E. *see* Eskseva, M. Zh., 91h:76097
- Koch, Donald L. *see* Shaqfeh, Eric S. G., 91c:76015
- Langtangen, Haas Petter Implicit finite element methods for two-phase flow in oil reservoirs. (Not in MR)
- Li, Xiao Lin *see* Glimm, James; et al., 91h:76052
- Lindquist, W. Brent *see* Glimm, James; et al., 91h:76128
- Lipton, Robert (with Avellaneda, Marco) Darcy's law for slow viscous flow past a stationary array of bubbles. 91c:76050
- Lovera, Oscar M. *see* Santos, Juan E.; et al., 91h:73039
- Lakovskii, I. A. (with Timokha, A. N.) A variational formulation of a nonlinear boundary value problem with an unknown interface between two regions. (Russian) 91c:76009
- Lur'e, M. V. *see* Bedrikovetskii, P. G.; et al., 91h:76149

- Ma, Fai (with Wei, Mein Sieng) Monte Carlo simulation of linear two-phase flow in heterogeneous media. (Not in MR)
- Maldarelli, C. see Papageorgiou, D. T.; et al. 91h:76067
- Matthaeus, W. H. see Chen, Hsueh; et al. (91m:00034)
- Menduni, Giovanni see Ghilardi, Paolo. (Not in MR)
- Menikoff, Ralph see Glimm, James; et al. 91h:76054
- Mikelić, Andre A convergence theorem for homogenization of two-phase miscible flow through fractured reservoirs with uniform fracture distributions. 91a:35023
— see also Aganović, Ibrahim, 91h:76033
- Mochizuki, Kiyoshi (with Suzuki, Ryuichi) One-dimensional two-phase porous flow equations. 91h:76107
- Monakhov, V. N. see Antontsev, S. N.; et al. 91d:76018
- Oganyan, G. G. The effect of dissipation on the asymptotic picture of the propagation of linear waves in gas-liquid mixtures. (Russian. Armenian summary) 91h:76046
- Oguz, Hasan N. (with Prosperetti, Andrea) A generalization of the impulse and vorticity theorems with an application to bubble oscillations. 91f:76001
- Palva, Freddy see Bustos, Maria Cristina; et al. 91h:35199
- Papageorgiou, D. T. (with Maldarelli, C.; Rumschitzki, D. S.) Nonlinear interfacial stability of core-annular film flows. 91h:76067
- Pascal, H. Some self-similar two-phase flows of non-Newtonian fluids through a porous medium. 91h:76101
- (Pelcé, Pierre) see Dynamics of curved fronts, 91h:76002
- Pirnazarova, T. E. Numerical modeling of two-phase filtration of immiscible fluids taking capillary forces into account. (Russian) 91c:76107
- Prosperetti, Andrea The thermal behaviour of oscillating gas bubbles. 91h:76138
— see also Oguz, Hasan N., 91f:76001
- Risebro, N. H. see Holden, Helge; et al. 91h:35166
- Rumschitzki, D. S. see Papageorgiou, D. T.; et al. 91h:76067
- Santos, Juan E. (with Douglas, Jim, Jr.; Corbero, Jaime; Lovera, Oscar M.) A model for wave propagation in a porous medium saturated by a two-phase fluid. 91h:73039
(Schaeffer, David G.) see Two phase flows and waves, 91h:76008
- Shagfeh, Eric S. G. (with Koch, Donald L.) Orientational dispersion of fibers in extensional flows. 91h:76015
- Sharp, David H. see Glimm, James, 91h:76052 and 91h:76054
- Shaw, Bruce E. Universality in selection with local perturbations in the Saffman-Taylor problem. 91d:76026
- Shopov, Petr I. see Bazhlekova, I. B., 91h:76046
- Showalter, Ralph E. (with Walkington, Noel J.) A diffusion system for fluid in fractured media. 91c:35081
- Suzuki, Ryuichi see Mochizuki, Kiyoshi, 91h:76107
- Timokha, A. N. see Lukovskii, I. A., 91c:76009
- Tveit, Aslak Convergence and stability of the Lax-Friedrichs scheme for a nonlinear parabolic polymer flooding problem. 91f:65152
— see also Johansen, Thorodd; et al. 91h:76082
- Walkington, Noel J. see Showalter, Ralph E., 91c:35081
- Wei, Mein Sieng see Ma, Fai, (Not in MR)
- Wendland, Wolfgang L. see Bustos, Maria Cristina; et al. 91h:35199 and 91j:35168
- Winther, Ragnar see Johansen, Thorodd; et al. 91h:76082
- Zhang, Hong Fei see van Duin, C. J., 91j:35148
- Zhang, Qiang see Glimm, James; et al. 91h:76054 and 91h:76128

Items listed otherwise than by author

- Dynamics of curved fronts ★ Dynamics of curved fronts. 91h:76002
- Minneapolis, MN ★ Two phase flows and waves. 91h:76008
- Two phase flows and waves ★ Two phase flows and waves. 91h:76008
- Workshop: Two Phase Flows and Waves ★ Two phase flows and waves. 91h:76008

76U05 Rotating fluids

- Afanasyev, Ya. D. see Voropayev, S. I., (Not in MR)
- Basu, Manjuri see Debnath, Lokenath; et al. 91g:76098
- Buchwald, V. T. The scattering of Kelvin waves by a channel discontinuity. 91d:76079
- Debnath, Lokenath (with Guha, Uma B.; Basu, Manjuri) The Cauchy-Poisson waves in an inviscid rotating stratified liquid. 91g:76098
- Grimshaw, R. H. J. Resonant flow of a rotating fluid past an obstacle: the general case. 91j:76070
- Guha, Uma B. see Debnath, Lokenath; et al. 91g:76098
- van Heijst, G. J. F. (with Smith, S. H.) On asymmetry in Stewartson layers. 91d:76080
- Kondrat'ev, B. P. The possibility of planar homogeneous vortical motion in fluid configurations of nonellipsoid form. (Russian. English summary) 91h:76081
- Smith, S. H. The development of geostrophic flow within a split cylinder. 91m:76123
— see also van Heijst, G. J. F., 91d:76080
- Swaters, Gordon E. Propagation of two-dimensional solitary drift-vortices in a viscous rotating fluid or plasma. 91h:76104
- Tikilainen, A. A. On gyroscopic waves in media with transient flow and rotation. 91c:76118
- Voropayev, S. I. (with Afanasyev, Ya. D.) Self-similar solution for the flow induced by a source/sink in a viscous rotating fluid. (Not in MR)
- Wang, Taylor G. Equilibrium shapes of rotating spheroids and drop shape oscillations. (see 91h:76004)

Items with secondary classifications in 76U05

- Babarsky, Richard J. (with Wood, Houston G., III) Approximate eigensolutions for nonaxisymmetric rotating compressible flows. 91g:76071
- Becker, Anne The separated flow past a cylinder in a rotating frame. 91m:76038
- Berezin, Ya. A. (with Zhukov, V. P.) Effect of rotation on the convective stability of large-scale disturbances in a turbulent fluid. 91a:76048
- Boudouides, Moses A. The initial value problem for viscous incompressible free surface flow in a partially filled rotating cylinder. (see 91g:00044)

- Browning, G. (with Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. 91h:86002
- Dandapat, B. S. Finite amplitude convection in a rotating porous medium. 91h:76054
- Debnath, Lokenath see Rollins, David K., (Not in MR)
- De Gregorio, Salvatore Green's functions of a two-dimensional stationary flow of a rotating stratified fluid. (Not in MR)
- Dritschel, David G. Generalized helical Beltrami flows in hydrodynamics and magnetohydrodynamics. 91m:76043
- Dube, G. S. Effect of rotation in infinitely long journal bearing: a new fundamental solution. (Not in MR)
- Durst, F. see Razisiller, H.; et al., (Not in MR)
- Ermova, I. B. (with Rivkind, V. Ya.) Estimates for the rate of convergence of approximate methods for calculating the flows of a viscous incompressible fluid with a free surface in domains with corner points. 91j:76045
- Filippi, S. (with Ruffini, Remo; Sepulveda, A.) Generalized Riemann configurations and Dedekind's theorem: the case of nonlinear internal velocities. 91d:85002
- Fridman, A. M. Larichev-Reznik modons of the f -plane. (Russian) 91c:86005
- Ghil, M. see Sakuma, H., 91h:76063
- Glinshko, A. V. Multiplicity of roots of a symbol of a problem of the dynamics of a viscous compressible rotating fluid. (Russian) 91h:76087
- Grundland, A. M. (with Lavruk, B.) Classes of exact solutions for fluid-dynamics equations obtained by Riemann invariants method. 91h:76090
- Gryanik, V. M. (with Tevs, M. V.) Dynamics of singular geostrophic vortices in an N -layer model of the atmosphere (ocean). 91h:76032
- Guiaçu, I. see Razisiller, H.; et al., (Not in MR)
- Hart, J. E. On oscillatory flow over topography in a rotating fluid. 91h:76061
- Higgins, R. Wayne (with Shirer, Hampton N.) Transitions from Hadley to Rossby flows in internally forced rotating spherical systems. 91h:76055
- Hunter, John K. Numerical solutions of some nonlinear dispersive wave equations. (see 91c:65005)
- Johnson, E. R. The low-frequency scattering of Kelvin waves by stepped topography. 91h:76022
- Kapoulas, Nikolaos Slowly rotating drops. 91c:76024
- Khalt, Alexander see Paldor, Nathan, 91h:76050
- Kharik, V. M. (with Pletner, Yu. D.) The problem of gravity-gyroscopic waves, which are excited by the oscillations of a curve. 91h:76083
- (with Pletner, Yu. D.) The problem of gravity-gyroscopic waves, which are excited by the oscillations of a curve. 91h:76056
- Knightly, George H. (with Sather, D.) Bifurcation and stability problems in rotating plane Couette-Poiseuille flow. 91h:76033
- Knobloch, Edgar (with Silber, M.) Pattern selection in rotating convection. 91h:76030
- Kondrat'ev, K. Ya. (with Nikanorov, A. M.; Pantyukhin, Ya. V.; Zavoizhenskii, M. V.) Ekman drift and other currents in unbounded domains. (Not in MR)
- Kreiss, Heinz-Otto see Browning, G., 91h:86002
- Lavruk, B. see Grundland, A. M., 91h:76090
- Labov, Stephen H. On mass transport in nonviscous, non-self-gravitating fluid disks. 91h:85003
- Marcus, Philip S. Vortex dynamics in a shearing zonal flow. 91c:76026
- Moroz, Irene M. Multiple instabilities in rotating convection. 91g:76038
- Nikanorov, A. M. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Olevskii, V. A. Derivation of the Clairaut integro-differential equation by the Pizzetti method. (Russian. English summary) (Not in MR)
- Paldor, Nathan (with Khalt, Alexander) A note on the use of zero potential vorticity models. 91h:76050
- Pantyukhin, Ya. V. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Pletner, Yu. D. see Kharik, V. M., 91h:76083 and 91h:76056
- Povsachenko, G. P. A mathematical model of the plane flow of a fluid between rotating boundaries. (Russian) 91j:76028
- Razisiller, H. (with Guiaçu, I.; Durst, F.) Symbolic computation of flow in a rotating pipe. (Not in MR)
- Ren, Shu Zhan Nonlinear stability of triad-wave interaction. (Not in MR)
- Rivkind, V. Ya. see Ermova, I. B., 91j:76045
- Rochester, M. G. Normal modes of rotating self-gravitating compressible stratified fluid bodies: the subseismic wave equation. 91g:86008
- Rollins, David K. (with Debnath, Lokenath) The Cauchy-Poisson waves in an inviscid rotating stratified liquid. (Not in MR)
- Ruffini, Remo see Filippi, S.; et al., 91d:85002
- Sakuma, H. (with Ghil, M.) Stability of stationary barotropic modons by Lyapunov's direct method. 91h:76063
- Sather, D. see Knightly, George H., 91h:76033
- Saut, Jean-Claude Remarks on the damped stationary Euler equations. 91h:35256
- Sepulveda, A. see Filippi, S.; et al., 91d:85002
- Shepherd, Theodore G. A general method for finding extremal states of Hamiltonian dynamical systems, with applications to perfect fluids. 91g:58087
- Shershkov, V. V. see Tskvitidze, Z. I., 91m:86006
- Shirer, Hampton N. see Higgins, R. Wayne, 91h:76055
- Silber, M. see Knobloch, Edgar, 91h:76030
- Skiba, Ya. N. ★ Об однозначной разрешимости уравнения баротропного вихря вязкой жидкости в классах обобщенных функций на сфере. (Russian) [Unique solvability of the equation of a barotropic vortex of viscous fluid in classes of generalized functions on a sphere] 91h:76031
- Sokolov, I. V. Vorticity enhancement in convergent incompressible flows: nonself-similar solution of the Navier-Stokes equations. 91h:76026
- Tevs, M. V. see Gryanik, V. M., 91h:76032
- Tskvitidze, Z. I. (with Shershkov, V. V.) Application of asymptotic methods to nonadiabatic hydrodynamic models. 91m:86006
- Uspenskii, S. V. (with Vasil'eva, E. N.) Behavior at infinity of the solution of a problem in hydrodynamics. (Russian) 91m:76089
- Vasil'eva, E. N. see Uspenskii, S. V., 91m:76089
- Wood, Houston G., III see Babarsky, Richard J., 91g:76071

Zavolzhenskii, M. V. *see* Kondrat'ev, K. Yu.; et al. (Not in MR)
 Zhukov, V. P. *see* Berezin, Yu. A., 91a:76048

76V05 Stratified and reacting fluids

- Akulenko, L. D. (with Mikhailov, S. A.; Nesterov, S. V.) Oscillations of an oscillator near the interface of two fluids. 91d:76081
 Borovikov, V. A. (with Bulatov, V. V.; Vladimirov, Yu. V.; Levchenko, E. S.) Calculating the field of internal gravity waves generated by a fixed source a stratified fluid stream. 91d:76082
 Bulatov, V. V. *see* Borovikov, V. A.; et al., 91d:76082
 Debnath, Lokenath *see* Rollins, David K., (Not in MR)
 Gabor, S. A. (with Sundukova, A. V.) An initial-boundary value problem that arises in the dynamics of a compressible stratified fluid. (Russian) 91b:76105
 — (with Krutitskii, P. A.) Energy characteristics of nonstationary internal waves in a vertical channel with a stratified fluid. (Russian) 91b:76099
 Johnson, E. R. *see* Page, Michael A., (Not in MR)
 Kamp, L. P. J. *see* Mieses, R. H. M.; et al., 91c:76120
 Kharik, V. M. (with Pletner, Yu. D.) The problem of gravity-gyroscopic waves, which are excited by the oscillations of a curve. 91d:76083
 — (with Pletner, Yu. D.) The problem of gravity-gyroscopic waves, which are excited by the oscillations of a curve. 91f:76056
 Krutitskii, P. A. Small oscillations of a segment located on the interface of two stratified fluids. (Russian) 91c:76119
 — *see also* Gabor, S. A., 91g:76099
 Levchenko, E. S. *see* Borovikov, V. A.; et al., 91d:76082
 Mieses, R. H. M. (with Kamp, L. P. J.; Sluiter, F. W.) Solitary waves in compressible deep fluids. 91c:76120
 Mikhailov, S. A. *see* Akulenko, L. D.; et al., 91d:76081
 Müller, Detlev Simple waves and shocks in the shallow two-layer fluid. 91f:76057
 Nesterov, S. V. *see* Akulenko, L. D.; et al., 91d:76081
 Page, Michael A. (with Johnson, E. R.) Flow past cylindrical obstacles on a beta-plane. (Not in MR)
 Pletner, Yu. D. Oscillations of planar two-sided disk in a stratified fluid. 91c:76121
 — On the oscillations of a plane disk on the interface of two stratified fluids. (Russian) 91g:76100
 — *see also* Kharik, V. M., 91d:76083 and 91f:76056
 Rollins, David K. (with Debnath, Lokenath) The Cauchy-Poisson waves in an inviscid rotating stratified liquid. (Not in MR)
 Samikov, V. F. The horizontal velocity field generated by a moving source of perturbations in a stratified fluid. 91f:76071
 Sazonov, I. A. Generation of Case waves by a harmonic point source. 91g:76101
 Shivamoggi, Bhimsen K. (with Uberoi, Mahinder S.) Generalized exact solutions for steady two-dimensional flows with density stratification in the presence of gravity. 91b:76153
 Sluiter, F. W. *see* Mieses, R. H. M.; et al., 91c:76120
 Sundukova, A. V. *see* Gabor, S. A., 91b:76105
 Uberoi, Mahinder S. *see* Shivamoggi, Bhimsen K., 91b:76153
 Vladimirov, Yu. V. *see* Borovikov, V. A.; et al., 91d:76082

Items with secondary classifications in 76V05

- Akhator, I. Sh. Shear instability in stratified viscoelastic and gas-fluid media. 91a:76043
 Akyas, T. R. (with Kung, T.-J.) On nonlinear wave envelopes of permanent form near a caustic. 91c:76011
 Alekhov, Yu. Z. Modeling wave motions of an inhomogeneous fluid. (Russian. English summary) 91d:76027
 Amick, C. J. (with Turner, R. E. L.) Elliptic equations, internal waves and dynamical systems. 91e:58166
 Artykov, G. (with Orazov, M. B.) On the solvability of an initial-boundary value problem of the dynamics of a compressible stratified fluid. (Russian. English summary) 91e:76085
 Basu, Manjuri *see* Debnath, Lokenath; et al., 91g:76098
 Bogomolov, V. A. Solitary vortex-wave structure in a stratified drift current. (Russian) 91a:86062
 Borovikov, V. A. Critical layer formation in a stratified medium with mean shear flows. 91m:76049
 Bustos, María Cristina (with Paiva, Freddy; Wendland, Wolfgang L.) Control of continuous sedimentation of ideal suspensions as an initial and boundary value problem. 91h:35199
 Chadam, John M. (with Ortoleva, Peter J.) Reactive flows in porous media. 91k:76150
 Chashechkin, Yu. D. *see* Kistovich, A. V., 91m:76026
 Chernykh, G. G. *see* Voropaeva, O. F., (Not in MR)
 Davey, M. K. *see* Johnson, E. R., 91k:86001
 Debnath, Lokenath (with Guha, Uma B.; Basu, Manjuri) The Cauchy-Poisson waves in an inviscid rotating stratified liquid. 91g:76098
 De Gregorio, Salvatore Green's functions of a two-dimensional stationary flow of a rotating stratified fluid. (Not in MR)
 Elshehawey, Elsayed F. (with Mahmoud, Y. D.) Electrohydrodynamic Kelvin-Helmholtz instability conditions for two horizontal interfaces. Effect of a tangential field. (Italian and Russian summaries) 91b:76064
 Embid, Pedro F. On the reactive and nondiffusive equations for zero Mach number flow. 91a:76079
 Fadeev, S. I. *see* Ivanov, Evgenii Alekseevich², 91b:80027
 Forbes, Lawrence K. Two-layer critical flow over a semi-circular obstruction. 91b:76011
 Gabdulilov, R. R. Diffraction of internal waves by a plate that is located on the free surface of a stratified fluid. 91f:76013
 — Diffraction by a strip parallel to the surface of a compressible stratified fluid. (Russian) 91f:76032
 Grimshaw, R. H. J. Resonant wave interactions in a stratified shear flow. 91b:76024
 — *see also* Mitsunera, H., 91m:76051
 Gryanik, V. M. (with Tevs, M. V.) Dynamics of singular geostrophic vortices in an N -layer model of the atmosphere (ocean). 91e:76032
 Guha, Uma B. *see* Debnath, Lokenath; et al., 91g:76098
 Isakov, R. V. *see* Zhevandrov, P. N., 91g:76013
 Ivanov, Evgenii Alekseevich² (with Fadeev, S. I.) A study of the bifurcation of stationary solutions of a two-phase diffusion model of a boiling bed. (Russian) 91b:80027
 Johnson, E. R. (with Davey, M. K.) Free-surface adjustment and topographic waves in coastal currents. 91k:86001
 Kistovich, A. V. (with Chashechkin, Yu. D.) Generation, propagation and nonlinear interaction of internal waves. (Russian. English summary) 91m:76026
 Kung, T.-J. *see* Akyas, T. R., 91c:76011
 Mahmoud, Y. D. *see* Elshehawey, Elsayed F., 91b:76064
 Makov, Yu. N. Analogy between shear flow stratification and compressibility effects in hydrodynamic stability theory. 91k:76076
 Maslov, V. P. An integral equation for short internal waves in a stratified ocean. (Not in MR)
 Miloh, Touvia On periodic and solitary wavelike solutions of the intermediate long-wave equation. 91d:76009
 Mirabel, A. P. (with Monin, A. S.) On the instability of a Sverdrup gyre in a three-layer model and in a continuously stratified model of the ocean. 91m:76051
 Mitsunera, H. (with Grimshaw, R. H. J.) Effects of radiative damping on resonantly generated internal gravity waves. 91m:76027
 Monin, A. S. *see* Mirabel, A. P., 91m:76051
 Orazov, M. B. *see* Artykov, G., 91e:76085
 Ortoleva, Peter J. *see* Chadam, John M., 91k:76150
 Paiva, Freddy *see* Bustos, María Cristina; et al., 91h:35199
 Pletner, Yu. D. On the mathematical structure of the solution of the equation $(\partial^2/\partial t^2)[u_{xx} - \beta^2 u] + \alpha u u_{xx} = 0$ and related problems. (Russian) 91k:35019
 Ponce, Gustavo Smoothing properties of solutions to the Benjamin-Ono equation. 91c:35135
 Simakov, S. T. *see* Sveshnikov, A. G., 91k:35209
 Sveshnikov, A. G. (with Simakov, S. T.) Fundamental solutions and Green formulas for families of equations that arise in the theory of oscillations of a stratified viscous fluid. (Russian) 91k:35209
 Ter-Krikorov, A. M. Stratified flows and dipole approximations. (Russian) 91m:76028
 Tevs, M. V. *see* Gryanik, V. M., 91e:76032
 Turner, R. E. L. *see* Amick, C. J., 91e:58166
 Vladimirov, Yu. V. The field of internal waves in a neighborhood of a front that is excited by a source moving over a slowly varying bottom. 91b:76032
 Voropaeva, O. F. (with Chernykh, G. G.) Evolution of a turbulent mixing region in a fluid with nonlinear stratification. (Russian) (Not in MR)
 Wendland, Wolfgang L. *see* Bustos, María Cristina; et al., 91h:35199
 Zhevandrov, P. N. (with Isakov, R. V.) The Cauchy-Poisson problem for a two-layered fluid of variable depth. 91g:76013

76W05 Magnetohydrodynamics and electrohydrodynamics

- Aleshkov, Yu. Z. (with Barinov, V. A.; Taktarov, N. G.) The propagation of nonlinear magnetohydrodynamic surface waves. 91e:76111
 Barilato, M. (with Giambò, S.) Sur la dynamique relativiste d'un fluide magnétisable. (English and Italian summaries) [On the relativistic dynamics of a magnetizable fluid] (Not in MR)
 Barinov, V. A. *see* Aleshkov, Yu. Z.; et al., 91e:76111
 Bayly, B. J. (with Childress, S.) Fast dynamo action in three-dimensional chaotic maps. 91m:76124
 Becker, D.-A. (with Richter, E. W.) Partially invariant solutions for two-dimensional ideal MHD equations. 91m:76125
 Blokhin, A. M. (with Druzhinin, I. Yu.) Stability of shock waves in magnetohydrodynamics. 91e:76112
 Brancher, J.-P. *see* Henrot, A.; et al., (91b:00050)
 Britov, N. A. The three-dimensional analog of the Hunt theorem for certain magnetohydrodynamic flows in tubes. 91g:76102
 Calmelet-Elshu, Colette (with Crooke, Philip) Continuous dependence on data for solutions of a conducting dusty gas model backwards in time. 91e:76113
 Caloz, Gabriel Approximation by finite element method of the model plasma problem. (French summary) 91m:76126
 Carbonaro, P. Propagation and interaction of asymptotic waves in ideal magnetofluid dynamics. 91c:76122
 Chandna, Alka *see* Chandna, O. P., 91b:76106
 Chandna, O. P. (with Chandna, Alka) Steady plane orthogonal electromagneto-gas dynamic flows with isometric geometry. 91b:76106
 — (with Nguyen, Phu Van) Hodograph method in non-Newtonian MHD transverse fluid flows. 91a:76086
 — (with Nguyen, Phu Van) Hodograph transformation method and solutions in aligned MHD plane flows. 91h:76082
 — (with Labropulu, F.) Finitely conducting aligned plane magnetohydrodynamic confluent flows. 91j:76072
 — (with Labropulu, F.; Husain, I.) Variably inclined MHD parallel flows. (German and Russian summaries) 91k:76154
 — *see also* Nguyen, Phu Van, 91e:76115
 Childress, S. *see* Gilbert, A. D., 91g:76104; Bayly, B. J., 91m:76124 and Soward, A. M., (91f:76005)
 Čiegis, Raimondas (with Čiupaila, Regimantas J.) Some aspects of the solution of stationary problems of fluid-metal contact. (Russian. English and Lithuanian summaries) 91j:76073
 Čiupaila, Regimantas J. *see* Čiegis, Raimondas, 91j:76073
 Crooke, Philip *see* Calmelet-Elshu, Colette, 91e:76113
 Dnestrovskii, Yu. N. (with Kostomarov, D. P.; Nefedov, V. V.; Popov, A. M.) A study of the nonlinear evolution of resistive spiral modes by the method of projection onto an unstable manifold. 91f:76058

- Druzhinin, I. Yu. *see* Blokhin, A. M., 91e:76112
- Durmaganbetov, A. A. (with Koshanov, B. D.) Well-posed solvability of mixed boundary value problems for a one-dimensional equation of magnetogasdynamics with degenerate density. (Russian. Kazakh summary) 91e:76074
- Feng, James Q. A method of multiple-parameter perturbations with an application to drop oscillations in an electric field. 91g:76103
- Galeeva, R. F. (with Ruzmaikin, A. A.; Sokolov, D. D.) Correlation of the magnetic-field directions in a random flow. 91e:76114
- Giambo, S. *see* Barilare, M., (Not in MR)
- Gilbert, A. D. (with Childress, S.) Evidence for fast dynamo action in a chaotic web. 91g:76104
- Gota, Shun'ichi Singular limit of the incompressible ideal magneto-fluid motion with respect to the Alfvén number. 91d:76084
- Gundersen, Roy M. Oblique magnetohydrodynamic shock wave decay. (French summary) 91j:76075
- Gunzburger, Max D. (with Meir, Amnon J.; Peterson, Janet S.) On the existence, uniqueness, and finite element approximation of solutions of the equations of stationary, incompressible magnetohydrodynamics. 91m:76127
- Henrot, A. (with Brancher, J.-P.; Pierre, M.) Existence of equilibria in electromagnetic casting. (see 91b:00050)
- Hussain, I. *see* Chandna, O. P.; et al., 91k:76154
- Imanbaev, K. S. On the solvability of the one-sided MHD problem. (Russian) (see 91g:00039)
- Koshanov, B. D. On the solvability of a boundary value problem of magnetogasdynamics. (Russian) (see 91k:00020)
- *see also* Durmaganbetov, A. A., 91j:76074
- Kostomarov, D. P. *see* Dnestrovskii, Yu. N.; et al., 91f:76058
- Labropula, F. *see* Chandna, O. P., 91j:76072 and 91k:76154
- Makar, M. An exact periodic solution of unsteady MHD flow between two parallel walls: velocity and magnetic fields. I. (Arabic summary) (Not in MR)
- Malik, S. K. (with Singh, Manohar) Nonlinear evolution of wave packets in magnetic fluids. (Not in MR)
- Malyska, E. On the interactions of Riemann waves in relativistic magnetohydrodynamics. (Russian and Polish summaries) 91k:76155
- Maslov, V. P. (with Omel'yanov, G. A.) Asymptotic solution of equations in two-fluid magnetohydrodynamics with large Reynolds numbers, and the turbulent dynamo effect. (Russian) 91c:76123
- Mastel, Giulio Some considerations concerning the analogy between Alfvén waves and waves in an elastic string. (Italian. English summary) 91b:76107
- Some remarks about magnetoacoustic waves. (Italian. English summary) 91j:76076
- Meir, Amnon J. *see* Gunzburger, Max D.; et al., 91m:76127
- Mishra, R. B. *see* Thakur, C. (Not in MR)
- Moffatt, H. K. On the existence, structure and stability of MHD equilibrium states. 91m:76128
- On the behaviour of a suspension of conducting particles subjected to a time-periodic magnetic field. 91j:76077
- Mohgaonkar, Satish D. (with Saraykar, R. V.) Large time behaviour of solutions of the magnetohydrodynamic equations. 91b:76108
- Molchanov, S. A. (with Ruzmaikin, A. A.; Sokolov, D. D.) Self-excitation and reconstructions of magnetic field in random flow. (see 91k:76005)
- Muscato, Orazio Simple wave solutions for a radiation-dominated magnetofluid. 91j:76078
- Nag, Tarasankar Vortices in tearing modes. (Not in MR)
- Nefedov, V. V. *see* Dnestrovskii, Yu. N.; et al., 91f:76058
- Nguyen, Phu Van (with Chandna, O. P.) Hodographic study of non-Newtonian MHD aligned steady plane fluid flows. 91e:76115
- *see also* Chandna, O. P., 91a:76006 and 91h:76082
- Novo, Sylvia (with Rojo García, Jesús) On the continuous spectrum of the equations of magnetohydrodynamics. (Spanish. English summary) (see 91j:00015)
- Omel'yanov, G. A. *see* Maslov, V. P., 91c:76123
- Ostrovskii, V. L. (with Rusanov, M. M.) Dissipative structures on the charged surface of a viscous fluid. (Not in MR)
- Pandey, B. D. Growth and decay of shock waves in magnetogasdynamics. 91k:76156
- Peterson, Janet S. *see* Gunzburger, Max D.; et al., 91m:76127
- Pierre, M. *see* Henrot, A.; et al., (91b:00050)
- Popov, A. M. *see* Dnestrovskii, Yu. N.; et al., 91f:76058
- Raikov, George D. The spectrum of an ideal linear magnetohydrodynamic model with translational symmetry. 91b:76109
- Remorini, G. Beltrami MFD motions. (Italian. English summary) 91c:76124
- Richter, E. W. *see* Becker, D.-A., 91m:76125
- Riedel, K. S. Quasilinear ballooning mode saturation. 91d:76085
- Rojo García, Jesús *see* Novo, Sylvia, (91j:00015)
- Rollins, David K. *see* Vajravelu, K., 91m:76129
- Ruderman, M. S. Structure and stability of quasispherical small-amplitude magnetohydrodynamic shocks. 91c:76125
- Rusanov, M. M. *see* Ostrovskii, V. L., (Not in MR)
- Ruzsai, E. *see* Ván, P., (Not in MR)
- Ruzmaikin, A. A. *see* Galeeva, R. F.; et al., 91e:76114 and Molchanov, S. A.; et al., (91k:76005)
- Saraykar, R. V. *see* Mohgaonkar, Satish D., 91b:76108
- Semenov, D. V. The effect of diffusion on the α -effect. (Russian) 91a:76087
- Singh, Brij Bhan *see* Singh, Janardan, 91h:76083
- Singh, Janardan (with Singh, Brij Bhan) Existence and uniqueness of the solutions of the hydromagnetic boundary layer flows past a semi-infinite flat plate. 91h:76083
- Singh, Manohar *see* Malik, S. K., (Not in MR)
- Slitsyn, V. Yu. On combined-invariant motions in magnetohydrodynamics. (Russian) 91a:76088
- Skvortsov, A. T. Exact solution of equations of magnetohydrodynamics in the form of a solitary toroidal vortex. (Russian) (Not in MR)
- Sokolov, D. D. *see* Galeeva, R. F.; et al., 91e:76114 and Molchanov, S. A.; et al., (91k:76005)
- Soward, A. M. (with Childress, S.) Dynamo action at large magnetic Reynolds number in spatially periodic flow with mean motion. (see 91k:76005)
- Takeda, Tatsuo (with Tokuda, Shinji) Computation of MHD equilibrium of tokamak plasma. 91k:76157
- Taktarov, N. G. *see* Aleshkov, Yu. Z.; et al., 91e:76111
- Thakur, C. (with Mishra, R. B.) Solutions for steady plane orthogonal MHD flows. (Not in MR)
- Tokuda, Shinji *see* Takeda, Tatsuo, 91k:76157
- Tripathi, Durga Dutt Hodograph transformation in non-Newtonian EMFD flows. 91k:76158
- Vajravelu, K. (with Rollins, David K.) On solutions of some unsteady flows over a continuous, moving, porous flat surface. 91m:76129
- Valenti, Giovanna Transverse diffraction of nonlinear waves in radiative magnetogasdynamics. 91b:76110
- Ván, P. (with Ruzsai, E.) Derivation of the basic equations of MHD from the governing principle of dissipative processes. (Not in MR)
- Woolley, M. L. On the mathematical structure of the equations of magnetohydrodynamic equilibrium. 91g:76105

Items with secondary classifications in 76W05

- Abd El Gawwad, N. R. *see* Elshehawey, Elsayed F., 91j:76033
- Abdullah, A. A. (with Lindsay, K. A.) Benard convection in a nonlinear magnetic fluid under the influence of a nonvertical magnetic field. 91m:76045
- Barrett, John W. (with Elliott, Charles M.) Finite element approximation of a free boundary problem arising in the theory of liquid drops and plasma physics. (French summary) 91m:65269
- Barrea, R. M. *see* Rudraiah, N.; et al., 91e:76056
- Besson, Olivier (with Bourgeois, J.; Chevalier, P.-A.; Rappaz, J.; Touzani, Rachid) Numerical modelling of electromagnetic casting processes. 91k:76105
- Bondeson, A. *see* Iacono, R.; et al., 91d:76086
- Boudourides, Moses A. (with Nikouides, Apostolos C.) The attractor of the magnetic Bénard problem. 91f:35261
- Bourgeois, J. *see* Besson, Olivier; et al., 91k:76105
- Brio, M. An example of a Riemann problem of second kind. 91a:35104
- (with Hunter, John K.) Rotationally invariant hyperbolic waves. 91f:35161
- Britov, N. A. A study of the controlling action of a magnetic field for the single-component flow of a metal. (Russian) 91h:35051
- Caleo, Gabriel The model plasma problem: existence of a solution branch. 91g:35073
- Camargo, S. J. (with Tasso, H.) Self-similar statistics in MHD turbulence. 91e:76064
- Chandna, O. P. *see* Rudraiah, N.; et al., 91e:76056
- Chen, Hudong (with Chen, Shi Yi; Doolen, Gary D.; Matthaeus, W. H.) Lattice-gas models for multiphase flows and magnetohydrodynamics. (see 91m:00034)
- Chen, Shi Yi *see* Chen, Hudong; et al., (91m:00034)
- Chen, Xiao Liang (with Morrison, P. J.) Resistive tearing instability with equilibrium shear flow. 91e:76021
- Chevalier, P.-A. *see* Besson, Olivier; et al., 91k:76105
- Collett, J. L. Isocirculation flows. (see 91k:76005)
- Doolen, Gary D. *see* Chen, Hudong; et al., (91m:00034)
- Dritschel, David G. Generalized helical Beltrami flows in hydrodynamics and magnetohydrodynamics. 91m:76043
- Eberly, David Analysis of a model in solar magnetohydrostatics. 91j:85002
- Eden, Alp (with Libin, A.) Explicit dimension estimates of attractors for the MHD equations in three-dimensional space. 91h:58232
- Elliott, Charles M. *see* Barrett, John W., 91m:65269
- Elshehawey, Elsayed F. (with Abd El Gawwad, N. R.) Nonlinear electrohydrodynamic Kelvin-Helmholtz instability conditions of an interface between two fluids under the effect of a normal periodic field. (Russian summary) 91j:76033
- (with Mahmoud, Y. D.) Electrohydrodynamic Kelvin-Helmholtz instability conditions for two horizontal interfaces. Effect of a tangential field. (Italian and Russian summaries) 91h:76064
- Intervals of electrohydrodynamic Rayleigh-Taylor instability: effect of a normal periodic field. 91k:76068
- Eydeland, Alexander (with Spruck, Joel; Turkington, Bruce) Computational method for multiconstrained variational problems arising in equilibrium magnetohydrodynamics. (see 91b:00050)
- (with Spruck, Joel; Turkington, Bruce) Multiconstrained variational problems of nonlinear eigenvalue type: new formulations and algorithms. 91b:49056
- Fairallina, N. T. Solvability of a boundary value problem for electrodynamic equations. (Russian) 91j:35262
- Feistauer, Miloslav (with Kalis, Harijs; Rokyta, Mirko) Mathematical modelling of an electrolysis process. 91d:35081
- Finn, John M. (with Ott, Edward) The fast kinematic magnetic dynamo and the dissipationless limit. 91g:76040
- Fusco, D. (with Palumbo, A.) Dissipative or dispersive wave processes ruled by first order quasilinear systems involving source-like terms. (Italian summary) 91f:35162
- Galanti, B. (with Sulem, P.-L.; Gilbert, A. D.) Inverse cascades and time-dependent dynamos in MHD flows. 91m:76053
- Giga, Yoshikazu (with Yoshida, Zensho) A dynamic free-boundary problem in plasma physics. 91h:35334
- Gilbert, A. D. *see* Galanti, B.; et al., 91m:76053
- Glazunova, N. A. (with Stepan'yants, Yu. A.) Estimates of parameters of growing perturbations in shear flows of a nonhomogeneous magnetized plasma. 91d:76040
- Grauer, Rainer Nonlinear interactions of tearing modes in the vicinity of a bifurcation point of codimension two. 91d:58180
- Gruber, Ralf *see* Iacono, R.; et al., 91d:76086
- Guo, Hong Jun *see* Wang, Yong Jia, 91e:83066
- Hamaguchi, Satoshi *see* Nakajima, Noriyoshi, 91c:76052
- Hatori, Tadatsugu Magnetohydrodynamic cellular automata. 91f:76044
- Hattori, Harumi *see* Mischakow, Konstantin, 91b:76078

- Henrot, A. (with Pierre, M.) About existence of a free boundary in electromagnetic shaping. 91d:35241
- Holm, Darryl D. Hamiltonian techniques for relativistic fluid dynamics and stability theory. 91b:76001
- Hu, Wen Rui Magnetostatic equilibrium of isolated magnetic flux tube. 91c:85011
- Hu, You Qiu A multistep implicit scheme for time-dependent 2-dimensional magnetohydrodynamic flows. 91b:76000
- Hunter, John K. see Brin, M., 91f:35161
- Iacono, R. (with Bondeson, A.; Troyon, F.; Gruber, Ralf) Axisymmetric toroidal equilibrium with flow and anisotropic pressure. 91d:76006
- Kaku, Takashi Spectral approximation and numerical analysis for linearized MHD operators. (see 91b:00050)
- Kalls, Harila see Feistauer, Miloslav; et al., 91d:35081
- Karpman, V. I. Nonlinear interaction between short and long waves. 91b:76022
- Kress, Rainer On an ill-posed problem for constant alpha force-free fields. 91b:78005
- Kupersmidt, Boris A. Form-invariance upon relativisation of the Hamiltonian structures of fluids is not universal. 91k:76007
- Ladyzhenskaya, O. A. Attractors in problems of magnetohydrodynamics. (see 91k:76005)
- Lewis, H. Ralph Representation of magnetic fields with toroidal topology in terms of field-line invariants. 91k:78005
- Llibre, A. see Eden, Alp, 91b:58232
- Lindsay, K. A. see Abdullah, A. A., 91m:76045
- Mahmoud, Y. D. see Elshehawey, Elsayed F., 91b:76064
- Manolis, G. D. see Pelekasis, N. A.; et al., 91f:76032
- Matthaeus, W. H. see Chen, Hong; et al., (91m:00034)
- (Meneguzzi, M.) see Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Mestel, A. J. More accurate skin-depth approximations. 91c:78010
- Mischakow, Konstantin (with Hattori, Harumi) On the existence of intermediate magnetohydrodynamic shock waves. 91b:76078
- (Moffatt, H. K.) see Topological fluid mechanics, 91k:76005
- Morrison, P. J. see Chen, Xiao Liang, 91b:76021
- Mukoyama, Toyohiko On the Cauchy problem for quasilinear hyperbolic-parabolic coupled systems in higher-dimensional spaces. 91d:35148
- Nakajima, Noriyoshi Nonlinear behavior of magnetohydrodynamic modes near marginally stable states. I. General formulation and application to the nonresonant kink modes in a reversed field pinch and to the quasi-interchange modes in a tokamak. 91c:76051
- (with Hamaguchi, Satoshi) Nonlinear behavior of magnetohydrodynamic modes near marginally stable states. II. Application to the resistive fast interchange mode. 91c:76052
- Nikoudes, Apostolos C. see Boudourides, Moses A., 91f:35261
- Ortner, Norbert (with Wagner, Peter²) Some new fundamental solutions. 91c:35067
- Ott, Edward see Finn, John M., 91g:76040
- Palumbo, A. see Fusco, D., 91f:35162
- Patulin, V. M. (with Sagalakov, A. M.; Yuditsev, A. Yu.) Appearance of three-dimensional self-oscillations in magnetohydrodynamic flows. 91g:76041
- Pelekasis, N. A. (with Tsamopoulos, J. A.; Manolis, G. D.) Equilibrium shapes and stability of charged and conducting drops. 91f:76032
- Pierre, M. see Henrot, A., 91d:35241
- (Pouquet, A.) see Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Rappaz, J. see Besson, Olivier; et al., 91k:76105
- Rokyt, Mirko see Feistauer, Miloslav; et al., 91d:35081
- Rudraiah, N. (with Chandna, O. P.; Barron, R. M.) Asymptotic methods in magnetoconvection. 91c:76056
- Sagalakov, A. M. see Patulin, V. M.; et al., 91g:76041
- Sharma, K. C. see Sharma, R. C., 91b:76060
- Sharma, R. C. (with Sharma, K. C.) Thermal instability of compressible fluids with Hall currents in porous medium. 91b:76060
- Spruck, Joel see Eydeland, Alexander; et al., 91b:49056 and (91b:00050)
- Stepanyants, Yu. A. see Glazmova, N. A., 91d:76040
- Sulem, P.-L. see Galanti, B.; et al., 91m:76053 and Turbulence and nonlinear dynamics in MHD flows, 91k:76005
- Taniuti, Toshiyuki Reductive perturbation method for quasi-one-dimensional nonlinear wave propagation. 91k:35171
- Tasso, H. Axisymmetric equal-field solutions of Poisson's equation. 91m:78008
- see also Camargo, S. J., 91c:76064
- Touzani, Rachid see Besson, Olivier; et al., 91k:76105
- Troyon, F. see Iacono, R.; et al., 91d:76006
- Tsamopoulos, J. A. see Pelekasis, N. A.; et al., 91f:76032
- (Tsinobir, A.) see Topological fluid mechanics, 91k:76005
- Turkington, Bruce see Eydeland, Alexander; et al., 91b:49056 and (91b:00050)
- Wagner, Peter² see Ortner, Norbert, 91c:35067
- Wang, Yong Jiu (with Guo, Hong Jun) Magnetohydrodynamic equations in general relativity and their solutions. (Chinese) 91c:83066
- Weinstein, Marcel Mordechai An analytical solution of the basic Couette flow affected by a three-dimensional magnetic field. 91a:76041
- Yoshida, Zensho see Giga, Yoshikazu, 91b:35334
- Yuditsev, A. Yu. see Patulin, V. M.; et al., 91g:76041

Items listed otherwise than by author

- Cambridge ★ Topological fluid mechanics. 91k:76005
- Cargèse ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005
- IUTAM Symposium: Topological Fluid Mechanics ★ Topological fluid mechanics. 91k:76005
- Topological fluid mechanics ★ Topological fluid mechanics. 91k:76005
- Turbulence and nonlinear dynamics in MHD flows ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005
- Workshop: Turbulence and Nonlinear Dynamics in MHD Flows ★ Turbulence and nonlinear dynamics in MHD flows. 91k:76005

76X05 Ionized gas flow in electromagnetic fields; plasmic flow

- Biedenharn, L. C. (with van Dam, H.) Erratum: "On steady transverse magnetogas flow" [J. Math. Phys. 27 (1986), no. 5, 1466–1470; MR 87f:76128] by S. N. Singh, K. R. Choubey and B. P. Singh. 91b:76111
- Bondeson, A. see Iacono, R.; et al., 91d:76006
- Buti, B. see Hada, T.; et al., 91b:76084
- Bychenkov, V. Yu. (with Silin, V. P.; Tikhonchuk, V. T.) Two-dimensional vortex structures in an anisotropic plasma. 91c:76126
- Charakhch'yan, A. A. Computation of viscous plasma heating under compression by a striker in a conical target. (Russian) 91g:76106
- (Choubey, K. R.) see Biedenharn, L. C., 91b:76111
- van Dam, H. see Biedenharn, L. C., 91b:76111
- D'Ambrogio, Enos A third order scheme in the Vlasov theory and some consequences in the evolution of few body systems. (Italian summary) 91b:76112
- Diver, D. A. (with Laing, E. W.) On conservation laws in fourth-order potential barriers. 91c:76116
- Drivotin, O. I. (with Ovsyannikov, D. A.) New classes of solutions of the Vlasov equation for a stationary beam of charged particles in a longitudinal magnetic field. (Russian) (see 91k:00010)
- Flå, Tor see Wyller, John; et al., 91d:76090
- Gabov, S. A. Mathematical bases of the linear theory of ion-acoustic waves in a nonmagnetized plasma. (Russian) 91c:76127
- Giambò, S. (with Pantano, P.) Modified Kadomtsev-Petviashvili [Kadomtsev-Petviashvili] equation for ion-acoustic waves. 91a:76089
- Gruber, Ralf see Iacono, R.; et al., 91d:76006
- Hada, T. (with Kennel, C. F.; Buti, B.; Mjølhus, Einar) Chaos in driven Alfvén systems. 91b:76084
- Iacono, R. (with Bondeson, A.; Troyon, F.; Gruber, Ralf) Axisymmetric toroidal equilibrium with flow and anisotropic pressure. 91d:76006
- Kaup, D. J. (with Thomas, Gary E.) The third-order singular-perturbation expansion of the planar cold-fluid magnetron equations. 91a:76090
- Coherent structures in the planar magnetron. 91c:76117
- (with Thomas, Gary E.) Errata for: "The third-order singular-perturbation expansion of the planar cold-fluid magnetron equations" [Stud. Appl. Math. 81 (1989), no. 1, 57–78; MR 91a:76090]. (Not in MR)
- Kennel, C. F. see Hada, T.; et al., 91b:76084
- Kuehl, H. H. (with Zhang, C. Y.) Effects of higher-order dispersion on envelope solitons. 91c:76087
- Laing, E. W. see Diver, D. A., 91c:76116
- Maschke, E. K. Dynamical systems in plasma theory. 91b:76085
- Mjølhus, Einar see Wyller, John; et al., 91d:76090 and Hada, T.; et al., 91b:76084
- Nycander, J. The existence of stationary vortex solutions of the equations for nonlinear drift waves in plasmas and nonlinear Rossby waves. 91d:76088
- Ovsyannikov, D. A. see Drivotin, O. I., 91k:00010
- Pantano, P. see Giambò, S., 91a:76089
- Papanicolaou, George (with Sulem, C.; Sulem, P.-L.; Wang, X. P.) Singular solutions of the Zakharov equations for Langmuir turbulence. 91k:76159
- Ponce Dawson, Silvia A model of Alfvén turbulence. 91c:76128
- Rein, Gerhard A two-species plasma in the limit of large ion mass. 91d:76089
- Silin, V. P. see Bychenkov, V. Yu.; et al., 91b:76126
- (Singh, B. P.) see Biedenharn, L. C., 91b:76111
- (Singh, Shesh Nath) see Biedenharn, L. C., 91b:76111
- Subbarao, D. see Uma, R., 91b:76113
- Sulem, C. see Papanicolaou, George; et al., 91k:76159
- Sulem, P.-L. see Papanicolaou, George; et al., 91k:76159
- Swanson, D. G. ★ Plasma waves. 91g:76107
- Thomas, Gary E. see Kaup, D. J., 91a:76090 and (Not in MR)
- Tikhonchuk, V. T. see Bychenkov, V. Yu.; et al., 91b:76126
- Todoroki, Jiro Adiabatic invariant and evaluation of particle loss in helical torus. (Not in MR)
- Troyon, F. see Iacono, R.; et al., 91d:76006
- Uma, R. (with Subbarao, D.) Intrinsic chaos in a plasma wave. 91b:76113
- Veronov, A. Ya. On the structure of a boundary layer of a glow-discharge positive-column plasma in electronegative gases. (Russian) (Not in MR)
- Wang, X. P. see Papanicolaou, George; et al., 91k:76159
- Wyller, John (with Flå, Tor; Mjølhus, Einar) The effect of resonant particles on Alfvén solitons. 91d:76090
- Zhang, C. Y. see Kuehl, H. H., 91c:76087
- Items with secondary classifications in 76X05
- Asadzadeh, Mohammad Streamline diffusion methods for the Vlasov-Poisson equation. (French summary) 91d:65137
- Balk, A. M. (with Nazarenko, S. V.; Zakharov, V. E.) On the nonlocal turbulence of drift type waves. 91k:76088
- (with Nazarenko, S. V.) Physical realizability of anisotropic weak-turbulence Kolmogorov spectra. 91k:76087
- Barrett, John W. (with Elliott, Charles M.) Finite element approximation of a free boundary problem related to plasma physics. (see 91g:00044)
- Belian, Paul M. see Lewis, H. Ralph, 91b:35075
- Benachour, Said Analyticité des solutions des équations de Vlasov-Poisson. [Analyticity of the solutions of the Vlasov-Poisson equations] 91j:35006
- Berk, H. L. see Kull, H. J.; et al., 91b:78020
- Bhattach, O. P. (with Vijayakumar, K.; Mital, Poornima; Chandrasekaran, G.) On invariant solutions of the generalised Korteweg-de Vries equation in a variable medium. I. 91c:35180
- (with Chandrasekaran, G.; Mital, Poornima; Vijayakumar, K.) On invariant solutions of the generalised Korteweg-de Vries-Burgers type equations. II. 91c:35181
- Blum, Jacques ★ Numerical simulation and optimal control in plasma physics. 91f:82068

- Borovskii, A. V. (with Galkin, A. L.; Priznak, V. G.; Chizhonkov, E. V.) Methods for the simultaneous solution of equations of gas dynamics and the kinetics of a multiply charged plasma. (Russian) (Not in MR)
- Caponio, R. *see* Osborne, A. R., 91c:76054
- Chandrasekaran, G. *see* Bhutani, O. P.; et al., 91c:35180 and 91c:35181
- Chen, Zong Yun *see* Huang, Nian Ning, 91c:35255
- Chizhonkov, E. V. *see* Borovskii, A. V.; et al., (Not in MR)
- Coffey, Mark W. On series expansions giving closed-form solutions of Korteweg-de Vries-like equations. 91c:35061
- Crawford, John David *see* Hislop, Peter D., 91b:82060
- D'Ambrogio, Enos Duffing-like behavior in extended turbulence mode models. 91b:76029
- Descoux, Jean (with Frosio, R.; Flück, M.) A two fluids stationary free boundary problem. 91c:76030
- Dubois, Marc A. Anomalous transport of energy in tokamaks and the beasts model. 91m:82136
- Elliott, Charles M. *see* Barrett, John W., (91c:00044)
- von Finckenstein, Karl Graf Flück Difference methods for quasilinear parabolic systems from plasma physics. (Not in MR)
- Flück, M. *see* Descoux, Jean; et al., 91c:76030
- Frosio, R. *see* Descoux, Jean; et al., 91c:76030
- Galkin, A. L. *see* Borovskii, A. V.; et al., (Not in MR)
- Gandolfo, D. (with Heegh-Krohn, Raphael J.; Rodriguez, Roger) A stochastic model for plasma dynamics. (see 91b:00034)
- Glasse, Robert T. (with Strauss, Walter A.) Large velocities in the relativistic Vlasov-Maxwell equations. 91b:82059
- Hazeltine, R. D. *see* Meiss, James D., 91b:78007
- Herman, Russell L. The stochastic, damped KdV equation. 91b:35189
- Hislop, Peter D. (with Crawford, John David) Application of spectral deformation to the Vlasov-Poisson system. II. Mathematical results. 91b:82060
- Heegh-Krohn, Raphael J. *see* Gandolfo, D.; et al., (91b:00034)
- Horiata, Satoshi (with Irie, Haruyuki; Sato, Masatomo) Stationary drift-Rossby vortices in shear flows. 91c:76025
- Horst, E. Global solutions of the relativistic Vlasov-Maxwell system of plasma physics. 91m:35222
- Huang, Nian Ning (with Chen, Zong Yun) Alfvén solitons. 91c:35255
- Irie, Haruyuki *see* Horiata, Satoshi; et al., 91c:76025
- Ivanov, V. Ya. A method for analyzing three-dimensional non-steady-state particle flows. (Russian) 91d:82002
- Karpman, V. I. Nonlinear interaction between short and long waves. 91b:76022
- Kashuba, R. J. *see* Kull, H. J.; et al., 91c:78020
- Kotorov, V. N. (with Shcheprov, A. V.) Calculation of spatially nonequilibrium transport of electrons in a gas-discharge plasma. (Russian) (Not in MR)
- Kull, H. J. (with Kashuba, R. J.; Berk, H. L.) WKB theory of wave tunneling for Hermitian and nearly Hermitian vector systems of integral equations. 91c:78020
- Lewis, H. Ralph (with Bellan, Paul M.) Physical constraints on the coefficients of Fourier expansions in cylindrical coordinates. 91b:35075
- Lim, Chjan C. Existence of KAM tori in the phase-space of lattice vortex systems. 91d:58218
- Meiss, James D. (with Hazeltine, R. D.) Canonical coordinates for guiding center particles. 91b:78007
- Mital, Poornima *see* Bhutani, O. P.; et al., 91c:35180 and 91c:35181
- Moffatt, H. K. The topological (as opposed to the analytical) approach to fluid and plasma flow problems. (see 91b:76005)
- Morris, J. L. *see* Pathria, D., 91d:35204
- Morrison, P. J. (with Pfirsch, D.) The free energy of Maxwell-Vlasov equilibria. 91b:82048 — *see also* Pfirsch, D., 91b:82063
- Nazarenko, S. V. *see* Balk, A. M., 91b:76007 and 91b:76008
- Nefedov, V. V. (with Popov, A. M.) Evolution conditions in the problem of the bifurcation of a plasma cylinder. (Russian. English summary) 91d:76041
- Newton, Paul K. Wave interactions in the singular Zakharov system. 91b:35245
- Nikamov, S. V. *see* Vlasov, M. A., 91m:82142
- O'Dwyer, Brian P. *see* Victory, Harold Dean, Jr., 91d:35219
- Osborne, A. R. (with Caponio, R.) Fractal trajectories and anomalous diffusion for chaotic particle motions in 2D turbulence. 91c:76054
- Ouyamnikov, D. A. ★ Моделирование и оптимизация динамики пучков заряженных частиц. (Russian) [Modeling and optimization of the dynamics of charged particle beams] 91g:78007
- Pathria, D. (with Morris, J. L.) Pseudo-spectral solution of nonlinear Schrödinger equations. 91d:35204
- Pfirsch, D. (with Morrison, P. J.) The energy-momentum tensor for the linearized Maxwell-Vlasov and kinetic guiding center theories. 91b:82063 — *see also* Morrison, P. J., 91b:82048
- Piterburg, L. I. (with Shul'man, E. I.) On the nonintegrability of the Hamiltonian system for Rossby waves and drift waves. 91b:76034
- Popov, A. M. *see* Nefedov, V. V., 91d:76041
- Priznak, V. G. *see* Borovskii, A. V.; et al., (Not in MR)
- Rein, Gerhard Generic global solutions of the relativistic Vlasov-Maxwell system of plasma physics. 91m:35227
- Rodriguez, Roger *see* Gandolfo, D.; et al., (91b:00034)
- Sato, Masatomo *see* Horiata, Satoshi; et al., 91c:76025
- Shcheprov, A. V. *see* Kotorov, V. N., (Not in MR)
- Shul'man, E. I. *see* Piterburg, L. I., 91b:76034
- Sneider, Roel The role of the Born approximation in nonlinear inversion. 91c:35160
- Strauss, Walter A. *see* Glasse, Robert T., 91b:82059
- Tolstomogov, D. A. Properties of stationary solutions of a mathematical model for the balance of densities of plasma in a gas-dynamic trap. (Russian. English summary) 91m:82140
- Valmashita, S. I. Cusp-points and current sheet dynamics. 91b:85014
- Victory, Harold Dean, Jr. (with O'Dwyer, Brian P.) On classical solutions of Vlasov-Poisson-Fokker-Planck systems. 91d:35219

- Vijayakumar, K. *see* Bhutani, O. P.; et al., 91c:35180 and 91c:35181
- Vlasov, M. A. (with Nikonov, S. V.) Transport, compression and stability of electron beam in positively charged plasma. 91m:82142
- Wang, Nai Quan Chaotic behavior in an electron-beam plasma. 91b:35268
- Zakharov, V. E. *see* Balk, A. M.; et al., 91b:76008

76Y05 Quantum hydrodynamics and relativistic hydrodynamics [see also 83C55, 85A30]

- Carbonaro, P. High frequency waves in relativistic ideal fluid dynamics. (French summary) 91c:76129
- Two explicit solutions in a reducible relativistic system. 91b:76114
- Carini, Giovanni On the extension of the Lagrange-d'Alembert principle to ideal relativistic fluid dynamics. (Italian. English summary) 91b:76059
- Ferrarese, Giorgio (with Stazi, L.) The Lagrange theorem for relativistic perfect fluids. (Italian. English summary) 91b:76160
- Gheorghiev, Gh. (with Ignat, M.) On relativistic fluid mechanics. (Italian) 91b:76161
- Giambò, S. (with Valenti, Giovanna) Isometric motions of a relativistic simple fluid. 91a:76091
- Ignat, M. *see* Gheorghiev, Gh., 91b:76161
- Orlov, Yu. N. (with Pavlotskii, I. P.) Equations of weakly relativistic viscous hydrodynamics. (Russian) 91c:76118
- Pavlotskii, I. P. *see* Orlov, Yu. N., 91c:76118
- Slavutskii, S. L. Reduction of equations of relativistic hydrodynamics. (Russian) (see 91g:00031)
- Stazi, L. *see* Ferrarese, Giorgio, 91b:76160
- Valenti, Giovanna *see* Giambò, S., 91a:76091
- Items with secondary classifications in 76Y05
- Anderson, James L. (with Nowotny, Ekkehard) Stochastic forces and fluctuation-dissipation theorems in a relativistic one-component gas. 91b:82054
- Bariloro, M. (with Giambò, S.) Sur la dynamique relativiste d'un fluide magnétisable. (English and Italian summaries) [On the relativistic dynamics of a magnetizable fluid] (Not in MR)
- Caricato, G. On the fundamental equation of the relativistic mechanics of a continuous system. (Italian summary) 91d:83075
- Carini, Giovanni The Hamilton principle in relativistic particle dynamics and in the dynamics of a relativistic ideal fluid. (Italian. English summary) 91b:76019
- Dudynski, Marek On the linearized relativistic Boltzmann equation. II. Existence of hydrodynamics. 91b:82043
- Geroch, Robert (with Lindblom, Lee) Dissipative relativistic fluid theories of divergence type. 91d:83076
- Giambò, S. (with Palumbo, A.) Barometric formulas for a heat conducting relativistic fluid. (Italian summary) 91c:83024
- *see also* Bariloro, M., (Not in MR)
- Grosso, Roberto (with Stephani, Hans) Bianchi types of Lie point symmetries arising for differential rotating stationary axisymmetric fluids. 91d:83053
- Guo, Hong Jun *see* Wang, Yong Jin, 91c:83066
- Hiscock, William A. *see* Olson, Timothy S., 91m:83053
- Holm, Darryl D. Hamiltonian techniques for relativistic fluid dynamics and stability theory. 91b:76001
- Kopczynski, Wojciech Variational principles for gravity and fluids. 91j:58052
- Kupersmidt, Boris A. Form-invariance upon relativisation of the Hamiltonian structures of fluids is not universal. 91b:76007
- Lindblom, Lee *see* Geroch, Robert, 91d:83076
- Malyszko, E. On the interactions of Riemann waves in relativistic magnetohydrodynamics. (Russian and Polish summaries) 91b:76155
- Muscato, Orazio Simple wave solutions for a radiation-dominated magnetofluid. 91b:76078
- Nowotny, Ekkehard *see* Anderson, James L., 91b:82054
- Olson, Timothy S. (with Hiscock, William A.) Plane steady shock waves in Israel-Stewart fluids. 91m:83053
- Orlov, Yu. N. Equations in hydrodynamics in post-Galilean approximation. (Russian) 91c:76009
- Palumbo, A. *see* Giambò, S., 91c:83024
- Raju, C. K. Distributional matter tensors in relativity. 91b:83045
- Ristig, M. L. The structure of quantum fluids. 91b:81196
- Russo, Giovanni Some remarks on the stability of shock waves. (Italian summary) 91m:76066
- Stephani, Hans *see* Grosso, Roberto, 91d:83053
- Wang, Yong Jin (with Guo, Hong Jun) Magnetohydrodynamic equations in general relativity and their solutions. (Chinese) 91c:83066

76Zxx Biological fluid mechanics [see also 92Cxx]

76Z05 Physiological flows [see also 92C35]

- Batra, R. L. (with Jena, Bigyani) Entrance region flow of blood in concentric annulus. (Not in MR)
- Cassot, F. (with Morvan, D.; Tonietto, G.) Unsteady flow through prosthetic heart valves: an integral approach coupled with a vortex method. (see 91b:00042)
- Jena, Bigyani *see* Batra, R. L., (Not in MR)
- Lia, Zhao Rong *see* Xu, Shi Xiong; et al., 91b:76116
- Morvan, D. *see* Cassot, F.; et al., 91b:00042
- Regier, S. A. (with Shadrina, N. Kh.) Blood flow in a muscle capillary cell. Two-dimensional effects. 91b:76115
- Shadrina, N. Kh. *see* Regier, S. A., 91b:76115
- Shen, M. C. *see* Tang, Della, (Not in MR)

- Tang, Dalia (with Shen, M. C.) Numerical and asymptotic solutions for the peristaltic transport of a heat-conducting fluid. (Not in MR)
 Tomietto, G. see Cassot, F.; et al., 91b:00042
 Xu, Shi Xiong (with Zhang, Xiao Dong; Liu, Zhao Rong) Pulsatile blood flow through a viscoelastic-tethered tube of mild varying cross-section. 91b:76116
 Zhang, Xiao Dong? see Xu, Shi Xiong; et al., 91b:76116

Items with secondary classifications in 76Z05

- Chen, Yao Song see Zou, Qisu, (Not in MR)
 Debnath, Lokenath see Ghosh, A. K.; et al., 91g:76094
 Dhar, H. (with Nanda, K. D.) Induced flow due to normal oscillation of a wavy wall. 91a:76028
 Edissonov, I. see Petrov, V. G., (Not in MR)
 Ghosh, A. K. (with Khan, A. R.; Debnath, Lokenath) On a pulsatile flow of a two-phase viscous fluid in a tube of elliptic cross-section. 91g:76094
 Jensen, O. E. Instabilities of flow in a collapsed tube. 91j:76034
 Khan, A. R. see Ghosh, A. K.; et al., 91g:76094
 Lee, George C. see Wu, Shi Gul, 91g:72010
 Moodie, T. Bryant (with Swaters, Gordon E.) Nonlinear waves and shock calculations for hyperelastic fluid-filled tubes. 91d:76012
 Nanda, K. D. see Dhar, H., 91a:76028
 Peskin, Charles S. see Sastry, James, 91a:53006
 Petrov, V. G. (with Edissonov, I.) Nonlinear dynamic model with concentrated parameters of flow rate and pressure in an elastic porous reservoir of the type of aorta. (Not in MR)
 Rathmayer, A. P. The viscous flow through symmetric collapsible channels. 91e:73096
 Sneyd, James (with Peskin, Charles S.) Computation of geodesic trajectories on tubular surfaces. 91e:53006
 Swaters, Gordon E. see Moodie, T. Bryant, 91d:76012
 Wu, Shi Gul (with Lee, George C.) Theoretical and computational investigations of nonlinear wave propagations in arteries. I. A theoretical model of nonlinear pulse wave propagations. 91g:72010
 Zou, Qisu (with Chen, Yao Song) Nonaxisymmetric wave propagation through a viscous fluid in a viscoelastic tube. (Not in MR)

76Z10 Biopropulsion in water and in air

- Chwang, Allen T. (with Hwang, Wei-Shien) Rotation of a torus. 91c:76130
 Fujishiro, Issei (with Ikebe, Yasuhiko; Harashima, Akira; Watanabe, Masataka) A note on cyclic reduction Poisson solvers with application to bioconvective phenomena problems. 91a:76092
 Harashima, Akira see Fujishiro, Issei; et al., 91a:76092
 Hwang, Wei-Shien see Chwang, Allen T., 91c:76130
 Ikebe, Yasuhiko see Fujishiro, Issei; et al., 91a:76092
 Kessler, J. O. see Pedley, T. J., 91b:76117
 Litvinsev, A. I. Control of the motion of actively bending physical bodies in a frictionless channel. 91e:76119
 Pedley, T. J. (with Kessler, J. O.) A new continuum model for suspensions of gyrotactic micro-organisms. 91b:76117
 Urbach, H. P. On optimum propulsion by means of small periodic motions of a rigid profile. I. Properties of optimum motions. 91m:76130
 — On optimum propulsion by means of small periodic motions of a rigid profile. II. Optimization of the period and numerical results. 91m:76131
 Watanabe, Masataka see Fujishiro, Issei; et al., 91a:76092

Items with secondary classifications in 76Z10

- Pukhnachev, V. V. Stokes approximation in a problem of the flow around a self-propelled body. (Russian) 91e:76013
 Semitskii, V. L. Self-propulsion of a body in a fluid. 91k:76033
 Wilczek, Frank Gauge theory of deformable bodies. 91g:58090

76Z99 None of the above, but in this section

Items with secondary classifications in 76Z99

- Bell, Jonathan (with Friedman, Avner; Lacey, Andrew A.) On solutions to a quasi-linear diffusion problem from the study of soft tissue. 91k:35131
 Friedman, Avner see Bell, Jonathan; et al., 91k:35131
 Lacey, Andrew A. see Bell, Jonathan; et al., 91k:35131
 Maxian, Tina A. see Spilker, Robert L., 91f:73031
 Spilker, Robert L. (with Maxian, Tina A.) A mixed-penalty finite element formulation of the linear biphasic theory for soft tissues. 91f:73031

78-XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

- Items with secondary classifications in 78-00
 Cho, Soon K. ★ Electromagnetic scattering. 91h:78010

78-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Kovetz, Attay ★ The principles of electromagnetic theory. 91f:78001
 Items with secondary classifications in 78-01
 (Amson, John C.) see Dautray, Robert, 91h:00004a
 (Artola, Michel) see Dautray, Robert, 91h:00004a
 (Cessenat, Michel) see Dautray, Robert, 91h:00004a
 Crawford, Frank S. Elementary examples of adiabatic invariance. 91a:70001
 Dautray, Robert (with Lions, Jacques-Louis) ★ Mathematical analysis and numerical methods for science and technology. Vol. 3. 91h:00004a
 Landau, L. D. (with Lifshits, E. M.) ★ Теоретическая физика. Том II. (Russian) [Theoretical physics. Vol. II] 91a:00002
 Lifshits, E. M. see Landau, L. D., 91a:00002
 Lions, Jacques-Louis see Dautray, Robert, 91h:00004a
 (Pitaevskii, L. P.) see Landau, L. D., 91a:00002
 Schmutzer, Ernst ★ Grundlagen der Theoretischen Physik. Teil I. (German) [Foundations of theoretical physics. Part I] 91h:00003a
 Tiensten, Harry F. ★ A development of the equations of electromagnetism in material continua. 91e:78012

78-02 Research exposition (monographs, survey articles)

- Botka, B. B. (with Petrov, N. S.) ★ Отражение света от усиливающих и нелинейных сред. (Russian) [Reflection of light from amplifying and nonlinear media] 91b:78001
 Petrov, N. S. see Botka, B. B., 91b:78001
 Items with secondary classifications in 78-02
 Cadilhac, M. see Petit, R., 91e:78027 and (Not in MR)
 Moloney, Jerome V. (with Newell, Alan C.) Nonlinear optics. (Not in MR)
 Newell, Alan C. see Moloney, Jerome V., (Not in MR)
 Petit, R. (with Cadilhac, M.) Electromagnetic theory of gratings: some advances and some comments on the use of the operator formalism. 91e:78027
 — (with Cadilhac, M.) Errata: "Electromagnetic theory of gratings: some advances and some comments on the use of the operator formalism" [J. Opt. Soc. Amer. A 7 (1990), no. 9, 1666-1674; MR 91c:78027]. (Not in MR)
 Rubinstein, Isaac ★ Electro-diffusion of ions. 91m:78019

78-03 Historical (must also be assigned at least one classification number from Section 01)

- Jordan, D. W. The magnetic circuit model, 1850-1890: the resisted flow image in magnetostatics. 91c:78001
 Yang, Chen Ning Maxwell's equations, vector potential and connections on fiber bundles. (see 91f:00016)

Items with secondary classifications in 78-03

- (Bolotovskii, B. M.) see Maxwell, James Clerk, 91i:01144
 (Burshtein, I. L.) see Maxwell, James Clerk, 91i:01144
 (Crémieu, Victor) see Indorato, Luigi, 91a:01033
 D'Agostino, S. Pourquoi Hertz et non pas Maxwell, a-t-il découvert les ondes électriques? [Why did Hertz discover electric waves, and not Maxwell?] 91b:01040
 (Hertz, Heinrich) see D'Agostino, S., 91b:01040
 (Huygens, Christiaan) see Shapiro, A. E., 91c:01024
 Indorato, Luigi (with Masotto, Guido) Poincaré's role in the Crémieu-Pender controversy over electric convection. 91a:01033
 Kiselev, O. M. Studies of the nonequilibrium flows of radiating gas and plasma. (Russian) (see 91i:01139)
 (Levin, M. L.) see Maxwell, James Clerk, 91i:01144
 Masotto, Guido see Indorato, Luigi, 91a:01033
 Maxwell, James Clerk ★ ТРАКТАТ ОБ ЭЛЕКТРИЧЕСТВЕ И МАГНЕТИЗМЕ. Том I, II. (Russian) [A treatise on electricity and magnetism. Vol. I, II] 91i:01144
 — see also D'Agostino, S., 91b:01040
 (Miller, M. A.) see Maxwell, James Clerk, 91i:01144
 (Newton, Isaac) see Shapiro, A. E., 91c:01024
 (Pender, Harold) see Indorato, Luigi, 91a:01033
 (Poincaré, Henri) see Indorato, Luigi, 91a:01033
 Shapiro, A. E. Huygens' *Traité de la lumière* and Newton's *Opticks*: pursuing and eschewing hypotheses. 91c:01024
 (Suvorov, E. V.) see Maxwell, James Clerk, 91i:01144
 (van der Waals, J. H.) see Shapiro, A. E., 91c:01024

78-04 Explicit machine computation and programs (not the theory of computation or programming)

- Riccò, B. see Sangiorgi, E.; et al., (91m:65003)
 Sangiorgi, E. (with Venturi, F.; Riccò, B.) Parallel and vector algorithms for Monte Carlo simulation of semiconductor devices. (see 91m:65003)
 Venturi, F. see Sangiorgi, E.; et al., (91m:65003)

Items with secondary classifications in 78-04

- Čiegis, Raimondas (with Norvaišas, Saulius; Kairytė, Genė) Numerical solution of a stationary problem in nonlinear optics. (Russian. English and Lithuanian summaries) 91j:78006
 Kairytė, Genė see Čiegis, Raimondas; et al., 91j:78006
 Kreider, Kevin L. Time dependent direct and inverse electromagnetic scattering for the dispersive cylinder. 91b:78015
 Natzke, John R. see Senior, Thomas B. A.; et al., 91c:78022
 Norvaišas, Saulius see Čiegis, Raimondas; et al., 91j:78006
 Sarabandi, Kamal see Senior, Thomas B. A.; et al., 91c:78022

- Senior, Thomas B. A. (with Sarabandi, Kamal; Natzke, John R.) Scattering by a narrow gap. 91c:78022
- Strizhkov, V. A. Analysis of transitional electromagnetic processes in wire antenna systems. 91a:78015
- Sveshnikov, V. M. (with Syrovov, V. A.) Numerical calculation of beams of charged particles by the method of iterations over subdomains. (Russian) 91m:78010
- Syrovov, V. A. *see* Sveshnikov, V. M., 91m:78010

78-05 Experimental papers

Items with secondary classifications in 78-05

- Arecchi, F. T. Instabilities and chaos in lasers: introduction to hyperchaos. (see 91e:82002)

78-06 Proceedings, conferences, collections, etc.

- (Wolf, Kurt Bernardo) *see* Lie methods in optics, 91a:78001

Items listed otherwise than by author

- Cocycoc ★ Lie methods in optics. II. 91a:78001
- Lecture Notes in Physics ★ Lie methods in optics. II. 91a:78001
- Lie methods in optics ★ Lie methods in optics. II. 91a:78001
- Workshop:
Lie Methods in Optics ★ Lie methods in optics. II. 91a:78001

Items with secondary classifications in 78-06

- (Brebba, C. A.) *see* Advances in boundary elements, 91f:00015
- (Connor, J. J.) *see* Advances in boundary elements, 91f:00015

Items listed otherwise than by author

- Advances in boundary elements ★ Advances in boundary elements. Vol. 2. 91f:00015
- Cambridge, MA ★ Advances in boundary elements. Vol. 2. 91f:00015
- Conference:
Boundary Element Methods ★ Advances in boundary elements. Vol. 2. 91f:00015

78-08 Computational methods

- Airyán, E. A. (with Zhidkov, E. P.; Fedorov, A. V.; Khoromskii, B. N.; Shelaev, I. A.; Yudin, I. P.; Yuldashev, O. I.) Numerical algorithms for the calculation of magnet systems for charged-particle accelerators. 91e:78001
- Bossavit, A. On nonlinear magnetostatics: dual-complementary models and "mixed" numerical methods. 91g:78001
- Bulavskii, Yu. V. (with Kalinina, T. L.) Solution of problems of the diffraction of electromagnetic waves by the Monte Carlo method. (Russian) (see 91g:65009)
- Bykov, A. A. (with Sveshnikov, A. G.; Trubetskov, M. K.) Application of the incomplete Galerkin method for solving problems of the diffraction of electromagnetic waves by a nonhomogeneous cylinder. (Russian) 91e:78002
- Dzhetybaev, E. O. Separation of the δ -anisotropy-scattering in the Monte Carlo solution of the transfer equation. 91e:78002
- Elkin, N. N. Diffraction eigenmode calculation in an unstable optical resonator with a gain medium. (Russian. English summary) (Not in MR)
- Fedorov, A. V. *see* Airyan, E. A.; et al., 91e:78001
- Fitzsimons, Conor J. (with Miller, John J. H.; Wang, Song; Wu, Chang Hui) Hexahedral finite elements for the stationary semiconductor device equations. 91f:78001
- Galanin, M. P. (with Mukhin, S. I.; Popov, Yu. P.) Calculation of two-dimensional quasistationary electromagnetic fields in domains with extremely inhomogeneous electrophysical properties. (Russian) 91h:78001
- Gasparyan, M. S. (with Shchukina, N. M.) A method for solving nonstationary problems of radiation passage in media with two-photon resonance. (Russian. Armenian summary) (see 91g:00028)
- Greengard, Leslie (with Gropp, William D.) A parallel version of the fast multipole method. 91e:78003
- Gropp, William D. *see* Greengard, Leslie, 91e:78003
- Hammond, Peter *see* Robertson, S. A.; et al., 91e:78005
- Hariharan, S. I. *see* Lee, Min Elg; et al., 91h:78001
- Hrdina, Jiří Parallelization of computation of derivatives in thin-film systems. 91h:78002
- Husak, D. (with MacCamy, Richard C.) Variational methods for eddy current problems. (see 91h:00042)
- Ida, Nathan *see* Lee, Min Elg; et al., 91h:78001
- Kalinina, T. L. *see* Bulavskii, Yu. V., (91g:65009)
- Karamzin, Yu. N. *see* Zakharova, I. G.; et al., 91j:78005
- Khoromskii, B. N. *see* Airyan, E. A.; et al., 91e:78001
- Kitahara, N. (with Yamane, S.; Yano, Hideo) Approximate solutions for axisymmetric exterior-field problems by the combined scheme of finite elements and finite differences. 91m:78001
- Korunov, V. V. Analysis of reflection gratings with a multilayered dielectric coating. (Not in MR)
- Kravchenko, V. F. (with Rvachev, V. L.; Sheiko, T. I.) A method for constructing new structures of solution of exterior problems of electrodynamics for domains of complex form. 91e:78004
- Kuznetsov, S. B. Method of domain decomposition in 3-D problems of magnetostatics. (see 91h:00050)
- Lee, Min Elg (with Hariharan, S. I.; Ida, Nathan) Solving time-dependent two-dimensional eddy current problems. 91h:78001
- Lee, Robert L. (with Madsen, Niel K.) A mixed finite element formulation for Maxwell's equations in the time domain. 91c:78002
- MacCamy, Richard C. *see* Husak, D., (91h:00042)
- Madsen, Niel K. *see* Lee, Robert L., 91c:78002
- Marini, Luisa Donatella (with Pietra, Paola) New mixed finite element schemes for current continuity equations. 91m:78002

- Mason, John C. (with Wilde, S. J.) A complex minimax algorithm for phase-only adaptation in antenna arrays. (see 91e:65003)
- Miller, John J. H. *see* Fitzsimons, Conor J.; et al., 91j:78001
- Mukhin, S. I. *see* Galanin, M. P.; et al., 91h:78001
- Onuki, Takashi (with Wakao, Shinji) Hybrid boundary element and finite element analysis of three-dimensional electromagnetic problems. (Japanese) 91j:78002
- Pietra, Paola *see* Marini, Luisa Donatella, 91m:78002
- Pozd, A. D. (with Yakunin, S. A.) Discrete nonstationary radiation conditions for cylindrical systems. A convergence theorem. (Russian) 91j:78003
- Popov, Yu. P. *see* Galanin, M. P.; et al., 91h:78001
- Roberts, Thomas W. The behavior of flux difference splitting schemes near slowly moving shock waves. (Not in MR)
- Robertson, S. A. (with Romero Fuster, Maria del Carmen; Hammond, Peter) Error estimates of Maxwell bounds for the resistance of a conductor. (Portuguese summary) 91e:78005
- Romero Fuster, Maria del Carmen *see* Robertson, S. A.; et al., 91e:78005
- Rvachev, V. L. *see* Kravchenko, V. F.; et al., 91e:78004
- Shchukina, N. M. *see* Gasparyan, M. S., (91g:00028)
- Sheiko, T. I. *see* Kravchenko, V. F.; et al., 91e:78004
- Shelaev, I. A. *see* Airyan, E. A.; et al., 91e:78001
- Shen, C. Y. Application of the discrete Fourier transform method to nonorthogonal dihedral reflectors. 91j:78004
- Sigeti, G. An algorithm for the calculation of the Green tensor of the Maxwell equation in a stratified medium. (Russian) 91a:78002
- Sveshnikov, A. G. *see* Bykov, A. A.; et al., 91e:78002
- Trofimov, V. A. *see* Zakharova, I. G.; et al., 91j:78005
- Trubetskov, M. K. *see* Bykov, A. A.; et al., 91e:78002
- Tsukerman, I. A. Error estimation for finite element solutions of the eddy currents problem. 91c:78003
- Wakao, Shinji *see* Onuki, Takashi, 91j:78002
- Wang, Song *see* Fitzsimons, Conor J.; et al., 91j:78001
- Wilde, S. J. *see* Mason, John C., (91e:65003)
- Wu, Chang Hui *see* Fitzsimons, Conor J.; et al., 91j:78001
- Yakunin, S. A. *see* Pozd, A. D., 91j:78003
- Yamane, S. *see* Kitahara, N.; et al., 91m:78001
- Yano, Hideo *see* Kitahara, N.; et al., 91m:78001
- Yudin, I. P. *see* Airyan, E. A.; et al., 91e:78001
- Yuldashev, O. I. *see* Airyan, E. A.; et al., 91e:78001
- Zakharova, I. G. (with Karamzin, Yu. N.; Trofimov, V. A.) Convergence of numerical methods for problems of thermal self-action of light pulses. (Russian) 91j:78005
- Zhidkov, E. P. *see* Airyan, E. A.; et al., 91e:78001
- Items with secondary classifications in 78-08
- Arvas, Ercument *see* Ponnappalli, Salla; et al., 91j:65062
- Bamberger, Alain (with Cockburn, Bernardo; Goldman, Y.; Kern, Michel; Joly, Patrick) Numerical solution of Maxwell's equations in a conductive and polarizable medium. 91d:86013
- van den Berg, P. M. *see* Kleinman, R. E.; et al., 91a:65250
- (Brebba, C. A.) *see* Boundary elements X, 91h:00042
- Brezzi, Franco (with Marini, Luisa Donatella; Pietra, Paola) Numerical simulation of semiconductor devices. 91h:78023
- Čiegis, Raimondas Numerical modeling of the interaction of focused counterpropagating laser beams. (Russian. English and Lithuanian summaries) 91m:65019
- Cockburn, Bernardo *see* Bamberger, Alain; et al., 91d:86013
- Goldman, Y. *see* Bamberger, Alain; et al., 91d:86013
- Greguš, Michal (with Khoromskii, B. N.; Mazurkevich, G. E.; Zhidkov, E. P.) On approximation of nonlinear boundary integral equations for the combined method. (see 91f:00015)
- Grounds, Preston W. *see* Webb, Kevin J.; et al., 91h:78020
- Jancowicz, Bernard Electromagnetic fields for sources with a priori given time dependence. 91e:78008
- Joly, Patrick *see* Bamberger, Alain; et al., 91d:86013
- Kern, Michel *see* Bamberger, Alain; et al., 91d:86013
- Khoromskii, B. N. *see* Greguš, Michal; et al., (91f:00015)
- Kleinman, R. E. (with Roach, G. F.; Schuetz, L. S.; Shiron, J.; van den Berg, P. M.) An over-relaxation method for the iterative solution of integral equations in scattering problems. 91a:65250
- Kurki-Suonio, T. (with Tajima, T.) Transport model of optical beams in a plasma. (Not in MR)
- Marini, Luisa Donatella *see* Brezzi, Franco; et al., 91h:78023
- Mazurkevich, G. E. *see* Greguš, Michal; et al., (91f:00015)
- Mitra, Raj *see* Webb, Kevin J.; et al., 91h:78020
- Moses, Harry E. (with Prosser, Reese T.) The general solution of the time-dependent Maxwell's equations in an infinite medium with constant conductivity. 91h:78006
- Pietra, Paola *see* Brezzi, Franco; et al., 91h:78023
- Pomphrey, N. *see* Reisman, A. H., (Not in MR)
- Ponnappalli, Salla (with Sarkar, Tapan K.; Arvas, Ercument) Application of conjugate gradient method and FFT to electromagnetics and signal processing problems. 91j:65062
- Prosser, Reese T. *see* Moses, Harry E., 91h:78006
- Reisman, A. H. (with Pomphrey, N.) Computation of magnetic coordinates and action-angle variables. (Not in MR)
- Roach, G. F. *see* Kleinman, R. E.; et al., 91a:65250
- Sarkar, Tapan K. *see* Ponnappalli, Salla; et al., 91j:65062
- Schuetz, L. S. *see* Kleinman, R. E.; et al., 91a:65250
- Shiron, J. *see* Kleinman, R. E.; et al., 91a:65250
- Smith, Paul Denis Stable numerical methods for integral equations governing the scattering of transients. 91f:65212
- Tajima, T. *see* Kurki-Suonio, T., (Not in MR)
- Webb, Kevin J. (with Grounds, Preston W.; Mitra, Raj) Convergence in the spectral domain formulation of waveguide and scattering problems. 91h:78020

Wick, Joachim A point method for a semi-conductor equation. 91j:65190
 Zhidkov, E. P. *see* Gregui, Michal; et al., (91f:00015)

Items listed otherwise than by author

Boundary elements X ★ Boundary elements X. Vol. 2. 91b:00042

Conference:

Boundary Element Methods ★ Boundary elements X. Vol. 2. 91b:00042

Southampton ★ Boundary elements X. Vol. 2. 91b:00042

78A02 Foundations

Items with secondary classifications in 78A02

Bampi, Franco (with Zordan, Clara) A phenomenological approach to Maxwell equations. (Italian summary) (Not in MR)

Zordan, Clara *see* Bampi, Franco, (Not in MR)

78A05 Geometric optics

Babich, V. M. (with Popov, M. M.) The method of summing Gaussian beams (a survey). 91c:78004

Borovikov, V. A. The region of formation of the field and Fresnel volumes. 91h:78002
 Čiegis, Raimondas (with Norvaišas, Saulius; Kairytė, Genė) Numerical solution of a stationary problem in nonlinear optics. (Russian. English and Lithuanian summaries) 91j:78006

Firby, P. A. (with Hubbard, S. J.) Moiré separations. 91j:78007

Frank, Alejandro (with Leyvraz, François; Wolf, Kurt Bernardo) Hidden symmetry and potential group of the Maxwell fish-eye. 91h:78001

Hubbard, S. J. *see* Firby, P. A., 91j:78007

Kairytė, Genė *see* Čiegis, Raimondas; et al., 91j:78006

Kauderer, Mark First-order systems: duality and completeness. 91h:78003

Kucherenko, V. V. (with Popov, V. A.; Romashkin, M. V.) Calculation of the point scattering function of optical systems by Maslov's method. 91a:78003

Leyvraz, François *see* Frank, Alejandro; et al., 91h:78001

Norvaišas, Saulius *see* Čiegis, Raimondas; et al., 91j:78006

Popov, M. M. *see* Babich, V. M., 91c:78004

Popov, V. A. *see* Kucherenko, V. V.; et al., 91a:78003

Romashkin, M. V. *see* Kucherenko, V. V.; et al., 91a:78003

Wolf, Kurt Bernardo *see* Frank, Alejandro; et al., 91h:78001

Items with secondary classifications in 78A05

Berger, Marcel Sur les caustiques de surfaces en dimension 3. (English summary) [On the caustics of surfaces in dimension 3] 91h:58007

Cates, A. T. (with Crighton, D. G.) Nonlinear diffraction and caustic formation. 91k:58144

Chillingworth, David R. (with Danesh-Narui, G.; Westcott, Bryan S.) On ray-tracing via caustic geometry. 91d:58019

Crighton, D. G. *see* Cates, A. T., 91h:58144

Danesh-Narui, G. *see* Chillingworth, David R.; et al., 91d:58019

Janczko, Stanisław Generalized Luneburg canonical varieties and vector fields on quasicusca. 91k:58012

Longuet-Higgins, Michael S. Ray paths and caustics on a slightly oblate ellipsoid. 91d:58022

Mijatović, Mijat (with Trenčevski, Kostadin) Caustics of classical particle scattering. 91h:70011

Monzon, J. Cesar On the application of the Sommerfeld representation in a two-dimensional rotationally invariant anisotropic medium. 91e:78026

Torres del Castillo, G. F. Symplectic structures in mathematical physics. (Spanish. English summary) 91a:58067

Trenčevski, Kostadin *see* Mijatović, Mijat, 91h:70011

Westcott, Bryan S. *see* Chillingworth, David R.; et al., 91d:58019

78A10 Physical optics

Cai, Zhen Xiang (with Jin, Guo Fan; Wu, Min Xian) Discussion on the image formation formula with monochromatic illumination. (Chinese. English summary) (Not in MR)

Dogil, B. P. Mathematical models of inner-resonator transformation of frequencies in nonlinear optics and their realization on a computer. (Russian) 91j:78008

Jin, Guo Fan *see* Cai, Zhen Xiang; et al., (Not in MR)

Man'ko, V. I. (with Wolf, Kurt Bernardo) The map between Heisenberg-Weyl and Euclidean optics is comatic. (see 91a:78001)

Treftmeyer, V. A. Some invariants of opposite nonlinear interaction of light pulses. (Russian) (Not in MR)

Wolf, Kurt Bernardo Elements of Euclidean optics. (see 91a:78001)

— *see also* Man'ko, V. I., (91a:78001)

Wu, Min Xian *see* Cai, Zhen Xiang; et al., (Not in MR)

Items with secondary classifications in 78A10

Berry, M. V. Budden & Smith's "additional memory" and the geometric phase. 91m:81055

Dodonov, V. V. (with Man'ko, V. I.) Universal invariants of quantum systems and generalized uncertainty relations. 91h:81198

Groetsch, C. W. Remarks on some iterative methods for an integral equation in Fourier optics. 91j:45002

Kauderer, Mark Fourier-optics approach to the symplectic group. 91h:22020

Man'ko, V. I. *see* Dodonov, V. V., 91h:81198

Müller, Thomas ★ Verallgemeinerte Airyfunktionen. (German) [Generalized Airy functions] 91c:35013

Morris, J. L. *see* Pathria, D., 91d:35204

Pathria, D. (with Morris, J. L.) Pseudo-spectral solution of nonlinear Schrödinger equations. 91d:35204

Samokhin, A. B. (with Tsvetkov, S. V.) Asymptotic differential conditions of radiation for three-dimensional diffraction problems. 91k:78009

Tsvetkov, S. V. *see* Samokhin, A. B., 91k:78009

78A15 Electron optics

Items with secondary classifications in 78A15

Brillinger, David R. (with Downing, Kenneth H.; Glaeser, Robert M.) Some statistical aspects of low-dose electron imaging of crystals. 91h:62090

Downing, Kenneth H. *see* Brillinger, David R.; et al., 91h:62090

Glaeser, Robert M. *see* Brillinger, David R.; et al., 91h:62090

Kuehl, H. H. (with Zhang, C. Y.) Effects of higher-order dispersion on envelope solitons. 91d:76087

Zhang, C. Y. *see* Kuehl, H. H., 91d:76087

78A20 Space charge waves

Budd, Chris J. (with Friedman, Avner; McLeod, Bryce; Wheeler, Adam A.) The space charge problem. 91b:78004

Friedman, Avner *see* Budd, Chris J.; et al., 91b:78004

McLeod, Bryce *see* Budd, Chris J.; et al., 91b:78004

Wheeler, Adam A. *see* Budd, Chris J.; et al., 91b:78004

Items with secondary classifications in 78A20

Chernikov, Aleksandr Antonovich *see* Zaslavskii, G. M.; et al., 91m:58109

Neishtadt, A. I. *see* Zaslavskii, G. M.; et al., 91m:58109

Sagdeev, R. Z. *see* Zaslavskii, G. M.; et al., 91m:58109

Usikov, D. A. *see* Zaslavskii, G. M.; et al., 91m:58109

Zakharov, M. Yu. *see* Zaslavskii, G. M.; et al., 91m:58109

Zaslavskii, G. M. (with Zakharov, M. Yu.; Neishtadt, A. I.; Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) Multidimensional Hamiltonian chaos. 91m:58109

78A25 Electromagnetic theory, general

Anderson, Norman (with Arthurs, A. M.) Duality transformation and invariants of the electromagnetic field. 91e:78006

Arthurs, A. M. *see* Anderson, Norman, 91e:78006

Artola, Michel (with Cessenat, Michel) Un problème raide avec homogénéisation en électromagnétisme. (English summary) [A stiff problem with homogenization in electromagnetic waves theory] 91h:78003

— (with Cessenat, Michel) Sur la propagation des ondes électromagnétiques dans un milieu composite (diélectrique-conducteur). (English summary) [Electromagnetic wave propagation in a composite (dielectric-conductor) medium] 91h:78004

— (with Cessenat, Michel) Quelques extensions de résultats d'homogénéisation en électromagnétisme. (English summary) [Some extensions of homogenized results in electromagnetism] 91m:78003

Bampi, Franco (with Zordan, Clara) A phenomenological approach to Maxwell equations. (Italian summary) (Not in MR)

Bildhauser, Stefan Transport equations for polarized light and Berry's phase. 91m:78004

Cessenat, Michel *see* Artola, Michel, 91h:78003; 91h:78004 and 91m:78003

Chen, Qiang Shun (with Feng, Cheng Tian) A mathematical form of the system of Maxwell's equations defining the conservation law of electric charge. (Chinese. English summary) 91c:78005

Fan, Xiu Hua *see* Zhuang, Qi Jia; et al., (Not in MR)

Farina de Souza, Carlos *see* Valdy, Arvind Narayan, 91m:78006

Feng, Cheng Tian *see* Chen, Qiang Shun, 91c:78005

Fryberger, David A reply to: "A comment on generalized electromagnetism and Dirac algebra" [Found. Phys. Lett. 3 (1990), no. 1, 95-99; MR 91i:81106] by W. A. Rodrigues. 91m:78005

Fugmann, W. *see* Kretschmar, Martin, 91h:78006

Grünbaum, F. Alberto Trying to beat Heisenberg. 91k:78002

Hanouzet, Bernard (with Sesques, Muriel) Influence des termes de courbure dans les conditions aux limites artificielles pour les équations de Maxwell. (English summary) [Effect of curvature terms on artificial boundary conditions for the Maxwell system] 91h:78002

Hartemann, F. (with Toffano, Z.) Relativistic electrodynamics of continuous media. 91g:78003

Heras, José A. A short proof of the generalized Helmholtz theorem. 91e:78007

Herdegen, Andrzej Closed electrodynamics of a point-like current. 91a:78004

Janczewicz, Bernard Electromagnetic fields for sources with a priori given time dependence. 91h:78008

— Trivector Fourier transformation and electromagnetic field. 91k:78003

Katsenelenbaum, B. Z. (with Shalukhin, M. Yu.) On the impossibility of approximating an arbitrary field by the field of a current flowing in an open surface or curve. 91j:78009

Kress, Rainer On an ill-posed problem for constant alpha force-free fields. 91h:78005

Kretschmar, Martin (with Fugmann, W.) The electromagnetic field of an accelerated charge in the proper reference frame of a noninertial observer. (Italian and Russian summaries) 91h:78006

Kudryavtsev, B. A. *see* Zobnin, A. I.; et al., 91h:78003

Kurochkin, Yu. A. (with Tolkachev, E. A.) Duality transformations of Galilei-invariant electrodynamics and three types of biquaternions. (Russian. English summary) 91k:78004

Lagno, V. I. *see* Zhdanov, R. Z.; et al., 91c:78008

Laptev, G. I. Conditions for the solvability of a problem on the diffusion of a magnetic field in matter taking into account the heating of the body. (Russian) (see 91k:00025)

Lazzari, Barbara (with Vuk, Elena) On the asymptotic behavior of electromagnetic energy in a linear dielectric material. (Italian. English summary) 91c:78006

Lewis, H. Ralph Representation of magnetic fields with toroidal topology in terms of field-line invariants. 91k:78005

L'vovich, A. Yu. On the structure of two forms of Lagrange-Maxwell equations. (Russian. English summary) 91c:78009

- Meshkov, A. G. Group analysis of equations of nonlinear electrodynamics. 91g:78004
- Mestel, A. J. More accurate skin-depth approximations. 91e:78010
- Moses, Harry E. (with Prosser, Reese T.) The general solution of the time-dependent Maxwell's equations in an infinite medium with constant conductivity. 91k:78006
- Mukherjee, Manash (with Tucker, R. W.) Radiative solutions for a rapidly rotating magnetized sphere. 91b:78007
- Parinov, M. A. *see* Zaitsev, G. A., (91b:34004)
- Parton, V. Z. *see* Zobnin, A. I.; et al., 91k:78003
- Prosser, Reese T. *see* Moses, Harry E., 91k:78006
- Rahada, Antonio F. A topological theory of the electromagnetic field. 91e:78011
- Revenko, I. V. (with Timoshenko, A. Z.) Symmetry properties of the Lorentz equation. (Russian) 91c:78007
- *see also* Zhdanov, R. Z.; et al., 91h:78006
- (Rodrigues, Waldyr A., Jr.) *see* Fryberger, David, 91m:78005
- Sakhaev, Sh. S. Problems of steady oscillations in electrodynamics. (Russian) (*see* 91k:50020)
- Sesquis, Muriel *see* Hanouzet, Bernard, 91f:78002
- Shalakhin, M. Yu. *see* Katsenelenbaum, B. Z., 91j:78009
- Smali, V. F. *see* Zhdanov, R. Z.; et al., 91c:78008 and 91h:78006
- Stephan, Paul Fokker-Wheeler-Feynman interactions without integrals. 91h:78008
- Tiersten, Harry F. ★ A development of the equations of electromagnetism in material continua. 91e:78012
- Timoshenko, A. Z. *see* Revenko, I. V., 91c:78007
- Toffano, Z. *see* Hartmann, F., 91g:78003
- Tolkachev, E. A. *see* Kurochkin, Yu. A., 91k:78004
- Tucker, R. W. *see* Mukherjee, Manash, 91b:78007
- Valdya, Arvind Narayan (with Farina de Souza, Carlos) Can Galilean mechanics and full Maxwell equations coexist peacefully? 91m:78006
- Vak, Elena *see* Lazzari, Barbara, 91c:78006
- Weck, Norbert (with Witsch, Karl J.) Low-frequency asymptotics for dissipative Maxwell's equations in bounded domains. 91h:78005
- Wilhelm, H. E. Covariant electrodynamics in vacuum. 91e:78013
- Witsch, Karl J. *see* Weck, Norbert, 91h:78005
- Zaitsev, G. A. (with Parinov, M. A.) On a group defined by a nondegenerate tensor of an electromagnetic field. (Russian) (*see* 91b:34004)
- Zhang, Kong Hui *see* Zhuang, Qi Jia; et al., (Not in MR)
- Zhdanov, R. Z. (with Revenko, I. V.; Smali, V. F.) Reduction and exact solutions of Maxwell's equations in vacuum. (Russian) 91h:78006
- (with Smali, V. F.; Lagno, V. I.) Poincaré-invariant ansätze for the Maxwell field. (Russian. English summary) 91c:78008
- Zhuang, Qi Jia (with Fan, Xiu Hua; Zhang, Kong Hui) Nonlinear superpositions of the energy of electric charge and electric current systems. (Chinese. English summary) (Not in MR)
- Zobnin, A. I. (with Kudryavtsev, B. A.; Parton, V. Z.) Maxwell equations for an inhomogeneous medium with a periodic structure. (Russian. Armenian summary) 91h:78003
- Zordan, Clara *see* Bampi, Franco, (Not in MR)
- Items with secondary classifications in 78A25
- Attouch, Hedy Homogénéisation. [Homogenization] 91m:49007
- Avellaneda, Marco Iterated homogenization and the effective properties of polycrystals. 91g:82056
- Bamberger, Alain (with Cockburn, Bernardo; Goldman, Y.; Kern, Michel; Joly, Patrick) Numerical solution of Maxwell's equations in a conductive and polarizable medium. 91d:56013
- Barut, Asim O. Renormalization and elimination of preacceleration and runaway solutions of the Lorentz-Dirac equation. 91c:81172
- Besieris, Ioannis M. *see* Shaarawi, Amr M.; et al., 91i:81016
- Birman, M. Sh. (with Solomyak, M. Z.) ★ The L_2 -theory of the Maxwell operator in domains with nonsmooth boundary. (*see* 91m:35005)
- (with Solomyak, M. Z.) The selfadjoint Maxwell operator in arbitrary domains. (Russian) 91c:35197
- Bogdanov, E. I. (with Deryugin, I. A.; Nagibarov, I. A.; Sinyuk, A. I.) The Maxwell-Lagrange system in solid state theory. (Russian. English summary) 91a:81228
- Boiko, B. B. (with Petrov, N. S.) ★ Отражение света от усиливающих и нелинейных сред. (Russian) [Reflection of light from amplifying and nonlinear media] 91b:78001
- Campolattaro, Alfonso A. Generalized Maxwell equations and quantum mechanics. I. Dirac equation for the free electron. 91f:81238
- Carrihena, José F. (with González, José A.; del Olmo, Mariano A.; Santander, Mariano) Invariant electromagnetic fields. 91m:50055
- Chao, H. C. M. The principle of asymptotic proportionality. 91c:73015
- Cimatti, Giovanni Existence of weak solutions for the space-charge problem. 91f:35074
- Ciric, I. R. *see* Cooray, M. F. R., 91k:33012
- Cockburn, Bernardo *see* Bamberger, Alain; et al., 91d:56013
- Cooray, M. F. R. (with Ciric, I. R.) Rotational-translational addition theorems for vector spheroidal wave functions. 91k:33012
- Crouzet, Michel (with Descloux, Jean) A bidimensional electromagnetic problem. 91d:35053
- Dascalu, Cristian Existence and uniqueness for Maxwell equations. 91c:35144
- Singular surfaces in the linear theory of thermoelectromagnetic rigid materials. 91k:73093
- Deryugin, I. A. *see* Bogdanov, E. I.; et al., 91a:81228
- Descloux, Jean *see* Crouzet, Michel, 91d:35053
- Duffin, R. J. The conductivity of checkerboards treated by conjugate functions. (Not in MR)
- Ferraris, Marco (with Francaviglia, Mauro; Tubiello, Francesco) Remarks on generally covariant Lagrangians for electromagnetism and G_2 -invariance. (Italian summary) 91g:58066
- Francaviglia, Mauro *see* Ferraris, Marco; et al., 91g:58066
- Friedman, Avner (with Vogelius, Michael) Identification of objects of extreme conductivity by boundary measurements. 91b:35108
- (with Vogelius, Michael) Determining cracks by boundary measurements. 91b:35109
- (Fryberger, David) *see* Rodrigues, Waldyr A., Jr., 91i:81106
- Fushchich, V. I. (with Shtelen, V. M.; Spichak, S. V.) On a connection between solutions of Dirac and Maxwell equations. Supersymmetry of the Dirac equation. (Russian. English summary) 91i:35166
- Goldman, Y. *see* Bamberger, Alain; et al., 91d:56013
- González, José A. *see* Carrihena, José F.; et al., 91m:50055
- Gureev, T. E. Exact asymptotics of the spectrum of the Maxwell operator in a filled resonator. (Not in MR)
- Gutman, Semion Alternating directions method for impedance computed tomography. 91a:35165
- Henneberger, Walter C. *see* Zhu, Xingshu, 91k:81213
- Herdegen, Andrzej Reduction of Maxwell equations in the compacted spin coefficient formalism and multipole fields. 91a:83048
- Hillion, Pierre Energy-momentum four-vector on a wavefront. 91m:83083
- Işcan, D. On uniqueness and continuous dependence in nonlinear thermodynamics of electromagnetic materials. 91d:73006
- Isakov, Victor (with Powell, Jeffrey) On the inverse conductivity problem with one measurement. 91c:35212a
- (with Powell, Jeffrey) Corrigendum: "On the inverse conductivity problem with one measurement". 91c:35212b
- Jancowicz, Bernard ★ Multivectors and Clifford algebra in electrodynamics. 91b:15031
- Jeziński, Jacek (with Kijowski, Jerzy) The localization of energy in gauge field theories and in linear gravitation. 91i:83006
- Joly, Patrick *see* Bamberger, Alain; et al., 91d:56013
- Kern, Michel *see* Bamberger, Alain; et al., 91d:56013
- Kilrnan, K. (with Rosenhaus, V.) From group to equation. The Maxwell equation. (Russian and Estonian summaries) 91d:58265
- (with Rosenhaus, V.) On invariance groups in gauge theories. (Russian and Estonian summaries) 91m:58172
- Kijowski, Jerzy *see* Jeziński, Jacek, 91i:83006
- Lee, C. R. The Feynman-Dyson proof of the gauge field equations. 91g:81082
- Maikov, A. R. (with Sveshnikov, A. G.; Yakunin, S. A.) Nonlocal radiation conditions for a nonstationary system of Maxwell equations. 91m:35224
- Maugin, Gérard ★ Sur la conservation de la pseudo-quantité de mouvement en mécanique et électrodynamique des milieux continus. (English summary) [On the balance law of pseudo-momentum in the mechanics and electrodynamics of continua] 91k:73022
- Mocanu, C. I. Thomas rotation versus the kinematic and electromagnetic problems of relativistic composition of noncollinear velocities. (Not in MR)
- Nagibarov, I. A. *see* Bogdanov, E. I.; et al., 91a:81228
- del Olmo, Mariano A. *see* Carrihena, José F.; et al., 91m:50055
- Petrov, N. S. *see* Boiko, B. B., 91b:78001
- Powell, Jeffrey *see* Isakov, Victor, 91c:35212a and 91c:35212b
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- Rosenhaus, V. *see* Kilrnan, K., 91d:58265 and 91m:58172
- Sakhaev, Sh. S. A problem of electrodynamics for domains with a nonsmooth boundary. (Russian. Kazakh summary) 91c:35145
- Saltanov, N. V. Analogues of generalized hydrodynamic potentials in the theory of Lamé and Maxwell equations. 91f:35262
- Santander, Mariano *see* Carrihena, José F.; et al., 91m:50055
- Shaarawi, Amr M. (with Besieris, Ioannis M.; Ziolkowski, Richard W.) A novel approach to the synthesis of nondispersive wave packet solutions to the Klein-Gordon and Dirac equations. 91i:81016
- Shtelen, V. M. On a connection between the solutions of Maxwell and Dirac equations. (Russian) 91g:35224
- *see also* Fushchich, V. I.; et al., 91i:35166
- Sinyuk, A. I. *see* Bogdanov, E. I.; et al., 91a:81228
- Solomyak, M. Z. *see* Birman, M. Sh., 91c:35197 and (91m:35005)
- Spichak, S. V. *see* Fushchich, V. I.; et al., 91i:35166
- Sveshnikov, A. G. *see* Maikov, A. R.; et al., 91m:35224
- Sylvester, John (with Uhlmann, Gunther) The Dirichlet to Neumann map and applications. 91d:35063
- Ton Tran Cong On the potential of a solenoidal vector field. 91t:26015
- Tubiello, Francesco *see* Ferraris, Marco; et al., 91g:58066
- Uhlmann, Gunther *see* Sylvester, John, 91d:35063
- Vogelius, Michael *see* Friedman, Avner, 91b:35108 and 91b:35109
- Yakunin, S. A. *see* Maikov, A. R.; et al., 91m:35224
- Zhou, Shu Ang Material multipole mechanics of elastic dielectric composites. 91e:73106
- Zhu, Xingshu (with Henneberger, Walter C.) Some observations on the dynamics of the Aharonov-Bohm effect. 91k:81213
- Ziolkowski, Richard W. *see* Shaarawi, Amr M.; et al., 91i:81016

78A30 Electro- and magnetostatics

- Applequist, Jon Traceless Cartesian tensor forms for spherical harmonic functions: new theorems and applications to electrostatics of dielectric media. 91g:78005
- Book, David L. (with Brun, Todd A.) Disproof of a conjectured inequality arising in the theory of magnetic flux diffusion. 91e:78014
- Brun, Todd A. *see* Book, David L., 91e:78014
- Bryan, Kurt Single measurement detection of a discontinuous conductivity. 91e:78015
- Defourny, M. Singular point theory in Laplace field. (*see* 91b:60042)
- Ferone, Vincenzo Symmetrization results in electrostatic problems. 91d:78001
- Gautsien, A. K. (with Sabina, Federico J.) On the problem of the electrified elliptic disk. 91e:78016
- Golden, Kenneth M. *see* Milton, Graeme W., 91c:78009
- Halbach, Klaus Understanding modern magnets through conformal mapping. (Not in MR)

- Kireltov, V. R. (with Manova, N. V.; Tsetsokho, V. A.) ★ Преобразование электрического поля многослойным диэлектриком и обратная задача электростатики. (Russian) [Transformation of an electric field by a multilayer dielectric and an inverse problem in electrostatics] 91a:78005
- Kohn, Robert V. (with McKenney, Alan) Numerical implementation of a variational method for electrical impedance tomography. 91g:78006
- Liu, Wei Gao. Some electrostatic problems and their applications. 91m:78007
- Manova, N. V. see Kireltov, V. R.; et al., 91a:78005
- McKenney, Alan see Kohn, Robert V., 91g:78006
- Milton, Graeme W. (with Golden, Kenneth M.) Representations for the conductivity functions of multicomponent composites. 91c:78009
- Sabina, Federico J. see Gasteles, A. K., 91a:78016
- Siew, P. F. Magnetic anomalies of cylinders. (Not in MR)
- Tasso, H. Axisymmetric equal-field solutions of Poisson's equation. 91m:78008
- Tsetsokho, V. A. see Kireltov, V. R.; et al., 91a:78005

Items with secondary classifications in 78A30

- Belford, David. see Campbell, Edwin S., 91m:33019
- Bessavit, A. On nonlinear magnetostatics: dual-complementary models and "mixed" numerical methods. 91g:78001
- Campbell, Edwin S. (with Belford, David) The construction of the Maxwell representation for a cylindrically symmetric spherical harmonic of arbitrary order. 91m:33019
- Feldnerhof, B. Ubbö Virtual mass and drag in two-phase flow. 91m:76121
- Friedman, Avner (with Isakov, Victor) On the uniqueness in the inverse conductivity problem with one measurement. 91a:35164
- Greengard, Leslie Potential flow in channels. 91c:76083
- Isakov, Victor see Friedman, Avner, 91a:35164
- Jordan, D. W. The magnetic circuit model, 1850–1890: the resisted flow image in magnetostatics. 91c:78001
- Khrushov, E. Ya. see Pankratov, L. S., 91a:49029
- Kuznetsov, S. B. Method of domain decomposition in 3-D problems of magnetostatics. (see 91b:00050)
- Lee, John M. (with Uhlmann, Gunther) Determining anisotropic real-analytic conductivities by boundary measurements. 91a:35166
- Pankratov, L. S. (with Khrushov, E. Ya.) Asymptotic behavior of solutions of variational problems in domains with a fine-grained boundary. (Russian. English summary) 91a:49029
- Phillips, G. A. On a free boundary problem in electrostatics. 91c:35166
- Picard, Rainer H. Some decomposition theorems and their application to nonlinear potential theory and Hodge theory. 91b:58004
- Uhlmann, Gunther see Lee, John M., 91a:35166
- Urbanowski, Paweł Direct methods in the generalized potential theory. 91e:58005

78A35 Motion of charged particles

- Angelov, Vasil G. On the Sygne equations in a three-dimensional two-body problem of classical electrodynamics. 91m:78009
- Ares de Parga, Gonzalo (with Chavoya-Aceves, Oscar; López Bonilla, José Luis; Luna Aguilar, Esteban; Morales, Jesús) Potentials for the Liénard-Wiechert field. (Spanish. English summary) 91c:78010
- (with López Bonilla, José Luis; Ovando Zúñiga, Gerardo; Matos, Tonatiuh) Physical interpretation of the Weert superpotential. (Spanish summary) 91c:78011
- Berz, Martin see Forest, Etienne, 91a:78001
- Chavoya-Aceves, Oscar see Ares de Parga, Gonzalo; et al., 91c:78010
- Davydovskii, V. Ya. (with Pogorelov, E. N.; Filippov, Yu. S.) Adiabatic invariants of charged particles in fields of certain symmetries. 91c:78017
- Driver, R. D. see Hoag, Jeffrey T., 91c:78004
- Fernández C., David J. (with Mielnik, Bogdan) Nodal resonance in a strong standing wave. 91c:78012
- Filippov, Yu. S. see Davydovskii, V. Ya.; et al., 91c:78017
- Forest, Etienne (with Berz, Martin) Canonical integration and analysis of periodic maps using nonstandard analysis and Lie methods. (see 91a:78001)
- Hazeltine, R. D. see Meiss, James D., 91b:78007
- Herrera, Luis The equation of motion for a radiating charged particle without self-interaction term. 91b:78009
- Hoag, Jeffrey T. (with Driver, R. D.) A delayed-advanced model for the electrodynamics two-body problem. 91c:78004
- Kurki-Suonio, T. (with Tajima, T.) Transport model of optical beams in a plasma. (Not in MR)
- López Bonilla, José Luis see Ares de Parga, Gonzalo; et al., 91c:78010 and 91c:78011
- Luna Aguilar, Esteban see Ares de Parga, Gonzalo; et al., 91c:78010
- Matos, Tonatiuh see Ares de Parga, Gonzalo; et al., 91c:78011
- Meiss, James D. (with Hazeltine, R. D.) Canonical coordinates for guiding center particles. 91b:78007
- Mielnik, Bogdan see Fernández C., David J., 91c:78012
- Morales, Jesús see Ares de Parga, Gonzalo; et al., 91c:78010
- Novak, Miroslav M. Relativistic particles in a magnetic field. (see 91b:58094)
- Ovando Zúñiga, Gerardo see Ares de Parga, Gonzalo; et al., 91c:78011
- Ovsyannikov, D. A. ★ Моделирование и оптимизация динамики пучков заряженных частиц. (Russian) [Modeling and optimization of the dynamics of charged particle beams] 91g:78007
- Pogorelov, E. N. see Davydovskii, V. Ya.; et al., 91c:78017
- Samoilenko, L. I. Problems of focusing charged macroparticle flows by electrostatic fields. (Russian) (Not in MR)
- Sheluev, I. A. ★ Принцип Гюйгенса в поле движущегося заряда. (Russian) [The Huygens principle and the field of a moving charge] 91c:78013
- ★ Принцип Гюйгенса в поле движущегося заряда. (Russian) [The Huygens principle and the field of a moving charge] 91c:78014
- Sveshnikov, V. M. (with Syrovat, V. A.) Numerical calculation of beams of charged particles by the method of iterations over subdomains. (Russian) 91m:78010

- Syrovat, V. A. see Sveshnikov, V. M., 91m:78010
- Tajima, T. see Kurki-Suonio, T., (Not in MR)
- Wang, Bing Hong. Stochastic motion of charged particles in electromagnetic standing waves. (Chinese. English summary) 91g:78008
- White, Roscoe B. Canonical Hamiltonian guiding center variables. 91a:78006
- Zabor, V. I. Dynamics of a system of beams of charged particles. (Russian) 91a:78007

Items with secondary classifications in 78A35

- Bampi, Franco (with Zordan, Clara) Higher order shock waves. (Italian summary) 91d:35135
- Bartuccelli, Michele (with Christiansen, Peter L.; Muto, V.; Pedersen, N. F.) Sequence of subharmonic bifurcations and chaos in perturbed anharmonic systems. 91b:70021
- Beaufume, P. (with Dubois, Marc A.; Mohamed Benkadda, M. S.) Diffusion in the noisy Chirikov-Taylor mapping. 91d:58147
- Casasayas, J. see Nunes, A., (91j:00015)
- Christiansen, Peter L. see Bartuccelli, Michele; et al., 91b:70021
- Crawford, Frank S. Elementary examples of adiabatic invariance. 91a:70001
- Creswick, Richard J. see Geurts, Bernard J.; et al., 91b:58147
- Drivotin, O. I. (with Ovsyannikov, D. A.) New classes of solutions of the Vlasov equation for a stationary beam of charged particles in a longitudinal magnetic field. (Russian) (see 91k:00010)
- Dubois, Marc A. see Beaufume, P.; et al., 91d:58147
- Forest, Etienne A Hamiltonian-free description of single particle dynamics for hopelessly complex periodic systems. 91d:58068
- Geurts, Bernard J. (with Wiegel, Frederik W.; Creswick, Richard J.) Chaotic motion of a harmonically bound charged particle in a magnetic field, in the presence of a half-plane barrier. 91b:58147
- Giovannozzi, M. (with Marmi, Stefano) Existence of complex invariant circles in the quadratic area-preserving map. (Italian summary) 91g:58230
- Greengard, Leslie (with Gropp, William D.) A parallel version of the fast multipole method. 91c:78003
- Gropp, William D. see Greengard, Leslie, 91c:78003
- Holmes, Mark H. Nonlinear ionic diffusion through charged polymeric gels. 91b:35151
- Kaup, D. J. Coherent structures in the planar magnetron. 91c:76117
- Lacomba, Ernesto A. (with Peredo R., Felipe) Escape-equilibrium solutions in the repulsive Coulombian isosceles 3-body problem. (French summary) 91c:58040
- Marmi, Stefano see Giovannozzi, M., 91g:58230
- Mohamed Benkadda, M. S. see Beaufume, P.; et al., 91d:58147
- Muto, V. see Bartuccelli, Michele; et al., 91b:70021
- Nunes, A. (with Casasayas, J.) Periodic orbits of a restricted four body problem. (Spanish) (see 91j:00015)
- Ovsyannikov, D. A. see Drivotin, O. I., (91k:00010)
- Pedersen, N. F. see Bartuccelli, Michele; et al., 91b:70021
- Peredo R., Felipe see Lacomba, Ernesto A., 91c:58040
- Popov, E. F. Kinetic equations for charged particles and a longitudinal electric field. 91f:82069
- Kinetic equations for charged particles and the electromagnetic field generated by them. 91m:82138
- Ruth, Ronald D. see Warnock, Robert L., 91m:70023
- Sagdeev, R. Z. see Zaslavskii, G. M., 91d:58062
- Seldman, Thomas I. The transient semiconductor problem with generation terms. II. 91b:35058
- Sherry, G. C. Algebraic model of a classical nonrelativistic electron. 91b:58068
- Syrovat, V. A. Exact solutions of the equations for a beam near a surface. 91a:78018
- Todoroki, Jiro Adiabatic invariant and evaluation of particle loss in helical torus. (Not in MR)
- Trubitsky, A. A. Calculation of the trajectory of motion of a material point in a two-dimensional (axisymmetric) conservative field. (Russian) 91c:70002
- Turchetti, G. Nekhoroshev stability estimates for symplectic maps and physical applications. 91b:58125
- Warnock, Robert L. (with Ruth, Ronald D.) Stability of nonlinear Hamiltonian motion for a finite but very long time. 91m:70023
- Wiegel, Frederik W. see Geurts, Bernard J.; et al., 91b:58147
- Zaslavskii, G. M. (with Sagdeev, R. Z.) ★ Введение в нелинейную физику. (Russian) [Introduction to nonlinear physics] 91d:58062
- Zordan, Clara see Bampi, Franco, 91d:35135

78A40 Waves and radiation

- Artola, Michel (with Cessenat, Michel) Propagation des ondes électromagnétiques dans un milieu composite. Calcul de couches limites et estimations d'erreur. (English summary) [Correctors, boundary-layer terms and error estimates for electromagnetic waves in a composite material] 91b:78005
- Bakhrakh, L. D. (with Litvinov, O. S.) Solution of a phase problem of wave fields. 91b:78007
- Bampi, Franco (with Zordan, Clara) A hyperbolic model for the one-dimensional electromagnetic pulse. 91d:78002
- Ben-Menahem, A. Green's tensors and associated potentials for electromagnetic waves in inhomogeneous material media. 91a:78008
- Berk, H. L. see Kull, H. J.; et al., 91c:78020
- Boulanger, Ph. (with Hayes, Michael) Electromagnetic plane waves in anisotropic media: an approach using bivectors. 91m:78011
- Budinaky, Nurit (with Ungar, Abraham A.) Electromagnetic head waves. 91f:78002
- Cessenat, Michel see Artola, Michel, 91b:78005
- Chen, Li Cheng A solution method for a system of integral equations for the propagation of electromagnetic waves in a class of complicated media. (Chinese. English summary) 91b:78018
- Eleonaki, V. M. (with Kulagin, N. E.; Turayev, D. V.; Shil'nikov, L. P.) Classification of self-localized states of an electromagnetic field in a nonlinear medium. 91b:78010

- Grabowski, Marek (with Hawrylak, Pawel) Wave propagation in a nonlinear periodic medium. 91g:78009
- Hawrylak, Pawel see Grabowski, Marek, 91g:78009
- Hayes, Michael see Boulanger, Ph., 91m:78011
- Heyman, Ehud (with Steinberg, Ben Zion; Ianculescu, Reuven) Electromagnetic complex source pulsed beam fields. 91g:78010
- Ianculescu, Reuven see Heyman, Ehud, et al., 91g:78010
- Ikeda, Kensuke see Mizuno, Makoto, 91k:78008
- Jones, D. S. (with Kriegsmann, Gregory A.) Note on surface radiation conditions. 91c:78015
- Jorgenson, Roy E. (with Mittra, Raj) Efficient calculation of the free-space periodic Green's function. 91c:78019
- Kachalov, A. P. Space-time Gaussian beams of electromagnetic waves. (Russian. English summary) 91m:78012
- Kashuba, R. J. see Kall, H. J.; et al., 91k:78020
- Kriegsmann, Gregory A. see Jones, D. S., 91c:78015
- Kulagin, N. E. see Eleonakli, V. M.; et al., 91h:78010
- Kull, H. J. (with Kashuba, R. J.; Berk, H. L.) WKB theory of wave tunneling for Hermitian and nearly Hermitian vector systems of integral equations. 91k:78020
- Kurbanov, Ikrom A traveling electromagnetic field in a half-space with general material equations. (Russian) 91k:78021
- Reflection and refraction of a wave in nonlinear media taking into account memory. (Russian) 91m:78013
- Lindell, Ismo V. Time-domain TE/TM decomposition of electromagnetic sources. 91a:78009
- Litvinov, O. S. see Bakhrakh, L. D., 91k:78007
- McCarthy, Matthew F. Nonlinear wave propagation in electromagnetic conducting media. 91c:78016
- Mittra, Raj see Jorgenson, Roy E., 91c:78019
- Mizuno, Makoto (with Ikeda, Kensuke) An unstable mode selection rule: frustrated optical instability due to competing boundary conditions. 91k:78008
- Monzon, J. Cesar Two-dimensional Green's functions for a rotationally invariant anisotropic medium. 91k:78022
- Nachamkin, Jack Integrating the dyadic Green's function near sources. 91h:78011
- Nikoskinea, Keijo I. Time-domain analysis of horizontal dipoles in front of planar dielectric interface. 91m:78014
- Nyquist, Dennis P. see Viola, Mark S., 91a:78010
- Perel', M. V. Interaction of modes in transverse propagation of radio waves. (Russian) (see 91i:00017)
- Samokhin, A. B. (with Tsvetkov, S. V.) Asymptotic differential conditions of radiation for three-dimensional diffraction problems. 91k:78009
- A study of the problems of the diffraction of electromagnetic waves in locally inhomogeneous media. 91c:78017
- Shif'nikov, L. P. see Eleonakli, V. M.; et al., 91h:78010
- Sinit'syn, Yu. A. (with Tsukernik, V. M.; Zaslavskii, O. B.) Propagation of electromagnetic waves through weakly nonuniform media as described in terms of the quantum mechanical analogy. 91k:78003
- Smyth, N. F. Microwave heating of bodies with temperature dependent properties. (Not in MR)
- Steinberg, Ben Zion see Heyman, Ehud; et al., 91g:78010
- Stuart, Charles A. Self-trapping of an electromagnetic field and bifurcation from the essential spectrum. 91f:78010
- Tsukernik, V. M. see Sinit'syn, Yu. A.; et al., 91d:78003
- Tsvetkov, S. V. see Samokhin, A. B., 91k:78009
- Turnev, D. V. see Eleonakli, V. M.; et al., 91h:78010
- Ungar, Abraham A. see Budinsky, Nurit, 91f:78002
- Viola, Mark S. (with Nyquist, Dennis P.) An observation of the Sommerfeld-integral representation of the electric dyadic Green's function for layered media. 91a:78010
- West, Bruce J. Sensing scaled scintillations. 91g:78011
- Zaslavskii, O. B. see Sinit'syn, Yu. A.; et al., 91d:78003
- Zordan, Clara see Bampi, Franco, 91d:78002
- Zubov, V. I. Wave theory. (Russian) (see 91k:00010)
- Items with secondary classifications in 78A40
- Abd-Alla, Abo-el-Nour N. (with Maugin, Gérard A.) Linear and nonlinear surface waves on magnetostrictive substrates. 91m:73063
- Artola, Michel (with Cessenat, Michel) Un problème raide avec homogénéisation en électromagnétisme. (English summary) [A stiff problem with homogenization in electromagnetic waves theory] 91h:78003
- (with Cessenat, Michel) Sur la propagation des ondes électromagnétiques dans un milieu composite (diélectrique-conducteur). (English summary) [Electromagnetic wave propagation in a composite (dielectric-conductor) medium] 91h:78004
- Cessenat, Michel see Artola, Michel, 91h:78003 and 91h:78004
- Domanski, W. Surface and boundary waves for linear hyperbolic systems: applications to basic equations of electrodynamics and mechanics of continuum. (Russian and Polish summaries) 91h:35121
- Fat'yuzov, A. G. A semi-analytic method for solving direct dynamical problems in layered media. (Russian) 91h:36002
- Feig, Ephraim (with Micchelli, Charles A.) L^2 -synthesis by ambiguity functions. 91a:42025
- Fridman, V. E. Steady waves in active birefracting media. 91f:35234
- Ivanov, V. T. (with Shcherbinin, S. A.) Methods for the calculation and analysis of interacting physical processes. (Russian) 91f:80002
- Krutitskii, P. A. On an oblique derivative problem for a plane with cuts along a straight line, and related problems. (Russian. English summary) 91g:65058
- Mal'kov, A. R. (with Sveshnikov, A. G.; Yakunin, S. A.) Nonlocal radiation conditions for a nonstationary system of Maxwell equations. (Russian) 91m:35225
- Maugin, Gérard A. see Abd-Alla, Abo-el-Nour N., 91m:73063
- Men'shikh, O. F. On the interaction of solitary waves for a system of Born-Infeld equations. 91g:35208
- Micchelli, Charles A. see Feig, Ephraim, 91a:42025
- Ramm, Alexander G. (with Weaver, Oliver L.; Weck, Norbert; Witsch, Karl J.) Dissipative Maxwell's equations at low frequencies. 91m:35226
- Roaes, Rodolfo R. An introduction to weakly nonlinear geometrical optics. 91j:35173
- Schulenberg, John R. Time-harmonic solutions of some dissipative problems for Maxwell's equations in a three-dimensional half space. 91g:35223
- Shcherbinin, S. A. see Ivanov, V. T., 91f:80002
- Shestopalov, Yu. V. Application of the method of generalized potentials for solution of some problems in the theory of wave diffraction and propagation. (Russian) 91j:35064
- Smirnov, Yu. G. The application of the operator pencil method in a problem concerning the natural waves of a partially filled wave guide. 91j:35081
- Spivack, Mark Operator splitting for the random wave moment equations. 91h:65210
- Sveshnikov, A. G. see Mal'kov, A. R.; et al., 91m:35225
- Weaver, Oliver L. see Ramm, Alexander G.; et al., 91m:35226
- Weck, Norbert see Ramm, Alexander G.; et al., 91m:35226
- Witsch, Karl J. see Ramm, Alexander G.; et al., 91m:35226
- Yakunin, S. A. see Mal'kov, A. R.; et al., 91m:35225
- Zhang, Peng The analytical solution for Helmholtz boundary problem in nonhorizontally stratified domains. 91c:35078
- Zubov, V. I. ★ Колебания в волнах. (Russian) [Oscillations and waves] 91k:34040
- The wave equation for an anisotropic medium. 91c:35200

78A45 Diffraction, scattering [see also 34E20 for WKB methods]

- Asakura, Toshimitsu see Uozumi, Jun; et al., 91h:78018
- Athanasiadis, Ch. see Kiriaiki, Kiriaiki, 91h:78010
- Berry, M. V. (with Howls, C. J.) Fake Airy functions and the asymptotics of reflectionless-ness. 91h:78012
- Borovikov, V. A. Diffraction of a field with a caustic by a wedge in a nonuniform medium. 91g:78012
- Bouchitté, Guy Analyse limite de la diffraction d'ondes électromagnétiques par une structure mince. (English summary) [Limit analysis of electromagnetic wave scattering by a thin structure] 91h:78006
- Bullough, R. K. see Hynne, F., 91k:78024
- Cadilhac, M. see Petit, R., 91k:78027 and (Not in MR)
- Chiu, Chien Ching (with Kiang, Yean-Woei) Inverse scattering of a buried conducting cylinder. (Not in MR)
- Cho, Soon K. (with Chu, C. M.) Optimal polarization in bistatic scattering. 91g:78013
- ★ Electromagnetic scattering. 91k:78010
- Chu, C. M. see Cho, Soon K., 91g:78013
- Chumachenko, V. P. Substantiation of one method of solving two-dimensional problems concerning the diffraction of electromagnetic waves by polygon structures. Uniqueness theorem. (Not in MR)
- Colton, David (with Monk, P. B.) The scattering of electromagnetic waves by a perfectly conducting infinite cylinder. 91h:78008
- Dashen, Roger (with Orris, Gregory J.) Rough surfaces and the renormalization group. 91k:78011
- Dassios, George Low-frequency moments in inverse scattering theory. 91k:78023
- DeFacio, Brian Classical, linear, electromagnetic impedance theory with infinite integrable discontinuities. 91h:78009
- DeSanto, John A. see Wombell, Richard J., 91m:78017
- Edman, Y. Ya. see Nemtsov, B. E., 91k:78012
- Evel'son, R. L. Calculation of the scattered field of a plane wave for scattering by an impedance cylinder of small curvature. 91h:78013
- Fikioris, John G. see Tsalamengas, John L., 91h:78017
- Fomin, A. A. Diffraction by a finite plane system of ideally conducting screens. 91c:78018
- Goodman, Joseph W. see Nazaraty, Moshe; et al., (91a:78001)
- Gul, Chao see Xu, Peng Gen; et al., 91h:78031
- Gao, Yu Ning (with Zhang, Shan Jie) Finite element analysis of two-dimensional electromagnetic scattering in unbounded regions. (Chinese. English summary) 91c:78019
- Hansen, Thorvald B. Diffraction by a plane angular sector, a new derivation. 91m:78015
- Heine, Albert E. The Sommerfeld half-plane problem revisited. V. The bifurcated guide with mixed boundary conditions on the septum. 91k:78007
- Howls, C. J. see Berry, M. V., 91h:78012
- Hynne, F. (with Bullough, R. K.) The scattering of light. III. External scattering from a finite molecular fluid. 91k:78024
- Idemen, Mihail On different possibilities offered by the Born approximation in inverse scattering problems. 91a:78011
- Karanjal, M. (with Karanjai, S.) H -functions for four-term scattering indicatrix. 91h:78014
- Karanjal, S. see Karanjai, M., 91h:78014
- Kauderer, Mark see Nazaraty, Moshe; et al., (91a:78001)
- Ke, Heng Yu (with Lu, Shu) The problem of electromagnetic scattering from a conducting conical boundary. (Chinese. English summary) 91c:78020
- Kiang, Yean-Woei see Chiu, Chien Ching, (Not in MR)
- Kimura, Hiroyuki see Uozumi, Jun; et al., 91h:78018
- Kiriaiki, Kiriaiki (with Athanasiadis, Ch.) Low-frequency scattering by an ellipsoidal dielectric with a confocal ellipsoidal perfect conductor core. 91h:78010
- Kravchenko, V. F. Excitation and scattering of electromagnetic waves by bodies with different impedances that have symmetry of revolution. 91a:78012
- Kreider, Kevin L. Time dependent direct and inverse electromagnetic scattering for the dispersive cylinder. 91h:78015
- Krueger, R. J. (with Ochs, R. L., Jr.) A Green's function approach to the determination of internal fields. 91h:78016
- Kyrkchan, A. G. Analytic continuation in problems of the scattering of waves by unbounded surfaces. 91k:78025
- Lakhtakia, Akhlesh (with Varadan, Vijay K.; Varadan, Vasundara V.) Surface integral equations for scattering by PEC scatterers in isotropic chiral media. 91m:78016
- Lindell, Ismo V. see Nikoskinea, Keijo I., 91c:78021
- Lu, Shu see Ke, Heng Yu, 91c:78020 and Xu, Peng Gen; et al., 91h:78031

- Mitsoulis, G. A Wiener-Hopf theory for a semi-infinite dielectric slab. (French summary) (Not in MR)
- Monk, P. B. *see* Colton, David, 91h:78008
- Moonson, J. Cesar Guidance of waves by a moving unidirectionally conducting screen. 91a:78013
- On the application of the Sommerfeld representation in a two-dimensional rotationally invariant anisotropic medium. 91e:78026
- Natzke, John R. *see* Senior, Thomas B. A.; et al., 91c:78022
- Nazarathy, Moshe (with Goodman, Joseph W.; Kauderer, Mark) Dispersion-diffraction coupling in anisotropic media and ambiguity function generation. (see 91a:78001)
- Nemtsov, B. E. (with Eidman, V. Ya.) Singularities of fields of transient radiation on the boundary on nondispersing media. Exact solution of the problem. (Russian) 91k:78012
- Nikoskines, Keijo I. (with Lindell, Immo V.) Time-domain analysis of the Sommerfeld VMD problem based on the exact image theory. 91c:78021
- Nosich, A. I. (with Shestopalov, V. P.) Radiation conditions and uniqueness theorems for open waveguides. 91d:78004
- Ochs, R. L., Jr. *see* Krueger, R. J., 91b:78016
- Orris, Gregory J. *see* Dashen, Roger, 91k:78011
- Pendry, J. B. *see* Roberts, P. J., (Not in MR)
- Petit, R. (with Cadilhac, M.) Electromagnetic theory of gratings: some advances and some comments on the use of the operator formalism. 91e:78027
- (with Cadilhac, M.) Errata: "Electromagnetic theory of gratings: some advances and some comments on the use of the operator formalism" [J. Opt. Soc. Amer. A 7 (1990), no. 9, 1666-1674; MR 91c:78027]. (Not in MR)
- Popov, M. M. *see* Zalpaev, V. V., 91f:78003
- Rawlins, A. D. Diffraction of an E- or H-polarized electromagnetic plane wave by a right-angle wedge with imperfectly conducting faces. 91e:78028
- Renner, P. The Mie scattering at an inhomogeneous and arbitrary shaped inclusion. (German summary) 91g:78014
- Riechers, Ronald G. The application of Lanczos S-expansion method to the solution of TM scattering from a dielectric cylinder of arbitrary cross section. 91e:78029
- Roberts, P. J. (with Pendry, J. B.) Singularities in forward scattering through random media. (Not in MR)
- Sarabandi, Kamal *see* Senior, Thomas B. A.; et al., 91c:78022
- Senior, Thomas B. A. (with Sarabandi, Kamal; Natzke, John R.) Scattering by a narrow gap. 91c:78022
- Shestopalov, V. P. (with Sirenko, Yu. K.) ★ Динамическая теория решеток. (Russian) [Dynamic theory of gratings] 91e:78030
- *see also* Nosich, A. I., 91d:78004 and Tuchkin, Yu. A., (Not in MR)
- Shul'ga, S. N. *see* Zhuk, N. P., (Not in MR)
- Sirenko, Yu. K. *see* Shestopalov, V. P., 91e:78030
- Talbot, D. R. S. (with Titchener, J. B.; Willis, J. R.) The reflection of electromagnetic waves from very rough interfaces. 91h:78011
- Titchener, J. B. *see* Talbot, D. R. S.; et al., 91h:78011
- Tsalamengas, John L. (with Fikioris, John G.) Scattering of E-polarized waves from conducting strips in the presence of a magnetically uniaxial half-space—a singular integral equation approach. 91h:78017
- Tuchkin, Yu. A. (with Shestopalov, V. P.) Diffraction of waves by screens of finite thickness. (Not in MR)
- Usuzumi, Jun (with Kimura, Hiroyuki; Asakura, Toshimitsu) Fraunhofer diffraction by Koch fractals. 91h:78018
- Varadan, Vasundara V. *see* Lakhtakia, Akhlesh; et al., 91m:78016
- Varadan, Vijay K. *see* Lakhtakia, Akhlesh; et al., 91m:78016
- Willis, J. R. *see* Talbot, D. R. S.; et al., 91h:78011
- Wombell, Richard J. (with DeSanto, John A.) The reconstruction of shallow rough-surface profiles from scattered field data. 91m:78017
- Xu, Feng Gen (with Lu, Shu; Gui, Chao) Electromagnetic scattering in two-medium half-spaces. (Chinese. English summary) 91e:78031
- Zalpaev, V. V. (with Popov, M. M.) Calculation of the wave field in a problem of diffraction by a smooth periodic boundary. (Russian. English summary) 91f:78003
- Zhang, Shan Jie *see* Guo, Ya Ning, 91c:78019
- Zhuk, N. P. (with Shul'ga, S. N.) A two-dimensional problem of the scattering of electromagnetic waves by a cylindrical inclusion in a plane-layered medium. (Russian) (Not in MR)
- Items with secondary classifications in 78A45
- Abrahams, I. D. (with Wickham, G. R.) The scattering of sound by two semi-infinite parallel staggered plates. II. Evaluation of the velocity potential for an incident plane wave and an incident duct mode. 91e:76095
- Ape'tsin, V. F. (with Kyurkchan, A. G.) ★ Аналитические свойства волновых полей. (Russian) [Analytic properties of wave fields] 91k:35189
- Bastos, M. A. (with dos Santos, A. F.) Convolution equations of the first kind on a finite interval in Sobolev spaces. 91e:47066
- Bellout, Hamid (with Friedman, Avner) Scattering by stripe grating. 91g:35197
- van den Berg, P. M. *see* Kleinman, R. E.; et al., 91a:65250
- Berry, M. V. (with Howls, C. J.) Stokes surfaces of diffraction catastrophes with codimension three. 91k:58011
- Cal, Zhen Xiang (with Jin, Guo Fan; Wu, Min Xian) Discussion on the image formation formula with monochromatic illumination. (Chinese. English summary) (Not in MR)
- Chen, Xinfu (with Friedman, Avner) Maxwell's equations in a periodic structure. 91c:35198
- Cheney, Margaret A review of multidimensional inverse potential scattering. 91j:35276
- (with Isaacson, David; Isaacson, Eli L.) Exact solutions to a linearized inverse boundary value problem. 91j:35277
- DeSanto, John A. Approximation methods for scattering from rough surfaces. 91m:35180
- Dudka, V. G. (with Tuchkin, Yu. A.; Shestopalov, V. P.) An iterative method for solving a problem of diffraction by a spherical segment. (Russian) 91h:65203
- Erdin, Yu. A. (with Sveshnikov, A. G.) An iterative method for the quasisolution of integral equations of the first kind in diffraction theory. (Russian. English summary) 91g:65302
- (with Sveshnikov, A. G.) An iterative method for solving diffraction problems on the basis of dissipative operators. 91j:65176
- (with Sveshnikov, A. G.) The iterative quasisolution method in problems of diffraction by dielectric bodies. 91d:35054
- Farrell, R. A. *see* Freund, D. E., 91c:35115
- Feig, Ephraim (with Micchelli, Charles A.) L^2 -synthesis by ambiguity functions. 91a:42025
- Findling, Andreas *see* Oppel, Ulrich G.; et al., (Not in MR)
- Freund, D. E. (with Farrell, R. A.) A variational principle for the scattered wave. 91c:35115
- Friedman, Avner *see* Chen, Xinfu, 91c:35198 and Bellout, Hamid, 91g:35197
- Hillion, Pierre Wave equation with covariant boundary conditions on a wave front. 91d:35125
- Howls, C. J. *see* Berry, M. V., 91h:58011
- Hudak, D. (with MacCamy, Richard C.) Variational methods for eddy current problems. (see 91h:00042)
- Ilnskii, A. S. (with Mikheev, A. G.) Diffraction of a wave by a periodic reflecting surface. (Russian) 91f:35048
- (with Maslovskaya, O. M.) A variational formulation of diffraction problems. (Russian) 91f:35009
- Isaacson, David *see* Cheney, Margaret; et al., 91j:35277
- Isaacson, Eli L. *see* Cheney, Margaret; et al., 91j:35277
- Jin, Guo Fan *see* Cal, Zhen Xiang; et al., (Not in MR)
- Jin, Ya Qiu Radiative transfer theory for strongly fluctuating, continuous random media. 91h:86006
- Karlsson, Anders (with Kristensson, Gerhard) Wave splitting in the time domain for a radially symmetric geometry. 91f:35154
- Khachat, O. A. Solution of an inverse problem for three-dimensional alternating electromagnetic anomalies. (Russian) 91c:86011
- Kleinman, R. E. (with Roach, G. F.; Schuetz, L. S.; Shirron, J.; van den Berg, P. M.) An over-relaxation method for the iterative solution of integral equations in scattering problems. 91a:65250
- Klibanov, M. V. A uniqueness theorem for an inverse problem of diffraction. (Russian) 91d:35229
- Korneev, V. A. (with Mikheev, A. G.; Rabotnova, E. Yu.; Shamaev, A. S.) A comparison of two numerical methods for solving the problem of the diffraction of an E-polarized plane wave by an ideally conducting periodic surface. (Russian) 91f:65179
- Krichbaumer, Wilhelm *see* Oppel, Ulrich G.; et al., (Not in MR)
- Kriegelmeier, Sigrid *see* Oppel, Ulrich G.; et al., (Not in MR)
- Kristensson, Gerhard *see* Karlsson, Anders, 91f:35154
- Kyurkchan, A. G. *see* Ape'tsin, V. F., 91k:35189
- Lebre, A. B. *see* dos Santos, A. F.; et al., 91h:47055
- Lies, Otto Global existence for the nonlinear equations of crystal optics. 91a:35156
- MacCamy, Richard C. *see* Hudak, D., (91h:00042)
- Marks, Roger B. An iterative method for high frequency scattering. 91h:76071
- Maslovskaya, O. M. *see* Ilnskii, A. S., 91f:35009
- Meister, E. (with Speck, F.-O.) Modern Wiener-Hopf methods in diffraction theory. 91a:35049
- Micchelli, Charles A. *see* Feig, Ephraim, 91a:42025
- Mikheev, A. G. *see* Korneev, V. A.; et al., 91f:65179 and Ilnskii, A. S., 91f:35048
- Moffatt, H. K. On the behaviour of a suspension of conducting particles subjected to a time-periodic magnetic field. 91j:76077
- Negrin, E. R. The K-transformation index. 91f:44002
- Noormohammadian, Masoud *see* Oppel, Ulrich G.; et al., (Not in MR)
- Oppel, Ulrich G. (with Findling, Andreas; Krichbaumer, Wilhelm; Kriegelmeier, Sigrid; Noormohammadian, Masoud) ★ A stochastic model for the calculation of multiply scattered LIDAR returns. (Not in MR)
- Oristaglio, Michael L. An inverse scattering formula that uses all the data. 91e:73044
- Pilvrianta, Lassi The behaviour of fields near a corner of a flat plate. 91f:35081
- Paris, R. B. The asymptotics of Peacock's integral for complex variables. 91d:41015
- Popov, M. M. *see* Zalpaev, V. V., 91m:78003
- Rabotnova, E. Yu. *see* Korneev, V. A.; et al., 91f:65179
- Ramm, Alexander G. (with Somersalo, Erkki) Electromagnetic inverse problems with surface measurements at low frequencies. 91d:86012
- Rawlins, A. D. Spherical wave diffraction by rational wedges. 91e:76048
- Roach, G. F. *see* Kleinman, R. E.; et al., 91a:65250
- dos Santos, A. F. (with Lebre, A. B.; Teixeira, Francisco Sepúlveda) The diffraction problem for a half plane with different face impedances revisited. 91h:47055
- *see also* Bastos, M. A., 91e:47066
- Schuetz, L. S. *see* Kleinman, R. E.; et al., 91a:65250
- Shamaev, A. S. *see* Korneev, V. A.; et al., 91f:65179
- Shestopalov, V. P. *see* Dudka, V. G.; et al., 91h:65203 and Tuchkin, Yu. A., (Not in MR)
- Shirron, J. *see* Kleinman, R. E.; et al., 91a:65250
- Simakova, N. A. (with Yakubov, V. P.) Singular regularization in the solution of the inverse problem of refraction. 91d:86006
- Somersalo, Erkki *see* Ramm, Alexander G., 91d:86012
- Speck, F.-O. *see* Meister, E., 91a:35049
- (Sukov, A. I.) *see* Ape'tsin, V. F., 91k:35189
- Sveshnikov, A. G. *see* Erdin, Yu. A., 91d:35054; 91g:65302 and 91j:65176
- Teixeira, Francisco Sepúlveda On a class of Hankel operators: Fredholm properties and invertibility. 91a:47031
- *see also* dos Santos, A. F.; et al., 91h:47055
- Tuchkin, Yu. A. (with Shestopalov, V. P.) Regularization of a boundary value problem of diffraction by a wavy surface with the Dirichlet condition. (Not in MR)
- *see also* Dudka, V. G.; et al., 91h:65203
- Weder, Ricardo ★ Spectral and scattering theory for wave propagation in perturbed stratified media. 91j:35198
- Wickham, G. R. *see* Abrahams, I. D., 91e:76095
- Wu, Min Xian *see* Cal, Zhen Xiang; et al., (Not in MR)
- Yakubov, V. P. *see* Simakova, N. A., 91d:86006
- Zalpaev, V. V. Asymptotic behavior of excitation coefficients of planar waves in a problem with a sinusoidal periodic boundary. (Russian. English summary) 91m:35184

— (with Popov, M. M.) Wood's anomalies in a problem of the diffraction of a planar wave by a smooth periodic boundary. (Russian. English summary) 91m:35185

78A50 Antennas, wave-guides

- Andrenko, A. S. (with Nosich, A. I.; Shestopalov, V. P.) Reciprocity theorem in problems of the scattering of waves by inhomogeneities in planar open wave guides. (Not in MR)
- Bamberger, Alain (with Bonnet, A. S.) Mathematical analysis of the guided modes of an optical fiber. 91k:78013
- Bonnet, A. S. see Bamberger, Alain, 91k:78013
- Derguzov, V. I. Root subspaces of a two-dimensional optical wave guide. 91d:78005
- Feng, Zheng He Network-boundary element method solution of arbitrary discontinuities in waveguide. 91b:78019
- Gafchenko, N. A. A generalized formulation of problems of the diffraction of electromagnetic waves in waveguide theory. 91a:78014
- Grounds, Preston W. see Webb, Kevin J.; et al., 91k:78020
- Matkov, A. R. (with Poedz, A. D.; Yakunin, S. A.) An efficient method for calculating nonstationary radiation conditions that are nonlocal in time for waveguide systems. (Russian) (Not in MR)
- Mitra, Raj see Webb, Kevin J.; et al., 91k:78020
- Nosich, A. I. see Andrenko, A. S.; et al., (Not in MR)
- Poedz, A. D. see Matkov, A. R.; et al., (Not in MR)
- Reuka, A. G. see Verbitskii, I. L., 91c:78023
- Shestopalov, V. P. Resonance and intermode oscillations. 91f:78004
- see also Srivishchev, Yu. V.; et al., (Not in MR) and Andrenko, A. S.; et al., (Not in MR)
- Strizhkov, V. A. Analysis of transitional electromagnetic processes in wire antenna systems. 91c:78015
- Srivishchev, Yu. V. (with Tuchkin, Yu. A.; Shestopalov, V. P.) Resonance reconstruction of oscillations in an open resonator with spherical mirrors. (Not in MR)
- Tuchkin, Yu. A. see Srivishchev, Yu. V.; et al., (Not in MR)
- Verbitskii, I. L. (with Reuka, A. G.) Linear operator theory of electron waves in two-dimensional periodic waveguide. General theory. 91c:78023
- Webb, Kevin J. (with Grounds, Preston W.; Mitra, Raj) Convergence in the spectral domain formulation of waveguide and scattering problems. 91b:78020
- Yakunin, S. A. see Matkov, A. R.; et al., (Not in MR)

Items with secondary classifications in 78A50

- Exner, Pavel (with Šeba, Petr) Bound states in classical and quantum waveguides. (see 91m:35005)
- Georgiev, G. N. see Ivanov, K. P., 91b:33005
- Giv', O. M. The branching of solutions of a nonlinear integral equation in the theory of antenna design. (Ukrainian. Russian summary) (Not in MR)
- Ivanov, K. P. (with Georgiev, G. N.) Asymptotic study of complex Kummer function. 91b:33005
- Mason, John C. (with Wilde, S. J.) A complex minimax algorithm for phase-only adaptation in antenna arrays. (see 91c:65003)
- Nikonov, S. V. see Vlasov, M. A., 91m:82142
- Ratkas, A. G. Perturbation of skew-Hermitian pencils and a degenerate Cauchy problem. 91a:34044
- Šeba, Petr see Exner, Pavel, (91m:35005)
- Sot-skaya, L. I. see Sot-skil, A. B.; et al., 91f:35083
- Sot-skil, A. B. (with Sot-skaya, L. I.; Stolyarov, Yu. D.) Optimization of the basis functions for analyzing slightly nonuniform dielectric waveguides. 91f:35083
- Stolyarov, Yu. D. see Sot-skil, A. B.; et al., 91f:35083
- Tretyakov, O. A. Evolutionary waveguide equations. 91f:35263
- Vlasov, M. A. (with Nikonov, S. V.) Transport, compression and stability of electron beam in positively charged plasma. 91m:82142
- Werner, Peter Zero resonances in local perturbations of parallel-plane waveguides. 91j:35160
- Wilde, S. J. see Mason, John C., (91c:65003)

78A55 Technical applications

- Alves Pires, Rui (with Dillão, Rui) Dynamical systems methods in accelerator physics: the dynamic aperture problem. 91f:78005
- Belyanin, M. P. (with Vasil'eva, A. B.; Voronov, A. V.; Tikhonravov, A. V.) An asymptotic approach to the problem of designing a semiconductor device. (Russian) 91b:78021
- Bossavit, A. "Mixed" methods for a "vectorial" Stefan problem. (French summary) 91b:78022
- Brezzi, Franco (with Marini, Luisa Donatella; Pietra, Paola) Numerical simulation of semiconductor devices. 91b:78023
- Caquot, E. see Souissi, K.; et al., 91c:78024
- Devoldère, P. see Souissi, K.; et al., 91c:78024
- Dillão, Rui see Alves Pires, Rui, 91f:78005
- Dimitrovski, D. (with Mijatović, Mijat; Veselinović, Valentina) Systems of differential equations for the improvement of the construction of solar energy collectors. (Macedonian. French summary) (Not in MR)
- Gavril, S. see Mor, A., 91f:78032
- Grünbaum, F. Alberto Soliton mathematics in signal processing. 91g:78015
- Hasenfeld, Andrew Selective "complex" reflectionless potentials. 91g:78016
- Johanson, J. A. Wigner distribution and FM radar signal design. (Not in MR)
- Marini, Luisa Donatella see Brezzi, Franco; et al., 91b:78023
- Markowich, Peter A. (with Ringhofer, Christian; Schmeiser, Christian) ★ Semiconductor equations. 91j:78011
- Márquez, V. The parabolic version of the electropainting problem. (see 91g:00044)
- Martinez-Gamba, Irene Behavior of the potential at the pn-junction for a model in semiconductor theory. (Not in MR)
- Mijatović, Mijat see Dimitrovski, D.; et al., (Not in MR)
- Moloney, Jerome V. (with Newell, Alan C.) Nonlinear optics. (Not in MR)
- Mor, A. (with Gavril, S.) The electromagnetic field distribution of the rectangular current frame placed at an arbitrary position above a conducting sheet. 91e:78032
- Newell, Alan C. see Moloney, Jerome V., (Not in MR)
- Odeh, F. M. see Thomann, Enrique, 91b:78024 and Ward, M. J.; et al., 91m:78020
- Paraskevopoulos, A. see Souissi, K.; et al., 91c:78024
- Pietra, Paola see Brezzi, Franco; et al., 91b:78023
- Pomp, Andreas The integral method for coated gratings: computational cost. 91m:78018
- Reyna, L. G. see Ward, M. J.; et al., 91m:78020
- Ringhofer, Christian see Markowich, Peter A.; et al., 91j:78011
- Rubinstein, Isaac ★ Electro-diffusion of ions. 91m:78019
- Schieber, D. Some remarks on inductive and capacitive diathermy. 91e:78033
- Schmeiser, Christian see Markowich, Peter A.; et al., 91j:78011
- Schmidt, Gunther (with Stresse, H.) A direct BEM for magnetic fields. (German and Russian summaries) 91f:78008
- Shiller, M. Electrochemical machining with a threshold current. (see 91g:00044)
- Souissi, K. (with Paraskevopoulos, A.; Devoldère, P.; Caquot, E.) Mathematical and numerical analysis of the spreading resistance of semiconductor buried ridge stripe lasers. 91c:78024
- Steinrück, Herbert A sensitivity analysis of the steady state semiconductor device equations. 91c:78025
- Stresse, H. see Schmidt, Gunther, 91f:78008
- Thomann, Enrique (with Odeh, F. M.) On the well-posedness of the two-dimensional hydrodynamic model for semiconductor devices. 91b:78024
- Tikhonravov, A. V. see Belyanin, M. P.; et al., 91b:78021
- Vasil'eva, A. B. see Belyanin, M. P.; et al., 91b:78021
- Veselinović, Valentina see Dimitrovski, D.; et al., (Not in MR)
- Voronov, A. V. see Belyanin, M. P.; et al., 91b:78021
- Ward, M. J. (with Reyna, L. G.; Odeh, F. M.) Multiple steady-state solutions in a multijunction semiconductor device. 91m:78020

Items with secondary classifications in 78A55

- Acivros, A. (with Jeffrey, D. J.; Saville, D. A.) Particle migration in suspensions by thermocapillary or electrophoretic motion. 91b:76102
- Bellout, Hamid (with Bloom, Frederick) Existence and asymptotic behavior of smooth solutions for the nonlinear transmission line problem. 91b:35193
- Belegoutier, A. B. (with Vavril, D. M.; Tretyakov, O. A.) Destruction of synchronous oscillations with nonresonance interaction of active and passive modes. 91e:58105
- Berger, Melyna S. Nonlinear mathematical phenomena associated with semiconductor devices. 91e:82063
- Besson, Olivier (with Bourgeois, J.; Chevalier, P.-A.; Rappaz, J.; Touzani, Rachid) Numerical modelling of electromagnetic casting processes. 91b:76105
- Bish, R. L. Temperatures in a thin metal plate traversed by an arc. 91g:80005
- Bloom, Frederick see Bellout, Hamid, 91b:35193
- Bourgeois, J. see Besson, Olivier; et al., 91b:76105
- Brezzi, Franco Singular perturbation analysis of (strongly) reverse biased semiconductor devices. 91k:34061
- Brodwin, M. E. see Kriesgmann, Gregory A.; et al., 91c:80008
- Chevalier, P.-A. see Besson, Olivier; et al., 91b:76105
- Coughran, W. M., Jr. (with Jerome, Joseph W.) Modular algorithms for transient semiconductor device simulation. I. Analysis of the outer iteration. 91d:65017
- Danilov, V. G. see Volosov, K. A., 91b:80016
- Degond, Pierre (with Poupaud, Frédéric; Niclot, Bernard; Guyot-Delaurens, F.) Semiconductor modelling via the Boltzmann equation. 91k:82053
- Dum, R. (with Schmidt, Günter) Globale rheonichtlineare Schwingungen, Anwendung auf parametrische Stromgeneratoren. (English and Russian summaries) [Global rheononlinear vibrations and application to parametric power generators] 91e:34048
- Duxbury, P. M. (with Li, Y. S.) Scaling theory and fluctuations of the strength of composites. (see 91b:00052)
- Gustafsson, Björn (with Mossino, J.) Some isoperimetric inequalities in electrochemistry and Hele-Shaw flows. (see 91g:00044)
- Gutman, Semion Alternating directions method for impedance computed tomography. 91a:35165
- Guyot-Delaurens, F. see Degond, Pierre; et al., 91k:82053
- Hayeck, Nayla (with Nachaoui, Abdeljalil; Nassif, Nabil R.) Existence and regularity for Van Roosbroeck systems with general mixed boundary conditions. 91m:35221
- Hill, David J. (with Mareels, Iven M. Y.) Stability theory for differential/algebraic systems with application to power systems. 91b:34079
- Hu, Bei A free boundary problem for a Hamilton-Jacobi equation arising in ion etching. 91k:35256
- Jeffrey, D. J. see Acivros, A.; et al., 91b:76102
- Jerome, Joseph W. see Coughran, W. M., Jr., 91d:65017
- Jiang, Li Shang On electrochemical problems (rapporteur's report). (see 91g:00044)
- Kalach'ev, L. V. (with Kryuchkov, S. V.; Obukhov, I. A.) Asymptotic analysis of a solution of the Poisson equation in semiconductors. (Russian) 91b:65142
- King, John Robert see Taylor, A. B., 91b:35260
- Kriesgmann, Gregory A. (with Brodwin, M. E.; Watters, D. G.) Microwave heating of a ceramic halfspace. 91c:80008
- Kryuchkov, S. V. see Kalach'ev, L. V.; et al., 91b:65142
- Li, Y. S. see Duxbury, P. M., (91b:00052)
- Mareels, Iven M. Y. see Hill, David J., 91b:34079
- Markowich, Peter A. Spatial-temporal structure of solutions of the semiconductor device problem. 91b:35104
- Mossino, J. see Gustafsson, Björn, (91g:00044)
- Nachaoui, Abdeljalil see Hayeck, Nayla; et al., 91m:35221
- Nassif, Nabil R. see Hayeck, Nayla; et al., 91m:35221
- Niclot, Bernard see Degond, Pierre; et al., 91k:82053
- Obukhov, I. A. see Kalach'ev, L. V.; et al., 91b:65142
- Perev, M. V. Interaction of modes in transequatorial propagation of radio waves. (Russian) (see 91i:00017)
- Poupaud, Frédéric see Degond, Pierre; et al., 91k:82053

- Rappaz, J. *see* Besson, Olivier; et al., 91k:76105
- Ringhofer, Christian The shape of solutions to the fundamental semiconductor device equations. 91h:35013
- Saville, D. A. *see* Acrivos, A.; et al., 91h:76102
- Schmidt, Günter *see* Dum, R., 91c:34048
- Seldman, Thomas I. The transient semiconductor problem with generation terms. 91d:35238
- Setkazarova, K. S. An integro-differential equation of an electric circuit with negative-differential resistance. (Russian) (*see* 91j:00012)
- Sharafutdinov, V. A. On the method of integrated photo-elasticity in the case of weak optic anisotropy. 91h:73094
- Steinrück, Herbert Asymptotic analysis of the current-voltage curve of a *pnpn* semiconductor device. 91a:82086
- Szmołyán, P. Initial transients of solutions of the semiconductor device equations. 91c:65152
- Taylor, A. B. (with King, John Robert) Free boundaries in semi-conductor fabrication. 91h:35260
- Touzañi, Rachid *see* Besson, Olivier; et al., 91h:76105
- Trof'yakov, O. A. *see* Belogortsev, A. B.; et al., 91c:58105
- Turchetti, G. Nekhoroshev stability estimates for symplectic maps and physical applications. 91i:58125
- Urbach, H. P. Analysis of a model for imaging in photolithography. 91a:35157
- Vavriš, D. M. *see* Belogortsev, A. B.; et al., 91c:58105
- Velosov, K. A. (with Danilov, V. G.) A model of thermal oxidation of silicon. (Russian) 91h:80016
- Watters, D. G. *see* Kriegsmann, Gregory A.; et al., 91c:80008
- Zabov, V. I. Construction of controlling force fields. 91m:70038

78A60 Lasers, masers, optical bistability, nonlinear optics [see also 81V80]

- Arecchi, F. T. Instabilities and chaos in lasers: introduction to hyperchaos. (*see* 91c:82002)
- Forysiak, W. *see* Harrison, R. G.; et al., (91b:00046)
- Harrison, R. G. (with Forysiak, W.; Moloney, Jerome V.) Regular and chaotic dynamics of coherently pumped 3-level lasers. (*see* 91b:00046)
- Hobbs, Ann Kahlow (with Kath, William L.) Loss and birefringence for arbitrarily bent optical fibres. 91c:78026
- Holm, Darryl D. Order and chaos in polarized nonlinear optics. (*see* 91m:58002)
- Kath, William L. *see* Hobbs, Ann Kahlow, 91c:78026
- Moloney, Jerome V. *see* Harrison, R. G.; et al., (91b:00046)
- Items with secondary classifications in 78A60
- Bandrank, A. D. *see* McCann, J. F., 91m:81342
- Botko, B. B. (with Petrov, N. S.) ★ Отражение света от усиливающих и нелинейных сред. (Russian) [Reflection of light from amplifying and nonlinear media] 91h:78001
- Brancher, J.-P. *see* Henrot, A.; et al., (91b:00050)
- David, D. (with Holm, Darryl D.; Tratnik, M. V.) Chaotic behavior in nonlinear polarization dynamics. 91f:58058
- Grigor'eva, E. V. (with Kashchenko, S. A.; Loiko, N. A.; Samson, A. M.) Application of asymptotic methods to the investigation of steady-state regimes of generation in lasers with a nonlinear delay element. (Russian. English summary) 91d:34073
- Henrot, A. (with Brancher, J.-P.; Pierre, M.) Existence of equilibria in electromagnetic casting. (*see* 91h:00050)
- Holm, Darryl D. *see* David, D.; et al., 91f:58058
- Ikeda, Ken-ichi (with Otsuka, Kenji; Matsumoto, Kenji) Maxwell-Bloch turbulence. 91m:81340
- Kashchenko, S. A. *see* Grigor'eva, E. V.; et al., 91d:34073
- Loiko, N. A. *see* Grigor'eva, E. V.; et al., 91d:34073
- Malomed, B. A. Polarization dynamics and interactions of solitons in a birefringent optical fiber. 91m:35205
- Matsumoto, Kenji *see* Ikeda, Ken-ichi; et al., 91m:81340
- McCann, J. F. (with Bandrank, A. D.) Eigenvalues of the Zakharov-Shabat equations by semiclassical approximation. 91m:81342
- Otsuka, Kenji *see* Ikeda, Ken-ichi; et al., 91m:81340
- Petrov, N. S. *see* Botko, B. B., 91h:78001
- Pierre, M. *see* Henrot, A.; et al., (91b:00050)
- Pomeau, Yves Diffusion de phase d'un autooscillateur avec effet de retard. (English summary) [The effect of a delay term on phase diffusion of a self-oscillator] 91d:34037
- Samson, A. M. *see* Grigor'eva, E. V.; et al., 91d:34073
- Tratnik, M. V. *see* David, D.; et al., 91f:58058

78A70 Biological applications [see also 92C30, 92J30]

- Schempp, Walter Neurocomputer architectures. 91c:78027
- Items with secondary classifications in 78A70
- Gutman, Semion Alternating directions method for impedance computed tomography. 91a:35165

78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

- Duvernoy, J. Volterra-Wiener partially coherent imaging systems: three-dimensional objects and generalized *G* functionals. 91c:78034
- Items with secondary classifications in 78A97
- Hartmann, F. (with Toffano, Z.) Relativistic electrodynamics of continuous media. 91g:78003

Toffano, Z. *see* Hartmann, F., 91g:78003

78A99 Miscellaneous topics

- Akduman, I. *see* Idemen, Mithat, 91g:78017
- Barut, Asim O. (with Önem, Coskun; Ünal, Nuri) The classical relativistic two-body problem with spin and self-interactions. 91a:78016
- Bhandari, Rajendra Classical light waves and spinors. 91a:78017
- Duplantier, Bertrand Exact curvature energies of charged membranes of arbitrary shapes. 91h:78011
- Gagnon, Langis Similarity properties and nonlinear effects on optical precursors. 91j:78012
- Gusev, E. L. A priori estimates in problems of the synthesis of interference coverings. 91h:78025
- Hatzikostantinou, P. (with Moysides, P. G.) Explanation of the ball bearing motor and exact solutions of the related Maxwell equations. 91c:78028
- Hawkes, Peter W. Lie methods in optics: an assessment. (*see* 91a:78001)
- Idemen, Mithat (with Akduman, I.) Two-dimensional inverse scattering problems connected with bodies buried in a slab. 91g:78017
- Katauskis, Pranas *see* Skakauskas, Vladas, (Not in MR)
- Kikas, Jaak On spatio-temporal symmetry of spectral hole-burning. 91d:78006
- Moysides, P. G. *see* Hatzikostantinou, P., 91c:78028
- Nassif, Nabil R. A scaling method in the numerical analysis solution of the current continuity equations in semiconductor analysis. 91c:78029
- Önem, Coskun *see* Barut, Asim O.; et al., 91a:78016
- Pomphrey, N. *see* Reisman, A. H., (Not in MR)
- Reisman, A. H. (with Pomphrey, N.) Computation of magnetic coordinates and action-angle variables. (Not in MR)
- Schempp, Walter Holographic image processing, coherent optical computing, and neural computer architecture for pattern recognition. (*see* 91a:78001)
- Skakauskas, Vladas Unique solvability of a problem of the magnetization of a medium of one-domain particles in the three-dimensional case. (Russian. English and Lithuanian summaries) (Not in MR)
- (with Katauskis, Pranas) Unique solvability of a problem of the magnetization of a medium of one-domain particles in the two-dimensional case. (Russian. English and Lithuanian summaries) (Not in MR)
- Syrovat, V. A. Exact solutions of the equations for a beam near a surface. 91a:78018
- Ünal, Nuri *see* Barut, Asim O.; et al., 91a:78016

Items with secondary classifications in 78A99

- Abuladze, I. O. (with Korshiya, T. K.) On the solvability of some nonisothermal diffusion problems. (Russian. English and Georgian summaries) 91f:35129
- Anishchenko, V. S. ★ Сложные колебания в простых системах. (Russian) [Complex oscillations in simple systems] 91j:58098
- Avellaneda, Marco (with Bruno, Oscar P.) Effective conductivity and average polarizability of random polycrystals. 91f:82070
- Bruno, Oscar P. *see* Avellaneda, Marco, 91f:82070
- Cai, Y. Q. (with Papini, G.; Wood, W. R.) Berry's phase for photons and topology in Maxwell's theory. 91j:81102
- Charakhch'yan, A. A. Computation of viscous plasma heating under compression by a striker in a conical target. (Russian) 91g:76106
- Danilyuk, I. I. (with Kocheshkov, G. V.) Existence and uniqueness of a weak solution in a model of a thermophysical process. (Russian) 91c:80007
- Dragt, Alex J. *see* Healy, Liam M., 91a:78001
- Feng, James Q. A method of multiple-parameter perturbations with an application to drop oscillations in an electric field. 91g:76103
- Flynn, William G. *see* Littlejohn, Robert G., (Not in MR)
- Gisser, D. G. (with Isaacson, David; Newell, J. C.) Electric current computed tomography and eigenvalues. 91j:35280
- Healy, Liam M. (with Dragt, Alex J.) Concatenation of Lie algebraic maps. (*see* 91a:78001)
- Hillion, Pierre The Goursat problem for Maxwell's equations. 91j:35263
- Isaacson, David *see* Gisser, D. G.; et al., 91j:35280
- James, Richard Dana Relation between microscopic and macroscopic properties in crystals undergoing phase transformation. 91c:73012
- Kocheshkov, G. V. *see* Danilyuk, I. I., 91c:80007
- Korshiya, T. K. *see* Abuladze, I. O., 91f:35129
- Krzywicki, A. (with Nadzieja, Tadek) Radially symmetric Poisson-Boltzmann equation in a domain expanding to infinity. 91d:35072
- Kublikov, V. L. *see* Vatal'yan, A. O., 91a:73059
- Lan, Hui Bin (with Wang, Ke Lin) Exact solutions for some coupled nonlinear equations. II. 91k:35050b
- Leib, Elliott H. Integral bounds for radar ambiguity functions and Wigner distributions. 91f:81076
- Littlejohn, Robert G. (with Flynn, William G.) Geometric phases and the Bohr-Sommerfeld quantization of multicomponent wave fields. (Not in MR)
- Lo, Y. V. Unified field theory for space-time systems. 91a:94014
- Geometrical channel models for space-time systems. 91a:94015
- Martin, Clyde Franklin (with Xie, Shishen) Observability of the electropotential on a nested cylindrical domain. I. The continuous solution. 91h:92014
- (with Xie, Shishen) Observability of the electropotential on a nested cylindrical domain. II. Numerical solution. 91h:92015
- Maugin, Gérard A. *see* Sabir, M., 91c:73073
- Nadzieja, Tadek *see* Krzywicki, A., 91d:35072
- Newell, J. C. *see* Gisser, D. G.; et al., 91j:35280
- Orsingher, Enzo Probability law, flow function, maximum distribution of wave-governed random motions and their connections with Kirchhoff's laws. 91g:60086
- Papini, G. *see* Cai, Y. Q.; et al., 91j:81102
- Sabir, M. (with Maugin, Gérard A.) Microscopic foundations of the Barkhausen effect. (Russian and Polish summaries) 91c:73073
- Shchekacheva, T. I. *see* Tarceva, E. E., (Not in MR)

- Stevenson, Randy C. Green's function for the Helmholtz equation of a scalar wave in an anisotropic halfspace. 91c:35076
- Tareeva, E. E. (with Shchelkacheva, T. I.) Exact solution of one-dimensional model with reduced quadrupole interaction. (Not in MR)
- Vatal'yan, A. O. (with Kublikov, V. L.) Boundary integral equations in electroelasticity. 91a:73059
- Wang, Ke Lin see Lan, Hui Bin, 91b:35050b
- Wood, W. R. see Cai, Y. Q.; et al., 91j:81102
- Xie, Shishen see Martin, Clyde Franklin, 91h:92014 and 91b:92015
- Yorkey, Thomas J. Electrical impedance tomography with piecewise polynomial conductivities. (Not in MR)

80-XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80-01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 80-01

- Görlich, Roland ★ Thermodynamik dissipativer Zwei-Zustands-Systeme. (German) [Thermodynamics of dissipative two-state systems] 91m:80003
- Huang, Kerson ★ Statistical mechanics. 91d:82001
- Schmutzer, Ernst ★ Grundlagen der Theoretischen Physik. Teil I. (German) [Foundations of theoretical physics. Part I] 91b:00003a

80-02 Research exposition (monographs, survey articles)

Items with secondary classifications in 80-02

- (Pelcé, Pierre) see Dynamics of curved fronts, 91b:76002

Items listed otherwise than by author

- Dynamics of curved fronts ★ Dynamics of curved fronts. 91b:76002

80-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 80-03

- Bai, Jin Hui (with Dai, Zhi Song) The progress of research in the theory of entropy, and its significance. (Chinese. English summary) (Not in MR)
- Binkas, Horst Sadi Carnot und der II. Hauptsatz der Thermodynamik. [Sadi Carnot and the second law of thermodynamics] 91c:01034
- Blackmore, John Ernst Mach leaves "The church of physics". 91b:83001
- (Carnot, Nicolas Léonard Sadi) see Krug, Klaus, 91c:01033 and Binkas, Horst, 91c:01034
- Dai, Zhi Song see Bai, Jin Hui, (Not in MR)
- Ebeling, Werner (with Hoffmann, Dieter) Die Berliner Schule der Thermodynamik. [The Berlin School of thermodynamics] 91b:01040
- Hoffmann, Dieter see Ebeling, Werner, 91b:01040
- Krug, Klaus Sadi Carnot—sein prägender Einfluss auf die Entwicklung der Thermodynamik. [Sadi Carnot—his formidable influence on the development of thermodynamics] 91c:01033
- (Mach, Ernst) see Blackmore, John, 91b:83001

80-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 80-04

- Tacke, K.-H. Application of finite difference enthalpy methods to dendritic growth and ripening. (see 91g:80044)

80-06 Proceedings, conferences, collections, etc.

- (Larrourou, Bernard) see Recent advances in combustion modelling, 91m:80001

Items listed otherwise than by author

- Recent advances in combustion modelling ★ Recent advances in combustion modelling. 91m:80001

- Requenaourt ★ Recent advances in combustion modelling. 91m:80001

Session:

- Combustion Modelling ★ Recent advances in combustion modelling. 91m:80001

Items with secondary classifications in 80-06

- (Engelbrecht, Jiri K.) see Nonlinear waves in active media, 91b:00046
- (Hoffmann, Karl-Heinz) see Free boundary problems: theory and applications, 91g:00044
- (Kirschner, Klaus) see Problems involving change of type, 91b:35001
- (Mitropolskii, Yu. A.) see Mathematical modeling of physical processes, 91c:35003
- (Sprekels, Jürgen) see Free boundary problems: theory and applications, 91g:00044

Items listed otherwise than by author

Colloquium:

- Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and applications. Vol. II. 91g:00044
- Nonlinear Waves in Active Media ★ Nonlinear waves in active media. 91b:00046

Conference:

- Problems Involving Change of Type ★ Problems involving change of type. 91b:35001
- Free boundary problems: theory and applications ★ Free boundary problems: theory and applications. Vol. II. 91g:00044
- Isee ★ Free boundary problems: theory and applications. Vol. II. 91g:00044
- Lecture Notes in Physics ★ Problems involving change of type. 91b:35001
- Mathematical modeling of physical processes ★ Математическое моделирование физических процессов. (Russian) [Mathematical modeling of physical processes] 91c:35003
- Nonlinear waves in active media ★ Nonlinear waves in active media. 91b:00046
- Problems involving change of type ★ Problems involving change of type. 91b:35001
- Stuttgart ★ Problems involving change of type. 91b:35001
- Tallinn ★ Nonlinear waves in active media. 91b:00046

80-08 Computational methods

- Bayliss, A. (with Kuske, R.; Matkowsky, Bernard J.) A two-dimensional adaptive pseudo-spectral method. 91b:80001
- Bialecki, R. Solving nonlinear heat transfer problems by BEM. 91c:80001
- Cannon, John R. (with Lin, Yanping; Wang, Shingmin) An implicit finite difference scheme for the diffusion equation subject to mass specification. 91b:80001
- Fazio, Riccardo The iterative transformation method and length estimation for tubular flow reactors. 91m:80002
- Kostenko, Yu. T. (with Lyubchik, L. M.; Neznamova, E. V.) Modification of a finite-element method to calculate temperature fields averaged over one coordinate. 91b:80002
- Kuske, R. see Bayliss, A.; et al., 91b:80001
- Li, Li Kang Extrapolation of a difference method for solving heat-conduction equations. (Chinese. English summary) 91d:80001
- Lin, Yanping see Cannon, John R.; et al., 91b:80001
- Lyubchik, L. M. see Kostenko, Yu. T.; et al., 91b:80002
- Matkowsky, Bernard J. see Bayliss, A.; et al., 91b:80001
- McEnery, B. G. (with Quinlan, M. H.) The lap-edge method for 2-D problems in heat conduction for loaded polygonal regions with circular cavities. (see 91b:80041)
- Neimark, A. Yu. (with Smirnova, V. N.) Use of the locally one-dimensional method and the method of auxiliary nets in problems of nonstationary heat conductivity. (Russian) (Not in MR)
- Neznamova, E. V. see Kostenko, Yu. T.; et al., 91b:80002
- Nowak, A. J. The multiple reciprocity method of solving transient heat conduction problems. (see 91f:80015)
- Qian, Ren Zhang A finite element method for nonlinear unsteady heat conduction. (Chinese. English summary) (Not in MR)
- Qin, Shi Lam The perturbation finite element method for solving nonlinear heat conduction problems. (Chinese. English summary) (Not in MR)
- Quinlan, M. H. see McEnery, B. G., (91b:80041)
- Ramaswamy, B. A new finite element method for conductive convective heat transfer problems. 91b:80003
- Smirnova, V. N. see Neimark, A. Yu., (Not in MR)
- Wang, Shingmin see Cannon, John R.; et al., 91b:80001

Items with secondary classifications in 80-08

- Anisimov, A. V. see Zhukova, T. B.; et al., (Not in MR)
- Anwar, Mohamed Naim Y. Parallel algorithms for a free boundary problem from the field of corrosion engineering. 91a:80001
- Akar, Atilla see Peirce, Anthony P.; et al., 91d:65183
- Banks, H. T. (with Kojima, Fumio; Winfree, W. P.) Boundary estimation problems arising in thermal tomography. 91b:80003
- Bourloux, Anne (with Majda, Andrew J.; Roytburd, Victor) Theoretical and numerical structure for unstable one-dimensional detonations. 91m:76090
- (Brebba, C. A.) see Boundary elements X, 91b:00041
- Cannon, John R. (with Lin, Yanping) A Galerkin procedure for diffusion equations with boundary integral conditions. 91g:65237
- Chen, Zhong Ying A generalized difference method for equations of heat conduction. (Chinese. English summary) 91c:80005
- Chinosi, Claudia (with Comodi, Maria Isabella) Numerical approximation of the stationary points of a nondifferentiable functional. (Italian. English summary) 91h:65114
- Cohen, Stuart B. (with Kirschner, Ivan N.) Approximating the Dirac distribution for Fourier analysis. 91m:65338
- Comodi, Maria Isabella see Chinosi, Claudia, 91h:65114
- Dewynne, J. N. (with Howison, S. D.; Ockendon, J. R.) The numerical solution of a continuous casting problem. (see 91m:35004)
- Duncan, Dugald B. A simple and effective self-adaptive moving mesh for enthalpy formulations of phase change problems. 91m:65292
- Dutra de Carmo, Eduardo G. see Franca, Leopoldo P., 91a:80003
- Franca, Leopoldo P. (with Dutra de Carmo, Eduardo G.) Strong source heat transfer simulations based on a Galerkin/gradient-least-squares method. 91a:80003
- French, Donald A. Computations on the Cahn-Hilliard model of solidification. 91g:80008
- Ghlassi, M. (with Larrourou, Bernard) Upwind computation of steady planar flames with complex chemistry. (French summary) 91f:80006
- Hoppe, Ronald H. W. (with Kornhuber, Ralf) Multi-grid solution of two coupled Stefan equations arising in induction heating of large steel slabs. 91g:80009
- Howison, S. D. see Dewynne, J. N.; et al., (91m:35004)
- Huang, Hui-Cheng (with Lewis, R. W.) Adaptive analysis for heat flow problems using error estimation techniques. 91a:80004
- Ivanov, V. T. (with Shcherbinin, S. A.) Methods for the calculation and analysis of interacting physical processes. (Russian) 91f:80002
- Kafarov, V. V. see Zhukova, T. B.; et al., (Not in MR)
- Khankishiev, Z. F. Application of the grid method to the solution of a heat conduction problem for a rod on the ends of which two masses are fixed. (Russian) 91m:80006
- Kirschner, Ivan N. see Cohen, Stuart B., 91m:65338
- Kojima, Fumio see Banks, H. T.; et al., 91b:80003

- Kornhuber, Ralf *see* Hoppe, Ronald H. W., 91g:80009
- Larroustou, Bernard *see* Ghilani, M., 91j:80006
- Lewis, R. W. *see* Huang, Hou-Cheng, 91a:80004
- Lin, Yanping *see* Cannon, John R., 91g:65237
- Liu, Gao Lian A novel variational formulation of inverse problem of heat conduction with free boundary on an image plane. 91a:80006
- Majda, Andrew J. (with Roytburd, Victor) Numerical modeling of the initiation of reacting shock waves. 91b:80023
- *see also* Bourloux, Anne; et al., 91m:76090
- Malecki, Romuald (with Olszewski, Paweł; Urbanowicz, Jacek; Urbanski, Wojciech) On a contact problem for a system of parabolic equations in the thermal conductivity of electric machines. I, II. 91k:80004
- Mamedov, Yu. M. An approach to the solution of two-dimensional nonlinear problems of heat conduction by the potential method. (Russian) 91g:80007
- Nochetto, Ricardo H. (with Paolini, M.; Verdi, C.) Local mesh refinements for two-phase Stefan problems in two space variables. 91b:80019
- Ockendon, J. R. *see* Dewynne, J. N.; et al., (91m:35004)
- Olszewski, Paweł *see* Malecki, Romuald; et al., 91k:80004
- Pani, A. K. A finite element approximation to the unidimensional nonlinear ablation problem. 91a:80007
- Paolini, M. *see* Nochetto, Ricardo H.; et al., 91b:80019
- Peirce, Anthony P. (with Askar, Atilla; Rabitz, Herschel) Convergence properties of a class of boundary element approximations to linear diffusion problems with localized nonlinear reactions. 91d:65183
- Rabitz, Herschel *see* Peirce, Anthony P.; et al., 91d:65183
- Roubicek, Tomáš A finite-element approximation of Stefan problems in heterogeneous media. (see 91m:35004)
- Roytburd, Victor *see* Majda, Andrew J., 91b:80023 and Bourloux, Anne; et al., 91m:76090
- Rubtsov, V. V. (with Surinov, Yu. A.) Methods for solving nonstationary problems in the theory of radiation-conduction heat exchange. 91d:80007
- Shcherbinin, S. A. *see* Ivanov, V. T., 91f:80002
- Stuart, Andrew A note on high/low-wave-number interactions in spatially discrete parabolic equations. 91c:65080
- Surinov, Yu. A. *see* Rubtsov, V. V., 91d:80007
- Urbanowicz, Jacek *see* Malecki, Romuald; et al., 91k:80004
- Urbanski, Wojciech *see* Malecki, Romuald; et al., 91k:80004
- Verdi, C. *see* Nochetto, Ricardo H.; et al., 91b:80019
- Vollbrecht, Petra Anwendung der Jackknife-Methode bei der Parameterschätzung in der Wärmeleitungsgleichung. (English and Russian summaries) [Application of the jackknife procedure for parameter estimates in the heat equation] 91c:80012
- Winfrey, W. P. *see* Banks, H. T.; et al., 91k:80003
- Znakova, T. B. (with Kafarov, V. V.; Anisimov, A. V.) Solution of a nonlinear stationary boundary value problem by the Newton method. (Russian) (Not in MR)

Items listed otherwise than by author

- Boundary elements X ★ Boundary elements X. Vol. 1. 91b:80041
- Conference:
- Boundary Element Methods ★ Boundary elements X. Vol. 1. 91b:80041
- Southampton ★ Boundary elements X. Vol. 1. 91b:80041

80A05 Foundations

- Collier, John D. Two faces of Maxwell's demon reveal the nature of irreversibility. (Not in MR)
- Gurtin, Morton E. On diffusion in two-phase systems: the sharp interface versus the transition layer. 91b:80002
- Liu, Ze Wen Four-dimensional representations of relativistic thermodynamics. (Chinese. English summary) 91j:80001
- (Maxwell, James Clerk) *see* Collier, John D., (Not in MR)
- Ratt, Hans Approximation versus Idealisierung: Das Verhältnis zwischen idealem und van der Waalschem Gasgesetz. [Approximation versus idealization: the relationship between the ideal and van der Waals' gas law] (see 91f:80018)
- Ruggieri, Tommaso Convexity and symmetrization in relativistic theories. Privileged time-like congruence and entropy. 91e:80001

Items with secondary classifications in 80A05

- Caves, Carlton M. Quantitative limits on the ability of a Maxwell demon to extract work from heat. 91d:82030
- Finochiaro, P. (with Restuccia, L.) Growth of thermo-acceleration waves in a model of irreversible thermodynamics. (Italian summary) 91e:80002
- Grigorenko, A. N. Geometrical phase and thermodynamics. 91b:81042
- Janyasz, H. (with Mrugał, R.) Geometrical structure of the state space in classical statistical and phenomenological thermodynamics. 91f:82011
- Joseph, Daniel D. (with Preziosi, Luigi) Addendum to the paper: "Heat waves" [Rev. Modern Phys. 61 (1989), no. 1, 41-73; MR 89k:80001]. 91e:80003
- Mrugał, R. *see* Janyasz, H., 91f:82011
- Preziosi, Luigi *see* Joseph, Daniel D., 91e:80003
- Restuccia, L. *see* Finochiaro, P., 91e:80002
- Vojta, G. *see* Zylka, Christian, 91k:26022
- Zylka, Christian (with Vojta, G.) Thermodynamic proofs of algebraic inequalities. 91k:26022

80A10 Classical thermodynamics

- Agrawal, D. C. (with Menon, V. J.) Performance of a Carnot refrigerator at maximum cooling power. (Not in MR)
- Anthony, K.-H. Phenomenological thermodynamics of irreversible processes within Lagrange formalism. 91j:80002
- Berdichevskii, V. L. Law of evolution to equilibrium in nonlinear thermodynamics. 91g:80001

- Berry, R. Stephen *see* Orlov, V. N., 91k:80002
- Bhalekar, Anil A. On the generalized phenomenological irreversible thermodynamic theory (GPITT). 91d:80002
- Calaniello, Eduardo R. (with Noce, C.) A metric model for thermodynamics: uncertainty relations. 91g:80002
- Cheng, Wei Ji (with Guo, Qi Ti) Eight-point straight-line-net-diagrams of binary six-phase ($n+4$) multisystems. II. Derivation from theory of physically real nets. 91d:80011
- Day, William Alan Neither asymptotic stability nor nonrecurrence is a sufficient basis for the second law. 91k:80001
- Dinariev, O. Yu. Some properties of relaxation kernels in systems with heredity. 91d:80003
- Frémond, Michel (with Nicolas, Pierre) Macroscopic thermodynamics of porous media. 91b:80003
- Gärlich, Roland ★ Thermodynamik dissipativer Zwei-Zustands-Systeme. (German) [Thermodynamics of dissipative two-state systems] 91m:80003
- Guo, Qi Ti *see* Cheng, Wei Ji, 91d:80011
- Kock, Jerzy On geometry of phenomenological thermodynamics. (see 91m:81007)
- Liu, I-Shih On Fourier's law of heat conduction. 91b:80004
- Menon, V. J. *see* Agrawal, D. C., (Not in MR)
- Nicolas, Pierre *see* Frémond, Michel, 91b:80003
- Noce, C. *see* Calaniello, Eduardo R., 91g:80002
- Orlov, V. N. (with Berry, R. Stephen) Power output from an irreversible heat engine with a nonuniform working fluid. 91k:80002
- Ostapenko, V. V. (with Polyakov, N. V.) On calculating temperature fields for bodies of complex form. (Russian) (see 91b:80029)
- Perroud, M. Thermodynamics of dissipative systems. II. 91c:80002
- Pitteri, Mario Some theorems for an axiomatic theory of temperature. (Italian summary) 91m:80004
- Polyakov, N. V. *see* Ostapenko, V. V., (91b:80029)
- Seccia, L. (with Strumia, A.) Wave propagation in relativistic extended thermodynamics. 91b:80004
- Strumia, A. *see* Seccia, L., 91b:80004
- Xu, Qi Ming Thermodynamic characteristic function. 91f:80001
- Yang, Zhi An Applications of harmonic mappings in linear nonequilibrium thermodynamics. (Chinese. English summary) 91d:80004

Items with secondary classifications in 80A10

- Dubois, F. Concavity of the thermodynamic entropy and convexity of Lax's mathematical entropy. 91j:76051
- Grmela, M. (with Lebon, G.) Hamiltonian extended thermodynamics. 91m:82052
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- Lavenda, B. H. Probabilistic derivation of van der Waals' equation. 91j:82025
- Lebon, G. *see* Grmela, M., 91m:82052
- Liu, Ze Wen Four-dimensional representations of relativistic thermodynamics. (Chinese. English summary) 91j:80001
- Makai, Mihály Economic physics. (Hungarian. English summary) 91a:90050
- Mukhambetzhano, S. T. *see* Kaliev, I. A.; et al., 91k:86011
- Nicolas, Pierre Liquid-vapour phase change in porous media. 91b:80013
- Preziosi, Luigi *see* Joseph, Daniel D., 91e:80003
- Razinkov, E. N. *see* Kaliev, I. A.; et al., 91k:86011
- Ruggieri, Tommaso Stability, thermodynamics and discontinuity waves for hyperbolic systems with a convex extension. 91b:35214
- Convexity and symmetrization in relativistic theories. Privileged time-like congruence and entropy. 91e:80001
- Varchenko, A. N. Rearrangements of convex hulls and phase transitions in thermodynamics. (Russian) 91h:58009
- Vojta, G. Symplectic formalism for the thermodynamics of irreversible processes. (German summary) 91k:82050

80A15 Thermodynamics of mixtures

- Bree, J. Nonequilibrium thermodynamics of heterogeneous systems and history dependent materials. 91c:80003
- Gouin, Henri Variational theory of mixtures in continuum mechanics. 91j:80003
- Iannace, Donatella (with Romano, Antonio; Starita, Giulio) The Gibbs principle for the equilibrium of systems with two simple or composed phases. (Italian summary) 91d:80005
- Romano, Antonio *see* Iannace, Donatella; et al., 91d:80005
- Samehly, I. (with Silhavy, M.) Mixture invariance and its applications. 91b:80005
- Silhavy, M. *see* Samehly, I., 91b:80005
- Starita, Giulio *see* Iannace, Donatella; et al., 91d:80005

Items with secondary classifications in 80A15

- Almgren, Frederick J., Jr. (with Gurtin, Morton E.) A mathematical contribution to Gibbs's analysis of fluid phases in equilibrium. 91b:76009
- Baldo, Sisto Minimal interface criterion for phase transitions in mixtures of Cahn-Hilliard fluids. (French summary) 91j:76005
- Bouchitté, Guy Singular perturbations of variational problems arising from a two-phase transition model. 91d:49016
- Gouin, Henri Variational method for fluid mixtures of grade n . (see 91m:00030)
- Gurtin, Morton E. *see* Almgren, Frederick J., Jr., 91b:76009
- Novick-Cohen, A. (with Pego, Robert L.) Stable patterns in a viscous diffusion equation. 91f:35152

- Pego, Robert L. *see* Novick-Cohen, A., 91f:35152
 Sangani, A. S. Conductivity of N -dimensional composites containing hyperspherical inclusion. 91d:35057

80A20 Heat and mass transfer, heat flow

- Anwar, Mohamed Naim Y. Parallel algorithms for a free boundary problem from the field of corrosion engineering. 91a:80001
 Atanacković, T. M. (with Djukic, Djorde Slavka; Strauss, A. M.) Variational principle and error estimate for a nonlinear heat conduction problem. (German and Serbo-Croatian summaries) 91d:80006
 Bajpai, S. D. (with Mishra, Sadhana) Meijer's G -function and the conduction of heat on a flat earth. 91g:80003
 — (with Mishra, Sadhana) Meijer's G -function and heat conduction in a rod under Robin condition. (Hindi. English summary) (Not in MR)
 Banks, H. T. (with Kojima, Fumio; Winfree, W. P.) Boundary estimation problems arising in thermal tomography. 91k:80003
 Beckers, J.-M. An anomalous nonlinear heat-conduction problem (improvement). 91g:80004
 Bish, R. L. Temperatures in a thin metal plate traversed by an arc. 91g:80005
 Brodwin, M. E. *see* Kriegsmann, Gregory A.; et al., 91c:80008
 Buktanidze, A. A. (with Cherepanov, G. P.) A problem on the cooling of an isolated heat-releasing rod by the flow of a liquid. (Russian) (see 91b:80025)
 Caviglia, Giacomo (with Morro, Angelo) Conservation laws in heat conduction with memory. (Italian summary) 91c:80004
 Chen, Cha'o-Kuang *see* Wu, Wen Jyl, 91d:80008
 Chen, Zhong Ying A generalized difference method for equations of heat conduction. (Chinese. English summary) 91c:80005
 Cherepanov, G. P. *see* Buktanidze, A. A., 91b:80025
 Christov, Christo Ivanov (with Markov, Konstantin Z.) Stochastic functional expansion for heat conductivity of polydisperse perfectly disordered suspensions. (Russian summary) 91c:80006
 Comparini, E. (with Manni, Carla) On a model for the temperature distribution in moving bimetallic strips. (Italian summary) 91m:80005
 Danilov, V. G. *see* Volosov, K. A., 91b:80016
 Danilyuk, I. I. (with Kocheshkov, G. V.) Existence and uniqueness of a weak solution in a model of a thermophysical process. (Russian) 91c:80007
 Davis, Stephen H. Hydrodynamic interactions in directional solidification. 91a:80002
 Dimova-Borshakova, Stefka (with Kaschiev, M. S.; Kurdyumov, S. P.) Numerical analysis of the eigenfunctions of the burning of a nonlinear medium in the radially symmetric case. 91b:80006
 Djukic, Djorde Slavka *see* Atanacković, T. M.; et al., 91d:80006
 Dutra de Carmo, Eduardo G. *see* Franca, Leopoldo P., 91a:80003
 Filippov, L. K. Frontal regimes in the dynamics of the physical adsorption of a mixture. 91b:80007
 Finocchiaro, P. (with Restuccia, L.) Growth of thermo-acceleration waves in a model of irreversible thermodynamics. (Italian summary) 91c:80002
 Franca, Leopoldo P. (with Dutra de Carmo, Eduardo G.) Strong source heat transfer simulations based on a Galerkin/gradient-least-squares method. 91a:80003
 Goh, I. O. *see* Kolyano, Yu. M., 91b:80009
 Howison, S. D. (with Xie, Wei Qing) Kinetic undercooling regularization of supercooled Stefan problems. 91b:80008
 Huang, Hou-Cheng (with Lewis, R. W.) Adaptive analysis for heat flow problems using error estimation techniques. 91a:80004
 Huppert, Herbert E. The fluid mechanics of solidification. 91a:80005
 Ignaczak, József Errata: "Solitons in a nonlinear rigid heat conductor" [J. Thermal Stresses 12 (1989), no. 3, 403–423; MR 90g:80008]. (Not in MR)
 Irin, A. V. *see* Rivkind, V. Ya., 91c:80011
 Ivanov, V. T. (with Shcherbinin, S. A.) Methods for the calculation and analysis of interacting physical processes. (Russian) 91f:80002
 Joseph, Daniel D. (with Preziosi, Luigi) Addendum to the paper: "Heat waves" [Rev. Modern Phys. 61 (1989), no. 1, 41–73; MR 89k:80001]. 91c:80003
 Kaschiev, M. S. *see* Dimova-Borshakova, Stefka; et al., 91b:80006
 Khankishiev, Z. F. Application of the grid method to the solution of a heat conduction problem for a rod on the ends of which two masses are fixed. (Russian) 91m:80006
 King, John Robert Mathematical analysis of a model for substitutional diffusion. 91g:80006
 Kocheshkov, G. V. *see* Danilyuk, I. I., 91c:80007
 Kojima, Fumio *see* Banks, H. T.; et al., 91b:80003
 Kolyano, Yu. M. (with Goh, I. O.) A nonclassical problem of heat conduction for crystals with inclusions. (Russian) 91b:80009
 Krabs, Werner On time-minimal heating or cooling of a ball. 91b:80010
 Kriegsmann, Gregory A. (with Brodwin, M. E.; Watters, D. G.) Microwave heating of a ceramic halfspace. 91c:80008
 Kurdyumov, S. P. *see* Dimova-Borshakova, Stefka; et al., 91b:80006
 Letavin, M. I. A boundary layer in a problem of heating a rotating cylinder. (Russian) 91b:80011
 Lewis, R. W. *see* Huang, Hou-Cheng, 91a:80004
 Liu, Gao Lian A novel variational formulation of inverse problem of heat conduction with free boundary on an image plane. 91a:80006
 Makarenko, A. S. Mathematical modeling of processes of heat propagation based on generalized heat equations. (Russian) 91m:80007
 Malecki, Romuald (with Olszewski, Pawel; Urbanowicz, Jacek; Urbanowski, Wojciech) On a contact problem for a system of parabolic equations in the thermal conductivity of electric machines. I, II. 91k:80004
 Mamedov, Yu. M. An approach to the solution of two-dimensional nonlinear problems of heat conduction by the potential method. (Russian) 91g:80007
 Manganaro, N. Invariant solutions and wave features related to a nonlinear hyperbolic model for heat conduction. 91b:80012
 Manni, Carla *see* Comparini, E., 91m:80005
 Markov, Konstantin Z. Bounds on the effective transverse conductivity of fibre materials. (Russian summary) 91c:80009
 — On the heat propagation problem for random dispersions of spheres. 91c:80010
 — *see also* Christov, Christo Ivanov, 91c:80006
 Mikhailov, V. V. Arrangement of the temperature measurement points and conditionality of inverse thermal conductivity problems. 91k:80005
 Mishra, Sadhana *see* Bajpai, S. D., 91g:80003 and (Not in MR)
 Morro, Angelo *see* Caviglia, Giacomo, 91c:80004
 Moskalenko, O. G. *see* Zibereva, M. V.; et al., 91c:80013
 Nesenjuk, A. P. *see* Zibereva, M. V.; et al., 91c:80013
 Nicolas, Pierre Liquid-vapour phase change in porous media. 91b:80013
 Olszewski, Pawel *see* Malecki, Romuald; et al., 91k:80004
 Paul, A. K. A finite element approximation to the unidimensional nonlinear ablation problem. 91a:80007
 Phillips, Christopher G. Heat and mass transfer from a film into steady shear flow. 91c:80004
 Preziosi, Luigi *see* Joseph, Daniel D., 91c:80003
 Radchenko, I. F. *see* Zibereva, M. V.; et al., 91c:80013
 Restuccia, L. *see* Finocchiaro, P., 91c:80002
 Rivkind, V. Ya. (with Irin, A. V.) Theoretical bases and numerical methods for solving heat-mass exchange problems with a free boundary and an unknown interface. (Russian) 91c:80011
 Rubtsov, V. V. (with Surinov, Yu. A.) Methods for solving nonstationary problems in the theory of radiation-conduction heat exchange. 91d:80007
 Saldanha da Gama, Rogério Martins A new mathematical model for energy transfer problems with radiative boundary conditions. 91b:80014
 Shcherbinin, S. A. *see* Ivanov, V. T., 91f:80002
 Shvets, R. N. (with Yatskiv, A. I.) Solution of a mixed boundary value problem of heat diffusion for layered bodies of canonical form. (Russian) 91m:80008
 Strauss, A. M. *see* Atanacković, T. M.; et al., 91d:80006
 Surinov, Yu. A. *see* Rubtsov, V. V., 91d:80007
 Troy, William C. Nonexistence of monotonic solutions in a model of dendritic growth. 91b:80015
 Tsirel'man, N. M. *see* Zhiber, A. V., 91d:80009
 Ünsal, Mazhar Complex finite Fourier transform techniques applied to thermal energy storage problems. (see 91g:42001)
 Urbanowicz, Jacek *see* Malecki, Romuald; et al., 91k:80004
 Urbanowski, Wojciech *see* Malecki, Romuald; et al., 91k:80004
 Völlbrecht, Petra Anwendung der Jackknife-Methode bei der Parameterschätzung in der Wärmeleitungsgleichung. (English and Russian summaries) [Application of the jackknife procedure for parameter estimates in the heat equation] 91c:80012
 Volosov, K. A. (with Danilov, V. G.) A model of thermal oxidation of silicon. (Russian) 91c:80016
 Watters, D. G. *see* Kriegsmann, Gregory A.; et al., 91c:80008
 Winfree, W. P. *see* Banks, H. T.; et al., 91b:80003
 Wu, Wen Jyl (with Chen, Cha'o-Kuang) Analysis of the transient response of a composite circular pin. 91d:80008
 Xie, Wei Qing *see* Howison, S. D., 91b:80008
 Xu, Jian Jun Asymptotic theory of steady axisymmetrical needlelike crystal growth. 91b:80017
 Yatskiv, A. I. *see* Shvets, R. N., 91m:80008
 Zhiber, A. V. (with Tsirel'man, N. M.) Exact solutions of the problem of adsorption-desorption dynamics with a nonlinear sorption isotherm. 91d:80009
 Zibereva, M. V. (with Moskalenko, O. G.; Nesenjuk, A. P.; Radchenko, I. F.) A mathematical model of the dynamics of a heat-exchange apparatus. (Russian) 91c:80013
- Items with secondary classifications in 80A20
 Aristov, V. V. (with Ivanov, Mikhail Samuilovich; Cheremisin, F. G.) Solution of a problem on one-dimensional heat transfer in a rarefied gas by two methods. (Russian) 91c:76086
 Bajpai, S. D. (with Mishra, Sadhana) An anharmonic Fourier analysis for use in problems of heat conduction and Meijer's G -function. 91m:33022
 Bellini-Merante, Aldo (with Lauro, Giuliana) Neutron transport and heat transfer in a region with free boundaries. (Italian summary) 91k:82069
 Bialecki, R. Solving nonlinear heat transfer problems by BEM. 91c:80001
 Bossavit, A. "Mixed" methods for a "vectorial" Stefan problem. (French summary) 91h:78022
 Brandon, Deborah Global existence and asymptotic stability for a nonlinear integrodifferential equation modeling heat flow. 91k:45007
 Batt, R. (with Rubio, J. E.) Optimal shapes for the control of nonlinear heat conduction. 91h:49043
 Caillerie, D. (with Dinari, B.) A perturbation problem with two small parameters in the framework of the heat conduction of a fiber reinforced body. 91b:35042
 Cheremisin, F. G. *see* Aristov, V. V.; et al., 91c:76086
 Cimatti, Giovanni The stationary thermistor problem with a current limiting device. 91h:35313
 Cimmelli, Vito Antonio (with Starita, Giulio) Nonlocal variational theories for systems with an interface. 91g:73003
 — (with Romano, Antonio; Starita, Giulio) The Gibbs principle for the equilibrium of crystals. 91g:73004
 Colli, Pierluigi An evolution problem related to shape memory alloys. 91d:35124
 — (with Rodrigues, José-Francisco) Diffusion through thin layers with high specific heat. 91h:35144
 — (with Frémond, Michel; Visintin, Augusto) Thermo-mechanical evolution of shape memory alloys. 91h:73009
 Davis, Stephen H. *see* Riley, D. S., 91m:76048
 Dewynne, J. N. (with Howison, S. D.; Ockendon, J. R.) The numerical solution of a continuous casting problem. (see 91m:35004)
 Dinari, B. *see* Caillerie, D., 91b:35042

- Dinariev, O. Yu. On the velocity of propagation of a signal in a fluid with relaxation. 91h:76013
- Drew, Donald A. Evolution of geometric statistics. 91h:76079
- Fasano, A. (with Primicerio, M.; Howison, S. D.; Ockendon, J. R.) Some remarks on the regularization of supercooled one-phase Stefan problems in one dimension. 91c:35162
- Feodoritova, O. B. *see* Zhukov, V. T., 91c:65223
- Frémond, Michel *see* Colli, Pierluigi; et al., 91h:73009
- Fushchich, V. I. (with Galitsyn, A. S.; Polubinskii, A. S.) A new mathematical model of heat conduction processes. 91g:35127
- Galaktionov, V. A. Sharp estimates for the amplitude and carrier of unbounded solutions of a nonlinear heat equation with a source. (Russian. English summary) 91h:35053
- Galitsyn, A. S. *see* Fushchich, V. I.; et al., 91g:35127
- Gautsien, A. K. (with Olmstead, W. E.) Small penalty control of the end temperature in a long rod. 91h:49005
- Göhde, D. Perturbation of temperature fields by a small inclusion. (German and Russian summaries) 91h:35019
- Gordinskii, L. D. (with Shuvar, R. A.) On the solution of nonlinear problems of heat conduction in layered bodies that contain ideally conducting layers. (Russian) 91h:35144
- Graham-Eagle, James (with Stakgold, I.) A steady-state diffusion problem with fractional power absorption rate. 91c:76103
- Grinfeld, M. A. Instabilities and waves in heterogeneous systems. 91d:76043
- Gudkov, V. V. (with Mikhailov, A. P.; Stepanova, V. V.) Localized compression regimes of a heat conducting gas. (Russian) 91c:76091
- Gurtin, Morton E. A mechanical theory for crystallization of a rigid solid in a liquid melt; melting-freezing waves. 91h:73010
- Hoffman, Joe D. *see* Wang, Bo Nian, 91c:76087
- Howard, Louis N. Limits on the transport of heat and momentum by turbulent convection with large-scale flow. 91h:76047
- Howison, S. D. *see* Fasano, A.; et al., 91c:35162 and Dewynne, J. N.; et al., (91m:35004)
- Işcan, D. On uniqueness and continuous dependence in nonlinear thermodynamics of electromagnetic materials. 91d:73006
- Ignaczak, Józef (with Mrówka-Matejewska, Elżbieta) One-dimensional Green's function in temperature-rate dependent thermoelasticity. 91d:73007
- Isakova, K. S. The spherical inverse Stefan problem with uniform motion of the boundary of phase transition. (Russian. Kazakh summary) 91d:35242
- Ivakhnenko, V. V. Solvability of nonlinear problems of two-component diffusion accompanied by a reaction. (Russian) 91f:35135
- Ivanov, Mikhail Samuilovich *see* Aristov, V. V.; et al., 91c:76086
- James, Richard Dana (with Kinderlehrer, David) Theory of diffusionless phase transitions. 91c:73011
- Jayaseelan, S. James *see* Raj, S. Antony, 91m:76037
- Jiang, Fang Yi (with Li, Yin Ting) A solution to the upward migration of an intrusion. 91c:56014
- Kalamkarov, A. L. *see* Parton, V. Z.; et al., 91m:73022
- Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.) Period tripling and subharmonic oscillations in Marangoni flows in a cylindrical liquid bridge. 91c:76104
- (with Wilkowski, Joseph S.) Bifurcations of numerically simulated thermocapillary flows in axially symmetric float zones. (Not in MR)
- Kinderlehrer, David *see* James, Richard Dana, 91c:73011
- King, John Robert Exact solutions to some nonlinear diffusion equations. 91h:35054
- Konyshov, Zh. E. *see* Smagulov, Sh. S., 91m:76094
- Kostenko, Yu. T. (with Lyubchik, L. M.; Neznamova, E. V.) Modification of a finite-element method to calculate temperature fields averaged over one coordinate. 91h:80002
- Kremer, G. M. *see* Liu, I-Shih, 91h:76048
- Kudryavtsev, B. A. *see* Parton, V. Z.; et al., 91m:73022
- Laptev, G. I. Conditions for the solvability of a problem on the diffusion of a magnetic field in matter taking into account the heating of the body. (Russian) (see 91h:00025)
- Lauro, Giallana *see* Delfanti-Morante, Aldo, 91h:82069
- Lepin, L. A. Spectra of eigenfunctions for a semilinear heat equation. 91h:35247
- Letavin, M. I. Asymptotic expansion of the solution of the boundary value problem of heat conduction for a rotating cylinder. 91h:35042
- Li, Li Kang Extrapolation of a difference method for solving heat-conduction equations. (Chinese. English summary) 91d:80001
- Li, Yin Ting *see* Jiang, Fang Yi, 91c:56014
- Liu, I-Shih (with Kremer, G. M.) Hyperbolic system of field equations for viscous fluids. (Portuguese summary) 91h:76048
- Lorenzi, Alfredo (with Lunardi, Alessandra) An identification problem in the theory of heat conduction. 91d:35231
- Lunardi, Alessandra On the linear heat equation with fading memory. 91h:35141
- *see also* Lorenzi, Alfredo, 91d:35231
- Lyubchik, L. M. *see* Kostenko, Yu. T.; et al., 91h:80002
- Mikhailov, A. P. *see* Gudkov, V. V.; et al., 91c:76091
- Mishra, Sadhana *see* Bajpai, S. D., 91m:33022
- Mrówka-Matejewska, Elżbieta *see* Ignaczak, Józef, 91d:73007
- Neznamova, E. V. *see* Kostenko, Yu. T.; et al., 91h:80002
- Nowak, A. J. The multiple reciprocity method of solving transient heat conduction problems. (see 91f:00015)
- Ockendon, J. R. *see* Fasano, A.; et al., 91c:35162 and Dewynne, J. N.; et al., (91m:35004)
- Oganyan, G. G. The effect of dissipation on the asymptotic picture of the propagation of linear waves in gas-liquid mixtures. (Russian. Armenian summary) 91h:76046
- Olmstead, W. E. *see* Gautsien, A. K., 91h:49005
- Parton, V. Z. (with Kudryavtsev, B. A.; Kalamkarov, A. L.) Generalization of the integral Fourier transform in boundary value problems of the mechanics of composites. 91m:73022
- Payne, Lawrence E. (with Straughan, Brian) Error estimates for the temperature of a piece of cold ice, given data on only part of the boundary. 91h:35114
- (with Straughan, Brian) Effects of errors in the initial-time geometry on the solution of the heat equation in an exterior domain. 91d:35091
- Peradzyski, Z. Nonlinear scalar parabolic equation describing the temperature and flow of a heat conducting gas. 91h:76053
- Pilant, Michael S. (with Rundell, William) Recovery of an unknown specific heat by means of overposed data. 91d:65205
- Polubinskii, A. S. *see* Fushchich, V. I.; et al., 91g:35127
- Primicerio, M. *see* Fasano, A.; et al., 91c:35162
- Radkevich, E. V. The degenerate Florin problem and conditions for the existence of a transition zone. (Russian) 91h:35115
- Raj, S. Antony (with Jayaseelan, S. James) An analytical solution to unsteady axisymmetric stagnation flow. 91m:76037
- Ramaswamy, B. A new finite element method for conductive convective heat transfer problems. 91h:80003
- Riley, D. S. (with Davis, Stephen H.) Long-wave interactions in morphological and convective instabilities. 91m:76048
- Rodrigues, José-Francisco *see* Colli, Pierluigi, 91h:35144
- Romano, Antonio *see* Cimmelli, Vito Antonio; et al., 91g:73004
- Roubíček, Tomáš The Stefan problem in heterogeneous media. (French summary) 91c:35167
- Numerical solution of the nonlinear heat equation in heterogeneous media. 91m:65312
- Rubio, J. E. *see* Butt, R., 91h:49043
- Rundell, William *see* Pilant, Michael S., 91d:65205
- Santos, Lisa A diffusion problem with gradient constraint. 91h:35062
- Sartori, C. (with Spigler, Renato) The Huber polygonal method for the one-phase Stefan problem with the specification of energy. (German and Russian summaries) 91h:35116
- Shechepetlov, A. V. Some a priori estimates for solving a problem of nonlinear diffusion. 91h:35066
- Shidfar, Afima Abdullah Determination of an unknown radiation term in heat conduction problem. 91h:35208
- Shuvar, R. A. *see* Gordinskii, L. D., 91h:35144
- Smagulov, Sh. S. (with Konyshov, Zh. E.) Well-posedness of an initial-boundary value problem for equations of a viscous heat-conducting gas with degenerate density. (Russian) 91m:76094
- Soe, S. L. ★ Particulates and continuum. 91h:76103
- Spigler, Renato *see* Sartori, C., 91h:35116
- Stakgold, I. *see* Graham-Eagle, James, 91c:76103
- Starita, Giulio *see* Cimmelli, Vito Antonio, 91g:73003 and 91g:73004
- Stepanova, V. V. *see* Gudkov, V. V.; et al., 91c:76091
- Straughan, Brian *see* Payne, Lawrence E., 91h:35114 and 91d:35091
- Su, Ning Mathematical problems on the fluid-solute-heat flow through porous media. I. Unsaturated case. 91c:76109
- Mathematical problems on the fluid-solute-heat flow through porous media. II. Partially saturated case. 91c:76110
- Sviridov, Yu. B. Solution of initial-boundary value problems of heat-mass transport by the method of power moments (an infinite interval). (Russian) 91d:65210
- Torrisi, Mariano (with Valenti, Antonino) On a supplementary conservation law for a hyperbolic model of heat conductor. (Italian summary) 91h:35206
- Valenti, Antonino *see* Torrisi, Mariano, 91h:35206
- Vigak, V. M. (with Zhernovoi, Yu. V.) On the solution of a one-dimensional inverse Stefan problem. 91d:35249
- Villa, Luis Tadeo Some remarks on a moving boundary problem in a fluid-fluid reaction-diffusion system. 91a:35172
- Vialentin, Augusto Stefan problem with surface tension. 91c:35168
- *see also* Colli, Pierluigi; et al., 91h:73009
- Voitisek, A. V. ★ Применение локальных оценок для аппроксимации интенсивности излучения в плоском слое. (Russian) [Application of local estimates for the approximation of the intensity of radiation in a plane layer] 91a:45003
- Wang, Bo Nian (with Hoffman, Joe D.) Study on a new form of the energy equation. 91c:76087
- Wilkowski, Joseph S. *see* Kazarinoff, Nicholas D., 91c:76104 and (Not in MR)
- Welf, Michael ★ Stationary flow of heat-conducting fluids with free surface between concentric cylinders. 91h:76026
- Yin, Hong Ming The classical solution of the periodic Stefan problem. 91d:35252
- Zhernovoi, Yu. V. *see* Vigak, V. M., 91d:35249
- Zhukov, V. T. (with Feodoritova, O. B.) Difference schemes for the heat equation based on local mean-square approximations. (Russian) 91a:65223

80A22 Stefan problems, phase changes, etc.

- Bates, Peter W. (with Fife, Paul C.) Spectral comparison principles for the Cahn-Hilliard and phase-field equations, and time scales for coarsening. 91h:80001
- Caginalp, G. Phase field models: some conjectures on theorems for their sharp interface limits. (see 91g:00044)
- (with Jones, James) A derivation of a phase field model with fluid properties. (Not in MR)
- Cheng, Wei Ji *see* Gao, Qi Ti, 91d:80010
- Doherty, Michael F. A topological theory of phase diagrams for multiphase reacting mixtures. 91e:80005
- Elliott, Charles M. The Cahn-Hilliard model for the kinetics of phase separation. 91c:80014
- Fasano, A. (with Primicerio, M.; Howison, S. D.; Ockendon, J. R.) On the singularities of one-dimensional Stefan problems with supercooling. 91h:80018
- On a mathematical model for phase change accounting for coexistence of phases. (see 91g:00044)
- Fife, Paul C. (with Gill, G. S.) Phase-transition mechanisms for the phase-field model under internal heating. 91h:80006
- *see also* Bates, Peter W., 91h:80001
- French, Donald A. Computations on the Cahn-Hilliard model of solidification. 91g:80008
- Gill, G. S. *see* Fife, Paul C., 91h:80006
- Gao, Qi Ti (with Cheng, Wei Ji) Eight-point straight-line-net-diagrams of binary six-phase ($n+4$) multistystems. I. Derivation from nine-point closed-net-diagrams. 91d:80010
- Gurtin, Morton E. On the isothermal motion of a phase interface. 91e:80006

- Hoppe, Ronald H. W. (with Kornhuber, Ralf) Multi-grid solution of two coupled Stefan equations arising in induction heating of large steel slabs. 91g:80009
- Howison, S. D. *see* Fasano, A.; et al., 91b:80018
- Iannace, Donatella (with Romano, Antonio) Solidification of small crystals and nonlocal theories. 91c:80015
- Jones, James *see* Caginalp, G., (Not in MR)
- Kornhuber, Ralf *see* Hoppe, Ronald H. W., 91g:80009
- Lenhart, S. M. (with Wilson, D. G.) Changing domains and a solidification problem with void. 91c:80016
- Meinköhn, Dirk A criticality concept for reaction-diffusion systems far from thermodynamic equilibrium. (see 91g:80040)
- Mineev, M. B. A finite polynomial solution of the two-dimensional interface dynamics. 91c:80007
- Nochetto, Ricardo H. (with Paolini, M.; Verdi, C.) Local mesh refinements for two-phase Stefan problems in two space variables. 91b:80019
- Ockendon, J. R. *see* Fasano, A.; et al., 91b:80018
- Paolini, M. *see* Nochetto, Ricardo H.; et al., 91b:80019
- Primicerio, M. *see* Fasano, A.; et al., 91b:80018
- Rodríguez, José-Francisco The Stefan problem revisited. 91c:80008
- Rogers, Robert C. On a linear model of mechanical phase transitions. 91j:80004
- Romano, Antonio *see* Iannace, Donatella, 91c:80015
- Sprekels, Jürgen Automatic control of one-dimensional thermomechanical phase transitions. 91c:80009
- Tacke, K.-H. Application of finite difference enthalpy methods to dendritic growth and ripening. (see 91g:80044)
- Verdi, C. *see* Nochetto, Ricardo H.; et al., 91b:80019
- Wilson, D. G. *see* Lenhart, S. M., 91c:80016
- Xu, Jian Jun Interfacial wave theory of solidification: dendritic pattern formation and selection of growth velocity. 91m:80009
- Items with secondary classifications in 80A22
- Aifantis, E. C. *see* Kuttler, K., 91f:73004
- Ballint, A. *see* Ballint, S.; et al., 91g:34007
- Ballint, S. (with Schlett, Z.; Ballint, A.; Jadaneantu, I.) Size stability in growing single crystalline sheets. I. 91g:34007
- Bardi, Martino (with Perthame, Benoît) Exponential decay to stable states in phase transitions via a double log-transformation. 91m:35021
- Benek, Michal Numerical solution of the two-dimensional Stefan problem by the finite-difference method. (Czech. German and Russian summaries) (Not in MR)
- Berezovskii, A. A. Two-dimensional models of the cryo-destruction of biological tissue. (Russian) 91f:92008
- Bossavit, A. Mixed methods for a vectorial Stefan problem. 91b:65194
- Caginalp, G. The dynamics of a conserved phase field system: Stefan-like, Hele-Shaw, and Cahn-Hilliard models as asymptotic limits. 91d:35237
- A microscopic derivation of macroscopic sharp interface problems involving phase transitions. 91k:82027
- Danilyuk, I. I. On quasistationary Stefan problem. (see 91g:80044)
- Davis, Stephen H. *see* Riley, D. S., 91c:35228 and 91m:76048
- Falk, F. Elastic phase transitions and nonconvex energy functions. 91f:73006
- Fusco, G. A geometric approach to the dynamics of $u_t = \varepsilon^2 u_{xx} + f(u)$ for small ε . 91m:35018
- Grinfeld, M. A. Energy changes accompanying first-order phase transitions with small inherent deformation in solids. 91c:73010
- Hoffmann, Karl-Heinz¹ (with Kenmochi, Nobuyuki) Two-phase Stefan problems with feedback controls. 91g:35240
- (with Sprekels, Jürgen; Niergöddke, Marek) Feedback control via thermostats of multidimensional two-phase Stefan problems. 91m:93070
- van der Houst, R. A travelling wave solution for a one-dimension Stefan problem. 91g:35241
- Impey, M. D. (with Riley, D. S.; Wheeler, Adam A.; Winters, K. H.) Bifurcation analysis of solutal convection during directional solidification. 91m:76047
- Jadaneantu, I. *see* Ballint, S.; et al., 91g:34007
- James, Richard Dana Relation between microscopic and macroscopic properties in crystals undergoing phase transformation. 91c:73012
- Jerome, Joseph W. An operator Newton method for the Stefan problem based on smoothing: a local perspective. 91f:65200
- Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.) Bifurcations of numerically simulated thermocapillary flows in axially symmetric float zones. (Not in MR)
- Kenmochi, Nobuyuki *see* Hoffmann, Karl-Heinz¹, 91g:35240
- Kosiński, W. (with Romano, Antonio) Evolution balance laws in two-phase problems. (Russian and Polish summaries) 91m:76122
- Kuttler, K. (with Aifantis, E. C.) Existence, uniqueness, and long-time behavior of materials with nonmonotone equations of state and higher-order gradients. 91f:73004
- Meirmanov, A. M. (with Shemetov, N. V.) On the correctness of the phenomenological model of equilibrium phase transitions in a deformable elastic medium. 91j:73003
- Melikhov, A. S. The problem of the origin of a phase. (Russian) 91f:35277
- Mitlin, V. S. Nonlinear theory of subsolidus transformations of solid solutions of rock-forming minerals. (Russian) 91f:82078
- Müller, Stefan Minimizing sequences for nonconvex functionals, phase transitions and singular perturbations. 91f:49020
- Nabokov, R. Yu. Symmetrization in the one-phase Stefan problem. (Russian) 91m:35247
- Niergöddke, Marek *see* Hoffmann, Karl-Heinz¹; et al., 91m:93070
- Novick-Cohen, A. Instability of periodic states for the Sivashinsky equation. 91h:35036
- Owen, Nicholas C. (with Rubinstein, Jacob; Sternberg, Peter) Minimizers and gradient flows for singularly perturbed bi-stable potentials with a Dirichlet condition. 91f:49052
- Perthame, Benoît *see* Bardi, Martino, 91m:35021
- Radkevich, E. V. Solvability of the Stefan contact problem. 91g:35242
- Ricci, Riccardo Traveling wave solutions of the Stefan and the ablation problems. 91f:35278
- Riley, D. S. (with Davis, Stephen H.) Long-wave interactions in morphological and convective instabilities. 91m:76048

- (with Davis, Stephen H.) Long-wave morphological instabilities in the directional solidification of a dilute binary mixture. 91c:35228
- *see also* Impey, M. D.; et al., 91m:76047
- Rodríguez, José-Francisco A steady-state solidification problem for a non-Newtonian fluid. (see 91g:80044)
- Romano, Antonio *see* Kosiński, W., 91m:76122
- Rong, Min Zhe (with Wang, Qi Ping) Catastrophe models of direction reverse of material transfer and arc transition between materials in electrical contact. (Chinese. English summary) (Not in MR)
- Rubinstein, Jacob *see* Owen, Nicholas C.; et al., 91f:49052
- Sartoretto, F. (with Spigler, Renato) Numerical solution for the one-phase Stefan problem by piecewise constant approximation of the interface. (German summary) 91f:65187
- Schlett, Z. *see* Ballint, S.; et al., 91g:34007
- Shemetov, N. V. *see* Meirmanov, A. M., 91j:73003
- Spigler, Renato *see* Sartoretto, F., 91f:65187
- Sprekels, Jürgen *see* Hoffmann, Karl-Heinz¹; et al., 91m:93070
- Sternberg, Peter *see* Owen, Nicholas C.; et al., 91f:49052
- Salicrú, I. On modelling phase transitions by means of rate-type constitutive equations. Shock wave structure. 91f:73054
- Tarzia, Domingo Alberto On heat flux in materials with or without phase change. (see 91g:80044)
- Turner, Cristiana V. Remarks on a two-phase Stefan problem with flux boundary conditions. (Portuguese summary) 91k:35261
- Visintin, Augusto Nonconvex functionals related to multiphase systems. 91f:49016
- Wang, Qi Ping *see* Rong, Min Zhe, (Not in MR)
- Wheeler, Adam A. *see* Impey, M. D.; et al., 91m:76047
- Wilkowski, Joseph S. *see* Kazarinoff, Nicholas D., (Not in MR)
- Williams, Margaret A. (with Wilson, D. G.) Iterative solution of a nonlinear system arising in phase-change problems. 91f:65100
- Wilson, D. G. *see* Williams, Margaret A., 91f:65100
- Winters, K. H. *see* Impey, M. D.; et al., 91m:76047
- Xie, Wei Qing The Stefan problem with a kinetic condition at the free boundary. 91d:35251
- Zhurnov, Yu. V. Solution of a single-phase inverse Stefan problem with spherical symmetry. (Russian) 91f:35273

80A23 Inverse problems

Items with secondary classifications in 80A23

- Binder, Andreas (with Engl, Heinz W.; Vessella, Sergio) Some inverse problems for a nonlinear parabolic equation connected with continuous casting of steel: stability estimates and regularization. 91k:65110
- Eldén, Lars *see* Seidman, Thomas I., 91h:35327
- Engl, Heinz W. *see* Binder, Andreas; et al., 91k:65110
- Seidman, Thomas I. (with Eldén, Lars) An "optimal filtering" method for the sideways heat equation. 91k:35327
- Vessella, Sergio *see* Binder, Andreas; et al., 91k:65110

80A25 Combustion, interior ballistics

- Arrin, J. D. Decay and boundedness results for a model of laminar flames with complex chemistry. 91c:80017
- Baer, Melvin R. *see* Embid, Pedro F., 91k:80007
- Bardina, F. The propagation of detonation waves in channels of varying cross-section. 91g:80010
- Bayliss, A. (with Matkowsky, Bernard J.) Two routes to chaos in condensed phase combustion. 91b:80020
- (with Matkowsky, Bernard J.) Bifurcation, pattern formation, and transition to chaos in combustion. (see 91m:80001)
- Bechtold, John K. *see* Margolis, Stephen B.; et al., 91d:80012
- Berestycki, Henri (with Sivashinsky, Gregory I.) Flame extinction by periodic flow field. 91m:80010
- Booty, M. R. (with Holt, J. B.; Matkowsky, Bernard J.) Condensed phase combustion with a merged sequential reaction mechanism. 91k:80002
- Borisov, Anatoli A. (with Sharipov, O. V.) Structure of unstable gas detonation front. 91h:80021
- Brindley, J. (with Jivraj, N. A.; Merkin, J. H.; Scott, S. K.) Stationary-state solutions for coupled reaction-diffusion and temperature-conduction equations. I. Infinite slab and cylinder with general boundary conditions. (Not in MR)
- (with Jivraj, N. A.; Merkin, J. H.; Scott, S. K.) Stationary-state solutions for coupled reaction-diffusion and temperature-conduction equations. II. Spherical geometry with Dirichlet boundary conditions. (Not in MR)
- *see also* Waka, G. C.; et al., 91k:80010
- Choi, Yung Sae (with Ludford, G. S. S.) An unexpected stability result of the near-extinction diffusion flame for nonunity Lewis numbers. 91b:80022
- Díaz Díaz, Jesús Ildefonso (with Stakgold, I.) Mathematical analysis of the conversion of a porous solid by a distributed gas reaction. (see 91j:80015)
- Di Lido, A. (with Stakgold, I.) Isothermal combustion with two moving fronts. 91j:80005
- Embid, Pedro F. (with Baer, Melvin R.) Modeling two-phase flow of reactive granular materials. 91k:80007
- Frankel, Michael L. An equation of surface dynamics modeling flame fronts as density discontinuities in potential flows. 91f:80011
- Qualitative approximation of oscillatory flames in premixed gas combustion by a local equation of front dynamics. 91m:80011
- Ghilaui, M. (with Larrourou, Bernard) Upwind computation of steady planar flames with complex chemistry. (French summary) 91f:80006
- Giovangigli, Vincent Nonadiabatic plane laminar flames and their singular limits. 91h:80005
- Herbert, D. M. Thermal explosion theory for a reactive ridge. 91k:80008
- Holt, J. B. *see* Booty, M. R.; et al., 91h:80002
- Jivraj, N. A. *see* Brindley, J.; et al., (Not in MR) and (Not in MR)

- Kennel, Claire. *see* Peters, N., 91m:80001
- Larrourou, Bernard. Modélisation physique, numérique et mathématique des phénomènes de propagation de flammes. [Physical, numerical and mathematical modelling of flame-propagation phenomena] (see 91m:80001)
- *see also* Ghilani, M., 91j:80006
- Libby, Paul A. (with Williams, Forman A.; Sivashinsky, Gregory I.) Influences of swirl on the structure and extinction of strained premixed flames. I. Moderate rates of rotation. 91c:80018
- Ludford, G. S. S. *see* Choi, Yung Sae, 91b:80022
- Majda, Andrew J. (with Roytburd, Victor) Numerical modeling of the initiation of reacting shock waves. 91b:80023
- Margolis, Stephen B. (with Sivashinsky, Gregory I.; Bechtold, John K.) Secondary infinite-period bifurcation of spinning combustion waves near a hydrodynamic cellular stability boundary. 91d:80012
- Matkowsky, Bernard J. *see* Bayless, A., 91b:80020; Booty, M. R.; et al., 91b:80002; Olagunju, David O., 91b:80006; 91b:80009 and Bayless, A., (91m:80001)
- Merkle, J. H. *see* Brindley, J., et al., (Not in MR) and (Not in MR)
- Olagunju, David O. (with Matkowsky, Bernard J.) Burner-stabilized cellular flames. 91c:80006
- (with Matkowsky, Bernard J.) Polyhedral flames. 91b:80009
- Peters, N. (with Kennel, Claire) Introduction à l'étude de la combustion. [Introduction to the study of combustion] (see 91m:80001)
- Pompe, Anna (with Rigano, Maria Adriana) Group properties and invariant solutions for a model of detonation. 91b:80007
- Rigano, Maria Adriana. *see* Pompe, Anna, 91b:80007
- Roquejoffre, Jean-Michel. Étude mathématique d'un modèle de flamme plane. (English summary) [Mathematical study of a planar flame model] 91m:80012
- Roytburd, Victor. Numerical study of initiation and propagation of one-dimensional detonations. (see 91b:80031)
- *see also* Majda, Andrew J., 91b:80023
- Schmidt-Laine, Claudine. Existence and stability in a plane premixed flame problem. 91c:80010
- Scott, S. K. *see* Wake, G. C.; et al., 91b:80010; Brindley, J.; et al., (Not in MR) and (Not in MR)
- Sharypov, O. V. *see* Borisov, Anatoli A., 91b:80021
- Sivashinsky, Gregory I. *see* Libby, Paul A.; et al., 91c:80018; Margolis, Stephen B.; et al., 91d:80012 and Berestycki, Henri, 91m:80010
- Stakgold, I. *see* Di Lallo, A., 91j:80005 and Díaz Díaz, Jesús Ildefonso, (91j:00015)
- Torres, Mariano. Nonlinear waves in a reacting mixture. (see 91b:80046)
- Wake, G. C. (with Scott, S. K.; Brindley, J.) Multiplicity of steady state solutions for combustion in a solid sphere with arbitrary Biot number. 91b:80010
- Williams, Forman A. *see* Libby, Paul A.; et al., 91c:80018
- Zmitrenko, N. V. Self-similar regimes in a combustion model. (Russian. English summary) 91j:80007
- Items with secondary classifications in 80A25
- Alvarez Pereira, Carlos (with Vega, José M.) Global stability of a premixed reaction zone (time-dependent Liñan's problem). 91b:35046
- Arrin, Joel D. Qualitative theory for a model of laminar flames with arbitrary nonnegative initial data. 91b:35316
- Behaviour at $\pm\infty$ for a model of laminar flames with applications to questions of flame propagation versus extinction. 91m:80013
- Barbe, Violette. The inverse one phase Stefan problem. 91b:35111
- Bayless, A. (with Kuske, R.; Matkowsky, Bernard J.) A two-dimensional adaptive pseudo-spectral method. 91b:80001
- Bebernes, Jerrold (with Eberly, David) ★ Mathematical problems from combustion theory. 91d:35165
- Berestycki, Henri (with Larrourou, Bernard; Nirenberg, Louis) A nonlinear elliptic problem describing the propagation of a curved premixed flame. 91a:35070
- (with Larrourou, Bernard) A semi-linear elliptic equation in a strip arising in a two-dimensional flame propagation model. 91a:35071
- (with Larrourou, Bernard; Lions, Pierre-Louis) Multi-dimensional travelling-wave solutions of a flame propagation model. 91b:35148
- (with Larrourou, Bernard; Roquejoffre, Jean-Michel) Stabilité des solutions d'ondes progressives d'un modèle de flamme plissée. (English summary) [Stability of travelling fronts in a curved flame model] 91m:35114
- Bourlioux, Anne (with Majda, Andrew J.; Roytburd, Victor) Theoretical and numerical structure for unstable one-dimensional detonations. 91m:76090
- Brauer, Claude-Michel (with Schmidt-Laine, Claudine) On the stability of singular travelling waves in some combustion problems. 91j:35287
- (with Lunardi, Alessandra; Schmidt-Laine, Claudine) Une nouvelle formulation de modèles de fronts en problèmes totalement non linéaires. (English summary) [A new formulation of moving front models as fully nonlinear problems] 91j:35122
- Bukiet, Bruce G. Density profiles for diverging detonations. 91a:65009
- Chen, Zhong Hui *see* Zhang, De Xian, 91a:34023
- Eberly, David. *see* Bebernes, Jerrold, 91d:35165
- Emblid, Pedro F. On the reactive and nondiffusive equations for zero Mach number flow. 91c:76079
- Ferretti, Roberto (with Larrourou, Bernard) Estimations d'erreur pour des approximations tronquées de solutions d'onde simple d'un modèle de combustion. (English summary) [Error estimates for truncated domain approximations of travelling-front solutions of a combustion model] 91a:65192
- Friedman, Arner (with Reitich, Fernando) A hyperbolic inverse problem arising in the evolution of combustion aerosol. 91d:35226
- (with Herrero, Miguel A.) A nonlinear nonlocal wave equation arising in combustion theory. 91d:35138
- Garrivou, A. N. A strong explosion in a mixture of a gas and several types of particles. (Not in MR)
- Gedalia, K. E. (with Malomed, B. A.) Stability of cellular wave structures in oscillatory pattern-forming systems near onset. 91c:76053
- Grosch, C. E. *see* Jackson, T. L., 91g:76031
- Herrero, Miguel A. *see* Friedman, Arner, 91d:35138
- Jackson, T. L. (with Grosch, C. E.) Inviscid spatial stability of a compressible mixing layer. II. The flame sheet model. 91g:76031
- Keady, G. (with Stakgold, I.) Some geometric properties of solids in combustion. 91b:35012
- Keyes, David E. *see* Smooke, M. D.; et al., (91m:65002)
- Kuske, R. *see* Bayless, A.; et al., 91b:80001
- Larrourou, Bernard. *see* Berestycki, Henri; et al., 91a:35070; 91a:35071; Ferretti, Roberto, 91a:65192; Berestycki, Henri; et al., 91b:35148; 91m:35114 and Recent advances in combustion modelling. 91m:80001
- Lions, Pierre-Louis. *see* Berestycki, Henri; et al., 91b:35148
- Lunardi, Alessandra. *see* Brauer, Claude-Michel; et al., 91j:35122
- Majda, Andrew J. *see* Bourlioux, Anne; et al., 91m:76090
- Malomed, B. A. *see* Gedalia, K. E., 91c:76053
- Marion, Martine (with Temam, Roger) Some remarks on turbulent combustion from the attractor point of view. 91m:58145
- Matkowsky, Bernard J. *see* Bayless, A.; et al., 91b:80001
- Meyer, Gunter H. On computing free boundaries which are not level sets. 91b:65207
- Mitchell, R. E. *see* Smooke, M. D.; et al., (91m:65002)
- Nirenberg, Louis. *see* Berestycki, Henri; et al., 91a:35070
- Reitich, Fernando. *see* Friedman, Arner, 91d:35226
- Roquejoffre, Jean-Michel. *see* Berestycki, Henri; et al., 91m:35114
- Roytburd, Victor. *see* Bourlioux, Anne; et al., 91m:76090
- Schmidt-Laine, Claudine. *see* Brauer, Claude-Michel; et al., 91j:35122 and 91j:35287
- Smooke, M. D. (with Mitchell, R. E.; Keyes, David E.) Numerical solution of confined axisymmetric laminar diffusion flames. (see 91m:65002)
- Stakgold, I. *see* Keady, G., 91b:35012
- Temam, Roger. *see* Marion, Martine, 91m:58145
- Temam, David. Stability of planar wave solutions to a combustion model. 91b:35138
- Thiel, U. A Stefan problem in combustion theory. (see 91g:00044)
- Vega, José M. *see* Alvarez Pereira, Carlos, 91b:35046
- Zhang, De Xian (with Chen, Zhong Hui) A boundary value problem for a nonlinear differential equation in combustion theory. (Chinese. English summary) 91a:34023
- Items listed otherwise than by author
- Recent advances in combustion modelling ★ Recent advances in combustion modelling. 91m:80001
- Rocquencourt ★ Recent advances in combustion modelling. 91m:80001
- Session:
- Combustion Modelling ★ Recent advances in combustion modelling. 91m:80001
- ### 80A30 Chemical kinetics [see also 92C45, 92E20]
- Akramov, T. A. Qualitative and numerical analysis of a reactor model with a countercurrent component flow. (Russian) 91d:80013
- Elenin, G. G. (with Lysak, T. M.) Multiplicity of spatially homogeneous stationary solutions, and conditions for parabolicity of a quasilinear system of equations of a model of a heterogeneous-catalytic reaction. (Russian) 91c:80019
- El-Owaidy, Hassan M. (with El-Sheikh Aly, M. M. A.) On stability and bifurcation of solutions of the Belousov-Zhabotinskii reaction system. 91g:80012
- El-Sheikh Aly, M. M. A. *see* El-Owaidy, Hassan M., 91g:80012
- Gavet, V. P. Analysis of mathematical models of processes in a boiling bed with a nonstationary catalyst state. (Russian) 91b:80024
- Goldshtein, V. M. (with Kiselev, O. V.) Behavior of chemical reactors under fast external effects. (Russian) 91d:80014
- Gao, Run Sheng (with Wang, Shao Rong) Algebraic theories of sets of independent elementary fragments in complex chemical reaction systems. (Chinese. English summary) 91b:80025a
- (with Wang, Shao Rong) Algebraic theories of material balance calculations in complex chemical reaction systems. (Chinese. English summary) 91b:80025b
- Kiselev, O. V. *see* Goldshtein, V. M., 91d:80014
- Krestina, A. V. A method for the numerical solution of a system of ordinary differential equations of a quasicatalytic condensation model. 91d:80015
- Lysak, T. M. *see* Elenin, G. G., 91c:80019
- Merkin, J. H. *see* Needham, D. J., 91d:80016
- Muskatina, I. L. *see* Pogorelov, A. G., 91d:80017
- Needham, D. J. (with Merkin, J. H.) Pattern formation through reaction and diffusion in a simple pooled-chemical system. 91d:80016
- Pogorelov, A. G. (with Muskatina, I. L.) Structure identification in unsteady-state chemical kinetics by derivation of models. 91d:80017
- Wang, Shao Rong. *see* Gao, Run Sheng, 91b:80025a and 91b:80025b
- Items with secondary classifications in 80A30
- Adams, Noah P. *see* Banerjee, Ajit, 91d:49049
- Agudo, M. (with Sagués, F.) Pattern formation dynamics resulting from a reaction-diffusion instability. 91b:92013
- Arrin, Joel D. Decay and boundedness results for a model of laminar flames with complex chemistry. 91c:80017
- Banerjee, Ajit (with Adams, Noah P.) Dynamics of classical systems based on the principle of stationary action. 91d:49049
- Booty, M. R. (with Holt, J. B.; Matkowsky, Bernard J.) Condensed phase combustion with a merged sequential reaction mechanism. 91b:80002
- Borkovec, Michal. *see* Hanggi, Peter; et al., 91m:92043
- Brenner, H. *see* Dungan, Stephanie R.; et al., 91d:76076
- Dold, J. W. Observations on the nature of reaction runaway in reaction-diffusion systems. 91d:35115
- Dungan, Stephanie R. (with Shapiro, Michael; Brenner, H.) Convective-diffusive-reactive Taylor dispersion processes in particulate multiphase systems. 91d:76076
- Farkas, Henrik (with Noszticzius, Zoltán) Generalized Lotka-Volterra schemes and the construction of two-dimensional exploder cores and their Liapunov functions via

- "critical" Hopf bifurcations. 91i:92014
- (with Noszticzus, Zoltán; Savage, C. R.; Schelly, Z. A.) Two-dimensional exploders. II. Global analysis of the Lotka-Volterra-Brusselator (LVB) model. 91i:92015
- Hanggi, Peter (with Talkner, Peter; Borkovec, Michal) Reaction-rate theory: fifty years after Kramers. 91m:92043
- Holt, J. B. see Booty, M. R.; et al., 91h:80002
- Inamdar, S. R. (with Kulkarni, B. D.) Bounds on steady states for a non-systemically autocatalysed reaction-diffusion system. 91h:35159
- Kulkarni, B. D. see Inamdar, S. R., 91h:35159
- Kytmanov, A. M. Determination of the coefficients of the kinetic polynomial by means of multidimensional residues. (Russian. Serbo-Croatian summary) 91d:32005
- Li, Da Hua. Bifurcation of steady-state solutions of the trimolecular model in the unbounded region. (Chinese summary) 91c:92105
- Matkowsky, Bernard J. see Booty, M. R.; et al., 91h:80002
- Murray, J. D. see Shaw, L. J., 91i:92003
- Noszticzus, Zoltán see Farkas, Henrik, 91i:92014 and 91i:92015
- Rubinstein, Jacob see Torquato, Sal, 91a:92018
- Sagués, F. see Aguado, M., 91i:92013
- Savage, C. R. see Farkas, Henrik; et al., 91i:92015
- Schelly, Z. A. see Farkas, Henrik; et al., 91i:92015
- Shapiro, Michael see Dungan, Stephanie R.; et al., 91d:76076
- Shaw, L. J. (with Murray, J. D.) Analysis of a model for complex skin patterns. 91i:92003
- Talkner, Peter see Hanggi, Peter; et al., 91m:92043
- Tennakone, K. (with Wickramanayaka, S.) Biochemical chiral selection in the presence of instabilities, chaos, and noise. (Not in MR)
- Torquato, Sal (with Rubinstein, Jacob) Diffusion-controlled reactions. II. Further bounds on the rate constant. 91a:92018
- Treskov, S. A. see Volokitin, E. P., 91h:92046
- Tyson, John J. Traveling waves in excitable media. 91h:92006
- Volokitin, E. P. (with Treskov, S. A.) Qualitative analysis of a mathematical model for the reaction of catalytic oxidation. (Russian) 91h:92046
- Wickramanayaka, S. see Tennakone, K., (Not in MR)
- Winfree, Arthur T. Discrete spectrum of rotor periods in an excitable medium. 91h:92010
- Stable particle-like solutions to the nonlinear wave equations of three-dimensional excitable media. 91c:92009
- ### 80A32 Chemically reacting flows [see also 92C45, 92E20]
- Alexander, Roger K. Multiple steady states in tubular chemical reactors. 91f:80003
- Spatially oscillatory steady states of tubular chemical reactors. 91c:80011
- Almgren, Robert F. (with Majda, Andrew J.; Rosales, Rodolfo R.) Rapid initiation in condensed phases through resonant nonlinear acoustics. 91c:80020
- Amrehn, J. (with Kruehl, Th.-M.; Schneider, F. W.; Buchholz, F.) The effect of fluctuations on the transition behavior of a nonlinear chemical oscillator. (see 91m:58001)
- Arris, Joel D. Behaviour at $\pm\infty$ for a model of laminar flames with applications to questions of flame propagation versus extinction. 91m:80013
- Babloyantz, A. see Sepulchre, J.-A.; et al., 91g:80013
- Buchholz, F. see Amrehn, J.; et al., (91m:58001)
- Chumakova, N. A. (with Matros, Yu. Sh.) Modeling of reactors with a fixed catalyst bed under a constant pressure drop. (Russian) 91h:80026
- Dewel, G. see Sepulchre, J.-A.; et al., 91g:80013
- Fadeev, S. I. see Ivanov, Evgenii Aleksovich; et al., 91h:80027
- Goddard, Joe D. Consequences of the partial-equilibrium approximation for chemical reaction and transport. 91h:80003
- Gray, Peter (with Merkin, J. H.; Needham, D. J.; Scott, S. K.) The development of travelling waves in a simple isothermal chemical system. III. Cubic and mixed autocatalysis. 91i:80009
- Hussaini, M. Y. see Jackson, T. L.; et al., 91c:80021
- Ivanov, Evgenii Aleksovich² (with Fadeev, S. I.) A study of the bifurcation of stationary solutions of a two-phase diffusion model of a boiling bed. (Russian) 91h:80027
- Jackson, T. L. (with Kapila, A. K.; Hussaini, M. Y.) Convection of a pattern of vorticity through a reacting shock wave. 91c:80021
- Kapila, A. K. see Jackson, T. L.; et al., 91c:80021
- Kehlen, Horst see Rätzsch, Margit Theresa, (Not in MR)
- Kruehl, Th.-M. see Amrehn, J.; et al., (91m:58001)
- Majda, Andrew J. see Almgren, Robert F.; et al., 91c:80020
- Matros, Yu. Sh. see Chumakova, N. A., 91h:80026
- Merklin, J. H. (with Needham, D. J.) Reaction-diffusion waves in a simple isothermal chemical system. 91h:80011
- (with Needham, D. J.) The development of travelling waves in a simple isothermal chemical system. II. Cubic autocatalysis with quadratic and linear decay. 91h:80008
- see also Gray, Peter; et al., 91i:80009
- Needham, D. J. see Merkin, J. H., 91h:80008; Gray, Peter; et al., 91i:80009 and Merkin, J. H., 91h:80011
- Rätzsch, Margit Theresa (with Kehlen, Horst) Von der kontinuierlichen Thermodynamik zur kontinuierlichen Kinetik. (English and Russian summaries) [From continuous thermodynamics to continuous kinetics] (Not in MR)
- Rosales, Rodolfo R. see Almgren, Robert F.; et al., 91c:80020
- Schneider, F. W. see Amrehn, J.; et al., (91m:58001)
- Scott, S. K. see Gray, Peter; et al., 91i:80009
- Sepulchre, J.-A. (with Dewel, G.; Babloyantz, A.) Propagation into unstable states: the direct Hopf bifurcation. 91g:80013
- Items with secondary classifications in 80A32
- Baklan, B. V. (with Grekov, S. P.; Kalyuskii, A. E.; Nevmerzhtskaya, M. V.) Solution of a quasilinear problem of the diffusion of an impurity in a layer of granular material with adsorption and chemical reaction. (Russian) 91f:35128
- Bass, Ludvik see McNabb, Alex, 91f:92010
- Becker, Janett (with Ritschel, Helmut) Zum Verlust der Phasenkohärenz chemischer oszillatorischer Systeme. (English and Russian summaries) [On the loss of phase coherence for oscillatory chemical systems] (Not in MR)
- Ben-Artzi, Matania. Numerical calculations of reacting flows. 91c:65143
- (with Birman, Amnon) Computation of reactive duct flows in external fields. 91g:76069
- Billingham, J. (with Needham, D. J.) A note on the properties of a family of travelling-wave solutions arising in cubic autocatalysis. 91m:35124
- Bit, V. A. (with Yablonskii, G. S.) Island processes on the surface of a catalyst. Description of the kinetics of adsorption-desorption from the perspective of the theory of topochemical reactions. (Russian) 91c:92102
- Birman, Amnon see Ben-Artzi, Matania, 91g:76069
- Bocharov, A. N. (with Bykov, V. I.) Parametric analysis of the spectrum of a class of matrices that arise in chemical kinetics. (Russian) 91h:92048
- Bourgade, A. (with Jourdain, H.; Ovadia, J.) Problème de Riemann en hydrodynamique et applications. [The Riemann problem in hydrodynamics, and applications] 91h:76079
- Bykov, V. I. see Bocharov, A. N., 91h:92048
- Chadam, John M. (with Peirce, Anthony P.; Ortoleva, Peter J.) Stability of reactive flows in porous media: coupled porosity and viscosity changes. 91m:76114
- Ciliberto, S. (with Couillet, P.; Lega, Joceline; Pampaloni, E.; Pérez-García, Carlos) Defects in roll-hexagon competition. 91g:76035
- Conrad, Francis (with Hilhorst, D.; Seidman, Thomas I.) Well-posedness of a moving boundary problem arising in a dissolution-growth process. 91h:35333
- Couillet, P. see Ciliberto, S.; et al., 91g:76035
- Darydov, V. A. (with Mikhailov, A. S.; Zzykov, V. S.) Kinematical theory of autowave patterns in excitable media. 91f:92006
- Derebail, Ramnath see Lucia, Angelo; et al., 91h:58157
- Forbes, Lawrence K. (with Holmes, C. A.) Limit-cycle behaviour in a model chemical reaction: the cubic autocatalator. 91g:92030
- Frankel, Michael L. Qualitative approximation of oscillatory flames in premixed gas combustion by a local equation of front dynamics. 91m:80011
- Gorban, A. N. see Verbitskii, V. I., 91h:92049
- Gray, B. F. (with Merkin, J. H.; Roberts, M. J.) On the structural stability of the cubic autocatalytic scheme in a closed vessel. 91c:92104
- (with Thuraisingham, R. A.) The irreversible Brusselator: the influence of degenerate singularities in a closed system. 91c:58091
- Grekov, S. P. see Baklan, B. V.; et al., 91f:35128
- Guo, Xinzhou see Lucia, Angelo; et al., 91h:58157
- Hilhorst, D. see Conrad, Francis; et al., 91h:35333
- Holmes, C. A. see Forbes, Lawrence K., 91g:92030
- Hymann, James M. (with Nicolaenko, Basil) Coherence and chaos in the Kuramoto-Velarde equation. 91g:58185
- Jourdain, H. see Bourgade, A.; et al., 91h:76079
- Kalyuskii, A. E. see Baklan, B. V.; et al., 91f:35128
- Kholpanov, L. P. see Yelyukhin, V. A., 91m:76054
- Kuznetsov, A. E. (with Strelets, M. Kh.; Shur, M. L.) Calculation of steady-state three-dimensional flows of viscous gases and chemically reacting gas mixtures. (Russian) 91m:76078
- Lange, Charles G. (with Weinitschke, Hubertus J.) Singular perturbations of limit points with application to tubular chemical reactors. 91h:35029
- Lega, Joceline see Ciliberto, S.; et al., 91g:76035
- Lucia, Angelo (with Guo, Xinzhou; Richey, Paula J.; Derebail, Ramnath) Simple process equations, fixed-point methods, and chaos. 91h:58157
- McNabb, Alex (with Bass, Ludvik) Flux theorems for linear multicomponent diffusion. 91f:92010
- Merkin, J. H. (with Needham, D. J.) Reaction-diffusion in a simple pooled chemical system. 91c:92106
- see also Gray, B. F.; et al., 91c:92104
- Mikhailov, A. S. see Darydov, V. A.; et al., 91f:92006
- Morro, Angelo (with Straughan, Brian) Time-invariant uniqueness for reacting viscous fluids near chemical equilibrium. 91h:35163
- Musabekov, K. S. A method for solving a problem of the optimal control of a process in a chemical reactor. (Russian) 91h:93111
- Needham, D. J. see Merkin, J. H., 91c:92106 and Billingham, J., 91m:35124
- Nevmerzhtskaya, M. V. see Baklan, B. V.; et al., 91f:35128
- Nicolaenko, Basil see Hymann, James M., 91h:58185
- Ortoleva, Peter J. Nonequilibrium reaction-diffusion structures in rigid and visco-elastic media: knots and unstable noninertial flows. 91a:35092
- see also Chadam, John M.; et al., 91m:76114
- Ovadia, J. see Bourgade, A.; et al., 91h:76079
- Pampaloni, E. see Ciliberto, S.; et al., 91g:76035
- Peirce, Anthony P. see Chadam, John M.; et al., 91m:76114
- Pérez-García, Carlos see Ciliberto, S.; et al., 91g:76035
- Pompei, Anna (with Rigano, Maria Adriana) Group properties and invariant solutions for a model of detonation. 91h:80007
- Richey, Paula J. see Lucia, Angelo; et al., 91h:58157
- Rigano, Maria Adriana see Pompei, Anna, 91h:80007
- Ritschel, Helmut see Becker, Janett, (Not in MR)
- Roberts, M. J. see Gray, B. F.; et al., 91c:92104
- Rogers, J. C. W. Well-posedness of some reaction-diffusion problems describing pattern formation. (see 91g:00044)
- Roquejoffre, Jean-Michel Étude mathématique d'un modèle de flamme plane. (English summary) [Mathematical study of a planar flame model] 91m:80012
- Ross, John see Vance, William; et al., 91f:58069
- Schuster, Ronny see Schuster, Stefan, 91m:92045
- Schuster, Stefan (with Schuster, Ronny) Detecting strictly detailed balanced subnetworks in open chemical reaction networks. 91m:92045
- Seidman, Thomas I. see Conrad, Francis; et al., 91h:35333
- Shur, M. L. see Kuznetsov, A. E.; et al., 91m:76078
- Soe, S. L. ★ Particulates and continuum. 91h:76103
- Straughan, Brian see Morro, Angelo, 91h:35163
- Strelets, M. Kh. see Kuznetsov, A. E.; et al., 91m:76078

- Stuart, Andrew. A note on high/low-wave-number interactions in spatially discrete parabolic equations. 91c:5080
- Thuraisingham, R. A. *see* Gray, B. F., 91c:58091
- Traytak, S. D. The use of fractional-order derivatives for determination of the time-dependent rate constant. 91k:92045
- Tsaurouhas, George *see* Vance, William; et al., 91f:58069
- Turdyn, Tamás. Sensitivity analysis of complex kinetic systems. Tools and applications. 91i:92016
- Tyson, John J. Traveling waves in excitable media. 91k:92006
- Spiral waves in the Belousov-Zhabotinskii reaction. (see 91j:58005)
- Vance, William (with Tsaurouhas, George; Roas, John). Universal bifurcation structures of forced oscillators. 91f:58069
- Verbitskii, V. I. (with Gorban', A. N.). Simultaneously dissipative operators and quasithermodynamicity of systems of chemical reactions. (Russian) 91k:92049
- Weinitschke, Hubertus J. *see* Lange, Charles G., 91k:35029
- Yablonskii, G. S. *see* Bir, V. A., 91c:92102
- Yamada, Yoshio (with Yotsutani, Shoji). A mathematical model on chemical interfacial reactions. 91k:35166
- Yelyukhin, V. A. (with Kholpanov, L. P.). Development and interaction of perturbations in unstable chemically reacting flow systems. 91m:76054
- Yotsutani, Shoji *see* Yamada, Yoshio, 91k:35166
- Zykov, V. S. *see* Darydov, V. A.; et al., 91f:92006

80A99 Miscellaneous topics

- Stronge, W. J. Group theory for the domino effect. 91c:80022

Items with secondary classifications in 80A99

- Pavón, Diego. The generalised second law and extended thermodynamics. 91b:83058
- Shayakhmetova, A. Stability of periodic regimes in a system of relay temperature control. (Russian. Uzbek summary) 91m:35035

81-XX Quantum theory

81-01 Instructional exposition (textbooks, tutorial papers, etc.)

- (Alvarez-Gaumé, L.) *see* Galindo, A., 91k:81001
- (Bromley, D. A.) *see* Greiner, Walter, 91k:81002
- Burzyński, Andrzej. Probabilistic structure of quantum theory. 91d:81001
- Cook, David B. ★ Schrödinger's mechanics. 91m:81001
- Galindo, A. (with Pascual Broncano, Pedro J.) ★ Quantum mechanics. I. 91k:81001
- (García, J. D.) *see* Galindo, A., 91k:81001
- Greiner, Walter ★ Relativistic quantum mechanics. 91k:81002
- Landau, Rubin H. ★ Quantum mechanics. II. 91g:81001
- Pascual Broncano, Pedro J. *see* Galindo, A., 91k:81001
- Piron, Constantin ★ Mécanique quantique. (French) [Quantum mechanics] 91j:81001
- Sredniawa, Bronisław ★ Mechanika kwantowa. (Polish) [Quantum mechanics] 91d:81002
- Surján, Péter R. ★ Second quantized approach to quantum chemistry. 91g:81002
- Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 91h:81001

Items with secondary classifications in 81-01

- (Anson, John C.) *see* Dautray, Robert, 91h:00004a
- (Artola, Michel) *see* Dautray, Robert, 91h:00004a
- Barut, Asim O. ★ Geometry and physics. 91c:81006
- Berezetskii, V. B. (with Lifshits, E. M.; Pitaevskii, L. P.) ★ Теоретическая физика ("Ландау-Лифшиц"). Том IV. (Russian) [Theoretical physics ("Landau-Lifshits"). Vol. IV] 91a:00004
- (Bohr, Niels) *see* Honner, John, (Not in MR)
- (Cossensat, Michel) *see* Dautray, Robert, 91h:00004a
- Cetto, Ana María *see* de la Peña, Luis, (Not in MR)
- Chen, Jin Quan ★ Group representation theory for physicists. 91h:81047
- (Cook, K. M.) *see* Khoruzhii, S. S., 91g:81070
- Dautray, Robert (with Lions, Jacques-Louis) ★ Mathematical analysis and numerical methods for science and technology. Vol. 3. 91h:00004a
- Debnath, Lokenath (with Mikusiński, Piotr) ★ Introduction to Hilbert spaces with applications. 91b:46001
- (Hamermesh, Morton) *see* Chen, Jin Quan, 91h:81047
- Honner, John ★ The description of nature. (Not in MR)
- Hughes, R. I. G. ★ The structure and interpretation of quantum mechanics. 91f:81005
- Hunziker, Walter. Asymptotic perturbation theory for Schrödinger eigenvalue problems. 91a:81215
- Khoruzhii, S. S. ★ Introduction to algebraic quantum field theory. 91g:81070
- (Lahee, A.) *see* Nachtmann, Otto, 91j:81104
- Landau, L. D. (with Lifshits, E. M.) ★ Теоретическая физика. Том II. (Russian) [Theoretical physics. Vol. II] 91a:00002
- (with Lifshits, E. M.) ★ Теоретическая физика. Том III. (Russian) [Theoretical physics. Vol. III] 91a:00003
- Lifshits, E. M. *see* Landau, L. D., 91a:00002; 91a:00003 and Berezetskii, V. B.; et al., 91a:00004
- Lions, Jacques-Louis *see* Dautray, Robert, 91h:00004a
- Mikusiński, Piotr *see* Debnath, Lokenath, 91b:46001
- Morozov, A. Yu. String theory and fundamental interactions. (Russian) (Not in MR)
- Nachtmann, Otto ★ Elementary particle physics. 91j:81104
- Park, David A. ★ Classical dynamics and its quantum analogues. 91c:70002

- de la Peña, Luis (with Cetto, Ana María). Stochastic theories in quantum mechanics. (Spanish. English summary) (Not in MR)
- Pitaevskii, L. P. *see* Berezetskii, V. B.; et al., 91a:00004; Landau, L. D., 91a:00002 and 91a:00003
- Schmutzer, Ernst ★ Grundlagen der Theoretischen Physik. Teil II. (German) [Foundations of theoretical physics. Part II] 91b:00003b
- Shore, Bruce W. ★ The theory of coherent atomic excitation. Vol. 1. 91k:81226
- Taber, Michael ★ Chaos and integrability in nonlinear dynamics. 91a:58066
- (Wetzel, W.) *see* Nachtmann, Otto, 91j:81104
- Wright, Ron. Generalized urn models. 91c:81005

81-02 Research exposition (monographs, survey articles)

- Bleuler, Konrad. The role of modern mathematics in the formulation of basic laws in physics. (see 91i:81005)
- Bohm, Arno (with Gadella, M.) ★ Dirac kets, Gamow vectors and Gelfand triplets. 91d:81003
- Boyarsky, Daniel (with Naón, C. M.). An introduction to conformal invariance in quantum field theory and statistical mechanics. 91b:81001
- (Browder, Felix E.) *see* Witten, Edward, 91f:81004
- (Bytsenko, A. A.) *see* West, Peter C., 91f:81003
- Cardy, John L. Conformal invariance and statistical mechanics. 91f:81001
- Fulling, Stephen A. ★ Aspects of quantum field theory in curved space-time. 91h:81002
- Gadella, M. *see* Bohm, Arno, 91d:81003
- (Gubarev, V. V.) *see* Harmuth, Henning F., 91h:81003
- Harmuth, Henning F. ★ Применение методов теории информации в физике. (Russian) [Application of the methods of information theory in physics] 91h:81003
- Jaffe, Arthur M. Mathematics motivated by physics. 91m:81002
- (Kulsh, P. P.) *see* West, Peter C., 91f:81003
- Lieb, Elliott H. The stability of matter: from atoms to stars. 91f:81002
- Naón, C. M. *see* Boyarsky, Daniel, 91b:81001
- (Patashinski, A. Z.) *see* Harmuth, Henning F., 91h:81003
- (Pozdnyakov, V. S.) *see* Harmuth, Henning F., 91h:81003
- Sachs, Mendel ★ Quantum mechanics from general relativity. 91h:81002
- West, Peter C. ★ Введение в суперсимметрию и супергравитацию. (Russian) [Introduction to supersymmetry and supergravity] 91f:81003
- An introduction to string theory. 91a:81001
- Witten, Edward ★ String theory and geometry. 91f:81004

Items with secondary classifications in 81-02

- Albeverio, Sergio (with Fenstad, Jens Erik; Hoegh-Krohn, Raphael J.; Lindström, Tom L.) ★ Нестандартные методы в стохастическом анализе и математической физике. (Russian) [Nonstandard methods in stochastic analysis and mathematical physics] 91i:00001
- Alvarez-Gaumé, L. Topics in conformal field theory and string theory. 91k:81146
- (with Gómez, César; Sierra, Germán). Duality and quantum groups. 91c:81122
- Ambjørn, Jan. 2D gravity and noncritical strings from random surfaces. (see 91f:81003)
- Arefeva, I. Ya. String field theory. 91k:81118
- Bagchi, Bijan Kumar *see* Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
- Bagger, Jonathan. Basic conformal field theory. (see 91m:81005)
- Barr, Itzhak. Generalized differential geometry and strings. (see 91k:81006)
- Bauerle, G. G. A. Sigma models and Kac-Moody algebras. 91k:81090
- Belyaev, V. B. ★ Lectures on the theory of few-body systems. 91m:81308
- Bhattacharya, Gautam (with Ghosh, Sasanka). Algebraic Bethe ansatz scheme for relativistic integrable field theories in continuum: sine-Gordon model. 91b:81121
- Bilal, Adel. Fusion and braiding in W -algebra extended conformal theories. 91d:81116
- Bonneau, Guy. Some fundamental but elementary facts on renormalization and regularization: a critical review of the eighties. 91f:81109
- (Burov, M. B.) *see* Butkovskii, A. G., 91f:93001
- Butkovskii, A. G. (with Samoilenco, Yu. I.) ★ Control of quantum-mechanical processes and systems. 91f:93001
- Carlip, Steven. Bordered surfaces, off-shell amplitudes, sewing, and string field theory. 91m:81189
- Carmeli, M. (with Huleihil, Kh.; Leibowitz, E.) ★ Gauge fields. 91m:58033
- (Cook, K. M.) *see* Khoruzhii, S. S., 91g:81070
- Cvetič, Mirjam. Effective Lagrangian of the (blown-up) orbifolds. (see 91k:81006)
- D'Hoker, Eric. Recent advances in superstring perturbation theory. 91a:81158
- Dijkgraaf, Robbert (with Verlinde, Erik; Verlinde, Herman). On moduli spaces of conformal field theories with $c \geq 1$. 91c:81131
- Dixon, Lance J. Some world-sheet properties of superstring compactifications, on orbifolds and otherwise. 91m:81199
- Doebner, H.-D. (with Tolar, J.) Symmetry and topology of the configuration space and quantization. (see 91m:81007)
- Drayner, J. P. (with Leschber, Yorck). Algebraic realization of the rotor. (see 91m:81007)
- Fee, G. J. *see* Scott, T. C.; et al., 91f:81034
- Fenstad, Jens Erik *see* Albeverio, Sergio; et al., 91i:00001
- (Feynman, Richard Phillips) *see* Schulman, Lawrence S., (91k:81004)
- Flume, R. Wess-Zumino-Witten models and other two-dimensional critical systems. 91c:81094
- Frampton, Paul H. ★ Gauge field theories. 91m:81138
- Fushchich, V. I. (with Shiten', V. M.; Serov, N. I.) ★ Симметричный анализ в точные решения нелинейных уравнений математической физики. (Russian) [Symmetry analysis and exact solutions of nonlinear equations of mathematical physics] 91c:58213
- Gawędziński, Krzysztof. Conformal field theory. 91g:81137
- Geddes, K. O. *see* Scott, T. C.; et al., 91f:81034
- Gervais, Jean-Loup. Liouville superstrings. 91a:81162
- Ghosh, Sasanka *see* Bhattacharya, Gautam, 91b:81121
- Giddings, Steven B. Fundamental strings. (see 91k:81003)
- Ginsparg, Paul. Applied conformal field theory. 91h:81129
- Gómez, César *see* Alvarez-Gaumé, L.; et al., 91c:81122

- Govaerts, Jan The Nambu-Goto string: its phase-space path-integral. 91a:81163
- Green, Michael B. Introduction to string and superstring theory. (see 91a:81003)
- (with Hull, Christopher M.) Quantum mechanics of a twisted superparticle. 91a:81172
- Hogeh-Krohn, Raphael J. see Alberverio, Sergio; et al., 91a:80001
- Horowitz, Gary T. Introduction to string field theory. 91a:81164a
- Introduction to string field theory. 91a:81164b
- Horváthy, Peter A. ★ Introduction to monopoles. 91a:81097
- Hübsch, Tristan Superstring phenomenology and cohomology on Calabi-Yau manifolds. 91a:81205
- Huleihil, Kh. see Carmeli, M.; et al., 91m:58033
- Hull, Christopher M. see Green, Michael B., 91a:81172
- Hurst, C. A. Quantum theory of the free electromagnetic field. (see 91m:81007)
- Iyer, Balasubramanian Ramakrishna Quantum field theory in black hole spacetimes. 91a:81084
- Jevicki, Antal Three lectures on string field theory. (see 91k:81006)
- Construction of interacting string and superstring field theory. (see 91k:81003)
- Kaku, Michio Fun with strings. 91a:81078
- Khoruzhii, S. S. ★ Introduction to algebraic quantum field theory. 91g:81070
- Koumfas, Costas String and superstring solutions with or without spontaneously broken symmetries. (see 91k:81006)
- Kubyshev, Yu. A. (with Mourão, J. M.; Rudolph, Gerd; Volobuev, I. P.) ★ Dimensional reduction of gauge theories, spontaneous compactification and model building. 91a:81119
- Labahn, George see Scott, T. C.; et al., 91a:81034
- Lahiri, Anuradha (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Supersymmetry in quantum mechanics. 91g:81028a
- (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Erratum: "Supersymmetry in quantum mechanics". 91g:81028b
- LeClair, André Taming the integrable zoo. (see 91m:17024)
- Leibowitz, E. see Carmeli, M.; et al., 91m:58033
- Leschber, Yorck see Draayer, J. P., 91m:81007
- Lindström, Tom L. see Alberverio, Sergio; et al., 91a:80001
- Lüscher, Martin Selected topics in lattice field theory. (see 91b:81003)
- Lüst, D. (with Theisen, S.) ★ Lectures on string theory. 91g:81124
- Mack, Gerhard Introduction to conformal invariant quantum field theory in two and more dimensions. 91d:81133
- Manin, Yu. I. Strings. 91c:81168
- Nickelsson, Jonko Current algebras: geometry and physics. (Finnish. English summary) (Not in MR)
- Monagan, M. B. see Scott, T. C.; et al., 91a:81034
- Moore, R. A. see Scott, T. C.; et al., 91a:81034
- Morozov, A. Yu. (with Perelomov, A. M.) Complex geometry and string theory. (Russian) 91d:81108
- (with Perelomov, A. M.; Roslyi, A. S.; Shifman, M. A.; Turbiner, A. V.) Quasi-exactly-solvable quantal problems: one-dimensional analogue of rational conformal field theories. 91d:81134
- Mourão, J. M. see Kubyshev, Yu. A.; et al., 91a:81119
- Nelson, Philip Lectures on supermanifolds and strings. (see 91k:81003)
- Newton, Roger G. ★ Inverse Schrödinger scattering in three dimensions. 91a:81217
- Novosadov, B. K. ★ Методы решения уравнений квантовой химии. (Russian) [Methods for solving equations in quantum chemistry] 91a:81253
- Parisi, Giorgio ★ Statistical field theory. 91a:81116
- Pearson, D. R. ★ Quantum scattering and spectral theory. 91k:81198
- Perelomov, A. M. see Morozov, A. Yu., 91d:81108 and 91d:81134
- Peshkin, M. (with Tonomura, A.) ★ The Aharonov-Bohm effect. 91c:81004
- (Pines, David) see Parisi, Giorgio, 91a:81116
- Poltyakov, A. M. Two-dimensional quantum gravity. Superconductivity at high T_C . 91k:81177
- (Pontecorvo, G. B.) see Belyaev, V. B., 91m:81308
- Pope, C. N. Quantization of super p-branes. (see 91k:81006)
- Quevedo, Fernando Heterotic strings in orbifold and Wilson-line backgrounds. (see 91k:81006)
- Rajaraman, R. The path integral and some applications. 91c:81040
- Ristig, M. L. The structure of quantum fluids. 91b:81196
- Roslyi, A. A. see Morozov, A. Yu.; et al., 91d:81134
- Ross, Graham G. Low energy models from the superstring. 91c:81114
- Roy, Prodyot Kumar see Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
- Rudolph, Gerd see Kubyshev, Yu. A.; et al., 91a:81119
- Samoilenko, Yu. I. see Batkovskii, A. G., 91f:93001
- Sammel, Stuart Introduction to string field theory. 91a:81064
- Off-shell string physics from conformal field theory. 91b:81116
- Schaltzer, Howard J. A path integral construction of superconformal field theories from a gauged supersymmetric Wess-Zumino-Witten action. 91b:81154
- Schulman, Lawrence S. Feynman and beyond: 40 years of path integration. (see 91k:81004)
- Schwarz, John H. Superconformal symmetry in string theory. (see 91m:81005)
- Scott, T. C. (with Moore, R. A.; Fee, G. J.; Monagan, M. B.; Labahn, George; Geddes, K. O.) Perturbative solutions of quantum mechanical problems by symbolic computation: a review. 91a:81034
- Segal, Irving E. Algebraic quantization and stability. 91m:81122
- Serov, N. I. see Fushchich, V. I.; et al., 91c:82113
- Shahad, A. E. Polarization of a vacuum and a quantum relativistic gas in an external field. (Russian) 91a:81232
- Shapiro, J. A. (with Taylor, Cyrus Cooper) The spacetime supersymmetric formulation of the string. 91a:81067
- Shifman, M. A. see Morozov, A. Yu.; et al., 91d:81134
- Shteleu, V. M. see Fushchich, V. I.; et al., 91c:82113
- (Shubin, M. A.) see Alberverio, Sergio; et al., 91a:80001
- Sierra, Germán see Alvarez-Gaumé, L.; et al., 91c:81122
- Sigal, I. M. Many-body scattering problem. 91a:81231
- Spencer, Thomas Crawford Ergodic Schrödinger operators. 91c:81011

Streeter, R. F. (with Wightman, Arthur S.) ★ PCT, spin and statistics, and all that. 91a:81055

- Strominger, Andrew Lectures on closed string field theory. 91k:81141
- Taylor, Cyrus Cooper see Shapiro, J. A., 91a:81067
- Theisen, S. see Lüst, D., 91g:81124
- Thorn, Charles B. Lectures on string theory. (see 91a:81064)
- Tolar, J. see Doeblner, H.-D., 91m:81007
- Tonomura, A. see Peshkin, M., 91c:81004
- Tseytlin, A. A. Two-dimensional quantum gravity and strings. 91c:81148
- Turbine, A. V. see Morozov, A. Yu.; et al., 91d:81134
- Vafa, Cumrun Conformal algebra of Riemann surfaces. (see 91k:81003)
- de Vega, H. J. YBZF algebras, Kac-Moody algebras and integrable theories. 91b:80056
- Verlinde, Erik see Dijkgraaf, Robbert; et al., 91c:81131
- Verlinde, Herman see Dijkgraaf, Robbert; et al., 91c:81131
- Volobuev, I. P. see Kubyshev, Yu. A.; et al., 91a:81119
- Wightman, Arthur S. see Streeter, R. F., 91a:81055
- Zav'yalov, O. I. ★ Renormalized quantum field theory. 91k:81110
- Zuber, J.-B. Conformal field theory and applications. (see 91k:81003)
- Conformal field theories, Coulomb gas picture and integrable models. 91c:82025
- (Zvonkin, A. K.) see Alberverio, Sergio; et al., 91a:80001

81-03 Historical (must also be assigned at least one classification number from Section 01)

- Bleuler, Konrad Werner Heisenberg's ideas on particle physics in the light of recent achievements. (Not in MR)
- (Bohr, Niels) see Følse, Henry J., 91a:81005
- Enz, Charles P. The space, time and field concepts in Wolfgang Pauli's work. (see 91a:81005)
- Følse, Henry J. Niels Bohr's concept of reality. (see 91a:81005)
- Geldberg, Leo Quantum mechanics at the Harvard Observatory in the 1930s. (see 91e:00013)
- Görnitz, Th. (with von Weizsäcker, Carl-Friedrich) Remarks on S. Kochen's interpretation of quantum mechanics. (see 91a:81005)
- (Heisenberg, Werner Karl) see von Weizsäcker, Carl-Friedrich, 91a:81005
- Laurikainen, K. V. Wolfgang Pauli's conception of reality. (see 91a:81005)
- (Pauli, Wolfgang) see Enz, Charles P., 91a:81005 and Laurikainen, K. V., 91a:81005
- Rieseberg, Ulrich Auf der Suche nach der via regia zum Bohrschen Komplementaritätsargument in der Quantenmechanik. [In search of the quest of the via regia to Bohr's complementarity argument in quantum mechanics] (see 91k:01015)
- Schmutzer, Ernst Einheit der Physik in ihrer Fünfdimensionalität? [Unity of physics in its five-dimensionality?] (see 91k:01015)
- Schommers, W. Evolution of quantum theory. (see 91a:81010)
- Treder, Hans-Jürgen Elementarkonstanten und Plancks Kohlestäubchen. [Elementary constants and Planck's carbon particle] (Not in MR)
- von Weizsäcker, Carl-Friedrich Heisenberg's philosophy. (see 91a:81005)
- see also Görnitz, Th., 91a:81005
- Items with secondary classifications in 81-03
- Abrikosov, A. A. (with Ambartsumyan, V. A.; Baldin, A. M.; et al.) Nikolai Nikolaevich Bogolyubov (on his eightieth birthday). (Not in MR)
- Ambartsumyan, V. A. see Abrikosov, A. A.; et al., (Not in MR)
- Aramaki, Seta Development of the renormalization theory in quantum electrodynamics. I. 91a:01031
- Bach, Alexander Eine Fehlinterpretation mit Folgen: Albert Einstein und der Welle-Teilchen Dualismus. [An erroneous interpretation with consequences: Albert Einstein and the wave-particle duality] 91b:81005
- Baldin, A. M. see Abrikosov, A. A.; et al., (Not in MR)
- (Bequerel, Jean) see Kragh, Helge, (Not in MR)
- Ben-Menahem, Yemima Struggling with causality: Schrödinger's case. 91a:01049
- (Blum, Walter) see Heisenberg, Werner Karl, 91b:01096
- (Bogolyubov, N. N.) see Abrikosov, A. A.; et al., (Not in MR)
- (Bohr, Niels) see Mehra, Jagdish, 91a:81005
- Borg, F. The breakdown of the common sense. (see 91a:81005)
- Born, M. (with Heisenberg, Werner Karl; Jordan, Pascual) Quantum mechanics. II (a fragment). (Russian) 91a:01142
- Dieks, Dennis Quantum statistics, identical particles and correlations. 91a:81018
- (Dirac, P. A. M.) see Reichenberg, Kh., 91a:01131 and Virginia, V. P., 91a:01131
- (Dür, Hans-Peter) see Heisenberg, Werner Karl, 91b:01096
- (Einstein, Albert) see Bach, Alexander, 91b:81005 and Mehra, Jagdish, 91a:81005
- Heisenberg, Werner Karl ★ Gesammelte Werke. Abteilung A. Teil II. (German) [Collected works. Series A. Part II] 91b:01096
- see also Born, M.; et al., 91a:01142 and Mehra, Jagdish, 91a:81005
- Jordan, Pascual On quantum mechanics of the degeneration of a gas. (Russian) 91j:01067
- see also Born, M.; et al., 91a:01142
- (Kozhevnikov, A. B.) see Jordan, Pascual, 91j:01067 and Reichenberg, Kh., 91a:01131
- Kragh, Helge Concept and controversy: Jean Becquerel and the positive electron. (Not in MR)
- (Lahti, Pekka J.) see Symposium: Foundations of Modern Physics, 91a:81005
- Lavenda, B. H. Underlying probability distributions of Planck's radiation law. (Not in MR)
- Mehra, Jagdish Niels Bohr's discussions with Albert Einstein, Werner Heisenberg, and Erwin Schrödinger: the origins of the principles of uncertainty and complementarity. (see 91a:81005)
- (Mittelstaedt, Peter) see Symposium: Foundations of Modern Physics, 91a:81005
- Pauli, Wolfgang Degeneration of a gas, and paramagnetism. (Russian) 91j:01069
- Peshkin, M. (with Tonomura, A.) ★ The Aharonov-Bohm effect. 91c:81004
- (Reichenberg, H.) see Heisenberg, Werner Karl, 91b:01096
- Regge, Tullio E. Physicists and computer algebra. (see 91e:00020)
- Reichenberg, Kh. Foundations of geometry and quantum algebra—from Dirac's early work on quantum mechanics. (Russian) (see 91a:01131)

- (Schrödinger, Erwin) *see* Ben-Menahem, Yemima, 91i:01049 and Mehra, Jagdish, 91i:81005
- Seifried, Hans Autonomy and quantum physics: Nietzsche, Heidegger, and Heisenberg. (Not in MR)
- (Temchin, A. N.) *see* Bors, M.; et al., 91i:01142 and Pauli, Wolfgang, 91j:01069
- Tonumura, A. *see* Peshkin, M., 91c:81004
- Virgin, V. P. P. A. M. Dirac and the problem of the interrelation between physics and mathematics [MR 90a:01063]. (Russian) *see* 91i:01131

Items listed otherwise than by author

Birthday:

Bogolyubov, N. N. *see* Abruksov, A. A.; et al., (Not in MR)

Collected Works:

Heisenberg, Werner *see* Heisenberg, Werner Karl, 91h:01096

Joensuu ★ Symposium on the Foundations of Modern Physics. 1987. 91i:81005

Symposium:

Foundations of Modern Physics ★ Symposium on the Foundations of Modern Physics. 1987. 91i:81005

81-04 Explicit machine computation and programs (not the theory of computation or programming)

- Agishtein, Michael E. (with Jacobs, Laurence; Migdal, Alexander A.; Richardson, John L.) Geometric characterization of states in two-dimensional quantum gravity. 91d:81004
- Baillie, Clive F. *see* Brickner, Ralph G.; et al., (Not in MR)
- Bertrand, P. *see* Ghizoni, A.; et al., (Not in MR)
- Brickner, Ralph G. (with Baillie, Clive F.; Johnson, S. Lennart) QCD on the connection machine: beyond *LISP. (Not in MR)
- DeGrand, Thomas A. (with Loft, Richard D.) Wave-function tests for lattice QCD spectroscopy. (Not in MR)
- Feix, M. R. *see* Ghizoni, A.; et al., (Not in MR)
- Fijalkow, E. *see* Ghizoni, A.; et al., (Not in MR)
- Ghizoni, A. (with Bertrand, P.; Shourci, M. M.; Johnston, T. W.; Fijalkow, E.; Feix, M. R.) A Vlasov code for the numerical simulation of stimulated Raman scattering. (Not in MR)
- Jacobs, Laurence *see* Agishtein, Michael E.; et al., 91d:81004
- Johnson, S. Lennart *see* Brickner, Ralph G.; et al., (Not in MR)
- Johnston, T. W. *see* Ghizoni, A.; et al., (Not in MR)
- Loft, Richard D. *see* DeGrand, Thomas A., (Not in MR)
- Migdal, Alexander A. *see* Agishtein, Michael E.; et al., 91d:81004
- Richardson, John L. *see* Agishtein, Michael E.; et al., 91d:81004
- Shourci, M. M. *see* Ghizoni, A.; et al., (Not in MR)

Items with secondary classifications in 81-04

- Agishtein, Michael E. (with Migdal, Alexander A.) Geometry of a two-dimensional quantum gravity: numerical study. 91h:83034
- Aleiner, I. D. (with Migdal, Alexander A.; Zmushko, V. V.) The Ising model on the dynamical triangulated random surface. 91c:82042
- Ambjorn, Jan (with Bulatov, D. V.; Kazakov, Vladimir Aleksandrovich) The bosonic string represented as ϕ graphs: new Monte-Carlo simulations. 91c:81091
- Aurich, R. (with Steiner, F.) Energy-level statistics of the Hadamard-Gutzwiller ensemble. 91f:81037
- Bach, Volker Ionization energies of bosonic Coulomb systems. 91m:81329
- Bakker, B. L. G. *see* Huizinga, A. J., 91g:81166
- Bernath, M. *see* Traiber, A. J. S.; et al., (Not in MR)
- Böhm, Manfred *see* Kibbebeck, J.; et al., 91f:81111
- Boyd, John Philip A numerical calculation of a weakly nonlocal solitary wave: the ϕ^4 breather. 91a:81027
- Bulatov, D. V. *see* Ambjorn, Jan; et al., 91c:81091
- Denner, A. *see* Kibbebeck, J.; et al., 91f:81111
- Distler, Jacques (with Hloušek, Zvonimir; Kawai, Hiko) Hausdorff dimension of continuous Polyakov's random surfaces. 91j:81059
- Elgin, John *see* Swinton, Jonathan, 91c:81190
- Fendrik, A. J. *see* Traiber, A. J. S.; et al., (Not in MR)
- Fowler, Michael (with Frahm, Holger) Quantization conditions for the periodic Toda chain: inadequacy of Bethe-ansatz methods. 91c:81024
- Frahm, Holger *see* Fowler, Michael, 91c:81024
- Frisk, Hans Shell structure in terms of periodic orbits. 91c:81177
- Fung, P. C. W. *see* To, F. T.; et al., 91a:81129
- Göckeler, M. (with Horsley, R.; Laermann, E.; Rakow, P.; Schierholz, G.; Sommer, R.; Wiese, U.-J.) QED—a lattice investigation of the chiral phase transition and the nature of the continuum limit. (Not in MR)
- Hloušek, Zvonimir *see* Distler, Jacques; et al., 91j:81059
- Horsley, R. *see* Göckeler, M.; et al., (Not in MR)
- Hou, Xin-Jun *see* Liu, Fu Qing; et al., 91f:81228
- Hua, Long (with Kaku, Michio) Shapiro-Virasoro amplitude and string field theory. 91m:81204
- Huang, Kerson (with Polonyi, Janos) Renormalization of the sine-Gordon model and nonconservation of the kink current. (Not in MR)
- Hughes, D. I. Symbolic computation with fermions. 91j:60063
- Huizinga, A. J. (with Bakker, B. L. G.) The solution of Faddeev integral equations for three-body scattering by means of B -splines. 91g:81166
- Israel, F. M. Simple models of quantum chaos: spectrum and eigenfunctions. (Not in MR)
- Kaku, Michio *see* Hua, Long, 91m:81204
- Kawai, Hiko *see* Distler, Jacques; et al., 91j:81059
- Kazakov, Vladimir Aleksandrovich *see* Ambjorn, Jan; et al., 91c:81091
- Kleinert, H. Solution of Dyson equation for elastic membranes. 91i:81049
- Klink, W. H. (with Ton-That, Tuong) Calculation of Clebsch-Gordan and Racah coefficients using symbolic manipulation programs. 91c:22036

- Kobylinski, N. A. (with Stepanov, S. S.; Tutik, R. S.) The A -expansion for Regge trajectories. I. The Schrödinger equation. 91g:81169
- Kouri, Donald J. *see* Sun, Yan; et al., (Not in MR)
- Kibbebeck, J. (with Böhm, Manfred; Denner, A.) Feyn Arts—computer-algebraic generation of Feynman graphs and amplitudes. 91f:81111
- Laermann, E. *see* Göckeler, M.; et al., (Not in MR)
- Lim, Teck-kah *see* Liu, Fu Qing, 91a:81220 and 91f:81228
- Liu, Fu Qing (with Lim, Teck-kah) The hyperspherical-harmonics expansion method and the integral-equation approach to solving the few-body problem in momentum space. 91a:81220
- (with Hou, Xin-Jun; Lim, Teck-kah) Faddeev-Yakubovsky theory for four-body systems with three-body forces and its one-dimensional integral equations from the hyperspherical-harmonics expansion in momentum space. 91f:81228
- Michelson, Daniel Elementary particles as solutions of the Sivashinsky equation. 91i:81015
- Migdal, Alexander A. *see* Aleiner, I. D.; et al., 91c:82042 and Agishtein, Michael E., 91c:83034
- Nauenberg, Michael Autocorrelation function and quantum recurrence of wavepackets. 91f:81050
- Peskin, Charles S. *see* Schlick, Tamar, 91c:81124
- Polonyi, Janos *see* Huang, Kerson, (Not in MR)
- Rakow, P. *see* Göckeler, M.; et al., (Not in MR)
- Schierholz, G. *see* Göckeler, M.; et al., (Not in MR)
- Schlick, Tamar (with Peskin, Charles S.) Can classical equations simulate quantum-mechanical behavior? A molecular dynamics investigation of a diatomic molecule with a Morse potential. 91c:81124
- Schwenke, David W. *see* Sun, Yan; et al., (Not in MR)
- Sieber, M. (with Steiner, F.) Quantum chaos in the hyperbolic billiard. 91f:81042
- Sommer, R. *see* Göckeler, M.; et al., (Not in MR)
- Steiner, F. *see* Aurich, R., 91f:81037 and Sieber, M., 91f:81042
- Stepanov, S. S. *see* Kobylinski, N. A.; et al., 91g:81169
- Sun, Yan (with Kouri, Donald J.; Schwenke, David W.; Truhlar, Donald G.) Time-dependent wavepacket algorithm for inelastic molecule-molecule scattering. (Not in MR)
- Swinton, Jonathan (with Elgin, John) Stability of travelling pulse solutions to a laser equation. 91c:81190
- To, F. T. (with Fung, P. C. W.; Wong, W. T.) New solutions to the classical nonabelian Yang-Mills gauge field with confinement. 91a:81129
- Ton-That, Tuong *see* Klink, W. H., 91c:22036
- Traiber, A. J. S. (with Fendrik, A. J.; Bernath, M.) The rotating elliptic billiard and a signature of quantum chaos. (Not in MR)
- Truhlar, Donald G. *see* Sun, Yan; et al., (Not in MR)
- Tutik, R. S. *see* Kobylinski, N. A.; et al., 91g:81169
- Verbaarschot, J. J. M. (with West, Peter C.; Wu, Tai Tsun) $N = 4$ supersymmetric quantum mechanics and its large order behaviour. 91h:81033
- (with West, Peter C.; Wu, Tai Tsun) Large-order behavior of the supersymmetric anharmonic oscillator. 91f:81046
- West, Peter C. *see* Verbaarschot, J. J. M.; et al., 91h:81033 and 91f:81046
- Wiese, U.-J. *see* Göckeler, M.; et al., (Not in MR)
- Wong, W. T. *see* To, F. T.; et al., 91a:81129
- Wu, Tai Tsun *see* Verbaarschot, J. J. M.; et al., 91h:81033 and 91f:81046
- Zmushko, V. V. *see* Aleiner, I. D.; et al., 91c:82042

81-05 Experimental papers

Items with secondary classifications in 81-05

- Aspect, Alain Experimental tests of Bell's inequalities with pairs of low energy correlated photons. *see* 91m:82002
- Davidson, Arthur Damping in Schrödinger's equation for macroscopic variables. 91a:81031
- Lepore, V. L. (with Sella, Franco) Do performed optical tests disprove local realism? 91c:81008
- Mittelstaedt, Peter (with Prieur, A.; Schieder, R.) Unsharp joint measurement of complementary observables in a photon split beam experiment. *see* 91i:81005
- Namiki, Mikio (with Ohba, Ichiro) Many-Hilbert-spaces theory of quantum measurements. *see* 91i:81005
- Ohba, Ichiro *see* Namiki, Mikio, (91i:81005)
- Prieur, A. *see* Mittelstaedt, Peter; et al., (91i:81005)
- Schieder, R. *see* Mittelstaedt, Peter; et al., (91i:81005)
- Sella, Franco *see* Lepore, V. L., 91c:81008

81-06 Proceedings, conferences, collections, etc.

- (All, S. Twareque) *see* Proceedings: Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics, (Not in MR)
- (Atiyah, Michael Francis) *see* Physics and mathematics of strings, 91h:81004
- (Belavin, A. A.) *see* Problems of modern quantum field theory, 91i:81002
- (Berasanda, Jong-Orn) *see* Path integrals from meV to MeV, 91k:81004
- (Brézin, Edouard) *see* Fields, strings and critical phenomena, 91h:81003
- (Brink, L.) *see* Physics and mathematics of strings, 91m:81006
- (Brown, Harvey R.) *see* Philosophical foundations of quantum field theory, 91c:81001
- (Ciulli, S.) *see* Rigorous methods in particle physics, 91k:81005
- (Davydov, A. S.) *see* Physics of multiparticle systems, 91c:81002
- (Ellis, Jonathan Richard) *see* Physics and mathematics of strings, 91h:81004
- (Exner, Pavel) *see* Schrödinger operators, standard and nonstandard, 91j:81005
- (Exawa, Hiroshi) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- (Friedan, D.) *see* Physics and mathematics of strings, 91m:81006
- (Furlan, G.) *see* Superstrings, unified theories and cosmology, 91k:81006
- (Giovannini, A.) *see* Multiparticle dynamics, 91i:81001
- Glimm, James (with Jaffe, Arthur M.) ★ Collected papers. Vol. 2. 91m:81003

- (Green, Michael B.) *see* Physics and mathematics of strings, 91b:81004 and Superstrings '88, 91b:81004
- (Grisaru, M.) *see* Superstrings '88, 91b:81004
- (Grozdanov, T.) *see* Classical dynamics in atomic and molecular physics, 91j:81002
- (Gruber, Bruno) *see* Symmetries in science, 91m:81007
- (Grujić, P.) *see* Classical dynamics in atomic and molecular physics, 91j:81002
- (Harré, Ram) *see* Philosophical foundations of quantum field theory, 91e:81001
- (Horváth, Zsolt) *see* Frontiers in nonperturbative field theory, 91j:81003
- (van Hove, Léon) *see* Multiparticle dynamics, 91i:81001
- (Jengo, Roberto) *see* Superstrings '88, 91b:81004
- (Jaffe, Arthur M.) *see* Glimm, James, 91m:81003
- (Jevicki, Antal) *see* Particles, strings and supernovae, 91k:81003
- (Kamal, A. N.) *see* Particles and fields, 91m:81005
- (de Kerf, E. A.) *see* Proceedings: Seminar on Mathematical Structures in Field Theories, 91b:81005
- (Khanna, F. C.) *see* Particles and fields, 91m:81005
- (Kittel, W.) *see* Multiparticle dynamics, 91i:81001
- (Klimyk, A. U.) *see* Problems of modern quantum field theory, 91e:81002
- (Knizhnik, V. G.) *see* Physics and mathematics of strings, 91m:81006
- (Kobayashi, Shun-ichi) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- (Krstić, P.) *see* Classical dynamics in atomic and molecular physics, 91j:81002
- (Lenczewski, Romuald) *see* Symmetries in science, 91m:81007
- (Llewellyn-Smith, C. H.) *see* Physics and mathematics of strings, 91b:81004
- (Lucia, J. L.) *see* School: Particles and Fields, 91j:81004
- (Martin, André) *see* Rigorous methods in particle physics, 91k:81005
- (Morales, Pedro) *see* Proceedings: Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics, (Not in MR)
- (Murayama, Yoshimasa) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- (Nomura, Sadao) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- (Palla, László) *see* Frontiers in nonperturbative field theory, 91j:81003
- (Pati, J. C.) *see* Superstrings, unified theories and cosmology, 91k:81006
- (Pátkós, A.) *see* Frontiers in nonperturbative field theory, 91j:81003
- (Pijls, H. G. J.) *see* Proceedings: Seminar on Mathematical Structures in Field Theories, 91b:81005
- (Piran, Tsvi) *see* Strings and superstrings, 91b:81003
- (Polyakov, A. M.) *see* Physics and mathematics of strings, 91m:81006
- (Sa-yakanit, Virulh) *see* Path integrals from meV to MeV, 91k:81004
- (Scheck, Florian) *see* Rigorous methods in particle physics, 91k:81005
- (Sciama, D. W.) *see* Superstrings, unified theories and cosmology, 91k:81006
- (Seba, Petr) *see* Schrödinger operators, standard and nonstandard, 91j:81005
- (Sezgin, Ergin) *see* Superstrings '88, 91b:81004 and Superstrings, unified theories and cosmology, 91k:81006
- (Shafi, Q.) *see* Superstrings, unified theories and cosmology, 91k:81006
- (Shapere, Alfred) *see* Geometric phases in physics, 91b:81004
- (Sitrakool, Wichit) *see* Path integrals from meV to MeV, 91k:81004
- (Strominger, Andrew) *see* Superstrings '88, 91b:81004
- (Tan, Chung I.) *see* Particles, strings and supernovae, 91k:81003
- (Thirring, W.) *see* Rigorous methods in particle physics, 91k:81005
- (Weinberg, Steven) *see* Strings and superstrings, 91b:81003
- (Wilczek, Frank) *see* Geometric phases in physics, 91b:81004
- (Zamolodchikov, Aleksandr B.) *see* Problems of modern quantum field theory, 91e:81002
- (Zepeda, A.) *see* School: Particles and Fields, 91j:81004
- (Zinn-Justin, J.) *see* Fields, strings and critical phenomena, 91b:81003

Items listed otherwise than by author

Advanced Study Institute:

Elementary Particle Physics ★ Particles, strings and supernovae. Vol. 1, 2. 91k:81003

Alushta ★ Problems of modern quantum field theory. 91e:81002

Banff, AB ★ Particles and fields. 3. 91m:81005

Bangkok ★ Path integrals from meV to MeV. 91k:81004

Birthday:

Martin, André ★ Rigorous methods in particle physics. 91k:81005

van Hove, Léon ★ Multiparticle dynamics. 91i:81001

Brieni ★ Classical dynamics in atomic and molecular physics. 91j:81002

Carbondale, IL ★ Symmetries in science. II. 91m:81007

Champs, cordes et phénomènes critiques ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Classical dynamics in atomic and molecular physics ★ Classical dynamics in atomic and molecular physics. 91j:81002

Conference:

Classical Dynamics in Atomic and Molecular Physics ★ Classical dynamics in atomic and molecular physics. 91j:81002

Path Integrals from meV to MeV ★ Path integrals from meV to MeV. 91k:81004

Schrödinger Operators, Standard and Nonstandard ★ Schrödinger operators, standard and nonstandard. 91j:81005

Cuernavaca ★ III Mexican School of Particles and Fields. 91j:81004

Dubna ★ Schrödinger operators, standard and nonstandard. 91j:81005

Eger ★ Frontiers in nonperturbative field theory. 91j:81003

Festschrift:

van Hove, Léon ★ Multiparticle dynamics. 91i:81001

Fields, strings and critical phenomena ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Foundations of quantum mechanics in the light of new technology ★ Foundations of quantum mechanics in the light of new technology. 91m:81004

Frontiers in nonperturbative field theory ★ Frontiers in nonperturbative field theory. 91j:81003

Geometric phases in physics ★ Geometric phases in physics. 91b:81004

Institute:

Particles and Fields ★ Particles and fields. 3. 91m:81005

Jerusalem ★ Strings and superstrings. 91b:81003

La Thuile ★ Multiparticle dynamics. 91i:81001

Les Houches ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Montreal, PQ ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on

Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Multiparticle dynamics ★ Multiparticle dynamics. 91i:81001

Obituary:

Knizhnik, V. G. ★ Physics and mathematics of strings. 91m:81006

Particles and fields ★ Particles and fields. 3. 91m:81005

Particles, strings and supernovae ★ Particles, strings and supernovae. Vol. 1, 2. 91k:81003

Path integrals from meV to MeV ★ Path integrals from meV to MeV. 91k:81004

Philosophical foundations of quantum field theory ★ Philosophical foundations of quantum

field theory. 91e:81001

Physics and mathematics of strings ★ Physics and mathematics of strings. 91b:81004

— ★ Physics and mathematics of strings. 91m:81006

Physics of multiparticle systems ★ Физика многочастичных систем. Вып. 17. (Russian)

[Physics of multiparticle systems. No. 17] 91e:81002

Problems of modern quantum field theory ★ Problems of modern quantum field theory.

91i:81002

Proceedings:

Seminar on Mathematical Structures in Field Theories ★ Proceedings Seminar 1986-

1987. Mathematical Structures in Field Theories. 91b:81005

Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics

★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional

Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Providence, RI ★ Particles, strings and supernovae. Vol. 1, 2. 91k:81003

Rigorous methods in particle physics ★ Rigorous methods in particle physics. 91k:81005

School:

Particles and Fields ★ III Mexican School of Particles and Fields. 91j:81004

Problems of Modern Quantum Field Theory ★ Problems of modern quantum field theory.

91i:81002

Superstrings ★ Superstrings '88. 91b:81004

Theoretical Physics ★ Strings and superstrings. 91b:81003

— ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena]

91b:81003

Schrödinger operators, standard and nonstandard ★ Schrödinger operators, standard and

nonstandard. 91j:81005

Seminar:

Functional Integration Methods in Stochastic Quantum Mechanics, Joint Concordia-

Sherbrooke ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on

Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Mathematical Structures in Field Theories ★ Proceedings Seminar 1986-1987. Mathe-

matical Structures in Field Theories. 91b:81005

Sherbrooke, PQ ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on

Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Strings and superstrings ★ Strings and superstrings. 91b:81003

Superstrings '88 ★ Superstrings '88. 91b:81004

Superstrings, unified theories and cosmology ★ Superstrings, unified theories and cosmology

1987. 91k:81006

Symmetries in science ★ Symmetries in science. II. 91m:81007

Symposium:

Foundations of Quantum Mechanics in the Light of New Technology ★ Foundations of

quantum mechanics in the light of new technology. 91m:81004

Multiparticle Dynamics ★ Multiparticle dynamics. 91i:81001

Symmetries in Science ★ Symmetries in science. II. 91m:81007

Tokyo ★ Foundations of quantum mechanics in the light of new technology. 91m:81004

Trieste ★ Superstrings, unified theories and cosmology 1987. 91k:81006

— ★ Superstrings '88. 91b:81004

Workshop:

Frontiers in Nonperturbative Field Theory ★ Frontiers in nonperturbative field theory.

91j:81003

High Energy Physics and Cosmology ★ Superstrings, unified theories and cosmology

1987. 91k:81006

Items with secondary classifications in 81-06

(Accardi, Luigi) *see* Quantum probability and applications, 91e:00023

(Albeverio, Sergio) *see* Stochastics, algebra and analysis in classical and quantum dynamics,

91a:00025

(Altschuler, Daniel R.) *see* Cosmology and elementary particles, 91b:83001

(Blanchard, Philippe) *see* Stochastics, algebra and analysis in classical and quantum

dynamics, 91a:00025

(Damgaard, Poul H.) *see* Stochastic quantization, 91b:81063

(Dorn, Georg) *see* Foundations of physics, 91b:81016

(Engelbrecht, Juri K.) *see* Nonlinear waves, 91e:00017

(Faiberg, V. Ya.) *see* Problems in theoretical physics and astrophysics, 91e:00013

(Francaviglia, Mauro) *see* Global geometry and mathematical physics, 91b:00028

(Gaponov-Grekhor, A. V.) *see* Nonlinear waves, 91e:00017

(Gerardelli, Francesc) *see* Global geometry and mathematical physics, 91b:00028

(Ginzburg, V. L.) *see* Problems in theoretical physics and astrophysics, 91e:00013

(Häffel, H.) *see* Stochastic quantization, 91b:81063

(Keldysh, L. V.) *see* Problems in theoretical physics and astrophysics, 91e:00013

(Lahti, Pekka J.) *see* Symposium: Foundations of Modern Physics, 91e:81005

(van der Merwe, Alwyn) *see* Between quantum and cosmos, 91b:83002

(Miller, Warner Allen) *see* Between quantum and cosmos, 91b:83002

(Mittelstaedt, Peter) *see* Symposium: Foundations of Modern Physics, 91e:81005

(Nieves, José F.) *see* Cosmology and elementary particles, 91b:83001

(Quillen, Daniel) *see* Interface of mathematics and particle physics, 91m:00033

- (Rabinovich, M. L.) *see* Nonlinear waves, 91c:00017
 (Salam, Abdus) *see* Supergravities in diverse dimensions, 91c:83053
 (Schommers, W.) *see* Quantum theory and pictures of reality, 91a:81010
 (Segal, Graeme) *see* Interface of mathematics and particle physics, 91m:00033
 (Sergin, Ergin) *see* Supergravities in diverse dimensions, 91c:83053
 (Testard, D.) *see* Stochastics, algebra and analysis in classical and quantum dynamics, 91a:00025
 (Tsou, Sheng Tsun) *see* Interface of mathematics and particle physics, 91m:00033
 (von Waldenfels, Wilhelm) *see* Quantum probability and applications, 91c:00023
 (Weingartner, Paul) *see* Foundations of physics, 91b:81016
 (Wheeler, John Archibald) *see* Between quantum and cosmos, 91b:83002
 (Zurek, Wojciech Hubert) *see* Between quantum and cosmos, 91b:83002

Items listed otherwise than by author

Between quantum and cosmos ★ Between quantum and cosmos. 91b:83002

Birthday:

Ginzburg, V. L. ★ Проблемы теоретической физики и астрофизики. (Russian) [Problems in theoretical physics and astrophysics] 91c:00013

Conference:

Interface of Mathematics and Particle Physics ★ The interface of mathematics and particle physics. 91m:00033

Congress:

Logic, Methodology and Philosophy of Science ★ Foundations of physics. 91b:81016

Cosmology and elementary particles ★ Cosmology and elementary particles. 91b:83001

Foundations of physics ★ Foundations of physics. 91b:81016

Global geometry and mathematical physics ★ Global geometry and mathematical physics. 91b:00028

Heidelberg ★ Quantum probability and applications. V. 91c:00023

Interface of mathematics and particle physics ★ The interface of mathematics and particle physics. 91m:00033

Jeensuu ★ Symposium on the Foundations of Modern Physics. 1987. 91b:81005

Lecture Notes in Mathematics ★ Global geometry and mathematical physics. 91b:00028

— ★ Quantum probability and applications. V. 91c:00023

Marseille ★ Stochastics, algebra and analysis in classical and quantum dynamics. 91a:00025

Meeting:

Mathematics and Physics ★ Stochastics, algebra and analysis in classical and quantum dynamics. 91a:00025

Montecatini Terme ★ Global geometry and mathematical physics. 91b:00028

Nonlinear waves ★ Nonlinear waves. 2. 91c:00017

Oxford ★ The interface of mathematics and particle physics. 91m:00033

Problems in theoretical physics and astrophysics ★ Проблемы теоретической физики и астрофизики. (Russian) [Problems in theoretical physics and astrophysics] 91c:00013

Quantum probability and applications ★ Quantum probability and applications. V. 91c:00023

Quantum theory and pictures of reality ★ Quantum theory and pictures of reality. 91a:81010

Rio Piedras, PR ★ Cosmology and elementary particles. 91b:83001

Salzburg ★ Foundations of physics. 91b:81016

School:

Physics ★ Cosmology and elementary particles. 91b:83001

Sessies:

Global Geometry and Mathematical Physics ★ Global geometry and mathematical physics. 91b:00028

Stochastic quantization ★ Stochastic quantization. 91b:81063

Stochastics, algebra and analysis in classical and quantum dynamics ★ Stochastics, algebra and analysis in classical and quantum dynamics. 91a:00025

Supergravities in diverse dimensions ★ Supergravities in diverse dimensions. Vol. 1, 2. 91c:83053

Symposium:

Foundations of Modern Physics ★ Symposium on the Foundations of Modern Physics. 1987. 91b:81005

Workshop:

Quantum Probability ★ Quantum probability and applications. V. 91c:00023

81-08 Computational methods

- Bisseling, R. H. *see* Leforestier, C.; et al., (Not in MR)
 Cerjan, C. *see* Leforestier, C.; et al., (Not in MR)
 De Raedt, H. *see* Huyghebaert, J., 91m:81008
 Durand, Loyal (with Gara, Alan) Matrix methods for the numerical solution of relativistic wave equations. 91g:81003
 El-Hajj, Ali *see* Kobeissi, Hafex; et al., 91b:81007
 Gara, Alan *see* Durand, Loyal, 91g:81003
 Garcia, J. D. *see* Kwong, N. H.; et al., (Not in MR)
 Huyghebaert, J. (with De Raedt, H.) Product formula methods for time-dependent Schrödinger problems. 91m:81008
 Jamieson, M. J. Numerical calculation of wavefunctions near a strongly repulsive potential. 91a:81002
 Kobeissi, Hafex (with El-Hajj, Ali; Kobeissi, Majida) On the numerical integration of the Schrödinger equation for symmetrical potentials: a highly stable shooting method with the Numerov integrator. 91b:81007
 Kobeissi, Majida *see* Kobeissi, Hafex; et al., 91b:81007
 Kwong, N. H. (with Schaudt, K. J.; Garcia, J. D.) Solution of quantum evolution equations by finite-difference. (Not in MR)
 Leforestier, C. (with Bisseling, R. H.; Cerjan, C.; et al.) A comparison of different propagation schemes for the time dependent Schrödinger equation. (Not in MR)
 Mickens, Ronald E. Novel explicit finite-difference schemes for time-dependent Schrödinger equations. 91m:81009
 van Oldenborgh, G. J. (with Vermaseren, J. A. M.) New algorithms for one-loop integrals. 91a:81003

- Rawitscher, George H. Accuracy analysis of a Bessel spectral function method for the solution of scattering equations. (Not in MR)
 Schaudt, K. J. *see* Kwong, N. H.; et al., (Not in MR)
 Suzuki, Masuo Fractal decomposition of exponential operators with applications to many-body theories and Monte Carlo simulations. 91d:81005
 Vermaseren, J. A. M. *see* van Oldenborgh, G. J., 91a:81003

Items with secondary classifications in 81-08

- Abarenov, A. V. (with Stolyarov, A. V.) The phase formalism for the one-dimensional eigenvalue problem and its relation with the quantum Bohr-Sommerfeld rule. 91f:81020
 Ahlrichs, Reinhart Numerische Methoden der Quantenchemie. [Numerical methods of quantum chemistry] (see 91k:00033)
 Amirkhanov, I. V. (with Puzynina, T. P.) ★ Численное решение прямой и обратной задач квантовой механики в рамках R-матричного подхода и Баргмановского формализма. (Russian) [Numerical solution of direct and inverse problems in quantum mechanics in the framework of the R-matrix approach and Bargmann formalism] 91e:81116
 Aubert-Frécon, M. *see* Hadinger, Gisèle; et al., 91m:81033
 Balázs, Csaba Lessons from a time-dependent model. 91k:81026
 Berne, B. J. *see* Cao, Jianshu, 91b:81069
 Billing, Gert Due *see* Jolicard, Georges, 91j:81107
 Böhm, Klaus (with Schmitt, Bernhard A.) Highly accurate solutions of the Hartree-Fock equations via defect corrections. (see 91f:65004)
 Bosveld, G. D. *see* Schellingerhout, N. W.; et al., 91e:81113
 Cao, Jianshu (with Berne, B. J.) Low-temperature variational approximation for the Feynman quantum propagator and its application to the simulation of quantum systems. 91k:81069
 Cash, J. R. (with Raptis, A. D.; Simos, T. E.) A sixth-order exponentially fitted method for the numerical solution of the radial Schrödinger equation. (Not in MR)
 Chang, Qian Shun (with Wang, Guo Bin) Multigrid and adaptive algorithm for solving the nonlinear Schrödinger equation. 91e:65145
 Comay, E. Stability problems of numerical solutions to the Lorentz-Dirac equation. (Not in MR)
 Dierksen, Geerd H. F. (with Duch, W.; Karwowski, J.) Method for locating errors in Hamiltonian matrices. 91a:81244
 Dinh Nho Hao Finite difference method for an optimal control problem of quantum processes. 91g:65157
 Duch, W. *see* Dierksen, Geerd H. F.; et al., 91a:81244
 Emrich, Rainer *see* Kleindienst, Heinz, (91m:65005)
 Fee, G. J. *see* Scott, T. C.; et al., 91b:81025 and 91f:81034
 Fleck, J. A., Jr. *see* Ratowsky, R. P., (Not in MR)
 de Frances, J. (with Sanz-Serna, J. M.) Split-step spectral schemes for nonlinear Dirac systems. 91f:81021
 Geddes, K. O. *see* Scott, T. C.; et al., 91f:81034
 Hadinger, Gerold *see* Hadinger, Gisèle; et al., 91m:81033
 Hadinger, Gisèle (with Aubert-Frécon, M.; Yanacopoulos, A.; Hadinger, Gerold) The Killingbeck-Miller method for the treatment of a hydrogenic system in a half space. 91m:81033
 Jaquet, Ralph Application of the finite element method to eigenvalue problems. I. One-dimensional calculations using optimized elements. 91f:65168
 Jolicard, Georges (with Billing, Gert Due) A new partitioning technique for the calculation of Bloch's wave operators. 91j:81107
 Karwowski, J. *see* Dierksen, Geerd H. F.; et al., 91a:81244
 Kleindienst, Heinz (with Emrich, Rainer) Minimization of the variance. A method for two-sided bounds for eigenvalues of selfadjoint operators. (see 91m:65005)
 Kok, L. P. *see* Schellingerhout, N. W.; et al., 91e:81113
 Komarov, I. V. *see* Kvitsinskii, A. A.; et al., 91a:81223
 Kouri, Donald J. *see* Sun, Yang; et al., (Not in MR)
 Kulkarni, Rekha P. (with Limaye, Balmohan V.) Solution of a Schrödinger equation by iterative refinement. 91f:65208
 Kuroda, S. T. (with Suzuki, Toshio) A time-dependent method for computing eigenfunctions and eigenvalues of Schrödinger operators. 91b:65164
 Kvitsinskii, A. A. (with Komarov, I. V.; Merkur'ev, S. P.) S-matrix singularities in scattering of charged particles on hydrogen-like targets. 91a:81223
 Labahn, George *see* Scott, T. C.; et al., 91f:81034
 Lamarche, François (with Leroy, Claude) Evaluation of the volume of intersection of a sphere with a cylinder by elliptic integrals. 91d:26016
 Leroy, Claude *see* Lamarche, François, 91d:26016
 Limaye, Balmohan V. *see* Kulkarni, Rekha P., 91f:65208
 Lin, F. J. (with Muckerman, J. T.) Solution of the time-dependent Schrödinger equation employing a basis of explicit discrete-coordinate eigenfunctions: spherical and azimuthal symmetry, adiabaticity, and multiphoton excitation of a rotating Morse oscillator. 91m:81332
 Lobanov, Yu. Yu. (with Shakhbagan, R. R.; Sidorova, O. V.; Zhidkov, E. P.) Computation of conditional Wiener integrals by the composite approximation formulas with weight. 91j:65045
 Merkur'ev, S. P. *see* Kvitsinskii, A. A.; et al., 91a:81223 and Vinit'skii, S. L.; et al., 91i:81101
 Monagan, M. B. *see* Scott, T. C.; et al., 91b:81025 and 91f:81034
 Moore, R. A. *see* Scott, T. C.; et al., 91b:81025 and 91f:81034
 Muckerman, J. T. *see* Lin, F. J., 91m:81332
 Peskin, Charles S. *see* Schlick, Tamar, 91e:81124
 Popescu, I. M. *see* Popescu, V. A., 91k:81031
 Popescu, V. A. (with Popescu, I. M.) Improvement of the convergence of the exponential perturbation theory in the Schrödinger representation by dividing the time interval. (French summary) 91k:81031
 Puzynina, I. V. *see* Vinit'skii, S. L.; et al., 91i:81101
 Puzynina, T. P. *see* Amirkhanov, I. V., 91e:81116
 Raptis, A. D. *see* Cash, J. R.; et al., (Not in MR)
 Ratowsky, R. P. (with Fleck, J. A., Jr.) Treatment of angular derivatives in the Schrödinger equation by the finite Fourier series method. (Not in MR)

- Ringhofer, Christian A spectral method for the numerical simulation of quantum tunneling phenomena. 91c:5874
- Sanz-Serna, J. M. *see de Frutos, J.*, 91f:81021
- Schellinghout, N. W. (with Kok, L. P.; Bosveld, G. D.) Configuration-space Faddeev calculations: supercomputer accuracy on a personal computer. 91e:81113
- Schlick, Tamar (with Peakin, Charles S.) Can classical equations simulate quantum-mechanical behavior? A molecular dynamics investigation of a diatomic molecule with a Morse potential. 91e:81124
- Schmitt, Bernhard A. *see Böhmer, Klaus*, (91f:65004)
- Schwenke, David W. *see Sun, Yan; et al.*, (Not in MR)
- Scott, T. C. (with Moore, R. A.; Fee, G. J.; Monagan, M. B.; Labahn, George; Geddes, K. O.) Perturbative solutions of quantum mechanical problems by symbolic computation: a review. 91f:81034
- (with Moore, R. A.; Monagan, M. B.; Fee, G. J.; Vrsay, Edward R.) Perturbative solutions of quantum mechanical problems by symbolic computation. 91b:81025
- Shakhbazyan, R. R. *see Lobanov, Yu. Yu.; et al.*, 91j:65045
- Sidorova, O. V. *see Lobanov, Yu. Yu.; et al.*, 91j:65045
- Simos, T. E. *see Cash, J. R.; et al.*, (Not in MR)
- Stolyarov, A. V. *see Aharenov, A. V.*, 91f:81020
- Sun, Yan (with Kouri, Donald J.; Schwenke, David W.; Truhlar, Donald G.) Time-dependent wavepacket algorithm for inelastic molecule-molecule scattering. (Not in MR)
- Suslov, V. M. *see Vinitskii, S. I.; et al.*, 91f:81101
- Suzuki, Toshio *see Kuroda, S. T.*, 91b:65164
- Truhlar, Donald G. *see Sun, Yan; et al.*, (Not in MR)
- Vinitskii, S. I. (with Merkur'ev, S. P.; Puzynin, I. V.; Suslov, V. M.) Matrix structure of the Faddeev equations in the coordinate space. 91f:81101
- Vrsay, Edward R. *see Scott, T. C.; et al.*, 91b:81025
- Wang, Guo Bin *see Chang, Qian Shun*, 91e:65145
- Yanacopoulos, A. *see Hadinger, Gisèle; et al.*, 91m:81033
- Zhidkov, E. P. *see Lobanov, Yu. Yu.; et al.*, 91j:65045

81Bxx Axiomatics, foundations, philosophy (1985)

Items with secondary classifications in 81Bxx

Schommers, W. Evolution of quantum theory. (see 91a:81010)

81B05 General (1985)

- Bohm, David Joseph An ontological foundation for the quantum theory. (see 91i:81005)
- Busch, Paul Unsharp reality and the question of quantum systems. (see 91i:81005)
- Costa de Beauregard, O. Einstein-Podolsky-Rosen correlations: their Lorentz- and CPT-invariance. (see 91b:81016)
- Dieks, Dennis A quantum mechanical twin paradox. (Not in MR)
- Eberhard, P. H. The EPR paradox. Roots and ramifications. (see 91a:81010)
- A realistic model for quantum theory with a locality property. (see 91a:81010)
- d'Espagnat, Bernard Veiled reality. (see 91i:81005)
- Nonseparability and the tentative descriptions of reality. (see 91a:81010)
- Forster, Malcolm R. Bell's paradox and path analysis. (see 91b:81016)
- Khalifa, L. A. (with Tsirel'son, B. S.) A quantitative criterion of the applicability of the classical description within the quantum theory. (see 91i:81005)
- Lahti, Pekka J. Complementarity, uncertainty and the Popperian concept of the growth of scientific knowledge. (see 91b:81016)
- Complementarity and uncertainty: some measurement-theoretical and information-theoretical aspects. (see 91i:81005)
- Mittelstaedt, Peter (with Prieur, A.; Schieder, R.) Unsharp joint measurement of complementary observables in a photon split beam experiment. (see 91i:81005)
- de Muynck, Willem M. Is Bohm's theory a nonlocal hidden variables theory? (see 91i:81005)
- Namiki, Mikio (with Ohba, Ichiro) Many-Hilbert-spaces theory of quantum measurements. (see 91i:81005)
- Ohba, Ichiro *see Namiki, Mikio*, (91i:81005)
- Prieur, A. *see Mittelstaedt, Peter; et al.*, (91i:81005)
- Primas, Hans Contextual quantum objects and their ontic interpretation. (see 91i:81005)
- Prugovečki, Eduard On geometro-stochastic theory of measurement and quantum geometry. (Not in MR)
- Schieder, R. *see Mittelstaedt, Peter; et al.*, (91i:81005)
- Schommers, W. Space-time and quantum phenomena. (see 91a:81010)
- Scutaru, Horia Uncertainty relations for wavefunctions. (Not in MR)
- Selleri, Franco Wave-particle duality: recent proposals for the detection of empty waves. (see 91a:81010)
- Tsirel'son, B. S. *see Khalifa, L. A.*, (91i:81005)
- Werner, Reinhard F. Inequalities expressing the Pauli principle for generalized observables. (see 91a:82001)
- Ylinea, Karl Position and momentum as spectral measures on locally compact abelian groups. (see 91i:81005)
- Items with secondary classifications in 81B05
- Christiansen, Peder Voetmann Context and nonlocality—a Peircean approach. (see 91i:81005)
- (Peirce, Charles S.) *see Christiansen, Peder Voetmann*, (91i:81005)
- Popper, Karl R. Realism and a proposal for a simplified new variant of the EPR-experiment. (see 91b:81016)

81B10 Logical foundations of quantum mechanics (1985)

- Christiansen, Peder Voetmann Context and nonlocality—a Peircean approach. (see 91i:81005)
- Gibbins, P. F. Quantum logics in the Gentzen style. (see 91b:81016)
- Mittelstaedt, Peter Naming and identity in quantum logic. (see 91b:81016)

- Language and reality in quantum physics. (see 91i:81005)
- Niiniluoto, Ilkka Varieties of realism. (see 91i:81005)
- (Peirce, Charles S.) *see Christiansen, Peder Voetmann*, (91i:81005)
- Scheibe, Erhard What kind of hidden variables are excluded by Bell's inequality? (see 91b:81016)
- Stachow, E.-W. Application of relativistic quantum language to the EPR-Gedankenexperiment. (see 91b:81016)

Items with secondary classifications in 81B10

- Eberhard, P. H. The EPR paradox. Roots and ramifications. (see 91a:81010)
- d'Espagnat, Bernard Nonseparability and the tentative descriptions of reality. (see 91a:81010)
- de Muynck, Willem M. Is Bohm's theory a nonlocal hidden variables theory? (see 91i:81005)
- Primas, Hans Contextual quantum objects and their ontic interpretation. (see 91i:81005)
- Selleri, Franco Wave-particle duality: recent proposals for the detection of empty waves. (see 91a:81010)

81B99 None of the above, but in this section (1985)

- Bernath, M. *see Traiber, A. J. S.; et al.*, (Not in MR)
- Fendrik, A. J. *see Traiber, A. J. S.; et al.*, (Not in MR)
- Finkelstein, David Finite physics. (see 91b:83004)
- Grahowski, Marian Mathematical aspects of the uncertainty relation connected with its physical interpretation—review. (see 91i:81005)
- Stöckler, Manfred Raum-Zeit-Strukturen in der Quantenfeldtheorie. [Space-time structures in quantum field theory] (see 91e:80025)
- Traiber, A. J. S. (with Fendrik, A. J.; Bernath, M.) The rotating elliptic billiard and a signature of quantum chaos. (Not in MR)

Items with secondary classifications in 81B99

- Mülicke, Jan P. Zur Beziehung von statistischer Mechanik und Mach-Einstein-Doktrin. (English summary) [On the relation between statistical mechanics and Mach-Einstein doctrine] (see 91i:83002)

81Cxx General mathematical topics and methods in quantum mechanics (1985)

81C05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations (1985)

- Arteca, Gustavo A. *see Fernández, Francisco M.; et al.*, (Not in MR)
- Castro, Eduardo A. *see Fernández, Francisco M.; et al.*, (Not in MR)
- Fernández, Francisco M. (with Castro, Eduardo A.; Arteca, Gustavo A.) Another version of the operator and scaling-variational methods. (Arabic summary) (Not in MR)

Items with secondary classifications in 81C05

- Chepik, V. I. Conditional invariance of the Schrödinger equation with a real nonlinearity. (Russian) (see 91b:80038)
- Shuf'ga, M. V. Approximate scale symmetry of a nonlinear Schrödinger equation. (Russian) (see 91e:80008)

81C20 Probabilistic methods in quantum mechanics, including stochastic electrodynamics (1985)

- Streit, Ludwig White noise analysis and quantum field theory. (see 91e:80022)

Items with secondary classifications in 81C20

- Prugovečki, Eduard On geometro-stochastic theory of measurement and quantum geometry. (Not in MR)

81C35 Path integrals [see also 28C20, 58D30] (1985)

Items with secondary classifications in 81C35

- de Alfaro, Vittorio (with Gavazzi, Giuliano M.) Point canonical transformations in the path integral formulation of supersymmetric quantum mechanics. (Not in MR)
- Gavazzi, Giuliano M. *see de Alfaro, Vittorio*, (Not in MR)
- Weinberg, Steven Covariant path-integral approach to string theory. (see 91i:81003)

81C40 General group representations motivated by physics but not covered by Section 81Gxx below; representations of concrete classical groups such as $SL(n, C)$, $U(p, q)$, etc. [see also 20C35, 22E70] (1985)

Items with secondary classifications in 81C40

- Torres del Castillo, G. F. An introduction to spin-weighted spherical harmonics. (Spanish. English summary) (Not in MR)

81C99 None of the above, but in this section (1985)

- de Alfaro, Vittorio (with Gavazzi, Giuliano M.) Point canonical transformations in the path integral formulation of supersymmetric quantum mechanics. (Not in MR)
- Gavazzi, Giuliano M. *see de Alfaro, Vittorio*, (Not in MR)
- Peres, Asher Quantum chaos and irreversibility. (see 91i:81005)

- Shchelkacheva, T. I. *see* Tareeva, E. E., (Not in MR)
 Shepelyanskii, D. L. Quantum localization of dynamic chaos. (*see* 91e:00017)
 Tareeva, E. E. (with Shchelkacheva, T. I.) Exact solution of one-dimensional model with reduced quadrupole interaction. (Not in MR)

81Dxx General quantum mechanics (1985)

81D07 Quantization (1985)

- Zaikov, R. P. BRST quantization and computation of static potentials for bosonic membranes. (Not in MR)

Items with secondary classifications in 81D07

- Băleanu, D. *see* Ta Taru, O. L., (Not in MR)
 Ta Taru, O. L. (with Băleanu, D.) Quantization of systems with local reducible symmetries. (Romanian. English summary) (Not in MR)

81D15 Current algebra (1985)

Items with secondary classifications in 81D15

- Fok, V. V. (with Kogan, Ya. I.) Generating function for 2d WZW model correlators and the Sugawara construction from the 2 + 1 Chern-Simons theory. (Not in MR)
 Kogan, Ya. I. *see* Fok, V. V., (Not in MR)

81D20 Broken symmetries (1985)

- Giddings, Steven B. (with Wilczek, Frank) Spontaneous fact violation. (Not in MR)
 Wilczek, Frank *see* Giddings, Steven B., (Not in MR)

81Exx Quantum field theory (1985)

81E08 Constructive quantum field theory (1985)

Items with secondary classifications in 81E08

- Streit, Ludwig White noise analysis and quantum field theory. (*see* 91e:00022)

81E13 Yang-Mills and other gauge theories (classical and quantum aspects) (1985)

- Abouelsaad, A. (with Pope, C. N.; Sergin, Ergin; Shen, Xiang) Gauged sigma models from 2 + 1 dimensions and the issue of unitarity. (Not in MR)
 Băleanu, D. *see* Ta Taru, O. L., (Not in MR)
 Fok, V. V. (with Kogan, Ya. I.) Generating function for 2d WZW model correlators and the Sugawara construction from the 2 + 1 Chern-Simons theory. (Not in MR)
 Kogan, Ya. I. *see* Fok, V. V., (Not in MR)
 McKee, D. G. C. (with Samant, Sanjiv Singh; Sherry, T. N.) Operator regularization and the component Wess-Zumino model. (Not in MR)
 Nikolaeva, Lora (with Rizov, V. A.) A generalization of gauge coupling constants to gauge coupling fields. (Not in MR)
 Pope, C. N. *see* Abouelsaad, A.; et al., (Not in MR)
 Rizov, V. A. *see* Nikolaeva, Lora, (Not in MR)
 Samant, Sanjiv Singh *see* McKee, D. G. C.; et al., (Not in MR)
 Sergin, Ergin *see* Abouelsaad, A.; et al., (Not in MR)
 Shen, Xiang *see* Abouelsaad, A.; et al., (Not in MR)
 Sherry, T. N. *see* McKee, D. G. C.; et al., (Not in MR)
 Ta Taru, O. L. (with Băleanu, D.) Quantization of systems with local reducible symmetries. (Romanian. English summary) (Not in MR)

Items with secondary classifications in 81E13

- Noriega, Ricardo J. (with Schifini, Claudio G.) On the curvature form and the gauge potentials in gauge field theories. (Not in MR)
 Schifini, Claudio G. *see* Noriega, Ricardo J., (Not in MR)

81E15 Renormalization theory (including perturbative, nonperturbative and renormalization group methods) (1985)

- Chen, Wei (with Semenoff, Gordon W.; Wu, Yong Shi¹) Probing topological features in perturbative Chern-Simons gauge theory. (Not in MR)
 Elizalde, E. (with Romeo, A.) On the one-loop Ward identity for the gluon self-energy. (Not in MR)
 Lazzarini, S. (with Stora, R.) Ward identities for conformal models. (*see* 91a:00025)
 Romeo, A. *see* Elizalde, E., (Not in MR)
 Semenoff, Gordon W. *see* Chen, Wei; et al., (Not in MR)
 Stora, R. *see* Lazzarini, S., (91a:00025)
 Wu, Yong Shi¹ *see* Chen, Wei; et al., (Not in MR)

Items with secondary classifications in 81E15

- McKee, D. G. C. (with Samant, Sanjiv Singh; Sherry, T. N.) Operator regularization and the component Wess-Zumino model. (Not in MR)
 Samant, Sanjiv Singh *see* McKee, D. G. C.; et al., (Not in MR)
 Sherry, T. N. *see* McKee, D. G. C.; et al., (Not in MR)

81E20 Field theory on curved space backgrounds [see also 83C47] (1985)

- von Borzeszkowski, Horst-Heino On ultraviolet divergences of quantum fields in curved space-time. (Not in MR)
 Roy, Pinaki (with Roychoudhury, Rajkumar; Sengupta, Manasi) Corrigendum: "Gaussian approach to finite temperature $\lambda\phi^4$ theory in a curved space" [Classical Quantum Gravity 6 (1989), no. 12, 2037-2043; MR 90j:81155]. (Not in MR)
 Roychoudhury, Rajkumar *see* Roy, Pinaki; et al., (Not in MR)
 Sengupta, Manasi *see* Roy, Pinaki; et al., (Not in MR)
 Witten, Edward Some lectures on physics in ten dimensions. (*see* 91i:81003)
 Items with secondary classifications in 81E20
 Dehnen, H. (with Ghaboussi, F.; Schröder, J.) Gravitational interaction by the Higgs-field. (Not in MR)
 Ghaboussi, F. *see* Dehnen, H.; et al., (Not in MR)
 Müller, Volker Zum Einfluß von Vakuumpolarisation und nicht-minimaler Kopplung auf die kosmologische Entwicklung. (English summary) [On the influence of vacuum polarization and nonminimal coupling on the cosmological evolution] (*see* 91i:83002)
 Schröder, J. *see* Dehnen, H.; et al., (Not in MR)

81E25 Lattice theories (1985)

- Lüscher, Martin Selected topics in lattice field theory. (*see* 91b:81003)

Items with secondary classifications in 81E25

- Kazakov, Vladimir Aleksandrovich¹ Exactly solvable models of 2D-quantum gravity on the lattice. (*see* 91b:81003)

81E30 String and superstring theories (use only for secondary classification) (1985)

Items with secondary classifications in 81E30

- Ananthanarayan, B. Flux-breaking of second E_8 in three-generation superstring models. (Not in MR)
 Fradkin, E. S. (with Tseytlin, A. A.) String theory and effective field-theoretic action. (Russian) (*see* 91f:00013)
 Green, Michael B. Introduction to string and superstring theory. (*see* 91i:81003)
 Morozov, A. Yu. String theory and fundamental interactions. (Russian) (Not in MR)
 Seiberg, Nathan Low-energy superstring phenomenology. (*see* 91i:81003)
 Sen, Ashoke Open string field theory in a nontrivial background field. III. n -point amplitude. (Not in MR)
 Solodukhin, S. N. (with Tentyukov, M. N.) ★ Квантовая бозонная струна с динамической геометрией. (Russian) [A quantum boson string with dynamical geometry] (Not in MR)
 Tentyukov, M. N. *see* Solodukhin, S. N., (Not in MR)
 Tseytlin, A. A. *see* Fradkin, E. S., (91f:00013)
 Weinberg, Steven Covariant path-integral approach to string theory. (*see* 91i:81003)
 Witten, Edward The index of the Dirac operator in loop space. (*see* 91a:57021)
 Zaikov, R. P. BRST quantization and computation of static potentials for bosonic membranes. (Not in MR)

81E40 Two-dimensional field theories, conformal field theories, and other model field theories (use only for secondary classification) (1985)

Items with secondary classifications in 81E40

- (Barber, Michael N.) *see* Proceedings: Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory, (Not in MR)
 Fok, V. V. (with Kogan, Ya. I.) Generating function for 2d WZW model correlators and the Sugawara construction from the 2 + 1 Chern-Simons theory. (Not in MR)
 Kogan, Ya. I. *see* Fok, V. V., (Not in MR)
 Lazzarini, S. (with Stora, R.) Ward identities for conformal models. (*see* 91a:00025)
 Pearce, Paul A. *see* Proceedings: Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory, (Not in MR)
 Stora, R. *see* Lazzarini, S., (91a:00025)

Items listed otherwise than by author

- Canberra ★ Proceedings of the Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory. (Not in MR)

Conference: Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory ★ Proceedings of the Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory. (Not in MR)

Proceedings: Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory ★ Proceedings of the Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory. (Not in MR)

81E99 None of the above, but in this section (1985)

- Ananthanarayan, B. Flux-breaking of second E_8 in three-generation superstring models. (Not in MR)
 Fradkin, E. S. (with Tseytlin, A. A.) String theory and effective field-theoretic action. (Russian) (*see* 91f:00013)
 Frampton, Paul H. (with Nishino, Hitoshi) Stability analysis of p -adic string solitons. (Not in MR)

- Green, Michael B. Introduction to string and superstring theory. (see 91i:81003)
 Morozov, A. Ya. String theory and fundamental interactions. (Russian) (Not in MR)
 Nishino, Hitoshi. *see* Frampton, Paul H., (Not in MR)
 Sen, Ashoke. Open string field theory in a nontrivial background field. III. n -point amplitude. (Not in MR)
 Solodukhin, S. N. (with Tentyukov, M. N.) ★ Квантовая бозонная струна с динамической геометрией. (Russian) [A quantum boson string with dynamical geometry] (Not in MR)
 Tentyukov, M. N. *see* Solodukhin, S. N., (Not in MR)
 Tseytlin, A. A. *see* Fradkin, E. S., (91f:00013)
 Weinberg, Steven. Covariant path-integral approach to string theory. (see 91i:81003)

Items with secondary classifications in 81E99

- Albertin, Uwe K. (with Cleveland, Michael G.; Pritchett, Tim M.) The Luttinger model, Thirring strings, and enhanced internal symmetries. (Not in MR)
 Cleveland, Michael G. *see* Albertin, Uwe K.; et al., (Not in MR)
 Fursaev, D. V. ★ $N = 1$ суперсимметричная формулировка теории поля с фундаментальной массой. (Russian) [$N = 1$ supersymmetric formulation of field theory with fundamental mass] (Not in MR)
 Giddings, Steven B. (with Wilczek, Frank) Spontaneous fact violation. (Not in MR)
 Pritchett, Tim M. *see* Albertin, Uwe K.; et al., (Not in MR)
 Stückler, Manfred. Raum-Zeit-Strukturen in der Quantenfeldtheorie. [Space-time structures in quantum field theory] (see 91e:00025)
 Wilczek, Frank. *see* Giddings, Steven B., (Not in MR)

81Gxx Particle physics (1985)(this covers all kinds of particles and interactions)

81G10 Electromagnetic interaction (1985)

- Pokhvalitov, O. V. *see* Vlasov, P. A., (91b:00029)
 Vlasov, P. A. (with Pokhvalitov, O. V.) Solution of the Stueckelberg equation for a particle with p -noninvariant interaction that moves in the field of a plane electromagnetic wave. (Russian) (see 91b:00029)

81G20 Application of group theory to elementary particles, including grand unification and supersymmetry {For supergravity, see 83E50.} (1985)

- Barut, Asim O. On the physical applications of indecomposable representations. (see 91b:22002)
 Selberg, Nathan. Low-energy superstring phenomenology. (see 91i:81003)

81G25 Other elementary particle theory (1985)

- Dehnen, H. (with Ghaboussi, F.; Schröder, J.) Gravitational interaction by the Higgs-field. (Not in MR)
 Feynman, Richard Phillips. The reason for antiparticles. (Bulgarian) (Not in MR)
 Fursaev, D. V. ★ $N = 1$ суперсимметричная формулировка теории поля с фундаментальной массой. (Russian) [$N = 1$ supersymmetric formulation of field theory with fundamental mass] (Not in MR)
 Ghaboussi, F. *see* Dehnen, H.; et al., (Not in MR)
 Miroshnik, A. O. *see* Vladimirov, Yu. S.; et al., (Not in MR)
 Mishakov, A. V. *see* Vladimirov, Yu. S.; et al., (Not in MR)
 Schröder, J. *see* Dehnen, H.; et al., (Not in MR)
 (Vachov, D.) *see* Feynman, Richard Phillips, (Not in MR)
 Vladimirov, Yu. S. (with Miroshnik, A. O.; Mishakov, A. V.) Multi-dimensional models of physical interactions. (German summary) (Not in MR)

81G55 Other molecular physics (1985)

- Böhmer, Klaus (with Schmitt, Bernhard A.) Highly accurate solutions of the Hartree-Fock equations via defect corrections. (see 91f:65004)
 Schmitt, Bernhard A. *see* Böhmer, Klaus, (91f:65004)

81Hxx Quantum mechanics of many-body systems (1985)

81H20 Solid state band theory (1985)

Items with secondary classifications in 81H20

- Albertin, Uwe K. (with Cleveland, Michael G.; Pritchett, Tim M.) The Luttinger model, Thirring strings, and enhanced internal symmetries. (Not in MR)
 Cleveland, Michael G. *see* Albertin, Uwe K.; et al., (Not in MR)
 Pritchett, Tim M. *see* Albertin, Uwe K.; et al., (Not in MR)

81K05 Quantum optics (1985)

- Chmielewski, W. *see* Kadantseva, E. P.; et al., (Not in MR)
 Kadantseva, E. P. (with Chmielewski, W.; Shumovskii, A. S.) Dynamics in Dicke model. (Not in MR)
 Shumovskii, A. S. *see* Kadantseva, E. P.; et al., (Not in MR)
 Srinivasan, S. K. Squeezing of light within the framework of the population theoretic approach. (Not in MR)

Items with secondary classifications in 81K05

- Arecchi, F. T. Instabilities and chaos in lasers: introduction to hyperchaos. (see 91e:82002)
 Gou, San Kui. Erratum: "Exact analysis of the spherical Raman-Nath equations" [J. Phys. A 22 (1989), no. 14, 2653-2657; MR 90c:39005]. (Not in MR)
 Nachtergaele, B. The mathematical structure of spin-boson models. (see 91a:82001)

81L05 Quantum electrodynamics (1985)

- Barut, Asim O. (with Ünal, Nuri) Regularized analytic evaluation of vacuum polarization in a Coulomb field. (Not in MR)
 Gökeler, M. (with Horsley, R.; Laermann, E.; Rakow, P.; Schierholz, G.; Sommer, R.; Wiese, U.-J.) QED—a lattice investigation of the chiral phase transition and the nature of the continuum limit. (Not in MR)
 Horsley, R. *see* Gökeler, M.; et al., (Not in MR)
 Laermann, E. *see* Gökeler, M.; et al., (Not in MR)
 Rakow, P. *see* Gökeler, M.; et al., (Not in MR)
 Schierholz, G. *see* Gökeler, M.; et al., (Not in MR)
 Sommer, R. *see* Gökeler, M.; et al., (Not in MR)
 Ünal, Nuri. *see* Barut, Asim O., (Not in MR)
 Wiese, U.-J. *see* Gökeler, M.; et al., (Not in MR)

81M05 Relativistic theory (1985)

Items with secondary classifications in 81M05

- Eberhard, P. H. A realistic model for quantum theory with a locality property. (see 91a:81010)

81Pxx Axiomatics, foundations, philosophy

- (Bohr, Niels) *see* Honner, John, (Not in MR)
 Healey, Richard ★ The philosophy of quantum mechanics. 91m:81010
 Honner, John ★ The description of nature. (Not in MR)
 Hughes, R. I. G. ★ The structure and interpretation of quantum mechanics. 91f:81005
 (Lahti, Pekka J.) *see* Symposium: Foundations of Modern Physics, 91i:81005
 (Mittelstaedt, Peter) *see* Symposium: Foundations of Modern Physics, 91i:81005

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- Jeans, J. ★ Symposium on the Foundations of Modern Physics. 1987. 91i:81005
 Symposium: Foundations of Modern Physics ★ Symposium on the Foundations of Modern Physics. 1987. 91i:81005

81P05 General and philosophical

- Almeida, D. F. *see* Sharma, C. S., 91a:81007
 Bach, Alexander. Eine Fehlinterpretation mit Folgen: Albert Einstein und der Welle-Teilchen Dualismus. [An erroneous interpretation with consequences: Albert Einstein and the wave-particle duality] 91b:81005
 Barut, Asim O. Three lectures on the foundations of quantum theory and quantum electrodynamics. (see 91m:82002)
 — Quantum theory of single events: localized de Broglie wavelets, Schrödinger waves, and classical trajectories. 91k:81008
 van den Berg, Hans (with Hockema, Dick; Radder, Hans) Discussion: Accordi on quantum theory and the "fifth axiom" of probability. 91a:81004
 Bertlmann, R. A. Bell's theorem and the nature of reality. (Not in MR)
 Bohm, David Joseph (with Hiley, B. J.) On the relativistic invariance of a quantum theory based on beables. (Not in MR)
 Boya, Luis J. State space as projective space. The case of massless particles. 91b:81006
 Brody, T. A. The Suppes-Zanotti theorem and the Bell inequalities. (Spanish summary) 91b:81007
 Butterfield, Jeremy N. *see* Clifton, Robert K.; et al., 91c:81001 and Stapp, Henry P., 91c:81002
 Catlin, Donald E. The Schrödinger equation via an operator functional equation. 91f:81006
 Clifton, Robert K. Determinism, realism, and Stapp's 1985 proof of nonlocality. 91b:81008
 — The Rastall model and Stapp's proof of nonlocality. 91f:81007
 — (with Butterfield, Jeremy N.; Redhead, Michael L. G.) Nonlocal influences and possible worlds—a Stapp in the wrong direction. 91c:81001
 — *see also* Stapp, Henry P., 91c:81002 and 91f:81008
 Costantini, D. (with Garibaldi, U.) A unified theory for elementary-particle statistics. 91d:81006
 Czachor, Marek. Mackinnon's soliton reexamined. 91f:81009
 Daniel, Wojciech. Axiomatic description of irreversible and reversible evolution of a physical system. 91b:81009
 Dieks, Dennis. Resolution of the measurement problem through decoherence of the quantum state. 91k:81009
 (Einstein, Albert) *see* Bach, Alexander, 91b:81005
 Elby, Andrew. On the physical interpretation of Heywood and Redhead's algebraic impossibility theorem. 91c:81003
 d'Espagnat, Bernard. Are there realistically interpretable local theories? 91b:81010
 — Towards a separable "empirical reality"? (Not in MR)
 (Fellows, Frederick) *see* Clifton, Robert K., 91b:81008
 Garbaczewski, Piotr. Remarks on the theory of the Stern-Gerlach experiment. 91a:81005
 Garibaldi, U. *see* Costantini, D., 91d:81006
 Garrett, A. J. M. Bell's theorem, inference, and quantum transactions. 91c:81003
 Garuccio, Augusto (with Gutkowski, D.) Comparison between local Kolmogorovian models and Bell's inequality. 91b:81011
 — (with Lepore, V. L.; Selleri, Franco) Probabilities for correlated systems. 91m:81011
 Grubińska, T. The indistinguishability and the Heisenberg relation. 91f:81010

- Gudder, Stanley Quantum probability and operational statistics. 91i:81006
- Gutkowski, D. *see* Garuccio, Augusto, 91b:81011
- Hag, Rudolf Fundamental irreversibility and the concept of events. 91j:81006
- Heathcote, Adrian Unbounded operators and the incompleteness of quantum mechanics. 91m:81012
- Hemion, Geoffrey Quantum mechanics in a discrete model of classical physics. 91m:81013
- Hiley, B. J. *see* Bohm, David Joseph, (Not in MR)
- Hillo, Alejandro A. Hidden variables with directionalization. (Not in MR)
- Hockema, Dick *see* van den Berg, Hans; et al., 91a:81004
- Ishikawa, Shiro Uncertainties and an interpretation of nonrelativistic quantum theory. 91m:81014
- Kent, Adrian Against many-worlds interpretations. 91b:81012
- Klappell, M. (with Neumann, Holger) The space-time structure of quantum systems in external fields. 91a:81006
- Kosholeva, O. M. *see* Kreinovich, V. Ya.; et al., 91m:81015
- Kreinovich, V. Ya. (with Vazquez, Alejandro; Kosholeva, O. M.) Prediction problem in quantum mechanics is intractable (NP-hard). 91m:81015
- Lahli, Pekka J. Quantum theory of measurement and the polar decomposition of an interaction. 91i:81007
- Lepore, V. L. *see* Garuccio, Augusto; et al., 91m:81011
- Ladwig, Günther Concepts of states in physics. 91g:81004
- Maki, Ziro Probabilistic interpretation and the quantum theory of measurement. II. 91f:81011
- Martinez, Sergio A search for the physical content of Luder's rule. 91i:81008
- Mielnik, Bogdan The paradox of two bottles in quantum mechanics. 91k:81010
- Neumann, Holger *see* Klappell, M., 91a:81006
- Omnes, Roland From Hilbert space to common sense: a synthesis of recent progress in the interpretation of quantum mechanics. 91j:81007
- Park, James L. Quantum assembly semantics: the fallacious lingo of occupation numbers. (Not in MR)
- Parthasarathy, Kalyanaswaram Rangachari A remark on spin correlations. 91h:81006
- Polsharov, I. V. \star Continuous representation for spin $\frac{1}{2}$, quantum probability theory and Bell paradox. 91g:81005
- Radder, Hans *see* van den Berg, Hans; et al., 91a:81004
- Redhead, Michael L. G. *see* Clifton, Robert K.; et al., 91c:81001 and Stapp, Henry P., 91c:81002
- Santos, Emilio Interpretation of the quantum formalism and Bell's theorem. (Not in MR)
- Sanz, Angel L. Particular example of the behaviour of Feynman-like stochastic paths considered as real space-time physical random motions in the causal stochastic interpretation of quantum mechanics. 91f:81012
- Schommers, W. *see* Quantum theory and pictures of reality, 91a:81010
- Selleri, Franco *see* Garuccio, Augusto; et al., 91m:81011
- Sharma, C. S. (with Almeida, D. F.) A direct proof of Wigner's theorem on maps which preserve transition probabilities between pure states of quantum systems. 91a:81007
- Sibellus, Patrick An interpretation within philosophy of the relationship between classical mechanics and quantum mechanics. 91b:81013
- Squires, Euan J. On an alleged "proof" of the quantum probability law. 91a:81008
- Stapp, Henry P. Comment on: "The Rastall model and Stapp's proof of nonlocality" [Found. Phys. Lett. 2 (1989), no. 6, 531-547; MR 91f:81007] by R. K. Clifton. 91f:81008
- Comments on: "Nonlocal influences and possible worlds—a Stapp in the wrong direction" [British J. Philos. Sci. 41 (1990), no. 1, 5-58; MR 91c:81001] by R. K. Clifton, J. N. Butterfield and M. L. G. Redhead. 91c:81002
- *see also* Clifton, Robert K., 91b:81008 and 91c:81001
- Stuart, C. I. J. M. Inconsistency of the Copenhagen interpretation. (Not in MR)
- Tizsa, László Integration of classical and quantum physics. 91a:81009
- Vazquez, Alejandro *see* Kreinovich, V. Ya.; et al., 91m:81015
- Wheeler, John Archibald Information, physics, quantum: the search for links. (*see* 91m:81004)
- Wilks, Alexander Tensor product of frame manuals. 91g:81006
- Yoshimura, Jia² The announcement: the solution for the measurement problem in quantum mechanics. 91c:81004
- Youssef, Saal A reformulation of quantum mechanics. 91m:81016
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- Quantum theory and pictures of reality \star Quantum theory and pictures of reality. 91a:81010
- Items with secondary classifications in 81P05
- Barut, Asim O. *E = A\omega*. 91b:81021
- Ben-Menahem, Yemima Struggling with causality: Schrödinger's case. 91i:81040
- Braunstein, Samuel L. (with Caves, Carlton M.) Wringing out better Bell inequalities. (*see* 91m:81004)
- (Brown, Harvey R.) *see* Philosophical foundations of quantum field theory, 91e:81001
- Burszyski, Andrzej Probabilistic structure of quantum theory. 91d:81001
- Caves, Carlton M. *see* Braunstein, Samuel L., (91m:81004)
- Cianchi, L. *see* Moretti, P., 91c:81046
- Doebner, H.-D. (with Heidenreich, Wolfgang) Indecomposable representations in de Sitter spacetime. 91m:81077
- Donald, Matthew J. Quantum theory and the brain. 91d:82041
- Esquivel, José Leopoldo (with Vilchez, María Eugenia) Comments on Newtonian mechanics. (Spanish. English summary) 91e:70009
- (Enawa, Hiroshi) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- Gell-Mann, Murray (with Hartle, James B.) Quantum mechanics in the light of quantum cosmology. (*see* 91m:81004)
- Grinbaum, F. Alberto Trying to beat Heisenberg. 91k:78002
- Gurvitz, S. A. (with Marinov, Michael) Quantum interference effect in decay rate of metastable systems. 91h:81043
- (Harré, Rom) *see* Philosophical foundations of quantum field theory, 91e:81001
- Hartle, James B. *see* Gell-Mann, Murray, (91m:81004)
- Heidenreich, Wolfgang *see* Doebner, H.-D., 91m:81077

- Jaynes, E. T. Predictive statistical mechanics. (*see* 91m:82002)
- Jordan, Thomas F. Probing Weinberg's nonlinear quantum mechanics. (Not in MR)
- (Kobayashi, Shun-ichi) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- Marinov, Michael *see* Gurvitz, S. A., 91h:81043
- Meessen, August Is it logically possible to generalize physics through space-time quantization? (*see* 91f:00018)
- Moretti, P. (with Cianchi, L.) Feynman's approach to quantum mechanics: trajectories, commutation relations and uncertainty principle. (Italian and Russian summaries) 91c:81046
- (Murray, Yoshimasa) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- (Nomura, Sadao) *see* Foundations of quantum mechanics in the light of new technology, 91m:81004
- Polchinski, Joseph Weinberg's nonlinear quantum mechanics and the Einstein-Podolsky-Rosen paradox. 91k:81024
- Prugovečki, Eduard Geometro-stochastic locality in quantum spacetime and quantum diffusions. 91m:81110
- Salmistraro, F. Quantum evolution and invariant subspaces. (Italian and Russian summaries) 91j:81025
- (Schrödinger, Erwin) *see* Ben-Menahem, Yemima, 91i:81049
- Sibellus, Patrick Natural contradictions and the concept of action in mechanics. 91d:70001
- Vigier, Jean-Pierre Real physical paths in quantum mechanics. Equivalence of the Einstein-de Broglie and Feynman points of views on quantum particle behaviour. (*see* 91m:81004)
- Vilchez, María Eugenia *see* Esquivel, José Leopoldo, 91e:70009

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- Foundations of quantum mechanics in the light of new technology \star Foundations of quantum mechanics in the light of new technology. 91m:81004
- Philosophical foundations of quantum field theory \star Philosophical foundations of quantum field theory. 91e:81001
- Symposium:
- Foundations of Quantum Mechanics in the Light of New Technology \star Foundations of quantum mechanics in the light of new technology. 91m:81004
- Tokyo \star Foundations of quantum mechanics in the light of new technology. 91m:81004

81P10 Logical foundations of quantum mechanics

- Bach, Alexander Indistinguishable particles: definitions and implications. 91j:81008
- Bennett, M. K. (with Foulis, David J.) Superposition in quantum and classical mechanics. 91f:81013
- Brown, Harvey R. (with Svetlichny, George) Nonlocality and Gleason's lemma. I. Deterministic theories. (Not in MR)
- Bub, Jeffrey On Bohr's response to EPR. II. 91k:81011
- Cook, Thurlow A. *see* Olumumbo, Yewande, 91j:81010
- Dacey, J. C. Arithmetic tools for quantum logic. 91k:81012
- Doebner, H.-D. (with Lücke, W.) Quantum logic as a consequence of realistic measurements on deterministic systems. 91m:81017
- (Dorn, Georg) *see* Foundations of physics, 91b:81016
- Durdjević, Milo A Fock-space theory of local contextual hidden variables. (Not in MR)
- Dvurečenskij, Anatolij (with Riečan, Beloslav) On joint distribution of observables for F -quantum spaces. 91m:81018
- *see also* Pulmannová, Sylwia, 91k:81013
- Elby, Andrew Nonlocality and Gleason's lemma. II. Stochastic theories. (Not in MR)
- Foulis, David J. *see* Bennett, M. K., 91f:81013; Kly, Matthias P., 91g:81008 and Schroek, Franklin E., Jr., 91h:81008
- Giuntini, Roberto (with Mittelstaedt, Peter) The Leibniz principle in quantum logic. 91a:81011
- Quantum logics and Hilbert spaces. 91f:81014
- Brouwer-Zadeh logic and the operational approach to quantum mechanics. 91j:81009
- Grib, A. A. (with Zapatin, R. R.) Automata simulating quantum logics. 91d:81007
- Gudder, Stanley *see* Tomé, W., 91g:81009
- Hambalter, Jan States on W^* -algebras and orthogonal vector measures. 91f:81015
- Keller, Karsten Orthoposets of extreme points and quantum logics. 91g:81007
- Kly, Matthias P. (with Foulis, David J.) Maximum likelihood estimation on generalized sample spaces: an alternative resolution of Simpson's paradox. 91g:81008
- Landau, Lawrence J. Bell's inequality and stochastic electrodynamics. 91a:81012
- Lock, Robin H. The tensor product of generalized sample spaces which admit a unit set of dispersion-free weights. 91d:81008
- Lücke, W. *see* Doebner, H.-D., 91m:81017
- Ladwig, Günther Atoms: are they real or are they objects? 91b:81014
- Mittelstaedt, Peter *see* Giuntini, Roberto, 91a:81011
- Olumumbo, Yewande (with Cook, Thurlow A.) Operational logics and the Hahn-Jordan property. 91j:81010
- Omnes, Roland Logical reformulation of quantum mechanics. IV. Projectors in semiclassical physics. 91a:81013
- Pulmannová, Sylwia (with Dvurečenskij, Anatolij) Quantum logics, vector-valued measures and representations. (French summary) 91k:81013
- Transition amplitude spaces and quantum logics with vector-valued states. 91i:81009
- Riečan, Beloslav On mean value in F -quantum spaces. (Russian and Slovak summaries) 91k:81007
- *see also* Dvurečenskij, Anatolij, 91m:81018
- Riečanová, Zdena Topology in a quantum logic induced by a measure. 91b:81015
- Topologies in atomic quantum logics. 91a:81014
- Rogalewicz, Vladimir Jauch-Piron logics with finiteness conditions. 91m:81019
- Rohrlich, Fritz There is good physics in theory reduction. (Not in MR)
- Schindler, Christian Physical and geometrical interpretation of the Jordan-Hahn and the Lebesgue decomposition property. 91a:81015
- Schroek, Franklin E., Jr. (with Foulis, David J.) Stochastic quantum mechanics viewed from the language of manuals. 91h:81008

- Sen, Sha Hao Remarks on quantic nuclei. 91j:81011
- Svetlichny, George On the inverse FPR problem: quantum is classical. 91i:81010
— see also Brown, Harvey R., (Not in MR)
- Tomé, W. (with Gudder, Stanley) Convergence of observables on quantum logics. 91g:81009
- (Weingartner, Paul) see Foundations of physics, 91b:81016
- Wright, Ron Generalized urn models. 91e:81005
- Zapatin, R. R. see Grib, A. A., 91d:81007
- Items listed otherwise than by author
- Congress:
Logic, Methodology and Philosophy of Science ★ Foundations of physics. 91b:81016
Foundations of physics ★ Foundations of physics. 91b:81016
Salzburg ★ Foundations of physics. 91b:81016
- Items with secondary classifications in 81P10
- Ayupov, Sh. A. (with Yadgorov, N. Zh.) Duality of ordered spaces and characterizations of projective units. (Russian) 91e:46009
- Busch, Paul (with Cassinelli, Gianni; Lahti, Pekka J.) On the quantum theory of sequential measurements. 91k:81015
- Cassinelli, Gianni see Busch, Paul; et al., 91k:81015
- Cook, David B. ★ Schrödinger's mechanics. 91m:81001
- Garuccio, Augusto (with Lepore, V. L.; Selleri, Franco) Probabilities for correlated systems. 91m:81011
- Giustini, Roberto Lindenbaum property, quantum logics and the hidden-variable issue. 91g:03123
- Godowski, Radosław (with Traczyk, Tadeusz; Varlet, Jules) Implicative orthoposets. (see 91k:08001)
- Goldstein, Stanisław (with Paszkiewicz, Adam) Orthogonal forms and transition probability in von Neumann algebras. 91h:46113
- Greechie, Richard J. Sites and tours in orthoalgebras and orthomodular lattices. 91j:06017
- Gross, Herbert On orthomodular spaces. 91j:06018
- Hilbert lattices: new results and unsolved problems. 91j:06019
- Halpin, John F. What is the logical form of probability assignment in quantum mechanics? 91k:03026
- Havda, Jan On a certain mapping on the set with orthogonality. (Russian and Czech summaries) 91f:06009
- Kalmbach, G. Quantum measure spaces. 91j:06025
- Keller, Karsten Orthoposets of extreme points of order-intervals. 91f:06010
- Kent, Adrian Against many-worlds interpretations. 91b:81012
- Kuck, Conrad ★ The Entscheidungsproblem has been solved. 91m:03002
- Lahti, Pekka J. see Busch, Paul; et al., 91k:81015
- Länger, Helmut (with Maczyński, Maciej) An order-theoretical characterization of spectral measures. 91j:06021
- Lepore, V. L. see Garuccio, Augusto; et al., 91m:81011
- Maczyński, Maciej see Länger, Helmut, 91j:06021
- Malinowski, Jacek The deduction theorem for quantum logic—some negative results. 91g:03124
- Matveichuk, M. S. The structure of measures on the logic of skew projectors. II. (Russian) 91g:46077b
- The structure of measures on the logic of skew projectors. I. 91g:46077a
- Mushtari, D. Kh. Logics of projectors in Banach spaces. 91e:46087
- Navara, Mirko (with Pták, Pavel) Enlargements of logics (σ -orthocomplete case). 91f:03125
- Paszkiewicz, Adam see Goldstein, Stanisław, 91h:46113
- Pavičić, Mladen Unified quantum logic. 91b:03104
- Piron, Constantin ★ Mécanique quantique. (French) [Quantum mechanics] 91j:81001
- Pizlak, Robert Lattice theory, quadratic spaces, and quantum proposition systems. 91h:06021
- Pták, Pavel see Navara, Mirko, 91f:03125
- Rogawicz, Vladimir Any orthomodular poset is a pasting of Boolean algebras. 91j:06022
- Rosický, Jiří Multiplicative lattices and C^* -algebras. (French summary) 91e:46079
- Schindler, Christian The unique Jordan-Hahn decomposition property. 91h:06022
- Selleri, Franco see Garuccio, Augusto; et al., 91m:81011
- Tisza, Laszlo Integration of classical and quantum physics. 91a:81009
- Traczyk, Tadeusz see Godowski, Radosław; et al., (91h:08001)
- Trnková, Věra Automorphisms and symmetries of quantum logics. 91b:06017
- Errata: "Automorphisms and symmetries of quantum logics" [Internat. J. Theoret. Phys. 28 (1989), no. 10, 1195–1214; MR 91b:06017]. (Not in MR)
- Varlet, Jules see Godowski, Radosław; et al., (91h:08001)
- Werner, Reinhard F. Remarks on a quantum state extension problem. 91g:46071
- Yadgorov, N. Zh. see Ayupov, Sh. A., 91e:46009
- Youssef, Matthew B. Refinement and unique Mackey decomposition for manuals and orthoalgebras. 91j:06024

81P15 Quantum measurement theory

- Abe, Sumiyoshi (with Suzuki, Norikazu) Thermal information-entropic uncertainty relation. 91d:81006
- Aerts, Diederik A mechanistic classical laboratory situation violating the Bell inequalities with $2 \cdot \sqrt{2}$, exactly "in the same way" as its violations by the EPR experiments. (Not in MR)
- Aharonov, Yakir (with Anandan, Jeeva; Popescu, Sandu; Vaidman, Lev) Superpositions of time evolutions of a quantum system and a quantum time-translation machine. 91g:81010
- Anandan, Jeeva (with Pines, A.) Nonabelian geometric phase from incomplete quantum measurements. 91e:81007
- see also Aharonov, Yakir; et al., 91g:81010
- Aspect, Alain Experimental tests of Bell's inequalities with pairs of low energy correlated photons. (see 91m:82002)
- Comment on: "A classical model of EPR experiment with quantum mechanical correlations and Bell inequalities" [Phys. Lett. A 105 (1984), no. 9, 458–462; MR 86f:81007] by A. O. Barut and P. Meystre. (see 91m:82002)
- (with Kaiser, Robin) Linear momentum conservation in coherent population trapping: a case study for a quantum filtering process. (Not in MR)
- Balian, Roger On the principles of quantum mechanics and the reduction of the wave packet. 91a:81016
- Ballentine, L. E. Limitations of the projection postulate. (Not in MR)
- (Barut, Asim O.) see Aspect, Alain, (91m:82002)
- Belavkin, V. P. A posterior Schrödinger equation for continuous nondemolition measurement. 91m:81020
- Beltramini, Enrico G. (with Cassinelli, Gianni; Lahti, Pekka J.) Unitary measurements of discrete quantities in quantum mechanics. 91a:81017
- Braunstein, Samuel L. (with Caves, Carlton M.) Wringing out better Bell inequalities. (see 91m:81004)
- Busch, Paul (with Schroeck, Franklin E., Jr.) On the reality of spin and helicity. 91d:81009
- A "natural" explanation of the Aharonov et al. "surprising quantum effect". (see 91m:81004)
- (with Lahti, Pekka J.) Some remarks on unsharp quantum measurements, quantum nondemolition, and all that. (German summary) 91k:81014
- (with Cassinelli, Gianni; Lahti, Pekka J.) On the quantum theory of sequential measurements. 91k:81015
- (with Lahti, Pekka J.) Completely positive mappings in quantum dynamics and measurement theory. 91m:81021
- Cartwright, Nancy Quantum causes: the lesson of the Bell inequalities. (see 91f:00018)
- Cassinelli, Gianni see Beltramini, Enrico G.; et al., 91a:81017 and Busch, Paul; et al., 91k:81015
- Caves, Carlton M. see Braunstein, Samuel L., (91m:81004)
- Damjanović, Milan Quantum evolution disturbed by successive collapses. 91g:81011
- Dagupta, Ratan (with Roy, Sisir) Quantum statistics, distinguishability and random trajectories. 91k:81016
- Dieks, Dennis Quantum statistics, identical particles and correlations. 91a:81018
- Diósi, L. Relativistic theory for continuous measurement of quantum fields. 91m:81022
- Drurečević, Anstož (with Pulmannová, Sylvia) Type II joint distribution and compatibility of observables. 91a:81019
- Franson, J. D. Bell's theorem for position and time. (see 91m:81004)
- Fukuda, Reijiro Macrovariables and the theory of measurement. (see 91m:81004)
- Garrett, A. J. M. Bell's theorem and Bayes' theorem. (Not in MR)
- Garuccio, Augusto Test of locality in an EPR-type experiment with variable correlation. (see 91m:81004)
- Gavarr, Bernard (with Schulman, Lawrence S.) Model apparatus for quantum measurements. 91f:81016
- Greenberger, Daniel M. (with Horne, Michael A.; Shimony, Abner; Zeilinger, Anton) Bell's theorem without inequalities. 91k:81017
- A short note on the Aharonov-Bohm effect. (Not in MR)
- Horne, Michael A. see Greenberger, Daniel M.; et al., 91k:81017
- Jones, Kingsley R. W. Entropy of random quantum states. (Not in MR)
- Quantum limits to information about states for finite-dimensional Hilbert space. 91k:81018
- Kaiser, Robin see Aspect, Alain, (Not in MR)
- Kakazu, Kiyotaka see Kodaka, Shoji; et al., 91k:81017
- van Kampen, N. G. A physicist looks at quantum mechanical measurement. (see 91m:81004)
- Keller, Joseph B. Collapse of wavefunctions and probability densities. 91f:81017
- Kholeva, A. S. Limit theorems for repeated measurements and continuous measurement processes. 91a:81020
- Kobayashi, Tsumehiro (with Ohmomo, Ken-ichi) Internal trace for detector variables and the quantum theory of measurement. 91m:81023
- Kodaka, Shoji (with Matsumoto, Shuichi; Kakazu, Kiyotaka) Generalized coherent state approach to quantum measurement. 91b:81017
- Lahti, Pekka J. see Beltramini, Enrico G.; et al., 91a:81017; Busch, Paul, 91k:81014; 91k:81015 and 91m:81021
- Larsen, Ulf Superspace geometry: the exact uncertainty relationship between complementary aspects. 91k:81009
- Lepore, V. L. (with Selleri, Franco) Do performed optical tests disprove local realism? 91e:81008
- Levine, Robert Y. (with Tucci, Robert R.) On the simultaneous measurement of position and momentum: Naimark embeddings and projections. 91d:81010
- (with Tucci, Robert R.) On the simultaneous measurement of spin components using spin- $\frac{1}{2}$ meters: Naimark embedding and projections. 91d:81011
- Maki, Ziro An algebraic approach to the quantum theory of measurements. 91m:81024
- Marshall, Trevor W. What does noise do to the Bell inequalities? (Not in MR)
- Martens, Hans (with de Muynck, Willem M.) Nonideal quantum measurements. 91k:81019
- (with de Muynck, Willem M.) The inaccuracy principle. 91k:81020
- see also de Muynck, Willem M., (91m:81004)
- Matsumoto, Shuichi see Kodaka, Shoji; et al., 91k:81017
- Mermel, N. David Quantum mysteries revisited. 91e:81009
- Extreme quantum entanglement in a superposition of macroscopically distinct states. 91f:81018
- (Meystre, P.) see Aspect, Alain, (91m:82002)
- Mittelstaedt, Peter Simultaneous unsharp measurements of complementary observables in a double slit experiment. (see 91m:81004)
- de Muynck, Willem M. (with Martens, Hans) Nonideal quantum measurements, simultaneous measurement of incompatible observables, and the Bell inequalities. (see 91m:81004)
- see also Martens, Hans, 91k:81019 and 91k:81020
- Ohmomo, Ken-ichi see Kobayashi, Tsumehiro, 91m:81023
- Peres, Asher Neumark's theorem and quantum inseparability. 91j:81012
- Incompatible results of quantum measurements. 91k:81021
- Peshkin, M. (with Tonomura, A.) ★ The Aharonov-Bohm effect. 91c:81004

- Petrovsky, T. (with Tasaki, S.; Prigogine, Ilya) Quantum Zeno effect. 91k:81022
 — (with Tasaki, S.; Prigogine, Ilya) Quantum Zeno effect. 91m:81025
 Phoenix, Simon J. D. Wave-packet evolution in the damped oscillator. 91k:81023
 Pines, A. see Anandani, Jeeva, 91c:81007
 Polchinski, Joseph Weinberg's nonlinear quantum mechanics and the Einstein-Podolsky-Rosen paradox. 91k:81024
 Popescu, Sandu see Aharonov, Yakir; et al., 91g:81010
 Prigogine, Ilya see Petrovsky, T.; et al., 91k:81022 and 91m:81025
 Pulmannová, Sylvia see Dvurečenskij, Anatolij, 91a:81019
 Ray, Sisir see Dasgupta, Ratan, 91k:81016
 Schroeck, Franklin E., Jr. see Busch, Paul, 91d:81009
 Schulman, Lawrence S. see Gaveau, Bernard, 91f:81016
 Selli, Franco see Lepore, V. L., 91c:81008
 Shimony, Abner see Greenberger, Daniel M.; et al., 91k:81017
 Squires, Euan J. State reduction due to a fluorescent screen. 91d:81012
 Sommers, Stephen J. Bell's inequalities and quantum field theory. (see 91i:00023)
 Suppes, Patrick (with Zanotti, Mario) New Bell-type inequalities for $N > 4$ necessary for existence of a hidden variable. 91m:81026
 Suzuki, Norikazu see Abe, Sumiyoshi, 91c:81006
 Tasaki, S. see Petrovsky, T.; et al., 91k:81022 and 91m:81025
 Tonomura, A. see Peshkin, M., 91c:81004
 Tucci, Robert R. see Levine, Robert V., 91d:81010 and 91d:81011
 Vaidman, Lev see Aharonov, Yakir; et al., 91g:81010
 Wootters, William K. Random quantum states. (Not in MR)
 Zanotti, Mario see Suppes, Patrick, 91m:81026
 Zeilinger, Anton see Greenberger, Daniel M.; et al., 91k:81017
 Zhang, Xue Long Uncertainty relation for the generalized conjugate quantity pair. 91k:81010

Items with secondary classifications in 81P15

- Belavkin, V. P. A continuous counting observation and posterior quantum dynamics. 91a:81246
 Boys, Luis J. State space as projective space. The case of massless particles. 91b:81006
 Boh, Jeffrey On Bohr's response to EPR. II. 91k:81011
 Burzyński, Andrzej Probabilistic structure of quantum theory. 91d:81001
 (Ezawa, Hiroshi) see Foundations of quantum mechanics in the light of new technology, 91m:81004
 Garbaczewski, Piotr Remarks on the theory of the Stern-Gerlach experiment. 91a:81005
 Garrett, A. J. M. Bell's theorem, inference, and quantum transactions. 91c:81003
 Garuccio, Augusto (with Lepore, V. L.; Selli, Franco) Probabilities for correlated systems. 91m:81011
 Grabitaka, T. The indistinguishability and the Heisenberg relation. 91f:81010
 Hemion, Geoffrey Quantum mechanics in a discrete model of classical physics. 91m:81013
 Josephson, Brian D. (with Pallikari-Viras, Fotini) Biological utilization of quantum nonlocality. (Not in MR)
 (Kobayashi, Shin-ichi) see Foundations of quantum mechanics in the light of new technology, 91m:81004
 Lepore, V. L. see Garuccio, Augusto; et al., 91m:81011
 Martínez, Sergio A search for the physical content of Luder's rule. 91i:81008
 (Murayama, Yoshimasa) see Foundations of quantum mechanics in the light of new technology, 91m:81004
 Neuhörm, Tibor Remarks on product observables. 91b:81013
 (Nomura, Sadao) see Foundations of quantum mechanics in the light of new technology, 91m:81004
 Pallikari-Viras, Fotini see Josephson, Brian D., (Not in MR)
 Penrose, Roger Fundamental asymmetry in physical laws. 91c:83002
 Rössler, O. E. Explicit observers. 91a:81014
 Santos, Emilio Interpretation of the quantum formalism and Bell's theorem. (Not in MR)
 (Schommers, W.) see Quantum theory and pictures of reality, 91a:81010
 Selli, Franco see Garuccio, Augusto; et al., 91m:81011
 Yoshimura, Jin² The announcement: the solution for the measurement problem in quantum mechanics. 91c:81004

Items listed otherwise than by author

- Foundations of quantum mechanics in the light of new technology ★ Foundations of quantum mechanics in the light of new technology. 91m:81004
 Quantum theory and pictures of reality ★ Quantum theory and pictures of reality. 91a:81010
 Symposium:
 Foundations of Quantum Mechanics in the Light of New Technology ★ Foundations of quantum mechanics in the light of new technology. 91m:81004
 Tokyo ★ Foundations of quantum mechanics in the light of new technology. 91m:81004

81P20 Stochastic mechanics (including stochastic electrodynamics)

- Beume, J. G. B. (with Villalonga, E.; Rabitz, Herschel) Applications of stochastic mechanics to polyatomic lattices. 91i:81011
 Błaquière, A. More on stochastic processes in wave mechanics. 91c:81010
 Cetto, Ana María see de la Peña, Luis, (Not in MR)
 De Angelis, Gian Fabrizio Stochastic mechanics of a relativistic spinless particle. 91j:81013
 Durran, R. see Truman, A., 91c:81005
 Garbaczewski, Piotr Randomness in the quantum description of neutral spin 1/2 particles. 91k:81011
 — Random versus deterministic paths in stochastic mechanics. 91g:81012
 — Accelerated stochastic diffusion processes. 91m:81027
 Ghirardi, Gian Carlo (with Pearle, Philip; Rimini, Alberto) Stochastic processes in Hilbert space: a consistent formulation of quantum mechanics. (see 91m:81004)
 Guerra, Francesco Stochastic variational principles and quantum mechanics. 91b:81018
 Jaworski, W. The concept of a time-of-sojourn operator and spreading of wave packets. 91f:81019

- Jibu, Mari (with Misawa, Tetsuya; Yasue, Kunio) Measurement and reduction of wavefunction in stochastic mechanics. (Not in MR)
 Lim, S. C. Stochastic formulation of quantum field at finite temperature. (see 91k:81004)
 Marra, Rossana (with Serva, Maurizio) Variational principles for a relativistic stochastic mechanics. (French summary) 91h:81012
 Misawa, Tetsuya see Jibu, Mari; et al., (Not in MR)
 Nicrosini, Oreste (with Rimini, Alberto) On the relationship between continuous and discontinuous stochastic processes in Hilbert space. (Not in MR)
 Pearle, Philip see Ghirardi, Gian Carlo; et al., (91m:81004)
 de la Peña, Luis (with Cetto, Ana María) Stochastic theories in quantum mechanics. (Spanish. English summary) (Not in MR)
 Podlipchuk, V. Yu. A stochastic model in quantum mechanics. 91a:81021
 Rabitz, Herschel see Beume, J. G. B.; et al., 91i:81011
 Rimini, Alberto see Nicrosini, Oreste, (Not in MR) and Ghirardi, Gian Carlo; et al., (91m:81004)
 Serva, Maurizio see Marra, Rossana, 91h:81012
 Tosatti, E. (with Vulpiani, Angelo; Zannetti, M.) Quantum mapping of classical diffusion in random media in $D > 1$ space dimensions. 91g:81013
 Truman, A. (with Durran, R.) Planetsimal diffusions in stochastic mechanics. 91c:81005
 Villalonga, E. see Beume, J. G. B.; et al., 91i:81011
 Vulpiani, Angelo see Tosatti, E.; et al., 91g:81013
 Wakolbinger, Anton A simplified variational characterization of Schrödinger processes. 91a:81012
 Wallstrom, Timothy C. The stochastic mechanics of the Pauli equation. 91h:81013
 Yasue, Kunio see Jibu, Mari; et al., (Not in MR)
 Zannetti, M. see Tosatti, E.; et al., 91g:81013

Items with secondary classifications in 81P20

- Albeverio, Sergio (with Hilbert, Astrid) Some remarks on stochastically perturbed (Hamiltonian) systems. 91a:81221
 (Ali, S. Twareque) see Proceedings: Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics, (Not in MR)
 Bandopadhyay, Pratul Quantum gravity, supergravity and torsion. 91d:83057
 Belavkin, V. P. A continuous counting observation and posterior quantum dynamics. 91a:81246
 Cohendet, O. (with Combe, Ph.; Sirugue-Collin, M.) Fokker-Planck equation associated with the Wigner function of a quantum system with a finite number of states. 91j:81032
 Combe, Ph. see Cohendet, O.; et al., 91j:81032
 Deprit, André (with Ferrer, Sebastián) Comment on: "Classical Hamiltonian systems and stochastic mechanics: a possible new technique to investigate classical integrability and define quantum chaos" [Phys. Lett. A 137 (1989), no. 4-5, 183-187; MR 90c:58048] by D. P. K. Ghikas. 91h:58040
 Dodonov, V. V. (with Man'ko, V. L.) Universal invariants of quantum systems and generalized uncertainty relations. 91h:81198
 Ferrer, Sebastián see Deprit, André, 91h:58040
 (Ghikas, Demetris P. K.) see Deprit, André, 91h:58040
 Hilbert, Astrid see Albeverio, Sergio, 91h:81221
 Landau, Lawrence J. Bell's inequality and stochastic electrodynamics. 91a:81012
 Lim, S. C. Stochastic quantisation of a gauge field in the spatial axial gauge. 91g:81083
 Man'ko, V. L. see Dodonov, V. V., 91h:81198
 Maslov, V. P. A probabilistic-statistical model in quantum mechanics. 91b:81059
 (Morales, Pedro) see Proceedings: Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics, (Not in MR)
 Nelson, Edward What is stochastic mechanics? 91f:03136
 Prugovečki, Eduard Geometro-stochastic locality in quantum spacetime and quantum diffusions. 91m:81110
 Sanz, Angel L. Particular example of the behaviour of Feynman-like stochastic paths considered as real space-time physical random motions in the causal stochastic interpretation of quantum mechanics. 91f:81012
 Sirugue-Collin, M. see Cohendet, O.; et al., 91j:81032
 Yoshida, Minoru On Nelson processes with boundary condition. 91h:60089

Items listed otherwise than by author

- Montreal, PQ ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)
 Proceedings:
 Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)
 Seminar:
 Functional Integration Methods in Stochastic Quantum Mechanics, Joint Concordia-Sherbrooke ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)
 Sherbrooke, PQ ★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

81P99 None of the above, but in this section

- Barut, Asim O. ★ Geometry and physics. 91c:81006
 Bekenstein, Jacob D. (with Schiffer, Marcelo) Quantum limitations on the storage and transmission of information. 91m:81028
 Finkelstein, David First flash and second vacuum. 91i:81013
 Good, I. J. A quantum hypothesis for hadrons and the judging of physical numerology. (see 91c:00010)
 Gu, Zhi Yu (with Qian, Shang Wu) Corrigendum: "Aharonov-Bohm scattering on parallel flux lines of the same magnitude" [J. Phys. A 21 (1988), no. 11, 2573-2585; MR 89c:81013]. (Not in MR)
 Hagen, C. R. Exact equivalence of spin-1/2 Aharonov-Bohm and Aharonov-Casher effects. 91c:81011
 Qian, Shang Wu see Gu, Zhi Yu, (Not in MR)

- Schatten, Kenneth H. Evanescent radiation, quantum mechanics and the Casimir effect. 91a:81022
- Schiffer, Marcelo *see* Bekenstein, Jacob D., 91m:81028
- Schulman, Lawrence S. Semiclassical two-time localization and the consequences of restrictions on wave packet spreading. (see 91k:81004)
- Seigfried, Hans Autonomy and quantum physics: Nietzsche, Heidegger, and Heisenberg. (Not in MR)
- Sladkowski, J. Quantum mechanics on topologically nontrivial spaces. (Not in MR)
- Teller, Paul Prolegomenon to a proper interpretation of quantum field theory. (Not in MR)
- Weinberg, Steven Testing quantum mechanics. 91e:81012

Items with secondary classifications in 81P99

- Berry, M. V. Geometric amplitude factors in adiabatic quantum transitions. 91k:81045
- Calanelli, Eduardo R. About maximal proper accelerations. 91g:83004
- Crespo, G. (with Proto, A. N.; Plastino, A.; Otero, Dino) Information-theory approach to the variable-mass harmonic oscillator. 91g:81068
- Feig, Ephraim (with Micchelli, Charles A.) L^2 -synthesis by ambiguity functions. 91a:42025
- Gardner, Martin *see* Penrose, Roger, 91c:00010
- Gasparini, M. (with Scarpetta, G.) Some physical consequences of the maximal proper acceleration. 91a:83056
- Gauthier, Claude Particles in multiconnected hyperspace. 91d:83119
- Hartle, James B. Time and prediction in quantum cosmology. 91c:83020
- Henneberger, Walter C. *see* Zhu, Xingshu, 91k:81213
- Isham, Christopher J. (with Kubyshin, Yu. A.; Renteln, Paul) Quantum norm theory and the quantisation of metric topology. 91k:81197
- Kubyshin, Yu. A. *see* Isham, Christopher J.; et al., 91k:81197
- Micchelli, Charles A. *see* Feig, Ephraim, 91a:42025
- (Noyes, H. Pierre) *see* Phipps, Thomas E., Jr., 91c:00004
- Otero, Dino *see* Crespo, G.; et al., 91g:81068
- Papini, G. Quantum mechanics and the geometry of spacetime. 91h:81194
- Penrose, Roger ★ The emperor's new mind. 91c:00010
- Phipps, Thomas E., Jr. ★ Heretical verities: mathematical themes in physical description. 91c:00004
- Plastino, A. *see* Crespo, G.; et al., 91g:81068
- Proto, A. N. *see* Crespo, G.; et al., 91g:81068
- Renteln, Paul *see* Isham, Christopher J.; et al., 91k:81197
- Scarpetta, G. *see* Gasparini, M., 91a:83056
- Souček, Jiří Ornstein-Uhlenbeck process in quantum mechanics and the sub-quantum coherence effect. 91a:81093
- Zhu, Xingshu (with Henneberger, Walter C.) Some observations on the dynamics of the Aharonov-Bohm effect. 91k:81213

81Qxx General mathematical topics and methods in quantum theory

Items with secondary classifications in 81Qxx

- Park, David A. ★ Classical dynamics and its quantum analogues. 91c:70002

81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations

- Absarenov, A. V. (with Stolyarov, A. V.) The phase formalism for the one-dimensional eigenvalue problem and its relation with the quantum Bohr-Sommerfeld rule. 91f:81020
- Abdalla, M. Sebawe An anisotropic charged oscillator in the presence of a constant magnetic field. (Not in MR)
- Adhikari, R. (with Dutt, Ranabir; Varshni, Y. P.) Exact solutions for polynomial potentials using supersymmetry inspired factorization method. 91c:81007
- Aly, H. H. (with Barut, Asim O.) Methods of solution of the Schrödinger equations for a class of anharmonic and singular potentials. 91h:81019
- Amos, A. T. *see* Burrows, B. L., 91a:81028
- Andrew, Keith (with Supplee, James) A hydrogenic atom in d -dimensions. 91m:81029
- Arnold, Anton (with Steinrück, Herbert) The "electromagnetic" Wigner equation for an electron with spin. (German summary) 91a:81023
- Aubert-Frécon, M. *see* Hadinger, Gisèle; et al., 91m:81033
- Bagrov, V. G. (with Shapovalov, A. V.; Shirokov, I. V.) A method for generating new exact solutions of the one-dimensional Schrödinger equation. (Russian) 91b:81020
- (with Shapovalov, A. V.; Shirokov, I. V.) A new method of exact solution generation for the one-dimensional Schrödinger equation. 91b:81014
- Balabane, Mikhaël (with Cazenave, Thierry; Vázquez, Luis) Existence of standing waves for Dirac fields with singular nonlinearities. 91k:81025
- Baldes, Csaba Lessons from a time-dependent model. 91k:81026
- Barton, Gabriel (with Bray, A. J.; McKane, A. J.) The influence of distant boundaries on quantum mechanical energy levels. 91k:81027
- Barut, Asim O. $E = \hbar\omega$. 91b:81021
- *see also* Aly, H. H., 91b:81019
- Benítez, J. (with Martínez y Romero, R. P.; Núñez Yépez, H. N.; Salas-Brito, A. L.) Solution and hidden supersymmetry of a Dirac oscillator. 91a:81024
- (with Martínez y Romero, R. P.; Núñez Yépez, H. N.; Salas-Brito, A. L.) Errata: "Solution and hidden supersymmetry of a Dirac oscillator" [Phys. Rev. Lett. 64 (1990), no. 14, 1643–1645; MR 91a:81024]. (Not in MR)
- Besleris, Ioannis M. *see* Shaarawi, Amr M.; et al., 91a:81016
- Blanchard, Philippe (with Stubbe, Joachim) Stability of ground states for nonlinear classical field theories. 91a:81025
- Blesler, Konrad *see* Stahlhofen, A., 91c:81012
- Boschi Filho, Henrique (with Vaidya, Arvind Narayan) Algebraic solution of an anisotropic ring-shaped oscillator. 91a:81026
- (with Vaidya, Arvind Narayan) Algebraic solution of an anisotropic nonquadratic potential. 91h:81014
- *see also* Vaidya, Arvind Narayan, 91f:81028
- Bose, Subir Kumar (with Varma, N.) Comment on: "An exact solution of the Schrödinger wave equation for a sextic potential" [Phys. Lett. A 142 (1989), no. 2-3, 57–58; MR 90j:81025] by R. S. Kaushal. 91e:81013
- Boyd, John Philip A numerical calculation of a weakly nonlocal solitary wave: the ϕ^4 breather. 91a:81027
- Brajamani, S. (with Mazumdar, P. S.; Chowdhury, S. K.; Sur, Sukanya) Energy levels of λx^{2k} anharmonic oscillators using the quantum normal form. (Not in MR)
- Bray, A. J. *see* Barton, Gabriel; et al., 91k:81027
- Brits, S. J. M. *see* Steeb, W.-H.; et al., 91d:81018
- Brown, Lowell S. Quantum motion in a Paul trap. 91m:81030
- Burrows, B. L. (with Amos, A. T.) Approximate solutions to two-level transition and surface-ion neutralisation problems. 91a:81028
- Cash, J. R. (with Raptis, A. D.; Simos, T. E.) A sixth-order exponentially fitted method for the numerical solution of the radial Schrödinger equation. (Not in MR)
- Castro, Carlos Nonlinear corrections to the Schrödinger equation from geometric quantum mechanics. 91j:81014
- Castro, Eduardo A. *see* Estrin, Darío A.; et al., 91c:81008
- Cazenave, Thierry *see* Balabane, Mikhaël; et al., 91k:81025
- Cheng, Bin Kang The two-dimensional harmonic oscillator interacting with a wedge. (Not in MR)
- Chowdhury, S. K. *see* Brajamani, S.; et al., (Not in MR)
- Christiansen, Peter L. *see* Scott, Alwyn C., 91f:81255
- Clemence, Dominic P. Levinson's theorem for a Dirac system. 91a:81029
- Comay, E. Stability problems of numerical solutions to the Lorentz-Dirac equation. (Not in MR)
- Combes, J. M. (with Hislop, Peter D.) Quantum tunnelling, nontrapping and the existence of Stark ladder resonances. 91a:81030
- Combes, M. Spectral properties of a periodically kicked quantum Hamiltonian. 91m:81031
- Davidson, Arthur Damping in Schrödinger's equation for macroscopic variables. 91a:81031
- Del, E. A. (with Kaphai, V. N.; Skachkov, N. B.) Exact solutions of a class of quasipotential equations for superposition of quasipotentials of a one-boson exchange. 91h:81015
- De Meyer, H. (with Vanden Bergh, G.) Exact bound-state solutions of the potential $V(r) = -Ze^2/(r + \beta)$. 91a:81032
- Devoto, A. (with Pomorislac, B.) Raising and lowering operators for nonsymmetric Hamiltonians. (Italian and Russian summaries) 91a:81033
- Dittrich, J. (with Exner, Pavel; Šeba, Petr) Dirac Hamiltonian with contact interaction on a sphere. (see 91j:81005)
- (with Exner, Pavel; Šeba, Petr) Dirac operators with a spherically symmetric δ -shell interaction. 91a:81034
- Dominguez-Adame, F. Exact solutions of the Dirac equation with surface delta interactions. 91d:81013
- Dutt, Ranabir *see* Adhikari, R.; et al., 91c:81007
- Enz, U. The sine-Gordon breather as a model particle: quantized states from classical field theory. (see 91j:58005)
- Estrin, Darío A. (with Fernández, Francisco M.; Castro, Eduardo A.) On the Hill determinant method. 91c:81008
- Euler, N. *see* Steeb, W.-H.; et al., 91d:81018
- Evans, A. Bram Four-space formulation of Dirac's equation. 91e:81014a
- Four-space formulation of Dirac's equation. 91e:81014b
- Exner, Pavel One more theorem on the short-time regeneration rate. 91a:81035
- *see also* Dittrich, J.; et al., 91a:81034 and (91j:81005)
- Fan, Hong Yi Unitary transformation for four harmonically coupled identical oscillators. 91k:81028
- Fernández, Francisco M. Analytical bound eigenstates and eigenvalues of a truncated Coulomb potential. (Not in MR)
- *see also* Estrin, Darío A.; et al., 91c:81008
- Fleck, J. A., Jr. *see* Ratowsky, R. P., (Not in MR)
- Floratos, E. G. (with Tomaras, T. N.) A quantum mechanical analogue for the q -oscillator. 91h:81016
- de Frutos, J. (with Sanz-Serna, J. M.) Split-step spectral schemes for nonlinear Dirac systems. 91f:81021
- Fu, Hong Chen (with Sun, Chang Pu) New inhomogeneous boson realizations and inhomogeneous differential realizations of Lie algebras. 91m:81032
- Gao, Xiao Chun (with Xu, Jing Bo; Qian, Tie Zheng) The exact solution for the generalized time-dependent harmonic oscillator and its adiabatic limit. (Not in MR)
- Gerry, Christopher C. Quantum and classical dynamics of an anharmonic oscillator. 91d:81014
- Gulmaro Corona, C. A one-parameter family of approximations of the solution of the initial Cauchy problem for the Dirac equation. 91f:81022
- Hadinger, Gerold *see* Hadinger, Gisèle; et al., 91m:81033
- Hadinger, Gisèle (with Aubert-Frécon, M.; Yanacopoulos, A.; Hadinger, Gerold) The Killingbeck-Miller method for the treatment of a hydrogenic system in a half space. 91m:81033
- Hagen, C. R. Aharonov-Bohm scattering amplitude. 91k:81029
- Harris, Edward G. Quantum theory of the damped harmonic oscillator. 91h:81017
- Haydock, Roger The recursion method and the Schrödinger equation. (see 91k:00039)
- Heins, W. D. *see* Steeb, W.-H., 91m:81041
- Herrmann, Michael A relativistic method for the nonrelativistic gap problem. 91f:81023
- Hislop, D. (with Wolfaardt, M. F.; Leach, P. G. L.) The Schrödinger equation for the $f(x)/g(x)$ interaction. 91j:81015
- Hislop, Peter D. *see* Combes, J. M., 91a:81030
- Ino, Taketoshi *see* Munakata, Yasuo; et al., 91e:81016
- Jannusis, A. (with Skaltsas, D.) Harmonic oscillator with a complex parameter. (Not in MR)
- Jatkar, Dileep P. (with Kumar, C. Nagaraja; Khare, Avinash) A quasi-exactly solvable problem without $Sl(2)$ symmetry. 91d:81015

- Jyon, Yeong-Huon Asymptotic solutions of Dirac equation in Yukawa potential. (Korean summary) (Not in MR)
- Kapohat, V. N. *see* Del, E. A.; et al., 91h:81015
- Katayama, Noriaki A note on the Kepler problem in a space of constant curvature. 91g:81014a
- Errata to: "A note on the Kepler problem in a space of constant curvature". 91g:81014b
- Katriel, Jacob *see* Novoselsky, Akiva, 91m:81039
- Kaushal, R. S. On solving the Schrödinger-like wave equation in N dimensions for generalized sextic and octic potentials. 91m:81034
- *see also* Bose, Subir Kumar, 91e:81013
- Khare, Avinash *see* Jafar, Dileep P.; et al., 91d:81015
- Komarov, L. I. *see* Le Van Hoang; et al., 91f:81025
- Kosiński, Piotr (with Maślanka, Paweł) On the violation of causality in relativistic quantum mechanics. 91f:81024
- Kostin, M. D. Linearization of the Hamiltonian. 91m:81035
- Kumar, C. Nagaraja *see* Jafar, Dileep P.; et al., 91d:81015
- Lazanu, S. (with Săndulescu, A.) Fourth order moments of an open harmonic oscillator by the characteristic function method. (Not in MR)
- Leach, P. G. L. *see* Hislop, D.; et al., 91j:81015
- Léauté, B. (with Marciilhac, Gilbert; Pons, Roland) On the harmonic oscillator with nonzero periodic mass. 91m:81036
- (with Marciilhac, Gilbert; Pons, Roland; Skinazi, J.) On the connection problem for some Schrödinger equations in relation to the biconfluent Heun differential equation. 91c:81009
- Le Van Hoang (with Komarov, L. I.; Romanova, T. S.) On the Coulomb Green function. 91f:81025
- Li, Fu Bin Improvements on the perturbed harmonic oscillator ladder operator method in nonlinear quantum field theory and laser theory. (Chinese. English summary) 91a:81036
- Lorente, Miguel On some integrable one-dimensional quantum mechanical systems. 91c:81016
- Loyola, G. *see* Moshinsky, M.; et al., 91m:81037
- Marciilhac, Gilbert *see* Léauté, B.; et al., 91c:81009; Pons, Roland, 91c:81010 and Léauté, B.; et al., 91m:81036
- Martínez y Romero, R. P. *see* Benítez, J.; et al., 91a:81024 and (Not in MR)
- Maślanka, Paweł *see* Kosiński, Piotr, 91f:81024
- Mazumdar, P. S. *see* Brajarnani, S.; et al., (Not in MR)
- McKane, A. J. *see* Barton, Gabriel; et al., 91h:81027
- Michelson, Daniel Elementary particles as solutions of the Sivashinsky equation. 91e:81015
- Minahan, Joseph A. The q -Schrödinger equation. 91j:81016
- Moschella, Ugo Classical limit of a quantum particle in an external Yang-Mills field. (French summary) 91c:81015
- Moshinsky, M. (with Quesne, C.; Loyola, G.) Art or science: the determination of the symmetry Lie algebra for a Hamiltonian with accidental degeneracy. 91m:81037
- Munakata, Yasuo (with Sakamoto, Jiro; Ino, Taketoshi; Nakamae, Takuji; Yamamoto, Fujio) Exact solutions of a relativistic three-body bound state in $1+1$ dimensions. 91e:81016
- Mur, V. D. (with Popov, V. S.) The $1/n$ expansion and coherent states. 91m:81038
- Nakamae, Takuji *see* Munakata, Yasuo; et al., 91e:81016
- Nikitin, A. G. (with Onufriichuk, S. P.; Prilipko, A. I.) Operators of the symmetry of the Breit equation. (Russian. English summary) 91g:81015
- Novoselsky, Akiva (with Katriel, Jacob) Nonspurious harmonic oscillator states in single particle coordinates. 91m:81039
- Núñez Yáñez, H. N. *see* Benítez, J.; et al., 91a:81024 and (Not in MR)
- de Oliveira, E. Capelas The symmetrical top. 91m:81040
- Onufriichuk, S. P. *see* Nikitin, A. G.; et al., 91g:81015
- Özçelik, Süleyman (with Şimşek, Mehmet) Exact solutions of the radial Schrödinger equation for inverse-power potentials. 91k:81030
- Pang, Gen Di (with Pu, Fu Ke; Zhao, Bao Heng) Exact solution for quantum Davey-Stewartson I system. 91h:81018
- Papageorgiou, C. D. (with Raptis, A. D.; Simos, T. E.) An algorithm for the solution of the eigenvalue Schrödinger equation. (Not in MR)
- Parisse, Bernard Résonances paires pour l'opérateur de Dirac. (English summary) [Even resonances for the Dirac operator] 91a:81037
- Pomorilac, B. *see* Devoto, A., 91a:81033
- Pons, Roland (with Marciilhac, Gilbert) Construction de certains potentiels pour lesquels l'équation de Schrödinger est soluble. (English summary) [Construction of certain potentials for which the Schrödinger equation is solvable] 91c:81010
- *see also* Léauté, B.; et al., 91c:81009 and 91m:81036
- Popescu, I. M. *see* Popescu, V. A., 91k:81031
- Popescu, V. A. (with Popescu, I. M.) Improvement of the convergence of the exponential perturbation theory in the Schrödinger representation by dividing the time interval. (French summary) 91k:81031
- Popov, V. S. *see* Mur, V. D., 91m:81038
- Prilipko, A. I. *see* Nikitin, A. G.; et al., 91g:81015
- Pu, Fu Ke *see* Pang, Gen Di; et al., 91h:81018
- Qian, Tie Zheng *see* Gao, Xiao Chun; et al., (Not in MR)
- Quesne, C. *see* Moshinsky, M.; et al., 91m:81037
- Raptis, A. D. *see* Papageorgiou, C. D.; et al., (Not in MR) and Cash, J. R.; et al., (Not in MR)
- Ratowsky, R. P. (with Fleck, J. A., Jr.) Treatment of angular derivatives in the Schrödinger equation by the finite Fourier series method. (Not in MR)
- Romanova, T. S. *see* Le Van Hoang; et al., 91f:81025
- Roy, Pinaki (with Roychoudhury, Rajkumar) Some observations on the nature of solutions for the interaction $V(x) = x^2 + \lambda x^2/(1 + gx^2)$. 91a:81038
- Roychoudhury, Rajkumar *see* Roy, Pinaki, 91a:81038 and Sinha, Anjana, 91f:81026
- Rudra, P. Time-dependent Schrödinger equation for a two-body system: symmetry classes of central potentials. 91h:81019
- Ruiz, E. Approximate relativistic quantum Hamiltonians for N interacting particle systems. 91h:81022
- Sakamoto, Jiro *see* Munakata, Yasuo; et al., 91e:81016
- Salas-Brito, A. L. *see* Benítez, J.; et al., 91a:81024 and (Not in MR)
- Săndulescu, A. *see* Lazanu, S., (Not in MR)
- Sanz-Serna, J. M. *see* de Frutos, J., 91f:81021
- Scarlatti, Sergio (with Teta, A.) Derivation of the time-dependent propagator for the three-dimensional Schrödinger equation with one-point interaction. 91h:81020
- Scott, Alwyn C. (with Christiansen, Peter L.) A generalized discrete self-trapping equation. 91f:81255
- Šeba, Petr *see* Dittrich, J.; et al., 91a:81034; (91j:81005) and Simon, Barry, 91a:81040
- Shaarawi, Amr M. (with Besieris, Ioannis M.; Ziolkowski, Richard W.) A novel approach to the synthesis of nondispersive wave packet solutions to the Klein-Gordon and Dirac equations. 91f:81016
- Shapovalov, A. V. *see* Bagrov, V. G.; et al., 91h:81020 and 91i:81014
- Shifman, M. A. Expanding the class of spectral problems with partial algebraization. 91h:81021
- Supersymmetric quantum mechanics and partial algebraization of the spectral problem. 91h:81022
- Shirokov, I. V. *see* Bagrov, V. G.; et al., 91h:81020 and 91i:81014
- Shishkin, G. V. (with Villalba, Víctor M.) Dirac equation in external vector fields: new exact solutions. 91a:81039
- (with Villalba, Víctor M.) Separation of variables in the Dirac equation in exterior vector fields. Curvilinear coordinates. (Russian. English summary) 91d:81017
- Simon, Barry The theory of Schrödinger operators: what's it all about? (Czech) 91a:81040
- Simos, T. E. *see* Papageorgiou, C. D.; et al., (Not in MR) and Cash, J. R.; et al., (Not in MR)
- Şimşek, Mehmet *see* Özçelik, Süleyman, 91k:81030
- Singh, C. A. (with Singh, S. B.; Singh, Kamla D.) Quantum mechanical sextic anharmonic oscillators: normalisability of wavefunctions and some exact eigenvalues. 91g:81016
- Singh, Kamla D. *see* Singh, C. A.; et al., 91g:81016
- Singh, S. B. *see* Singh, C. A.; et al., 91g:81016
- Sinha, Anjana (with Roychoudhury, Rajkumar) Exact analytical solutions for the cut-off Coulomb potential $V(r) = -Ze^2/(r + \beta)$. 91f:81026
- Skachkov, N. B. *see* Del, E. A.; et al., 91a:81015
- Skaltsas, D. *see* Jannousis, A., (Not in MR)
- Skinazi, J. *see* Léauté, B.; et al., 91c:81009
- Smits, Lieven A remark on smoothing of magnetic Schrödinger semigroups. 91k:81032
- Soukoulis, C. M. *see* Wan, Yi, 91a:81041
- Spencer, Thomas Crawford Ergodic Schrödinger operators. 91c:81011
- Stahlhofen, A. (with Bleuler, Konrad) An algebraic form of the factorization method. (Italian and Russian summaries) 91e:81012
- Streh, W.-H. (with Brits, S. J. M.; Euler, N.) Painlevé test and energy level motion. 91d:81018
- (with Heiss, W. D.) Energy eigenvalue levels and singular point analysis. 91m:81041
- Steinrück, Herbert *see* Arnold, Anton, 91a:81023
- Stolyarov, A. V. *see* Agharov, A. V., 91f:81020
- Stubbe, Joachim *see* Blanchard, Philippe, 91a:81025
- Sun, Chang Pu *see* Pu, Hong Chen, 91m:81032
- Supplee, James *see* Andrew, Keith, 91m:81029
- Sur, Sukanya *see* Brajarnani, S.; et al., (Not in MR)
- Tapp, M. C. A note on the Klein inequality. 91k:81033
- Tereshenkov, V. I. (with Tolkachev, E. A.; Tomil'chik, L. M.) Solution of the Wong equations for a particle in a one-parameter nonabelian field of monopole type. (Russian. English summary) (Not in MR)
- Teta, A. *see* Scarlatti, Sergio, 91h:81020
- Tolkachev, E. A. *see* Tereshchenkov, V. I.; et al., (Not in MR)
- Tomaras, T. N. *see* Floratos, E. G., 91h:81016
- Tomil'chik, L. M. *see* Tereshchenkov, V. I.; et al., (Not in MR)
- Trübenbacher, E. A Lorentz invariant Schrödinger equation for spin 0. 91f:81027
- Ushveridze, A. G. Quasi-exactly solvable models in quantum mechanics. 91e:81017
- Valdya, Arvind Narayan (with Boschi Filho, Henrique) Algebraic calculation of the Green's function for the Hartmann potential. 91f:81028
- *see also* Boschi Filho, Henrique, 91a:81026 and 91h:81014
- Vanden Bergh, G. *see* De Meyer, H., 91a:81032
- Varma, N. *see* Bose, Subir Kumar, 91e:81013
- Varshni, Y. P. *see* Adhikari, R.; et al., 91c:81007
- Vázquez, Luis *see* Balabane, Mikhaël; et al., 91k:81025
- Villalba, Víctor M. Separation of variables and exact solution to the Dirac equation in curvilinear orthogonal coordinates with cylindrical symmetry. 91k:81034
- *see also* Shishkin, G. V., 91a:81039 and 91d:81017
- Wan, Yi (with Soukoulis, C. M.) One-dimensional nonlinear Schrödinger equation: a nonlinear dynamical approach. 91a:81041
- Wolffardt, M. F. *see* Hislop, D.; et al., 91j:81015
- Wong, M. K. F. Exact solution of the n -dimensional Dirac-Coulomb equation. 91c:81013
- Xu, Jing Bo *see* Gao, Xiao Chun; et al., (Not in MR)
- Yamamoto, Fujio *see* Munakata, Yasuo; et al., 91e:81016
- Yannopoulos, A. *see* Hadinger, Gisèle; et al., 91m:81033
- Zaslavskii, O. B. New exact solutions of the Schrödinger equation on the basis of finite-dimensional matrices. 91e:81018
- Zhao, Bao Heng *see* Pang, Gen Di; et al., 91h:81018
- Zhdanov, R. Z. Some exact solutions of the nonlinear Dirac-Hamilton system. 91d:81019
- Ziolkowski, Richard W. *see* Shaarawi, Amr M.; et al., 91i:81016
- Znojil, Miloslav Singular anharmonicities and the analytic continued fractions. II. The potentials $V(r) = ar^2 + br^{-4} + cr^{-6}$. 91a:81042
- The generalized continued fractions and potentials of the Lennard-Jones type. 91f:81029

Items with secondary classifications in 81Q05

- Abrahamson, Leif (with Kreiss, Heinz-Otto) The initial-boundary value problem for the Schrödinger equation. 91k:35093
- Acuña, P. *see* Hohbe, A.; et al., 91f:65149
- Akrivis, Georgios D. (with Douglis, Vassilios A.) On a high-order accurate Galerkin-type full discretization of the Schrödinger equation. (see 91h:00032)

- Aksenov, A. V. (with Samarov, K. L.) Lorentz-invariant solutions of a pseudodifferential Schrödinger equation. 91d:35254
- Alber, Mark S. On integrable systems and semiclassical solutions of the stationary Schrödinger equations. 91h:58048
- Alfimov, G. L. (with It's, A. R.; Kulagin, N. E.) Modulation instability of solutions of the nonlinear Schrödinger equation. 91h:35294
- Ashbaugh, Mark S. (with Exner, Pavel) Lower bounds to bound state energies in bent tubes. 91h:35235
- Bachelot, Alain Global solutions to nonlinear Dirac equations in Minkowski space. 91h:35094
- Global existence of large amplitude solutions for Dirac-Klein-Gordon systems in Minkowski space. 91h:35093
- Global existence of large amplitude solutions for nonlinear massless Dirac equation. 91h:35211
- Bagrov, V. G. (with Gitman, D. M.) ★ Exact solutions of relativistic wave equations. 91d:35178
- Bassanelli, Giovanni On a Hamilton-Jacobi equation. 91d:35049
- Bender, Carl M. see Boettcher, Stefan, 91m:81048
- Biech, T. see Das, Anadijiban; et al., 91h:35192
- Biler, Piotr Attractors for the system of Schrödinger and Klein-Gordon equations with Yukawa coupling. (French summary) 91j:35045
- Boettcher, Stefan (with Bender, Carl M.) Nonperturbative square-well approximation to a quantum theory. 91m:81048
- Brajamani, S. (with Singh, C. A.) Single-variable realisation of the $SU(1, 1)$ spectrum generating algebra and discrete eigenvalue spectra of a class of potentials. 91h:81047
- Broadbridge, P. (with Godfrey, S. E.) Integrable heterogeneous nonlinear Schrödinger equations with dielectric loss: Lie-Bäcklund symmetries. 91m:35214
- Bulla, W. (with Trenkler, T.) The free Dirac operator on compact and noncompact graphs. 91h:81023
- Bullough, R. K. (with Pilling, D. J.; Timonen, J.) Quantum and classical statistical mechanics of integrable model in $1 + 1$ dimensions: some recent results. (see 91j:58005)
- Cazenave, Thierry (with Weissler, Fred B.) Some remarks on the nonlinear Schrödinger equation in the critical case. 91a:35149
- Chang, Qian Shun (with Wang, Guo Bin) Multigrid and adaptive algorithm for solving the nonlinear Schrödinger equation. 91c:65145
- Chen, Qing Yi A class of nonlinear Dirac systems of equations. (Chinese. English summary) 91h:35165
- Chen, Yun Mei $L^\infty(\mathbb{R}^n)$ decay for solutions to a class of Schrödinger equations. 91m:35215
- Clarkson, Peter A. (with Tuszyński, J. A.) Exact solutions of the multidimensional derivative nonlinear Schrödinger equation for many-body systems near criticality. 91h:81195
- Collas, Peter Quantum mechanics versus spectral differential geometry. 91h:58152
- Crater, H. W. (with Van Alstine, P.) Extension of two-body Dirac equations to general covariant interactions through a hyperbolic transformation. 91h:81060
- Das, Anadijiban (with Kay, Daniel) A class of exact plane wave solutions of the Maxwell-Dirac equations. 91a:35141
- (with Biech, T.; Kay, Daniel) Exact plane-wave solutions of the coupled Maxwell-Klein-Gordon equations. 91h:35192
- Degasperis, A. (with Sabatier, Pierre C.) Localized solutions of $(N + 1)$ -dimensional evolution equations. 91h:35239
- Delange, R. (with Sommen, F.; Xu, Zhen Yuan¹) Half Dirichlet problems for powers of the Dirac operator in the unit ball of \mathbb{R}^m ($m \geq 3$). 91h:35212
- Dikhamindzhya, G. V. Solution of the Cauchy problem for a one-dimensional nonstationary Dirac system. (Russian. English and Georgian summaries) 91h:35268
- Douglis, Vassilios A. see Akivis, Georgios D., (91h:00032)
- El-Haji, Ali see Kobeissi, Hafez; et al., 91h:81007
- Eskin, G. Inverse spectral problem for the Schrödinger operator with periodic magnetic and electric potentials. 91a:58193
- Esteban, Maria J. (with Lions, Pierre-Louis) Stationary solutions of nonlinear Schrödinger equations with an external magnetic field. 91c:35052
- Exner, Pavel see Ashbaugh, Mark S., 91h:35235
- Exton, Harold On a generalization of the Bessel-Clifford equation and an application in quantum mechanics. 91m:33025
- Faris, William G. (with Tsay, Woody J.) Scattering of a wave packet by an interval of random medium. 91h:81174
- Fels, M. (with Kamran, Niky) Nonfactorizable separable systems and higher-order symmetries of the Dirac operator. 91d:58264
- Friedman, R. S. (with Jamison, M. J.) A note on solving coupled second-order linear differential equations. 91h:65120
- Fusaoka, Hideo Higher-order numerical solutions of a $2 + 1d$ nonlinear Klein-Gordon equation. 91a:35153
- Fushchich, V. I. (with Shiten' V. M.; Spichak, S. V.) On a connection between solutions of Dirac and Maxwell equations. Supersymmetry of the Dirac equation. (Russian. English summary) 91h:35166
- see also Parasyuk, I. O., 91m:35217
- Georgiev, Vladimir S. Existence des solutions globales pour le système de Maxwell-Dirac. (English summary) [Existence of global solutions for the Maxwell-Dirac system] 91d:35179
- Global solution of the system of wave and Klein-Gordon equations. 91h:35165
- Gerzhikov, V. S. (with Ivanov, Mikhail Ivanov; Vaklev, Y. S.) Gauge transformations and generating operators for the quadratic bundle. 91a:58059
- Giacomini, H. J. Invariants of particle motion in one-dimensional time-dependent potentials. 91h:70012
- Glinbre, J. (with Velo, G.) The Cauchy problem for the nonlinear Klein-Gordon equation. 91c:35093
- Gitman, D. M. see Bagrov, V. G., 91d:35178
- Godfrey, S. E. see Broadbridge, P., 91m:35214
- Gu, Zhi Yu see Huang, Bo Wen; et al., 91c:70035
- Guillepé, Laurent Hamiltonien périodique de surface: désintégration de Floquet. [Periodic Hamiltonians of surfaces: Floquet disintegration] 91h:58200
- Hammer, C. L. see Weber, T. A., 91h:81192
- Hayashi, Nakao Time decay of solutions to the Schrödinger equation in exterior domains. I. II. (French summary) 91c:35081
- (with Ozawa, Tohru) Time decay for some Schrödinger equations. 91d:35197
- (with Saitoh, Saburo) Analyticity and smoothing effect for the Schrödinger equation. 91h:35054
- Smoothing effect for nonlinear Schrödinger equations in exterior domains. 91d:35198
- Heagy, J. (with Yuan, J. M.) Dynamics of an impulsively driven Morse oscillator. 91h:58207
- Heffer, B. (with Sjöstrand, Johannes) Opérateurs de Schrödinger avec champs magnétiques faibles et constants. [Schrödinger operators with constant weak magnetic fields] 91m:35069
- (with Sjöstrand, Johannes) On the link between the Schrödinger operator with magnetic field and Harper's equation. (see 91m:35005)
- Holubec, A. (with Stauffer, A. D.; Acacia, P.; Stauffer, J. A.) Asymptotic shooting method for the solution of differential equations. 91h:65149
- Huang, Bo Wen (with Gu, Zhi Yu; Qian, Shang Wu) Invariants and symmetries for a particle with a force quadratic in the velocity. 91c:70035
- Inoue, Atsushi On Hopf type functional derivative equations for $\square u + cu + bu^2 + au^3 = 0$ on $\Omega \times \mathbb{R}$. I. Existence of solutions. 91h:35319
- It's, A. R. see Alfimov, G. L.; et al., 91h:35294
- Ivanov, Mikhail Ivanov see Gerzhikov, V. S.; et al., 91a:58059
- Ivrii, V. Ya. Asymptotic behavior of eigenvalues for the two-dimensional Dirac operator with a strong magnetic field. 91h:35141
- Jameson, M. J. see Friedman, R. S., 91h:65120
- Kamran, Niky see Fels, M., 91d:58264
- Karadzhov, Georgi E. Uniform semi-classical asymptotics of the spectral function for Schrödinger operators and periodic bicharacteristics. 91j:35207
- Karpeshina, Yu. E. Perturbation theory for the Schrödinger operator with periodic nonsmooth potential. (Russian) 91h:35026
- Analytic perturbation theory for a periodic potential. 91d:47065
- Kato, Toshi Nonlinear Schrödinger equations. 91d:35202
- Kay, Daniel see Das, Anadijiban, 91a:35141 and 91h:35192
- Knop, W. (with Lauterborn, Werner) Bifurcation structure of the classical Morse oscillator. 91h:34042
- Kobeissi, Hafez (with El-Haji, Ali; Kobeissi, Majida) On the numerical integration of the Schrödinger equation for symmetrical potentials: a highly stable shooting method with the Numerov integrator. 91h:81007
- Kobeissi, Majida see Kobeissi, Hafez; et al., 91h:81007
- Kohylinski, N. A. (with Stepanov, S. S.; Tutik, R. S.) Semiclassical approach to ground states within the Klein-Gordon equation. 91h:81187
- Koiller, Jair Hannay's angles outside the adiabatic range: coupled linear oscillators near resonance. 91c:70036
- Kreiss, Heinz-Otto see Abrahamsson, Lef, 91h:35093
- Kulagin, N. E. see Alfimov, G. L.; et al., 91h:35294
- Lauterborn, Werner see Knop, W., 91h:34042
- Li, Ji Bin (with Wang, Bao Hua) Chaos and subharmonic bifurcations in the periodically forced system of phase-locked loops. 91h:58192
- Lions, Pierre-Louis see Esteban, Maria J., 91c:35052
- Lynch, Robert E. (with Mavromatis, Harry A.) N -dimensional harmonic oscillator yields monotonic series for the mathematical constant π . 91h:65044
- Mavromatis, Harry A. see Lynch, Robert E., 91h:65044
- Najman, Branko The nonrelativistic limit of the nonlinear Klein-Gordon equation. 91h:35269
- Nakamura, Akira² Cylindrical multi-soliton solutions of the Toda molecule equation and their large molecule limit of the Toda lattice. 91g:35209
- Nee, John C. Vortices in complex scalar fields. 91h:35188
- Newton, Roger G. Use of Wiener-Hopf factorization in the Schrödinger inverse scattering problem in three dimensions. 91g:35082
- Noussair, Ezzat S. (with Swanson, Charles A.) Ground states for critical semilinear scalar fields. 91h:35103
- Ortner, Norbert (with Wagner, Peter²) Some new fundamental solutions. 91c:35067
- Ozawa, Tohru see Hayashi, Nakao, 91d:35197
- Parasyuk, I. O. (with Fushchich, V. I.) A qualitative analysis of families of bounded solutions of the nonlinear three-dimensional Schrödinger equation. 91m:35217
- Pereskakov, A. V. A quantization rule for the nonlinear Schrödinger equation in an external field. (Russian) 91h:34065
- Pilling, D. J. see Bullough, R. K.; et al., (91j:58005)
- Pursey, D. L. Properties of Leach-Fleissas-Gorringe polynomials. 91g:33011
- Puzynin, I. V. see Zhanlov, T., (Not in MR)
- Qi, Yong Chang see Zhang, Jian Ze, 91h:81192
- Qian, Shang Wu see Huang, Bo Wen; et al., 91c:70035
- Revenko, I. V. see Zhdanov, R. Z., 91d:35041
- Ruskal, Mary Beth Limits on stability of positive molecular ions. 91c:81186
- Sabatier, Pierre C. Multidimensional nonlinear Schrödinger equations with exponentially confined solutions. 91h:35302
- see also Degasperis, A., 91h:35239
- Sagayan, V. G. On the completeness of a system of eigenfunctions of the Regge problem for the Dirac operator. (Russian. English and Armenian summaries) 91c:34113
- Saitoh, Saburo see Hayashi, Nakao, 91h:35081
- Samarov, K. L. see Aksenov, A. V., 91h:35254
- Scott, Alwyn C. A nonresonant discrete self-trapping system. 91h:81254
- Serov, N. I. Some conditionally invariant solutions of the Born-Infeld equation. (Russian) 91h:35270
- Shiten', V. M. On a connection between the solutions of Maxwell and Dirac equations. (Russian) 91h:35224
- see also Fushchich, V. I.; et al., 91h:35166
- Singh, C. A. see Brajmani, S., 91h:81047
- Sjöstrand, Johannes see Heffer, B., 91m:35069 and (91m:35005)
- Sobolev, Aleksandr Vladimirovich Asymptotics of the discrete spectrum of the Schrödinger

- operator in an electric and a homogeneous magnetic field. (Russian. English summary) **91f:35281**
- Sommer, F. *see* Delange, R.; et al., **91k:35212**
- Spichak, S. V. *see* Fushchich, V. L.; et al., **91k:35166**
- Stauffer, A. D. *see* Holubec, A.; et al., **91k:65149**
- Stauffer, J. A. *see* Holubec, A.; et al., **91k:65149**
- Steiner, F. (with Trillenber, P.) Refined asymptotic expansion for the partition function of unbounded quantum billiards. **91g:58286**
- Stepanov, S. S. *see* Kobylinskii, N. A.; et al., **91k:81187**
- Stogali, V. I. Group properties of integro-differential equations of Hartree type. (Russian) **91k:35272**
- Swanson, Charles A. *see* Noussair, Ezziat, **91f:35103**
- Tapali, Hasan A note on the trial function structure for the Wronskian approach. (Turkish summary) **91a:65216**
- Timonen, J. *see* Bulough, R. K.; et al., **(91j:58005)**
- Toda, Morikazu \star Nonlinear waves and solitons. **91f:35001**
- Trenkler, T. *see* Bulla, W., **91k:81023**
- Trillenber, P. *see* Steiner, F., **91g:58286**
- Tsay, Woody J. *see* Faris, William G., **91k:81174**
- Tuszyński, J. A. *see* Clarkson, Peter A., **91k:81195**
- Tutik, R. S. *see* Kobylinskii, N. A.; et al., **91k:81187**
- Vaklev, Y. S. *see* Gerdzhikov, V. S.; et al., **91a:58059**
- Van Alstine, P. *see* Crater, H. W., **91k:81060**
- Vekslershih, V. E. Dark soliton of the generalized nonlinear Schrödinger equation. **91m:35206**
- Vefler, O. A. Asymptotic formulas for Bloch functions of a multidimensional periodic Schrödinger operator and some of their applications. (Russian) **91h:35103**
- Velo, G. *see* Ginibre, J., **91c:35093**
- Villalba, Victor M. Exact solution of the Dirac equation in a reducible Einstein space. **91k:83057**
- Vallermot, Pierre-A. Periodic soliton solutions to nonlinear Klein-Gordon equations on \mathbb{R}^2 . **91d:35021**
- Wagner, Peter \star *see* Orner, Norbert, **91c:35067**
- Wang, Bao Hua *see* Li, Ji Bin, **91g:58192**
- Wang, Guo Bin *see* Chang, Qian Shun, **91k:65145**
- Weber, T. A. (with Hammer, C. L.) The one-dimensional Coulomb potential as a generalized function and the hidden $O(2)$ symmetry. **91h:81192**
- Weissler, Fred B. *see* Cazavare, Thierry, **91a:35149**
- Xia, Jingbo The Floquet theory and the state density of quasi-periodic Schrödinger operators. **91f:34140**
- Xu, Zhen Yuan \star *see* Delange, R.; et al., **91k:35212**
- Yajima, Kenji Exponential decay of quasi-stationary states of time-periodic Schrödinger equation with short range potentials. **91h:35030**
- Yang, Yisong Boundary value problems of the Ginzburg-Landau equations. **91h:35306**
- Yuan, J. M. *see* Heagy, J., **91h:58207**
- Zhang, Jian Ze (with Qi, Yong Chang) Wave functions of bound states of a fermion and a Dirac dyon and matrix elements in an external electromagnetic field. **91h:81192**
- Zhanlar, T. (with Puzynin, I. V.) \star Численное решение задачи на собственные значения, возникающей при исследовании нелинейного уравнения Шредингера с накачкой. (Russian) [Numerical solution of an eigenvalue problem that arises in studying a nonlinear Schrödinger equation with excitation] (Not in MR)
- Zhdanov, R. Z. (with Revenko, I. V.) Exact solutions of the nonlinear Dirac equation in terms of Bessel, Gauss, Legendre functions and Chebyshev-Hermite polynomials. **91d:35041**
- ### 81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
- Arai, Asao An asymptotic analysis and its application to the nonrelativistic limit of the Pauli-Fierz and a spin-boson model. **91k:81017**
- Avron, J. E. (with Howland, James S.; Simon, Barry) Adiabatic theorems for dense point spectra. **91f:81030**
- Béllissard, Jean (with Bovier, Anton; Ghez, Jean-Michel) Spectral properties of a tight binding Hamiltonian with period doubling potential. **91m:81042**
- Benguria, Rafael D. (with Yarus, Cecilia S.) Sharp condition on the decay of the potential for the absence of a zero-energy ground state of the Schrödinger equation. **91d:81020**
- Bovier, Anton *see* Béllissard, Jean; et al., **91m:81042**
- Bulla, W. (with Trenkler, T.) The free Dirac operator on compact and noncompact graphs. **91k:81023**
- Fassari, Silvestro Spectral properties of the Kronig-Penney Hamiltonian with a localized impurity. **91e:81019**
- Gérard, Christian Semiclassical resolvent estimates for two- and three-body Schrödinger operators. **91m:81043**
- Gesztesy, F. (with Holden, Helge; Šeba, Petr) On point interactions in magnetic field systems. **91m:81044**
- Ghez, Jean-Michel *see* Béllissard, Jean; et al., **91m:81042**
- Heffler, B. (with Sjöstrand, Johannes) Structure canonique du spectre de l'opérateur de Harper. [Cantor structure of the spectrum of the Harper operator] **91h:81017**
- Holden, Helge *see* Gesztesy, F.; et al., **91m:81044**
- Howland, James S. Floquet operators with singular spectrum. I, II. (French summary) **91k:81018**
- *see also* Avron, J. E.; et al., **91f:81030**
- Ichinose, Takashi Essential selfadjointness of the Weyl quantized relativistic Hamiltonian. (French summary) **91a:81043**
- Klaus, Martin On the Levinson theorem for Dirac operators. **91e:81019**
- Kuchnet, A. N. One-dimensional point interactions. **91e:81020**
- Kotani, Shinichi Jacobi matrices with random potentials taking finitely many values. **91b:81023**
- Kunz, Hervé Topological invariants associated with quasi-periodic quantum Hamiltonians. **91d:81021**
- Kuperin, Yu. A. (with Makarov, K. A.; Mel'nikov, Yu. B.) The operator method for excluding forbidden states. (Russian. English summary) **91d:81022**
- Makarov, K. A. *see* Kuperin, Yu. A.; et al., **91d:81022**
- Matsuyama, Toyoki Chern-Simons quantum mechanics. **91m:81045**
- Mel'nikov, Yu. B. *see* Kuperin, Yu. A.; et al., **91d:81022**
- Minlos, R. A. (with Shermator, M. Kh.) Point interaction of three particles. **91g:81017**
- Nagase, Michihiko (with Umeda, Tomio) Selfadjointness of quantum Hamiltonians of relativistic and nonrelativistic particles in electromagnetic fields. **91j:81018**
- Šeba, Petr *see* Gesztesy, F.; et al., **91m:81044**
- Shermator, M. Kh. *see* Minlos, R. A., **91g:81017**
- Simon, Barry (with Spencer, Thomas Crawford) Trace class perturbations and the absence of absolutely continuous spectra. **91g:81018**
- Absence of ballistic motion. **91k:81035**
- *see also* Avron, J. E.; et al., **91f:81030**
- Sjöstrand, Johannes *see* Heffler, B., **91h:81017**
- Spencer, Thomas Crawford *see* Simon, Barry, **91g:81018**
- Trenkler, T. *see* Bulla, W., **91k:81023**
- Udim, T. Schrödinger-Operatoren für Teilchen mit Spin. B. Das Spektrum. [Schrödinger operators for particles with spin. B. The spectrum] **91h:81024**
- Umeda, Tomio *see* Nagase, Michihiko, **91j:81018**
- Vugalter, S. A. (with Zhislin, G. M.) On the discrete spectrum of atoms and molecules. (see **91j:81005**)
- (with Zhislin, G. M.) Exact asymptotics of the discrete spectrum of an n -particle Schrödinger operator in symmetry spaces. **91h:81025**
- Wang, Xue Ping Bounds on widths of resonances for Stark Hamiltonians. **91k:81036**
- Yarus, Cecilia S. *see* Benguria, Rafael D., **91d:81020**
- Zhislin, G. M. *see* Vugalter, S. A., **91h:81025** and **(91j:81005)**
- ### Items with secondary classifications in 81Q10
- Armstrong, J. V. The Riemann hypothesis and the Hamiltonian of a quantum mechanical system. **91k:1072**
- Ashbaugh, Mark S. (with Benguria, Rafael D.) Optimal bounds for ratios of eigenvalues of one-dimensional Schrödinger operators with Dirichlet boundary conditions and positive potentials. **91c:34114**
- (with Harrell, Evans M., II; Svirsky, Roman) On minimal and maximal eigenvalue gaps and their causes. **91j:35201**
- Benguria, Rafael D. *see* Ashbaugh, Mark S., **91c:34114**
- Boutet de Monvel-Berthier, Anne (with Georgescu, Vladimir; Mantoiu, Marius) Mourre's theory in a Besov space setting. (French summary) **91j:47024**
- Briet, Ph. (with Combes, J. M.; Duclos, Pierre) Spectral stability under tunneling for Schrödinger operators. (see **91m:35005**)
- Burnat, Marek (with Herczyński, Jan; Zawisza, Bogdan) Perturbation properties of the spectrum of periodic Schrödinger operators. **91g:35189**
- Carlsson, Ulf An infinite number of wells in the semi-classical limit. **91k:35134**
- van Casteren, Jan A. *see* Demuth, Michael, **(91j:81005)**
- Catlin, Donald E. The Schrödinger equation via an operator functional equation. **91e:81006**
- Cirelli, Renzo (with Pizzocchero, Livio) On the integrability of quantum mechanics as an infinite-dimensional Hamiltonian system. **91k:58052**
- Combes, J. M. *see* Briet, Ph.; et al., **(91m:35005)**
- Common, A. K. (with Martin, André; Stubbe, Joachim) Preservation of logarithmic concavity by the Mellin transform and applications to the Schrödinger equation for certain classes of potentials. **91m:44001**
- Demuth, Michael (with van Casteren, Jan A.) On generalized Schrödinger semigroups and Feynman-Kac formulae. (see **91j:81005**)
- On spectral properties for regular and singular generators of Schrödinger semigroups. (see **91m:35005**)
- Dittrich, J. (with Exner, Pavel; Šeba, Petr) Dirac operators with a spherically symmetric δ -shell interaction. **91a:81034**
- Doebner, H.-D. (with Elmers, H. J.; Heidenreich, Wolfgang) On topological effects in quantum mechanics: the harmonic oscillator in the pointed plane. **91c:81041**
- Duclos, Pierre *see* Briet, Ph.; et al., **(91m:35005)**
- Egorov, Yuri Vladimirovich (with Kondrat'ev, V. A.) On the negative spectrum of elliptic operators of any order. (see **91j:81005**)
- Elmers, H. J. *see* Doebner, H.-D.; et al., **91c:81041**
- Eskin, G. Inverse spectral problem for the Schrödinger equation with periodic vector potential. **91a:35052**
- Exner, Pavel *see* Dittrich, J.; et al., **91a:81034**
- Fefferman, Charles L. (with Seco, Luis A.) Asymptotic neutrality of large ions. **91f:81249**
- Figotin, A. L. (with Pastur, L. A.) Schrödinger operator with a nonlocal potential whose absolutely continuous and point spectra coexist. **91m:35168**
- Frühlich, Jürg (with Spencer, Thomas Crawford; Wittwer, P.) Localization for a class of one-dimensional quasi-periodic Schrödinger operators. **91h:35095**
- Gashimov, I. F. On an estimate for the negative spectrum of the Schrödinger operator equation with a singularity at zero. (Russian) **91g:47038**
- Georgescu, Vladimir *see* Boutet de Monvel-Berthier, Anne; et al., **91j:47024**
- Gérard, Christian Resonance theory for periodic Schrödinger operators. (French summary) **91h:35231**
- Harrell, Evans M., II *see* Ashbaugh, Mark S.; et al., **91j:35201**
- Heidenreich, Wolfgang *see* Doebner, H.-D.; et al., **91c:81041**
- Heffler, B. (with Sjöstrand, Johannes) Puits multiples en mécanique semi-classique. VI. Cas des puits sous-variétés. (English summary) [Multiple wells in semiclassical mechanics. VI. The case of submanifold wells] **91g:58285**
- (with Sjöstrand, Johannes) Équation de Schrödinger avec champ magnétique et équation de Harper. [The Schrödinger equation with magnetic field, and the Harper equation] **91g:35078**
- Herczyński, Jan Schrödinger operators with almost periodic potentials in nonseparable Hilbert spaces. **91g:35190**
- *see also* Burnat, Marek; et al., **91g:35189**
- Howland, James S. Random perturbations of singular spectra. **91j:47010**
- Hunziker, Walter Introduction to N -body Schrödinger operators. **91h:35097**

- Ivrii, V. Ya. Exact spectral asymptotics for the Dirac operator with a strong magnetic field. 91c:35114
- Jensen, Arne² Precise resolvent estimates for Stark effect Hamiltonians. (see 91m:35005)
- Kerdellus, P. Équation de Schrödinger en dimension 2, avec potentiel et champ magnétique périodiques. Cas d'un réseau triangulaire de puits. [Schrödinger equation in dimension 2, with periodic potential and magnetic field. The case of a triangular network of wells] 91h:35098
- Kirsch, Werner Random Schrödinger operators. A course. 91h:47112
- Klopp, F. Impuretés dans une structure périodique. [Impurities in a periodic structure] 91h:35184
- Kondrat'ev, V. A. see Egorov, Yuri Vladimirovich, (91j:81005)
- Manakov, V. M. An estimate for the number of negative eigenvalues of the Schrödinger operator by means of weighted Hardy inequalities. 91j:35204
- Mantoux, Marius see Boutet de Monvel-Berthier, Anne; et al., 91j:47024
- Martin, André New results on the moments of the eigenvalues of the Schrödinger Hamiltonian and applications. 91d:81025
- see also Common, A. K.; et al., 91m:44001
- Maslov, V. P. (with Molchanov, S. A.) Spectral properties of the rare scatterers and counterexamples to the hypotheses of Schrödinger and Stekloff. 91a:81224
- Molchanov, S. A. see Maslov, V. P., 91a:81224
- Moschella, Ugo Classical limit of a quantum particle in an external Yang-Mills field. (French summary) 91e:81015
- Pastur, L. A. see Figotin, A. L., 91m:35168
- Perelman, M. A. Schrödinger operators with form-bounded potentials in L^p -spaces. (French summary) 91d:47034
- Pizzocchero, Livio see Cirelli, Benzo, 91k:58052
- Poerschke, Thomas (with Stolz, Günter; Weidmann, Joachim) Expansions in generalized eigenfunctions of selfadjoint operators. 91j:47018
- Raikov, George D. Eigenvalue asymptotics for the Schrödinger operator with homogeneous magnetic potential and decreasing electric potential. I. Behaviour near the essential spectrum tips. 91k:35188
- Rieker, Werner J. Boolean algebras of projections of uniform multiplicity one. 91d:47031
- Salt, Naim I. A note on Dirac operators. (Serbo-Croatian summary) 91h:47050
- Seba, Petr see Ditrich, J.; et al., 91a:81034 and Simon, Barry, 91a:81040
- Seco, Luis A. see Fefferman, Charles L., 91f:81249
- Simon, Barry The theory of Schrödinger operators: what's it all about? (Czech) 91a:81040
- Sjöstrand, Johannes see Helffer, B., 91g:35078 and 91g:58285
- Solovej, Jan Philip Asymptotics for bosonic atoms. 91m:81328
- Spencer, Thomas Crawford see Fröhlich, Jürg; et al., 91h:35095
- Stolz, Günter see Poerschke, Thomas; et al., 91j:47018
- Stubbe, Joachim see Common, A. K.; et al., 91m:44001
- Svirsky, Roman see Ashbaugh, Mark S.; et al., 91j:35201
- Tip, A. Form perturbations of the Laplacian on $L^2(\mathbb{R})$ by a class of measures. 91e:47034
- Vagstad, S. A. On the asymptotic behavior of the eigenvalues of many-particle Hamiltonians on spaces of functions of a given symmetry. 91d:81167
- Weber, Albin Untersuchung des wesentlichen Spektrums des Schrödingeroperators mittels eines Kapazitätsbegriffs. [Investigation of the essential spectrum of the Schrödinger operator by means of a concept of capacity] 91h:35233
- Weidmann, Joachim see Poerschke, Thomas; et al., 91j:47018
- Wittwer, P. see Fröhlich, Jürg; et al., 91h:35095
- Zawisza, Bogdan see Burnat, Marek; et al., 91g:35189
- 81Q15 Perturbation theories for operators and differential equations**
- Achuthan, P. (with Müller-Kirsten, H. J. W.; Wiedemann, Alfred) Perturbation theory and boundary conditions: analogous treatments of anharmonic oscillators and double-wells and similarly related potentials and the calculation of exponentially small contributions to eigenvalues. 91h:81026
- Aharanov, Yakir (with Ben-Reuven, E.; Popescu, Sandu; Rohlich, Daniel) Perturbative induction of vector potentials. 91h:81027
- Alvarez, Gabriel (with Sundaram, Bala) Perturbation theory for Floquet eigenvalues in a zero-range potential. 91m:81046
- Antoine, Michel (with Comtet, Alain; Knecht, Marc) Heat kernel expansion for fermionic billiards in an external magnetic field. 91h:81028
- Arai, Asao A general class of (essentially) iso-spectral perturbations. 91m:81047
- Bender, Carl M. see Boettcher, Stefan, 91m:81048
- Ben-Reuven, E. see Aharanov, Yakir; et al., 91h:81027
- Berry, M. V. Histories of adiabatic quantum transitions. 91e:81021
- Bessis, G. see Bessis, N., 91f:81031
- Bessis, N. (with Bessis, G.) Perturbed ladder operator method: an algebraic recursive solution of perturbed wave equations. 91f:81031
- Boettcher, Stefan (with Bender, Carl M.) Nonperturbative square-well approximation to a quantum theory. 91m:81048
- Bose, Subir Kumar (with Dubey, U. B.; Varma, N.) Study of certain aspects of anharmonic, time-dependent and damped harmonic oscillator systems. 91h:81024
- Chandhuri, R. N. (with Mondal, M.) Improved Hill determinant method: general approach to the solution of quantum anharmonic oscillators. 91m:81049
- Comtet, Alain see Antoine, Michel; et al., 91h:81028
- Del Re, Giuseppe (with Liegener, Christoph-M.) Second-order expression of Born probabilities by partitioning and Laplace transform methods. (Not in MR)
- Dragović, Branko G. p -adic perturbation series and adelic summability. 91m:81050
- Dubey, U. B. see Bose, Subir Kumar; et al., 91h:81024
- Fee, G. J. see Scott, T. C.; et al., 91h:81025 and 91f:81034
- Geddes, K. O. see Scott, T. C.; et al., 91f:81034
- Giannozzi, Paolo (with Grosso, Giuseppe; Moroni, Saverio; Pastori Parravicini, Giuseppe) The ordinary and matrix continued fractions in the theoretical analysis of Hermitian and relaxation operators [Appl. Numer. Math. 4 (1988), no. 2-4, 273-295; MR 89g:81111]. (see 91m:41002)
- Grigore, D. R. (with Nenciu, G.; Purice, R.) On the nonrelativistic limit of the Dirac Hamiltonian. (French summary) 91h:81029
- Grosso, Giuseppe see Giannozzi, Paolo; et al., (91m:41002)
- Hagedorn, George A. Multiple scales and the time-independent Born-Oppenheimer approximation. 91d:81023
- Adiabatic expansions near eigenvalue crossings. 91c:81014
- Helffer, B. (with Sjöstrand, Johannes) Analyse semi-classique pour l'équation de Harper (avec application à l'équation de Schrödinger avec champ magnétique). (English summary) [Semiclassical analysis of the Harper equation (with application to the Schrödinger equation with magnetic field)] 91d:81024
- Herczyński, Jan Nekhoroshev type estimates for quantum propagators. 91f:81032
- Hervé, Michel see Hervé, Rose-Marie, 91m:81051
- Hervé, Rose-Marie (with Hervé, Michel) A mathematical treatment for a perturbation of the one-dimensional harmonic oscillator. 91m:81051
- Iftatis, E. K. (with Panagopoulos, P. N.) Applications of the differentiability of eigenvectors and eigenvalues to a perturbed harmonic oscillator. 91g:81019
- Knecht, Marc see Antoine, Michel; et al., 91h:81028
- Labahn, George see Scott, T. C.; et al., 91f:81034
- Liegener, Christoph-M. see Del Re, Giuseppe, (Not in MR)
- Martinez, André Développements asymptotiques et effet tunnel dans l'approximation de Born-Oppenheimer. (English summary) [Asymptotic expansions and tunnel effect in the Born-Oppenheimer approximation] 91e:81022
- Monagan, M. B. see Scott, T. C.; et al., 91h:81025 and 91f:81034
- Mondal, M. see Chandhuri, R. N., 91m:81049
- Moore, R. A. see Scott, T. C.; et al., 91h:81025 and 91f:81034
- Moroni, Saverio see Giannozzi, Paolo; et al., (91m:41002)
- Muilenburg, Lawrence see Shivamoggi, Bhimsen K., 91m:81053
- Müller-Kirsten, H. J. W. see Achuthan, P.; et al., 91h:81026
- Mur, V. D. (with Popov, V. S.; Sergeev, A. V.) The $1/N$ expansion in quantum mechanics. 91m:81052
- Nardini, Franco Approximation of Schrödinger eigenvalues and eigenfunctions by canonical perturbation theory: the periodically driven quantum rotator. 91a:81044
- Nenciu, G. see Grigore, D. R.; et al., 91h:81029
- Neveu, A. Variational improvement of perturbation theory and/or perturbative improvement of variational calculations. (see 91k:81005)
- Panagopoulos, P. N. see Iftatis, E. K., 91g:81019
- Pastori Parravicini, Giuseppe see Giannozzi, Paolo; et al., (91m:41002)
- Patnaik, Pravat Kumar Anharmonic oscillator. 91h:81030
- Popescu, Sandu see Aharanov, Yakir; et al., 91h:81027
- Popov, V. S. see Mur, V. D.; et al., 91m:81052
- Purice, R. see Grigore, D. R.; et al., 91h:81029
- Rath, Biswanath Ground-state energy of $H = P^2 + 2X^2 + 2\sqrt{2}\lambda X^3 + \lambda X^4$ for $\lambda \ll 1$. 91f:81033
- Rohlich, Daniel see Aharanov, Yakir; et al., 91h:81027
- Scott, T. C. (with Moore, R. A.; Fee, G. J.; Monagan, M. B.; Labahn, George; Geddes, K. O.) Perturbative solutions of quantum mechanical problems by symbolic computation: a review. 91f:81034
- (with Moore, R. A.; Monagan, M. B.; Fee, G. J.; Vrsay, Edward R.) Perturbative solutions of quantum mechanical problems by symbolic computation. 91h:81025
- Sergeev, A. V. see Mur, V. D.; et al., 91m:81052
- Shivamoggi, Bhimsen K. (with Muilenburg, Lawrence) On Lewis' exact invariant for the linear harmonic oscillator with time-dependent frequency. 91m:81053
- Sjöstrand, Johannes see Helffer, B., 91d:81024
- Srivastava, Sanita (with Vishwamittar) Application of perturbation theory to the damped sextic oscillator. 91m:81054a
- (with Vishwamittar) Erratum: "Application of perturbation theory to the damped sextic oscillator". 91m:81054b
- Sundaram, Bala see Alvarez, Gabriel, 91m:81046
- Varma, N. see Bose, Subir Kumar; et al., 91h:81024
- Vishwamittar see Srivastava, Sanita, 91m:81054a and 91m:81054b
- Vrsay, Edward R. see Scott, T. C.; et al., 91h:81025
- Wiedemann, Alfred see Achuthan, P.; et al., 91h:81026
- Znojil, Miloslav ★ Anharmonic oscillator in the new perturbative picture. 91a:81045
- The perturbative method of Hill determinants. 91h:81031
- Items with secondary classifications in 81Q15**
- Albeverio, Sergio (with Brasche, Johannes; Röckner, Michael) Dirichlet forms and generalized Schrödinger operators. 91c:47103
- Arai, Asao Perturbation of embedded eigenvalues: a general class of exactly soluble models in Fock spaces. 91c:47025
- Barton, Gabriel (with Bray, A. J.; McKane, A. J.) The influence of distant boundaries on quantum mechanical energy levels. 91h:81027
- Benfatto, G. (with Gallavotti, G.) Perturbation theory of the Fermi surface in a quantum liquid. A general quasiparticle formalism and one-dimensional systems. 91j:82007
- Bolsterli, M. Canonical transformation method for static-source meson Hamiltonians. 91m:81322
- Boya, Luis J. (with Casahorran, Javier) General scalar bidimensional models including kinks. 91k:81158
- Brasche, Johannes see Albeverio, Sergio; et al., 91c:47103
- Bray, A. J. see Barton, Gabriel; et al., 91h:81027
- Briet, Ph. (with Combes, J. M.; Duclos, Pierre) Spectral stability under tunneling. 91c:35154
- Casahorran, Javier see Boya, Luis J., 91k:81158
- Cheremshantsev, S. E. Asymptotic completeness and the absence of bound states in the quantum problem of scattering by a Brownian particle. 91d:81151
- Combes, J. M. see Briet, Ph.; et al., 91c:35154
- Devote, A. (with Pomorik, B.) Raising and lowering operators for nonsymmetric Hamiltonians. (Italian and Russian summaries) 91a:81033
- Duclos, Pierre see Briet, Ph.; et al., 91c:35154
- Gallavotti, G. see Benfatto, G., 91j:82007

- Gérard, Christian Resonance theory in atom-surface scattering. 91a:81222
- Goncharov, N. V. Bilocal variables in the physics of condensed media. 91g:82028
- Grosche, Christian Path integrals for potential problems with δ -function perturbation. 91m:81117
- Guha, Partha see Roy Chowdhury, A., 91g:58129
- Heifler, B. (with Sjöstrand, Johannes) Analyse semi-classique pour l'équation de Harper. II. Comportement semi-classique près d'un rationnel. (English summary) [Semiclassical analysis for Harper's equation. II. Semiclassical behavior near a rational number] 91k:35018
- Herczyński, Jan Semiclassical limit for perturbations of nonresonant rotators. (French summary) 91m:81058
- Hunziker, Walter Resonances, metastable states and exponential decay laws in perturbation theory. 91k:81200
- Klinkhamer, F. R. Sphalerons, deformed sphalerons and configuration space. 91c:81175
- Li, Fu Bin Improvements on the perturbed harmonic oscillator ladder operator method in nonlinear quantum field theory and laser theory. (Chinese. English summary) 91a:81036
- McKane, A. J. see Bartos, Gabriel; et al., 91k:81027
- Mur, V. D. (with Popov, V. S.) The $1/\alpha$ expansion and coherent states. 91m:81038
- Pomeroy, B. see Devoto, A., 91a:81033
- Popov, V. S. see Mur, V. D., 91m:81038
- Rickner, Michael see Alberverio, Sergio; et al., 91c:47103
- Roychowdhury, Rajkumar (with Varshni, Y. P.; Sengupta, Manasi) Family of exact solutions for the Coulomb potential perturbed by a polynomial in r . 91c:81016
- Roy Chowdhury, A. (with Guha, Partha) On perturbed and supersymmetric quantum KdV equations. 91g:58129
- Sengupta, Manasi see Roychowdhury, Rajkumar; et al., 91c:81016
- Simon, Barry Absence of ballistic motion. 91k:81035
- Sjöstrand, Johannes see Heifler, B., 91k:35018
- Varshni, Y. P. see Roychowdhury, Rajkumar; et al., 91c:81016
- Verbaarschot, J. J. M. (with West, Peter C.; Wu, Tai Tsun) $N = 4$ supersymmetric quantum mechanics and its large order behaviour. 91b:81033
- West, Peter C. see Verbaarschot, J. J. M.; et al., 91b:81033
- Wu, Tai Tsun see Verbaarschot, J. J. M.; et al., 91b:81033
- ### 81Q20 Semiclassical techniques including WKB and Maslov methods
- Asch, J. On the classical limit of Berry's phase integrable systems. 91c:81023
- Bellissard, Jean (with Vittot, Michel) Heisenberg's picture and noncommutative geometry of the semiclassical limit in quantum mechanics. (French summary) 91f:81035
- Belov, V. V. (with Maslov, V. P.) Quasiclassical trajectory-coherent states in quantum mechanics with gauge fields. 91g:81020
- Berry, M. V. Budden & Smith's "additional memory" and the geometric phase. 91m:81055
- Delabaere, Eric (with Dillinger, Hervé; Pham, Frédéric) Développements semi-classiques exacts des niveaux d'énergie d'un oscillateur à une dimension. (English summary) [Exact semiclassical expansions of the energy levels of a one-dimensional oscillator] 91f:81036
- Delaney, David (with Nieto, Michael Martin) SUSY-WKB is neither exact nor never worse than WKB for all solvable potentials. 91k:81037
- Dillinger, Hervé see Delabaere, Eric; et al., 91f:81036
- Fowler, Michael (with Frahm, Holger) Quantization conditions for the periodic Toda chain: inadequacy of Bethe-ansatz methods. 91c:81024
- Frahm, Holger see Fowler, Michael; et al., 91c:81024
- Freed, Denise (with Harvey, Jeffrey A.) Instantons and the spectrum of Bloch electrons in a magnetic field. 91g:81021
- Geeta, Z. Dačić (with Stroud, C. R., Jr.) Classical and quantum-mechanical dynamics of a quasiclassical state of the hydrogen atom. 91h:81032
- Gérard, Christian (with Robert, Didier) La limite semi-classique de la phase de Berry. (English summary) [On the semiclassical limit of Berry's phase] 91m:81056
- Güler, S. Rules for matrix element evaluation in JWKB approximation. 91m:81057
- Harvey, Jeffrey A. see Freed, Denise, 91g:81021
- Herczyński, Jan Semiclassical limit for perturbations of nonresonant rotators. (French summary) 91m:81058
- Ingolfsson, Ketill Harmonic analysis of the semi-classical limit. 91j:81019
- Kay, Kenneth G. Hamiltonian formulation of quantum mechanics with semiclassical implications. 91m:81059
- Martin, André New results on the moments of the eigenvalues of the Schrödinger Hamiltonian and applications. 91d:81025
- Maslov, V. P. see Belov, V. V., 91g:81020
- Meyer, R. E. Observable tunneling in several dimensions. 91m:81060
- Molzahn, F. H. see Saksena, A.; et al., 91m:81061
- Nieto, Michael Martin see Delaney, David, 91k:81037
- Osborn, T. A. see Saksena, A.; et al., 91m:81061
- Pham, Frédéric see Delabaere, Eric; et al., 91f:81036
- Robert, Didier see Gérard, Christian, 91m:81056
- Saksena, A. (with Osborn, T. A.; Molzahn, F. H.) An asymptotic analysis of quantum evolution with electromagnetic fields. 91m:81061
- Steinrück, Herbert Asymptotic analysis of the quantum Liouville equation. 91h:81033
- Stroud, C. R., Jr. see Geeta, Z. Dačić, 91h:81032
- Vittot, Michel see Bellissard, Jean, 91f:81035
- Voros, A. Wentzel-Kramers-Brillouin method in the Bargmann representation. 91a:81046
- Items with secondary classifications in 81Q20
- Achuthan, P. (with Müller-Kirsten, H. J. W.; Wiedemann, Alfred) Perturbation theory and boundary conditions: analogous treatments of anharmonic oscillators and double-wells and similarly related potentials and the calculation of exponentially small contributions to eigenvalues. 91h:81026
- Adachi, Satoshi A numerical evaluation of the semiclassical coherent state path integral. 91a:81089
- Alessandrini, V. Hamiltonian BRST quantisation and semiclassical perturbation theory. (see 91j:81003)
- Bagchi, Bijan Kumar see Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
- Bagrov, V. G. (with Belov, V. V.; Maslov, V. P.) The method of quasiclassical trajectory-coherent states in the theory of spontaneous electron radiation. 91h:81189
- Bartels, Jochen (with Raabe, Bernd; Wu, Tai Tsun) Semiclassical analysis of the weak-coupling limit of SU(2) lattice gauge theory: the extreme infrared region. 91m:81173
- Belov, V. V. see Bagrov, V. G.; et al., 91h:81189
- Berk, H. L. see Kull, H. J.; et al., 91c:78020
- CIAR Cosmology Program see Unruh, W. G.; et al., 91m:81119
- Galett, D. see Mizrahi, S. S., 91d:81166
- Gönül, Bülent see Kasap, Ergün; et al., 91f:81045
- Gozzi, E. (with Reuter, M.) Classical mechanics as a topological field theory. 91m:58062
- Habib, Salman (with Laflamme, Raymond) Wigner function and decoherence in quantum cosmology. 91f:83025
- Heifler, B. (with Sjöstrand, Johannes) Puits multiples en mécanique semi-classique. V. Étude des minipuits. [Multiple wells in semiclassical mechanics. V. Study of miniwells] (see 91m:35003)
- (with Robert, Didier) Riesz means of bounded states and semi-classical limit connected with a Lieb-Thirring conjecture. II. (French summary) 91k:35183
- Li, Kiyotaka see Yoshioka, Akira, 91f:81077
- Karadzhov, Georgi E. A complete asymptotic of the spectral function for harmonic oscillator. 91b:35242
- Asymptotique semi-classique uniforme de la fonction spectrale d'opérateurs de Schrödinger. (English summary) [Uniform semiclassical asymptotics of the spectral function for some Schrödinger operators] 91c:35165
- Karadzhov, M. V. Connections on Lagrangian submanifolds and some problems in quasiclassical approximation. I. (Russian) 91f:58050
- Kasap, Ergün (with Gönül, Bülent; Şimşek, Mehmet) Supersymmetric WKB solutions for pseudoharmonic and Mie-type potentials. 91f:81045
- Kashuba, R. J. see Kull, H. J.; et al., 91c:78020
- Keating, Jonathan Peter Semiclassical properties of the cat maps. 91g:58191
- Knauf, Andreas Coulombic periodic potentials: the quantum case. 91f:81039
- Kobylinski, N. A. (with Stepanov, S. S.; Tutik, R. S.) The \hbar -expansion for Regge trajectories. I. The Schrödinger equation. 91g:81169
- Kull, H. J. (with Kashuba, R. J.; Berk, H. L.) WKB theory of wave tunneling for Hermitian and nearly Hermitian vector systems of integral equations. 91c:78020
- Laflamme, Raymond see Habib, Salman, 91f:83025
- Lahiri, Anuradha (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Supersymmetry in quantum mechanics. 91g:81028a
- (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Erratum: "Supersymmetry in quantum mechanics". 91g:81028b
- Lebeuf, P. (with Saraceno, M.) Structure of eigenfunctions in terms of classical trajectories in an SU(3) schematic shell model. 91c:81122
- Maslov, V. P. see Bagrov, V. G.; et al., 91h:81189
- Misra, Takashi A path integral for a nonrelativistic spinor particle. 91h:81074
- Mizrahi, S. S. (with Galett, D.) Squeezed states phase space representation and semiclassical approximations in many-body systems. 91d:81166
- Müller-Kirsten, H. J. W. see Achuthan, P.; et al., 91h:81026
- Odinstov, S. D. Dual symmetry in a bosonic membrane at nonzero temperature? 91h:81127
- Parise, Bernard Liens entre les résonances pour l'opérateur de Dirac et de Schrödinger. [Connections between the resonances of the Dirac and Schrödinger operators] 91h:35101
- Perlt, Holger (with Pohle, Hans-Jürgen) Wave packets with dissipation in minisuperspace. 91k:35045
- Picken, R. F. The Duistermaat-Heckman integration formula on flag manifolds. 91j:58067
- Pohle, Hans-Jürgen see Perlt, Holger, 91k:35045
- Raabe, Bernd see Bartels, Jochen; et al., 91m:81173
- Reuter, M. Maslov index in Chern-Simons quantum mechanics. 91j:58178
- see also Gozzi, E., 91m:58062
- Robert, Didier (with Tamura, Hideo) Asymptotic behavior of scattering amplitudes in semi-classical and low energy limits. (French summary) 91c:35116
- see also Heifler, B., 91k:35183
- Roy, Prodyot Kumar see Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
- Saraceno, M. see Lebeuf, P., 91c:81122
- Seco, Luis A. (with Sigal, I. M.; Solovej, Jan Philip) Bound on the ionization energy of large atoms. 91m:81327
- Sigal, I. M. see Seco, Luis A.; et al., 91m:81327
- Şimşek, Mehmet see Kasap, Ergün; et al., 91f:81045
- Sjöstrand, Johannes see Heifler, B., 91k:35018 and 91m:35003
- Solovej, Jan Philip Asymptotics for bosonic atoms. 91m:81328
- see also Seco, Luis A.; et al., 91m:81327
- Stepanov, S. S. see Kobylinski, N. A.; et al., 91g:81169
- Tamura, Hideo see Robert, Didier, 91c:35116
- Tutik, R. S. see Kobylinski, N. A.; et al., 91g:81169
- Unruh, W. G. (with CIAR Cosmology Program; Weiss, Nathan) Momentum boundary conditions and Euclidean field theory. 91m:81119
- Wang, Xue Ping Time-delay operators in semiclassical limit, finite range potentials. 91b:35087
- Time-delay operators in semiclassical limit. II. Short-range potentials. 91b:35088
- Weiss, Nathan see Unruh, W. G.; et al., 91m:81119
- Wiedemann, Alfred see Achuthan, P.; et al., 91h:81026
- Wu, Tai Tsun see Bartels, Jochen; et al., 91m:81173
- Yoshioka, Akira (with Li, Kiyotaka) The quantization condition in the presence of a magnetic field and quasiclassical eigenvalues of the Kepler problem with a centrifugal potential and Dirac's monopole field. 91f:81077

81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [see also 14D05, 32S40]

Zaslavskii, A. I. Ramification of massless Feynman integrals around a Landau surface. 91h:81034

Items with secondary classifications in 81Q30

Davies, K. T. R. (with Davies, R. W.; White, G. D.) Dispersion relations for causal Green's functions: derivations using the Poincaré-Bertrand theorem and its generalizations. 91h:81179

— (with Davies, R. W.; White, G. D.) Erratum: "Dispersion relations for causal Green's functions: derivations using the Poincaré-Bertrand theorem and its generalizations" [J. Math. Phys. 31 (1990), no. 6, 1356–1373; MR 91h:81179]. (Not in MR)

Davies, R. W. see Davies, K. T. R.; et al., 91h:81179 and (Not in MR)

van Oldenborgh, G. J. (with Vermaseren, J. A. M.) New algorithms for one-loop integrals. 91a:81063

Vermaseren, J. A. M. see van Oldenborgh, G. J., 91a:81063

White, G. D. see Davies, K. T. R.; et al., 91h:81179 and (Not in MR)

Zav'yalov, O. I. ★ Renormalized quantum field theory. 91k:81110

Zwiebach, Barton Consistency of closed string polyhedra from minimal area. 91h:81132

81Q40 Bethe-Salpeter and other integral equations

Fushchich, V. I. (with Nikitin, A. G.) On the new constants of motion for two- and three-particle equations. 91e:81025

Nikitin, A. G. see Fushchich, V. I., 91e:81025

81Q50 Quantum chaos [see also 58F13]

Adachi, Satoshi Complex classical mechanics and quantum chaos. (see 91h:58001)

— see also Toda, Mikito; et al., 91g:81025

Anchell, James L. Quantum and classical descriptions of position and phase-space densities of a model Hamiltonian. 91d:81026

Arovas, Daniel P. see Leburuf, P.; et al., 91k:81038

Aurich, R. (with Steiner, F.) Energy-level statistics of the Hadamard-Gutzwiller ensemble. 91f:81037

Bernstein, Lisa Joan (with Eilbeck, J. C.; Scott, Alwyn C.) The quantum theory of local modes in a coupled system of nonlinear oscillators. 91e:81026

Boletin, Yu. L. (with Chekanov, N. A.; Gonchar, V. Yu.; Markovskii, B. L.; Tarasov, V. N.; Vinitskii, S. I.) ★ Quantum spectra of nonintegrable classical systems in transition to chaos region. (Not in MR)

— (with Vinitskii, S. I.; Gonchar, V. Yu.; Markovskii, B. L.; Tarasov, V. N.; Chekanov, N. A.) Stochasticity in the spectra of some Hamiltonian systems with a discrete symmetry. 91f:81062

Caurier, E. (with Grammaticos, B.; Ramani, A.) Level repulsion near integrability: a random matrix analogy. (Not in MR)

Chang, Shao-Jin (with Shi, Kang Jie) Quantum tunneling through Kolmogorov-Arnold-Moser curves. 91g:81022

Chekanov, N. A. see Boletin, Yu. L.; et al., 91m:81062 and (Not in MR)

Christiansen, Peter L. see Feddersen, H.; et al., (Not in MR)

Contopoulos, G. see Fournargiotakis, M.; et al., 91f:81038

Ding, Ming Zhou (with Grebogi, Celso; Ott, Edward; Yorke, James A.) Transition to chaotic scattering. 91m:81063

Dittrich, T. (with Graham, Robert) Quantum chaos. 91d:81027

Eilbeck, J. C. see Bernstein, Lisa Joan; et al., 91e:81026

Farantos, S. C. see Fournargiotakis, M.; et al., 91f:81038

Feddersen, H. (with Christiansen, Peter L.; Salerno, Mario) Quantum chaos in the discrete self-trapping equation in the presence of Arnold diffusion. (Not in MR)

Feingold, Mario see Leburuf, P.; et al., 91k:81038

Feng, Da Huan see Zhang, Wei Min; et al., 91m:81064

Fournargiotakis, M. (with Farantos, S. C.; Contopoulos, G.; Polymilis, C.) Periodic orbits, bifurcations, and quantum mechanical eigenfunctions and spectra. 91f:81038

Fox, Ronald F. (with Lan, Boon Leong) Chaos and the correspondence limit in the periodically kicked pendulum. 91b:81026

— Chaos, molecular fluctuations, and the correspondence limit. 91g:81023

Gaspard, Pierre (with Rice, Stuart A.) Erratum: "Semiclassical quantization of the scattering from a classically chaotic repeller" [J. Chem. Phys. 90 (1989), no. 4, 2242–2254; MR 90i:81168]. 91e:81027

Goggin, M. E. (with Sundaram, Bala; Milonni, P. W.) Quantum logistic map. 91e:81015

Gonchar, V. Yu. see Boletin, Yu. L.; et al., 91m:81062 and (Not in MR)

Graham, Robert see Dittrich, T., 91d:81027

Grammaticos, B. see Caurier, E.; et al., (Not in MR)

Grebogi, Celso see Ding, Ming Zhou; et al., 91m:81063

Hasegawa, Hiroshi (with Robnik, Marko; Wunner, Günter) Classical and quantum chaos in the diamagnetic Kepler problem. 91g:81024

Hegerfeldt, Gerhard C. (with Henneberg, Ralph) Quantum chaos in hydrogen: dynamical-group approach and a resonance anomaly in the Brody parameter. 91a:81047

Henneberg, Ralph see Hegerfeldt, Gerhard C., 91a:81047

Ikedo, Kensuke see Toda, Mikito; et al., 91g:81025

Israel, F. M. Simple models of quantum chaos: spectrum and eigenfunctions. (Not in MR)

Knauf, Andreas Coulombic periodic potentials: the quantum case. 91f:81039

Kurchan, Jorge see Leburuf, P.; et al., 91k:81038

Lan, Boon Leong see Fox, Ronald F., 91b:81026

Leburuf, P. (with Saraceno, M.) Eigenfunctions of nonintegrable systems in generalised phase spaces. 91f:81020

— (with Voros, A.) Chaos-revealing multiplicative representation of quantum eigenstates. 91f:81021

— (with Kurchan, Jorge; Feingold, Mario; Arovas, Daniel P.) Phase-space localization: topological aspects of quantum chaos. 91k:81038

Marcinek, Roman see Zakrzewski, Jakub, (Not in MR)

Markovskii, B. L. see Boletin, Yu. L.; et al., 91m:81062 and (Not in MR)

Milonni, P. W. see Goggin, M. E.; et al., 91e:81015

Müller, Gerhard see Srivastava, Niraj, 91f:81043 and 91h:81036

Ott, Edward see Ding, Ming Zhou; et al., 91m:81063

Ozorio de Almeida, Alfredo M. On the quantisation of homoclinic motion. 91f:81040

Polymilis, C. see Fournargiotakis, M.; et al., 91f:81038

Ramani, A. see Caurier, E.; et al., (Not in MR)

Rice, Stuart A. see Gaspard, Pierre, 91e:81027

Robbins, Jonathan M. Discrete symmetries in periodic-orbit theory. 91a:81048

Robnik, Marko see Hasegawa, Hiroshi; et al., 91g:81024

Roychoudhury, Rajkumar (with Varshni, Y. P.; Sengupta, Manasi) Family of exact solutions for the Coulomb potential perturbed by a polynomial in r . 91e:81016

Salerno, Mario see Feddersen, H.; et al., (Not in MR)

Saraceno, M. Classical structures in the quantized baker transformation. 91f:81041

— see also Leburuf, P., 91f:81020

Scott, Alwyn C. see Bernstein, Lisa Joan; et al., 91e:81026

Šeba, Petr Quantum chaos in the Fermi-accelerator model. 91b:81027

— Wave chaos in singular quantum billiard. 91b:81028

Sengupta, Manasi see Roychoudhury, Rajkumar; et al., 91e:81016

Shi, Kang Jie see Chang, Shao-Jin, 91g:81022

Sieber, M. (with Steiner, F.) Classical and quantum mechanics of a strongly chaotic billiard system. 91h:81035

— (with Steiner, F.) Quantum chaos in the hyperbolic billiard. 91f:81042

Sinai, Ya. G. Some mathematical problems in the theory of quantum chaos. 91a:81049

Srivastava, Niraj (with Müller, Gerhard) Quantum images of Hamiltonian chaos. 91f:81043

— (with Müller, Gerhard) Quantum and classical spin clusters: disappearance of quantum numbers and Hamiltonian chaos. 91h:81036

Steiner, F. see Aurich, R., 91f:81037; Sieber, M., 91f:81042 and 91h:81035

Sundaram, Bala see Goggin, M. E.; et al., 91e:81015

Takahashi, Kin'ya Similarity and essential difference between coarse-grained classical and quantum mechanics. 91a:81050

— Distribution functions in classical and quantum mechanics. 91a:81051

Tarasov, V. N. see Boletin, Yu. L.; et al., 91m:81062 and (Not in MR)

Toda, Mikito (with Adachi, Satoshi; Ikeda, Kensuke) Dynamical aspects of quantum-classical correspondence in quantum chaos. 91g:81025

Varshni, Y. P. see Roychoudhury, Rajkumar; et al., 91e:81016

Vinitskii, S. I. see Boletin, Yu. L.; et al., 91m:81062 and (Not in MR)

Voros, A. Selected topics on "quantum chaos". 91f:81022

— see also Leburuf, P., 91f:81021

Weigert, St. The configurational quantum cat map. 91g:81026

Wunner, Günter see Hasegawa, Hiroshi; et al., 91g:81024

Yorke, James A. see Ding, Ming Zhou; et al., 91m:81063

Yuan, Jian-Min see Zhang, Wei Min; et al., 91m:81064

Zakrzewski, Jakub (with Marcinek, Roman) Adiabatic mechanism of wave-function localization in the globally chaotic system. (Not in MR)

Zhang, Wei Min (with Feng, Da Huan; Yuan, Jian-Min) Integrability and nonintegrability of quantum systems. II. Dynamics in quantum phase space. 91m:81064

Życzkowski, Karol Indicators of quantum chaos based on eigenvector statistics. 91h:81039

Items with secondary classifications in 81Q50

Bilimel, R. (with Smilansky, U.) A simple model for chaotic scattering. II. Quantum mechanical theory. 91h:58075

Broderix, Kurt (with Heldt, Nils; Leschke, Hajo) Weyl-invariant random Hamiltonians and their relation to translational-invariant random potentials on Landau levels. 91m:82064

Burlatskii, S. F. (with Oshanin, G. S.; Mogutov, A. V.) Direct energy transfer in polymer systems. (Not in MR)

Chang, Shao-Jin (with Perez, Gabriel) Classical and semiclassical eigenstates of the Chirikov map. 91f:81055

Collas, Peter Quantum mechanics versus spectral differential geometry. 91f:81052

Ferrer, Sebastián (with Marco, María J.; Osácar, Carlos; Palacián, Jesús F.) "Rigid body in torque-free rotation" pattern in a model of quartic coupled oscillators and its bifurcations. 91j:70009

de Godoy, N. F. (with Graham, Robert; Wreszinski, Walter F.) Quantisation of the Kaplan-Yorke model. 91a:81058

Graham, Robert see de Godoy, N. F.; et al., 91a:81058

Gutzwiller, Martin C. ★ Chaos in classical and quantum mechanics. 91m:58099

Heldt, Nils see Broderix, Kurt; et al., 91m:82064

Jayaraman, J. (with de Lima Rodrigues, Rafael) The Wigner-Heisenberg algebra as an effective operator technique for simpler spectral resolution of general oscillator-related potentials and the connection with the SUSYQM algebra. 91f:81025

Jones, Kingsley R. W. Entropy of random quantum states. (Not in MR)

Kesting, Jonathan Peter Semiclassical properties of the cat maps. 91g:58191

Kibler, M. (with Winternitz, Pavel) Periodicity and quasi-periodicity for super-integrable Hamiltonian systems. 91g:70015

Knaab, Stefan On the quantisation of Arnold's cat. 91f:81086

Leschke, Hajo see Broderix, Kurt; et al., 91m:82064

de Lima Rodrigues, Rafael see Jayaraman, J., 91f:81025

Marco, María J. see Ferrer, Sebastián; et al., 91j:70009

Meyer, Paul-André New examples of "chaotic" representation. 91a:60142

Mogutov, A. V. see Burlatskii, S. F.; et al., (Not in MR)

Muramatsu, Kazuhiko The cranked elliptical billiard problem and chaos. (Japanese. English summary) 91a:58117

Narnhofer, Helge K -automorphisms in quantum theory. 91j:46085

Osácar, Carlos see Ferrer, Sebastián; et al., 91j:70009

Oshanin, G. S. see Burlatskii, S. F.; et al., (Not in MR)

Palacián, Jesús F. see Ferrer, Sebastián; et al., 91j:70009

Pellegrinotti, A. Errata: "Evidence for the Poisson distribution for quasi-energies in the quantum kicked-rotator model" [J. Statist. Phys. 53 (1988), no. 5-6, 1327–1336].

91d:28037

- Perez, Gabriel *see* Chang, Shao-Jin, 91f:58105
 Smilansky, U. *see* Büchel, R., 91h:58075
 Wintermiz, Pavel *see* Kibler, M., 91g:70015
 Wresinski, Walter F. *see* de Godoy, N. F.; et al., 91a:81058

81Q60 Supersymmetric quantum mechanics

- Andrianov, A. A. (with Ioffe, M. V.) From supersymmetric quantum mechanics to a parasupersymmetric one. 91m:81065
 Aral, Asao Existence of infinitely many zero-energy states in a model of supersymmetric quantum mechanics. 91c:81017
 Bagchi, Bijan Kumar *see* Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
 Bandes, I. A. A superparticle in Lorentz-harmonic superspace. 91m:81066
 Bandyopadhyay, Pratap Holomorphic quantum mechanics, conformal reflection and the internal symmetry of hadrons. 91g:81027
 Beckers, J.-M. (with Debergh, N.) On the Lie extended method in quantum physics and its supersymmetric version. 91a:81052
 — (with Debergh, N.) A note on recent Lie parasuperstructures. 91k:81040
 — (with Debergh, N.) Supersymmetry, Foldy-Wouthuysen transformations, and relativistic oscillators. 91f:81044
 Bollé, D. (with Dupont, Patrick Jean; Grosse, H.) On the general structure of supersymmetric quantum mechanical models. 91h:81029
 Cao, Xue-Chuan Odd potentials in supersymmetric quantum mechanics. 91d:81028
 Cerveró, José M. Supersymmetric quantum mechanics: another nontrivial quantum superpotential. 91k:81041
 Cheng, K. M. (with Fung, P. C. W.) Evolution of a quantum system with supersymmetry broken by an additional potential. 91k:81042
 Debergh, N. *see* Beckers, J.-M., 91a:81052; 91f:81044 and 91k:81040
 Dupont, Patrick Jean *see* Bollé, D.; et al., 91h:81029
 Durand, Stéphane (with Vinet, Luc) Conformal parasupersymmetry in quantum mechanics. 91h:81030
 Freedman, Daniel Z. (with Mende, Paul F.) An exactly solvable N -particle system in supersymmetric quantum mechanics. 91k:81043
 Fung, P. C. W. *see* Cheng, K. M., 91k:81042
 Gönlü, Bülent *see* Kasap, Ergin; et al., 91f:81045
 Grosse, H. *see* Bollé, D.; et al., 91h:81029
 Imbo, Tom D. *see* Wang, Qin Mou; et al., 91b:81034
 Ioffe, M. V. *see* Andrianov, A. A., 91m:81065
 Ivanov, Evgenii Alekseevich² (with Krivonos, S.; Leviant, V.) Geometric superfield approach to superconformal mechanics. 91d:81029
 Kasap, Ergin (with Gönlü, Bülent; Şimşek, Mehmet) Supersymmetric WKB solutions for pseudoharmonic and Mie-type potentials. 91f:81045
 Keung, Wai-Yee *see* Wang, Qin Mou; et al., 91b:81034
 Khudaverdyan, O. M. *see* Nersisyan, A. P., 91g:81029
 Krivonos, S. *see* Ivanov, Evgenii Alekseevich²; et al., 91d:81029
 Křitavý, D. V. Functional integral in supersymmetric quantum mechanics. 91k:81044
 Lahiri, Anuradha (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Supersymmetry in quantum mechanics. 91g:81028a
 — (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Erratum: "Supersymmetry in quantum mechanics". 91g:81028b
 Leviant, V. *see* Ivanov, Evgenii Alekseevich²; et al., 91d:81029
 Martinez, Rodolfo *see* Moreno, Matias; et al., 91k:81018
 Martinez y Romero, R. P. (with Vargas, C. A.; Salas-Brito, A. L.; Núñez Yépez, H. N.) Note on supersymmetry in quantum mechanics and the hydrogen atom in one dimension. (Spanish summary) 91d:81030
 Mathur, Manu Symmetries and ground states of $N = 2$ SUSY Wess-Zumino quantum mechanics. (Not in MR)
 Mende, Paul F. *see* Freedman, Daniel Z., 91k:81043
 Merkel, U. Switching properties of supersymmetric quantum mechanics. (Italian and Russian summaries) 91b:81031
 Moreno, Matias (with Martinez, Rodolfo; Zentella, Arturo) Supersymmetry, Foldy-Wouthuysen transformation and stability of the Dirac sea. 91c:81018
 Mufti, Asif Ali *see* Schmitt, H. A., (Not in MR)
 Nersisyan, A. P. (with Khudaverdyan, O. M.) Superspaces with two canonical 2-formations of different parities, and the strange superalgebra $U\tilde{Q}(N)$. (Russian. English and Armenian summaries) 91g:81029
 Nishiooka, Michio Remarks on Witten's model of supersymmetric quantum mechanics. 91a:81053
 Núñez Yépez, H. N. *see* Martinez y Romero, R. P.; et al., 91d:81030
 O'Connor, Michael Path integrals, stochastic differential equations and operator ordering in supersymmetric quantum mechanics. 91g:81030
 Plyushchal, M. S. Relativistic Zitterbewegung: the model of spinning particles without Grassmann variables. 91c:81019
 Roy, Barnana *see* Roy, Pinaki; et al., 91a:81054 and 91c:81020
 Roy, Pinaki (with Roy, Barnana; Roychoudhury, Rajkumar) Partial algebraization of spectral problems and supersymmetry. 91a:81054
 — (with Roy, Barnana; Roychoudhury, Rajkumar) Hill determinants, supersymmetry and partial algebraization. 91c:81020
 Roy, Prodyot Kumar Remarks on supersymmetric quantum mechanics and the radial Schrödinger equation. 91b:81032
 — *see also* Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
 Roychoudhury, Rajkumar *see* Roy, Pinaki; et al., 91a:81054 and 91c:81020
 Salas-Brito, A. L. *see* Martinez y Romero, R. P.; et al., 91d:81030
 Schmitt, H. A. (with Mufti, Asif Ali) Noncompact orthosymplectic supersymmetry: an example from $N = 1$, $d = 1$ supersymmetric quantum mechanics. (French summary) (Not in MR)
 Şimşek, Mehmet *see* Kasap, Ergin; et al., 91f:81045
 Spector, Donald Supersymmetry and the Möbius inversion function. 91a:81055
 Sukhatme, Uday P. *see* Wang, Qin Mou; et al., 91b:81034

Vargas, C. A. *see* Martinez y Romero, R. P.; et al., 91d:81030

- Verbaarschot, J. J. M. (with West, Peter C.; Wu, Tai Tsun) $N = 4$ supersymmetric quantum mechanics and its large order behaviour. 91b:81033
 — (with West, Peter C.; Wu, Tai Tsun) Large-order behavior of the supersymmetric anharmonic oscillator. 91f:81046

Vinet, Luc *see* Durand, Stéphane, 91h:81030

Wang, Qin Mou (with Sukhatme, Uday P.; Keung, Wai-Yee; Imbo, Tom D.) Solitons from supersymmetry. 91b:81034

West, Peter C. *see* Verbaarschot, J. J. M.; et al., 91b:81033 and 91f:81046Wu, Tai Tsun *see* Verbaarschot, J. J. M.; et al., 91b:81033 and 91f:81046Zentella, Arturo *see* Moreno, Matias; et al., 91c:81018

Items with secondary classifications in 81Q60

- van Baal, Pierre An introduction to topological Yang-Mills theory. 91h:58035
 Baulieu, Laurent (with Singer, Isadore) The topological sigma model. 91b:81153
 Beckers, J.-M. (with Debergh, N.; Hussin, V.; Sciarrino, A.) On unitary Lie superalgebras from the spin-orbit supersymmetrisation procedure. 91k:17004
 Birmingham, Danny (with Rakowski, Mark T.) The β -function in topological sigma models. 91f:81074
 Brooks, Roger The spectrum of topological quantum field theories on N -manifolds. 91d:81148
 Chaudhuri, R. N. (with Mondal, M.) Improved Hill determinant method: general approach to the solution of quantum anharmonic oscillators. 91m:81049
 Debergh, N. *see* Beckers, J.-M.; et al., 91k:17004
 Delaney, David (with Nieto, Michael Martin) SUSY-WKB is neither exact nor never worse than WKB for all solvable potentials. 91k:81037
 Green, Michael B. (with Hull, Christopher M.) Quantum mechanics of a twisted superparticle. 91h:81172
 Hull, Christopher M. *see* Green, Michael B., 91h:81172
 Hussin, V. *see* Beckers, J.-M.; et al., 91k:17004
 Léval, G. A class of exactly solvable potentials related to the Jacobi polynomials. 91m:81303
 Merkel, U. A note on parasupersymmetry algebra. (Not in MR)
 Mondal, M. *see* Chaudhuri, R. N., 91m:81049
 Nieto, Michael Martin *see* Delaney, David, 91k:81037
 O'Connor, Michael Supersymmetry and point canonical transformations in the path integral. 91c:81037
 Pashnev, A. I. (with Sorokin, D. P.) $n = 4$ superfield description of relativistic spinning particle mechanics. 91m:81080
 Rakowski, Mark T. *see* Birmingham, Danny, 91f:81074
 Roychoudhury, Rajkumar *see* Sinha, Anjana, 91f:81026
 Sciarrino, A. *see* Beckers, J.-M.; et al., 91k:17004
 Shifman, M. A. Supersymmetric quantum mechanics and partial algebraization of the spectral problem. 91h:81022
 Singer, Isadore *see* Baulieu, Laurent, 91b:81153
 Sinha, Anjana (with Roychoudhury, Rajkumar) Exact analytical solutions for the cut-off Coulomb potential $V(r) = -Ze^2/(r + \beta)$. 91f:81026
 Sorokin, D. P. *see* Pashnev, A. I., 91m:81080

81Q99 None of the above, but in this section

- Aharonov, Yakir *see* Anandan, Jeeva, 91h:81037
 Al-Jaber, Sami M. (with Henneberger, Walter C.) The restricted rotor: the effect of topology on quantum mechanics. 91d:81031
 Anandan, Jeeva Geometric phase for cyclic motions and the quantum state space metric. 91c:81028
 — (with Aharonov, Yakir) Geometry of quantum evolution. 91h:81037
 Antolin, J. Maximum entropy formalism and analytic extrapolation. 91a:81056
 Arefeva, I. Ya. (with Frampton, Paul H.) Beyond Planck energy to non-Archimedean geometry. 91m:81067
 Arodz, H. (with Babiuch, A.) Examples of nonabelian connections induced in adiabatic processes. 91a:81057
 Arovas, Daniel P. Topics in fractional statistics. (see 91h:81004)
 Arvon, J. E. (with Sadun, Lorenzo; Segert, Jan; Simon, Barry) Chern numbers, quaternions, and Berry's phases in Fermi systems. 91c:81029
 Babiuch, A. *see* Arodz, H., 91a:81057
 Barnett, Stephen M. (with Pegg, D. T.) Quantum theory of rotation angles. 91f:81047
 Berry, M. V. The quantum phase, five years after. (see 91h:81004)
 — Fringes decorating anticaustics in ergodic wavefunctions. 91b:81035
 — Geometric amplitude factors in adiabatic quantum transitions. 91k:81045
 — *see also* Mondragon, R. J., 91f:81049
 Bogachev, E. N. (with Krive, I. V.; Rozhavskii, A. S.) Aharonov-Bohm oscillations in relativistic Fermi and Bose systems. 91d:81032
 Brihaye, Yves (with Giler, S.; Kosiński, Piotr; Masłanka, Paweł) A note on nonintegrable phases and coherent states. 91f:81023
 Cheng, Cho-Ming (with Fung, P. C. W.) Analysis of Berry's phase by the evolution operator method. 91d:81033
 Christian, Joy (with Shimony, Abner) The relation between the Aharonov-Anandan phase and the Berry phase in a simple model. (see 91m:81004)
 Cha, Shih-I *see* Layton, Eric; et al., 91a:81060
 Dąbrowski, Ludwik (with Jadczyk, A.) Quantum statistical holonomy. 91b:81036
 — (with Grosse, H.) On quantum holonomy for mixed states. 91c:81021
 Dandoloff, Rössen Berry's phase and Fermi-Walker parallel transport. 91d:81034
 Dattoli, G. (with Mignani, R.; Torre, Amalia) Geometrical phase in the cyclic evolution of non-Hermitian systems. (Not in MR)
 Derbov, V. L. *see* Vinitskii, S. I.; et al., 91h:81045
 Dewey, T. G. Fractal quantum propagators. 91h:81038
 Dubovik, V. M. *see* Vinitskii, S. I.; et al., 91h:81045
 Dubrovina, B. A. (with Marmo, G.; Simoni, A.) Alternative Hamiltonian description for quantum systems. 91h:81039

- Durand, Stéphane (with Vinet, Luc) Dynamical parasuperalgebras and harmonic oscillators. **91g:81031**
- Fertig, H. A. Traversal-time distribution and the uncertainty principle in quantum tunneling. **91h:81040**
- Flynn, William G. see Littlejohn, Robert G. (Not in MR)
- Frampont, Paul H. see Arefeva, I. Ya. **91m:81067**
- Fung, P. C. W. see Cheng, Cho-Ming. **91d:81033**
- Ge, Mo Lin see Sun, Chang Pu. (Not in MR)
- Giavarini, G. (with Gozzi, E.; Rohrich, Daniel; Thacker, W. D.) On the removability of Berry's phase. **91e:81030**
- Giler, S. (with Kosiński, Piotr; Szymanowski, Lech) Erratum: "The geometrical properties of Berry's phase" [Internat. J. Modern Phys. A 4 (1989), no. 6, 1453-1465; MR 90j:81067]. **91h:81041**
- see also Brihaye, Yves; et al. **91e:81023**
- de Godoy, N. F. (with Graham, Robert; Wreszinski, Walter F.) Quantisation of the Kaplan-Yorke model. **91a:81058**
- Gorbatschik, A. K. An operator of generalized momentum in nonrelativistic quantum mechanics. (Russian. English summary) **91a:81059**
- Gozzi, E. see Giavarini, G.; et al. **91e:81030**
- Graham, Robert see de Godoy, N. F.; et al. **91a:81058**
- Grigorenko, A. N. Geometrical phase and thermodynamics. **91h:81042**
- Grosse, H. see Dąbrowski, Ludwik. **91c:81021**
- Gurvitz, S. A. (with Marinov, Michael) Quantum interference effect in decay rate of metastable systems. **91h:81043**
- Haake, Fritz see Lenz, Georg. **91j:81022**
- He, Jian E. A form of adiabatic hypothesis and its application. (Chinese. English summary) **91g:81032**
- Henneberger, Walter C. see Al-Jaber, Sami M. **91d:81031**
- Herdegen, Andrzej Geometric structure of quantum-mechanical evolution. **91e:81031**
- Huang, You Hong see Layton, Eric; et al. **91a:81060**
- Jadczyk, A. see Dąbrowski, Ludwik. **91b:81036**
- Jordan, Thomas F. Probing Weinberg's nonlinear quantum mechanics. (Not in MR)
- Jurčo, Branislav Quantum integrable multi-three-wave interaction models. **91b:81037**
- Khrennikov, A. Yu. Schrödinger and Bargmann-Fock representations in non-Archimedean quantum mechanics. **91h:81046**
- Quantum mechanics over non-Archimedean number fields. **91g:81033**
- Kobe, Donald H. Invariance of the generalised Berry phase under unitary transformations: application to the time-dependent generalised harmonic oscillator. **91j:81020**
- Kosiński, Piotr see Giler, S.; et al. **91h:81041** and Brihaye, Yves; et al. **91e:81023**
- Krive, I. V. see Bogachev, E. N.; et al. **91d:81032**
- Layton, Eric (with Huang, You Hong; Chu, Shih-I) Cyclic quantum evolution and Aharonov-Anandan geometric phases in SU(2) spin-coherent states. **91a:81060**
- Leach, P. G. L. Berry's phase and wavefunctions for time-dependent Hamilton systems. **91j:81021**
- Lenz, Georg (with Haake, Fritz) Transitions between universality classes of random matrices. **91j:81022**
- Leroy, L. Particle in a p -adic box. **91f:81048**
- Lévy, P. Geometrical description of SU(2) Berry phases. **91b:81038**
- Littlejohn, Robert G. (with Flynn, William G.) Geometric phases and the Bohr-Sommerfeld quantization of multicomponent wave fields. (Not in MR)
- Lucha, Wolfgang (with Schöberl, Franz F.) Relativistic virial theorem. **91d:81035**
- Maasmache, M. (with Provost, J.-P.; Vallée, G.) Berry's phase, Hannay's angle and coherent states. **91m:81068**
- (with Provost, J.-P.; Vallée, G.) Berry's phase and Hannay's angle from quantum canonical transformations. **91m:81069**
- Marinov, Michael see Gurvitz, S. A. **91h:81043**
- Markovskii, B. L. see Vinitskii, S. I.; et al. **91h:81045**
- Marmo, G. see Dubrovín, B. A.; et al. **91h:81039**
- Martínez, José Chan Fermion determinants and the Berry phase. **91d:81036**
- Maślanka, Paweł see Brihaye, Yves; et al. **91e:81023**
- Maurice, Yannick A path integral formulation of p -adic quantum mechanics. **91j:81023**
- Mignani, R. see Dattoli, G.; et al. (Not in MR)
- Mondragon, R. J. (with Berry, M. V.) The quantum phase 2-form near degeneracies: two numerical studies. **91f:81049**
- Moore, D. J. (with Stedman, G. E.) Nonadiabatic Berry phases for periodic Hamiltonians. **91d:81037**
- Berry phases and Hamiltonian time dependence. **91m:81070**
- Nauenberg, Michael Autocorrelation function and quantum recurrence of wavepackets. **91f:81050**
- Pegg, D. T. see Barnett, Stephen M. **91f:81047**
- Phyabchal, M. S. Relativistic model of the anyon. **91h:81024**
- Relativistic particle with arbitrary spin in a non-Grassmannian approach. **91j:81024**
- Pollet, Michael see Salisbury, Donald C. **91g:81034**
- Provost, J.-P. see Maasmache, M.; et al. **91m:81068** and **91m:81069**
- Rohrich, Daniel see Giavarini, G.; et al. **91e:81030**
- Rozhavskii, A. S. see Bogachev, E. N.; et al. **91d:81032**
- Sadun, Lorenzo see Avron, J. E.; et al. **91e:81029**
- Salisbury, Donald C. (with Pollet, Michael) Quantum relativistic action at a distance. **91g:81034**
- Salmistraro, F. Quantum evolution and invariant subspaces. (Italian and Russian summaries) **91j:81025**
- Schöberl, Franz F. see Lucha, Wolfgang. **91d:81035**
- Schwerdtfeger, P. (with Silberbach, H.) Erratum: "Multicenter integrals over long-range operators using Cartesian Gaussian functions" [Phys. Rev. A (3) 37 (1988), no. 8, 2834-2842; MR 89b:81258]. **91d:81038**
- Seger, Jan see Avron, J. E.; et al. **91e:81029**
- Sergeenko, M. N. On the asymptotics of Legendre polynomials. (Russian) **91h:81044**
- Sherry, G. C. A generalized phase space for classical fermions arising out of Schönberg's geometric algebras. **91h:81039**
- Shimony, Ahner see Christian, Joy. (91m:81004)
- Silberbach, H. see Schwerdtfeger, P. **91d:81038**
- Simon, Barry see Avron, J. E.; et al. **91e:81029**
- Simoni, A. see Dubrovín, B. A.; et al. **91h:81039**
- Soni, S. K. q -analogues of some prototype Berry phase calculations. **91m:81071**
- Stedman, G. E. see Moore, D. J. **91d:81037**
- Stepanovskii, Yu. P. see Vinitskii, S. I.; et al. **91h:81045**
- Šťovíček, P. The Green function for the two-solenoid Aharonov-Bohm effect. **91a:81061**
- Sun, Chang Pu (with Zhang, Lin Zhi) Berry phase factors in moving frames of reference and their observable physical effects. (Chinese. English summary) **91g:81035**
- The topological action associated with the Berry phase and its nonadiabatic effects. (Chinese. English summary) (Not in MR)
- (with Ge, Mo Lin) The structure of dynamical Lie algebras of quantum systems and the Berry phase factor. (Chinese) (Not in MR)
- Szymanowski, Lech see Giler, S.; et al. **91h:81041**
- Thacker, W. D. see Giavarini, G.; et al. **91e:81030**
- Torre, Amalia see Dattoli, G.; et al. (Not in MR)
- Uhlmann, Armin Parallel transport and holonomy along density operators. **91g:81036**
- Vallée, G. see Maasmache, M.; et al. **91m:81068** and **91m:81069**
- Vinet, Luc see Durand, Stéphane. **91g:81031**
- Vinitskii, S. I. (with Derbov, V. L.; Dubovik, V. M.; Markovskii, B. L.; Stepanovskii, Yu. P.) Topological phases in quantum mechanics and polarization optics. **91h:81045**
- Vladimirov, V. S. (with Volovich, I. V.; Zelenov, E. I.) Spectral theory in p -adic quantum mechanics and representation theory. **91f:81052**
- (with Volovich, I. V.; Zelenov, E. I.) Spectral theory in p -adic quantum mechanics and the theory of representations. **91f:81051**
- Volovich, I. V. see Vladimirov, V. S.; et al. **91f:81051** and **91f:81052**
- Wang, Shun Jian Nonadiabatic Berry's phase for a quantum system with a dynamical semisimple Lie group. **91m:81072**
- Nonadiabatic Berry's phase for a spin particle in a rotating magnetic field. **91m:81073**
- Wreszinski, Walter F. see de Godoy, N. F.; et al. **91a:81058**
- Wu, Yihren Berry's phase and the planar three-body problem. **91h:81040**
- Classical nonabelian Berry's phase. **91h:81041**
- Zelenov, E. I. see Vladimirov, V. S.; et al. **91f:81051** and **91f:81052**
- Zhang, Lin Zhi see Sun, Chang Pu. **91g:81035**

Items with secondary classifications in 81Q99

- de Aguiar, Marcus A. M. see Ozaio de Almeida, Alfredo M. **91h:58090**
- Anghel, N. The two-dimensional magnetic field problem revisited. **91g:58272**
- Apolloni, Bruno (with Carvalho, Maria Conceição V.; de Falco, Diego) Quantum stochastic optimization. **91a:90137**
- Argyres, E. N. (with Papadopoulos, C. G.; Papantonopoulos, E.; Tamvakis, K.) Quantum dynamical aspects of two-dimensional spaces of constant negative curvature. **91a:81143**
- Béllissard, Jean États localisés du rotateur pulsé. [Localized states of a pulsed rotator] **91j:35196**
- Bhandari, Rajendra Classical light waves and spinors. **91a:78017**
- Carvalho, Maria Conceição V. see Apolloni, Bruno; et al. **91a:90137**
- de Falco, Diego see Apolloni, Bruno; et al. **91a:90137**
- Fan, Hong Yi (with VanderLinde, J.) Simple construction of the unitary operator to transform from individual particles to Jacobi coordinates. **91m:81107**
- Gibbons, Gary W. (with Ruiz Ruiz, Fernando; Vachaspati, Tanmay) The nonrelativistic Coulomb problem on a cone. **91d:81155**
- Gliklikh, Yu. E. ★ Анализ на римановых многообразиях и задачи математической физики. (Russian) [Analysis on Riemannian manifolds and problems in mathematical physics] **91j:58031**
- Gudder, Stanley see Marbeau, Jocelyne. **91a:60173**
- Gutzwiller, Martin C. Fractals in classical mechanics. **91d:58074**
- Iwai, Toshihiro On the Guichardet/Berry connection. **91m:53057**
- Jackiw, R. Dynamical symmetry of the magnetic vortex. **91g:81173**
- Kamefuchi, S. see Omote, M.; et al. **91e:81041**
- Khrennikov, A. Yu. Mathematical methods in non-Archimedean physics. **91h:46128**
- Kitsada, Hiroshi Fundamental solutions and eigenfunction expansions for Schrödinger operators. III. Complex potentials. **91e:35159**
- Kuperin, Yu. A. (with Merkur'ev, S. P.; Yarevskii, E. A.) Three-body quantum system on a line: wave function asymptotics for increasing interactions. **91j:81098**
- Lebowitz, Joel L. see Nielaba, P.; et al. **91e:82043**
- Li, Hao Ming see Reichl, L. E. **91h:81159**
- Lucquias, J.-C. Généralisation covariante des polynômes d'Hermite et des polynômes de Gegenbauer. [Covariant generalization of Hermite and Gegenbauer polynomials] **91d:33030**
- Makhan'kov, V. G. ★ Soliton phenomenology. **91m:35204**
- Marbeau, Jocelyne (with Gudder, Stanley) Analysis of a quantum Markov chain. (French summary) **91e:60173**
- Marsden, Jerrold E. (with Montgomery, R.; Ratiu, Tudor S.) Reduction, symmetry, and phases in mechanics. **91h:58074**
- Marshall, E. R. see Nikam, R. S.; et al. **91f:81247**
- Merkur'ev, S. P. see Kuperin, Yu. A.; et al. **91j:81098**
- Montgomery, R. see Marsden, Jerrold E.; et al. **91h:58074**
- Moody, John (with Shapere, Alfred; Wilczek, Frank) Adiabatic effective Lagrangians. (see **91h:81004**)
- Narnhofer, Heide (with Thirring, W.) Quantum K -systems. **91f:46089**
- Nielaba, P. (with Lebowitz, Joel L.; Spohn, Herbert; Vallée, J. L.) Behavior of a quantum particle in contact with a classical heat bath. **91e:82043**
- Nikam, R. S. (with Ring, P.; Sun, Y.; Marshall, E. R.) Berry's phase on a quantized path. An example from nuclear physics. **91f:81247**
- Ohnuki, Yoshio see Omote, M.; et al. **91e:81041**
- Ohya, Masanori Some aspects of quantum information theory and their applications to irreversible processes. **91e:94008**
- Olaussen, Kåre (with Solie, Roger) Fractional quantum Hall effect on the 2-sphere: a state-counting analysis. **91h:81195a**
- see also Solie, Roger. **91h:81195b**

- Omote, M. (with Kamefuchi, S.; Takahashi, Yasushi; Ohnuki, Yoshio) Galilean covariance and the Schrödinger equation. 91b:81041
- Ozorio de Almeida, Alfredo M. (with de Aguiar, Marcus A. M.) Periodic librations and their effect on the quantum energy spectrum. 91b:8090
- Papadopoulos, C. G. see Argyres, E. N.; et al., 91a:81143
- Papantonopoulos, E. see Argyres, E. N.; et al., 91a:81143
- Ratiu, Tudor S. see Marsden, Jerrold E.; et al., 91b:80074
- Reichl, L. E. (with Li, Hao Ming) Self-similarity in quantum dynamics. 91b:81159
- Repka, Joe (with Wildberger, Norman) Invariant measure on sums of symmetric 3×3 matrices with specified eigenvalues. 91k:15022
- Ring, P. see Nikam, R. S.; et al., 91b:81247
- Ringhofer, Christian A spectral method for the numerical simulation of quantum tunneling phenomena. 91c:65074
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., 91d:81155
- Shaper, Alfred see Moody, John; et al., (91b:81004)
- Sellie, Roger (with Olausen, Kåre) Fractional quantum Hall effect on the 2-sphere: a case study of symmetry reduction. 91b:81195b
- see also Olausen, Kåre, 91b:81195a
- Spohn, Herbert see Nirlaba, P.; et al., 91c:82043
- Sun, Y. see Nikam, R. S.; et al., 91b:81247
- Takahashi, Yasushi see Omote, M.; et al., 91c:81041
- Tamvakis, K. see Argyres, E. N.; et al., 91a:81143
- Thirring, W. see Narasch, Heide, 91d:46089
- Urbanke, H. Physical holonomy, Thomas precession, and Clifford algebra. 91b:83005
- Vachaspati, Tammy see Gibbons, Gary W.; et al., 91d:81155
- Vallès, J. L. see Nirlaba, P.; et al., 91c:82043
- VanderLinde, J. see Fan, Hong Yi, 91m:81107
- Vichnevetsky, Robert A quantum-like theory of wave propagation in periodic structures. 91d:65144
- Weinstein, Alan D. Connections of Berry and Hannay type for moving Lagrangian submanifolds. 91k:58046
- Wilczek, Frank see Moody, John; et al., (91b:81004)
- Wildberger, Norman see Repka, Joe, 91k:15022
- Yarevskii, E. A. see Kuperin, Yu. A.; et al., 91j:81098

81Rxx Groups and algebras in quantum theory

81R05 Representations of finite-dimensional groups and algebras motivated by physics [see also 20C35, 22E70]

- Allanikas, Sigitas Explicit orthonormal Clebsch-Gordan coefficients of $SU(3)$. 91b:81046
- Bars, Itzhak (with Teng, Zhong-jian) The unitary irreducible representations of $SU(2, 1)$. 91g:81037
- Barut, Asim O. (with Bracken, A. J.) The remarkable algebra $so^*(2n)$, its representations, its Clifford algebra and potential applications. 91c:81022
- Berej, W. see Szpikowski, S., 91m:81001
- Bora, Shuchi (with Chandola, H. C.; Rajput, Balwant Singh) Realizations of generators of complex angular momentum. (French summary) 91m:81074
- Bracken, A. J. see Barut, Asim O., 91c:81022
- Brajamani, S. (with Singh, C. A.) Single-variable realisation of the $SU(1, 1)$ spectrum generating algebra and discrete eigenvalue spectra of a class of potentials. 91k:81047
- Chandola, H. C. see Bora, Shuchi; et al., 91m:81074
- Chen, Jin Quan * Group representation theory for physicists. 91b:81047
- Chen, Qi Ming see Zeng, Min Yong; et al., 91b:81044
- Danos, Michael (with Gillet, Vincent) * Angular momentum calculus in quantum physics. 91m:81075
- Dimakis, Aristophanes A new representation of Clifford algebras. 91c:81032
- Dobel, Jan Recurrence relations for harmonic oscillator brackets. 91m:81076
- Doebner, H.-D. (with Tolar, J.) Symmetry and topology of the configuration space and quantization. (see 91m:81007)
- (with Heidenreich, Wolfgang) Indecomposable representations in de Sitter spacetime. 91m:81077
- Drayner, J. P. see Lopez-Peña, R.; et al., 91b:81048
- Frolor, A. M. The selfadjoint representations of the algebra $O(2, 1)$ in Coulomb many-body problems. Bound states. 91c:81033
- Gavrilik, A. M. (with Klimyk, A. U.) Indecomposable and irreducible representations of the group $U(n, 1)$ and dynamical symmetry. 91k:81048
- Gillet, Vincent see Danos, Michael, 91m:81075
- Gould, M. D. (with Paldus, Josef) Spin-dependent unitary group approach. I. General formalism. 91b:81053
- Gromov, N. A. * Контракция и аналитические продолжения классических групп. Единый подход. (Russian) [Contractions and analytic continuations of the classical groups. A unified approach] 91m:81078
- (Hanmermesh, Morton) see Chen, Jin Quan, 91b:81047
- Hecht, K. T. A new vector coherent-state construction of $SU(3) \supset SO(3)$ Wigner coefficients. 91g:81038
- Heidenreich, Wolfgang see Doebner, H.-D., 91m:81077
- Hess, P. O. see Lopez-Peña, R.; et al., 91b:81048
- Judd, B. R. (with Leavitt, R. C.; Lister, G. M. S.) $6-j$ symbols for $SO(2l+1)$ and a structural analysis in terms of atomic quasiparticles. 91b:81042
- Klimyk, A. U. see Gavrilik, A. M., 91k:81048
- Krupnikova, N. B. Schemes for transformation and symmetrization of the hyperspherical basis for few-body systems. 91m:81079
- Leavitt, R. C. see Judd, B. R.; et al., 91b:81042
- Liu, Hai Lun Evaluation of the $U(n)$ generator matrix elements in the noncanonical basis adapted to $U(n_1 + n_2) \supset U(n_1) \oplus U(n_2)$. (Chinese. English summary) 91k:81049
- Lister, G. M. S. see Judd, B. R.; et al., 91b:81042
- Lopez-Peña, R. (with Hess, P. O.; Rochford, P.; Drayner, J. P.) Young diagrams as Kronecker products of symmetric or antisymmetric components. 91b:81048
- Loyola, G. see Moshinsky, M.; et al., 91k:81050
- Mirman, R. Unitary-group canonical representations. (French summary) 91d:81039
- Moshinsky, M. (with Loyola, G.; Villegas, C.) Anomalous basis for representations of the Poincaré group. 91k:81050
- Mu, Yi see Zeng, Min Yong; et al., 91b:81044
- Mukunda, N. see Simon, Rajiah, (Not in MR)
- Paldus, Josef see Gould, M. D., 91b:81053
- Pan, Feng The matrix representation of U_4 in the $U_2 \times U_2$ basis and some isoscalar factors for $U_{p+q} \supset U_p \times U_q$. 91d:81040
- Pashnev, A. I. (with Sorokin, D. P.) $n = 4$ superfield description of relativistic spinning particle mechanics. 91m:81080
- Raicher, P. P. (with Smirnov, Yu. F.) On the generalization of Molien functions to supergroups. 91k:81051
- Rajput, Balwant Singh see Bora, Shuchi; et al., 91m:81074
- Rochford, P. see Lopez-Peña, R.; et al., 91b:81048
- Sannikov, S. S. (with Uvarov, I. I.) Nonstandard representations of Heisenberg algebras, and hidden parameters. (Russian. English summary) 91d:81041
- Simon, Rajiah (with Mukunda, N.) $SO(n, 1)$ Wigner rotation as an $SL(2, R)$ problem. (Not in MR)
- Singh, C. A. see Brajamani, S., 91k:81047
- Smirnov, Yu. F. see Raicher, P. P., 91k:81051
- Sorokin, D. P. see Pashnev, A. I., 91m:81080
- Szpikowski, S. (with Berej, W.) A new physical basis for the irreducible representations of the orthogonal group $SO(5)$ in the quasi-spin formalism. 91m:81081
- Temme, F. P. Symmetry-adapted Liouville space. IX. The role of scalar invariants and lexical combinatorics over a field in the derivation of explicit $[kq(\vec{K}\vec{K})(k_1 - k_2); (\vec{\lambda}, \vec{\lambda}_2)]$ tensor bases under $\mathcal{F}_4/SO(3)$ duality. 91k:81043
- Teng, Zhong-jian see Bars, Itzhak, 91g:81037
- Tolar, J. see Doebner, H.-D., 91m:81007
- Uvarov, I. I. see Sannikov, S. S., 91d:81041
- Villegas, C. see Moshinsky, M.; et al., 91k:81050
- Wybourne, B. G. Symmetrized powers of the fundamental irrep of E_6 . 91b:81054
- Zeng, Min Yong (with Mu, Yi; Chen, Qi Ming) The "symmetry group" of the $3j$ and $6j$ symbols and its closure property. (Chinese. English summary) 91b:81044

Items with secondary classifications in 81R05

- Angles, P. Algèbres de Clifford du groupe pseudo-unitaire $U(p, q)$ et du groupe spécial symplecto-quaternionien $SO^*(2n)$. (English summary) [Clifford algebras of the pseudo-unitary group $U(p, q)$ and the symplecto-quaternionic special group $SO^*(2n)$] 91c:15021
- Bacry, Henri A unitary representation of $SL(2, R)$. 91b:33022
- Balachandran, A. P. (with Bourdeau, Michelle Hilda; Jo, S.-G.) Braid statistics for the sources of the nonabelian Chern-Simons term. 91k:81089a
- (with Bourdeau, Michelle Hilda; Jo, S.-G.) Errata: "Braid statistics for the sources of the nonabelian Chern-Simons term". 91k:81089b
- Basu, Dehabrata (with Kar, T. K.) A class of integral transforms associated with the Majorana representation of $SL(2, C)$. 91j:22016
- (with Kar, T. K.) The Clebsch-Gordan problem of the angular momentum coherent states. (Not in MR)
- Bauer, Michel (with Itzykson, Claude) A case study in finite groups: $PSL_2(F_7)$. 91b:20070
- Biedenharn, L. C. see Hecht, K. T., 91k:22031
- Bourdeau, Michelle Hilda see Balachandran, A. P.; et al., 91k:81089a and 91k:81089b
- Bracken, A. J. see McAnally, D. S., 91b:81064
- Cantoni, Vittorio see Symposia Mathematica, 91k:22002
- Cao, Yu Fang see Lin, Hai Lun, 91d:22019
- Cassinelli, Gianni (with Olivieri, G.; Truini, P.; Varadarajan, V. S.) On some nonunitary representations of the Poincaré group and their use for the construction of free quantum fields. 91d:22009
- Chen, Jin Quan see Hecht, K. T., 91c:81178 and Novoselaki, Akiva; et al., (Not in MR)
- Cho, Hing Tung (with Diek, Adel; Kantowski, R.) A Clifford algebra quantization of Dirac's electron positron field. 91g:81063
- Chrusciński, Dariusz Symplectic orbits in quantum state space. 91g:58092
- Cieciura, Grzegorz (with Szczyrba, Igor) Automorphisms and general charge conjugations. 91j:17022
- Dattoli, G. (with Ricchetta, M.; Torre, Amalia) The Cayley-Klein parameters and geometrical picture of the multilevel system evolution. (Italian and Russian summaries) 91b:81183
- DeWitt, Bryce S. see DeWitt-Morette, Cécile, 91b:81050
- DeWitt-Morette, Cécile (with DeWitt, Bryce S.) Pin groups in physics. 91b:81050
- Diek, Adel see Cho, Hing Tung; et al., 91g:81063
- Dixon, Geoffrey Adjoint division algebras and $SU(3)$. 91b:81245a
- Derivation of the standard model. (Italian and Russian summaries) 91b:81245b
- Drayner, J. P. (with Leschber, York) Algebraic realization of the rotor. (see 91m:81007)
- Eichinger, B. E. see Wei, Gaoyuan, 91j:22017
- Eyal, Ofer An alternative description of systems with a finite number of states. 91m:81112
- Fassler, Amand see Viollier, R. D.; et al., 91a:81069
- Fan, Hong Yi Mapping of a classical transformation in Grassmann number space to a Fermi unitary operator. 91k:81067
- Filakovskii, I. A. see Lyakhovskii, V. D., 91m:22025
- Flippov, G. F. see Kati, Kiyoshi, (Not in MR)
- Flath, Daniel E. Remarks on tensor operators. 91k:22018
- Foot, R. (with Joshi, Girish C.) Space-time symmetries of superstring and Jordan algebras. 91a:17041
- Frank, Alejandro see Lemus, R., 91m:81331
- Frodenhagen, K. (with Rehren, K. H.; Schroer, B.) Superselection sectors with braid group statistics and exchange algebras. I. General theory. 91c:81047
- Frigerio, Alberto Relativistic transformation properties of quantum stochastic calculus. (French summary) 91b:81065

- Fu, Hong Chen (with Sun, Chang Pu) Inhomogeneous boson realization of indecomposable representations of Lie algebras. 91f:17010
- (with Sun, Chang Pu) New inhomogeneous boson realizations and inhomogeneous differential realizations of Lie algebras. 91m:81032
- García-Escudero, Juan (with Lorente, Miguel) Classification of unitary highest weight representations for noncompact real forms. 91c:17007
- Gilmore, Robert see Novoselsky, Akiva; et al., (Not in MR)
- Gracia-Bondía, José M. see Várilly, Joseph C., 91h:81061
- Grech, Dariusz K. Construction of grand unified theories. 91k:81215
- He, Hui Yong see Li, Guang Hua¹, 91g:81178
- Hecht, K. T. ★ The vector coherent state method and its application to problems of higher symmetries. 91c:81028
- (with Biedenharn, L. C.) Vector coherent state constructions of $U(3)$ symmetric tensors and their $SU(3) \supset SU(2) \times U(1)$ Wigner coefficients. 91k:22031
- (with Chen, Jin Quan) Matrix elements in the $Sp(6) \supset U(3)$ branch of the S, D fermion pair model. 91c:81178
- Hussain, Faheem (with Körner, J. G.; Thompson, George) Relativistic $SU(6)$ wave functions as the basis of modern approaches to hadronic wave functions. (Not in MR)
- Iachello, F. (with Mukhopadhyay, Nimal C.; Zhang, Lizeg) Spectrum generating algebra for string-like hadrons. Mass formula for mesons. 91m:81317
- Imbo, Tom D. (with Shah Imbo, Chandni; Sudarshan, E. C. G.) Identical particles, exotic statistics and braid groups. 91k:81069
- Itzykson, Claude see Bauer, Michel, 91h:20070
- Jo, S.-G. see Balachandran, A. P.; et al., 91k:81089a and 91k:81089b
- Jones, H. F. ★ Groups, representations and physics. 91k:20002
- Joshi, Girish C. see Foot, R., 91a:17041
- Kantowski, R. see Cho, Hing Tung; et al., 91g:81063
- Kar, T. K. see Basu, Debabrata², 91j:22016 and (Not in MR)
- Kasperkowitz, P. (with Peev, M. K.) Similarity transformations of irreducible corepresentations in Wigner canonical form. 91d:20020
- Katō, Kiyoshi (with Filippov, G. F.) Symplectic basis for constructing intrinsic wave functions of the three-body system. (Not in MR)
- Khrennikov, A. Ya. Quantum mechanics over non-Archimedean number fields. 91g:81033
- Kim, Y. S. (with Wigner, Eugene P.) Space-time geometry of relativistic particles. 91f:81111
- King, Ronald Curtis (with Wybourne, B. G.; Yang, Mei) Slinkies and the S -function content of certain generating functions. 91c:05191
- Klein, Abraham see Walet, Niels R., 91g:81179
- Klink, W. H. (with Ton-That, Tuong) Calculation of Clebsch-Gordan and Racah coefficients using symbolic manipulation programs. 91c:22036
- Körner, J. G. see Hussain, Faheem; et al., (Not in MR)
- Le Blanc, Richard (with Rowe, D. J.) Highest weight representations for $gl(m/n)$ and $gl(m+n)$. 91c:17021
- Lemus, R. (with Frank, Alejandro) An algebraic model for molecular electronic excitations in diatomic molecules. 91m:81331
- Leschber, Yorck see Drayner, J. P., (91m:81007)
- Li, Guang Hua¹ (with He, Hui Yong) The $U(90)$ dynamical symmetry in light nuclei. (Chinese. English summary) 91g:81178
- Li, Xiang Zhu (with Paldus, Josef) Unitary group tensor operator algebras for many-electron systems. I. Clebsch-Gordan and Racah coefficients. 91k:22039
- (with Paldus, Josef) Relationship between S_N and $U(n)$ isoscalar factors and higher-order $U(n)$ invariants. 91c:22028
- Lin, Hai Lan (with Cao, Yu Fang) Evaluation of two-body operator matrix elements in the unitary group approach. 91d:22019
- Liu, Keh-Fei see Wu, Gao Wei; et al., 91f:81105
- Liu, Xian Hui Relations between hyperspherical harmonic transformations and generalized Talmi-Moshinsky transformations. 91h:33006
- see also Raynal, Jacques, 91m:33021
- Loewe, M. $osp(1,4)$ as a relativistic spectrum-generating superalgebra: the simplest representation. 91g:81176
- Lorente, Miguel see García-Escudero, Juan, 91c:17007
- Lulek, T. (with Szopa, M.) The Racah-Wigner approach to harmonic oscillations of the cluster of nodes of a cube. 91c:81185
- Lyakhovskii, V. D. (with Filanovskii, I. A.) The method of reduction of representations of classical Lie groups. 91m:22025
- Lyukovskii, S. V. Tensor operators of the Lie algebras $u(n)$ and $o(\nu)$. 91f:17005
- Maass, Reinhard see Ziehe, Andreas; et al., 91g:81164
- Mardoyan, L. G. (with Pogosyan, G. S.; Sisakyan, A. N.; Ter-Antonyan, V. M.) KS -transformation and Coulomb-oscillator interbasis expansions. 91m:81326
- Margolin, A. E. (with Strazhev, V. I.) Noncompact symmetry groups in quantum field theory. (Russian. English summary) 91k:81159
- Matumoto, Hisayoshi Cohomological Hardy space for $SU(2,2)$. 91c:22032
- McAnally, D. S. (with Bracken, A. J.) Quasiclassical states of the Coulomb system and $so(4,2)$. 91f:81064
- Mukerjee, Madhusree Compact to noncompact transition with application to nuclear collective levels. 91k:81217
- Mukhopadhyay, Nimal C. see Iachello, F.; et al., 91m:81317
- Negro, Javier (with del Olmo, Mariano A.) Local realizations of kinematical groups with a constant electromagnetic field. II. The nonrelativistic case. 91m:81094
- Novoselsky, Akiva (with Vallières, M.; Gilmore, Robert; Chen, Jin Quan) Generalized creation and annihilation operators: physical interpretation and reordering properties. (Not in MR)
- Olaussen, Kåre (with Sollie, Roger) Fractional quantum Hall effect on the 2-sphere: a state-counting analysis. 91h:81195a
- see also Sollie, Roger, 91h:81195b and 91m:81335
- Olivieri, G. see Cassinelli, Gianni; et al., 91d:22009
- del Olmo, Mariano A. (with Rodríguez, Miguel A.; Winternitz, Pavel; Zassenhaus, Hans) Maximal abelian subalgebras of pseudounitary Lie algebras. 91f:17003
- see also Negro, Javier, 91m:81094
- Paldus, Josef Group theoretical approaches to many-electron correlation problem. (see 91m:81007)
- see also Li, Xiang Zhu, 91c:22028 and 91k:22039
- Peev, M. K. see Kasperkowitz, P., 91d:20020
- Pogosyan, G. S. see Mardoyan, L. G.; et al., 91m:81326
- Quesne, C. On some Racah coefficients of $U(n)$. 91f:81065
- Vector coherent state theory of the semidirect sum Lie algebras $wsp(2N, R)$. 91d:17009
- Rajeswar, V. (with Srinivasa Rao, K.) Corrigendum: "Four sets of ${}_3F_2(1)s$, Hahn polynomials and recurrence relations for the 3- j coefficients" [J. Phys. A 22 (1989), no. 19, 4113–4123; MR 90i:22041]. 91h:22031
- Raynal, Jacques Comments on: "Relations between hyperspherical harmonic transformations and generalized Talmi-Moshinsky transformations" [J. Math. Phys. 31 (1990), no. 7, 1621–1626; MR 91h:33006] by X. H. Liu. 91m:33021
- Rehren, K. H. see Fredenhagen, K.; et al., 91c:81047
- Ricotta, M. see Dattoli, G.; et al., 91g:81183
- Rideau, G. Uniqueness problems in formal nonlinear representations of the Poincaré group in $2+1$ dimensions. 91k:22030
- Cohomology of extension for the Poincaré group representations: application to quantum mechanics with indefinite metric and to nonlinear representation theory. 91c:22029
- Rodríguez, Miguel A. see del Olmo, Mariano A.; et al., 91f:17003
- Rowe, D. J. see Le Blanc, Richard, 91c:17021
- Roy, Barnana see Roy, Pinaki; et al., 91a:81054
- Roy, Pinaki (with Roy, Barnana; Roychoudhury, Rajkumar) Partial algebraization of spectral problems and supersymmetry. 91a:81054
- Roychoudhury, Rajkumar see Roy, Pinaki; et al., 91a:81054
- Scheid, Werner see Ziehe, Andreas; et al., 91g:81164
- Scholtz, F. G. see Viellier, R. D.; et al., 91a:81069
- Schroer, B. see Fredenhagen, K.; et al., 91c:81047
- Shah Imbo, Chandni see Imbo, Tom D.; et al., 91k:81069
- Sharma, C. S. Representation of the general Lorentz group by 2×2 matrices. 91c:22025
- Shifman, M. A. Expanding the class of spectral problems with partial algebraization. 91h:81021
- Supersymmetric quantum mechanics and partial algebraization of the spectral problem. 91h:81022
- Sisakyan, A. N. see Mardoyan, L. G.; et al., 91m:81326
- Slodowy, Peter A new $A-D-E$ classification (after A. Capelli [Cappelli], C. Itzykson, J. B. Zuber). 91m:17008
- Sollie, Roger (with Olaussen, Kåre) Fractional quantum Hall effect on the 2-sphere: a case study of symmetry reduction. 91h:81195b
- (with Olaussen, Kåre) Fractional quantum Hall effect on the 2-sphere: a quasiparticle analysis. 91m:81335
- see also Olaussen, Kåre, 91h:81195a
- Srinivasa Rao, K. see Rajeswar, V., 91d:22031
- Strazhev, V. I. see Margolin, A. E., 91k:81159
- Sudarshan, E. C. G. see Imbo, Tom D.; et al., 91k:81069
- Sudbery, A. Computer-friendly d -tensor identities for $SU(n)$. 91m:22027
- Sun, Chang Pu see Fu, Hong Chen, 91f:17010 and 91m:81032
- Saczynka, Igor see Cieciura, Grzegorz, 91j:17022
- Szopa, M. see Lulek, T., 91c:81185
- Tanimura, N. (with Tanimura, O.) New Bessel-type function associated with $SU(3)$ representation. 91m:81176
- Tanimura, O. see Tanimura, N., 91m:81176
- Ter-Antonyan, V. M. see Mardoyan, L. G.; et al., 91m:81326
- Thieker, Ernest A unitary representation of the conformal group on Minkowski space and dynamical groups I. 91d:22020
- Thompson, George see Hussain, Faheem; et al., (Not in MR)
- Ton-That, Tuong see Klink, W. H., 91c:22036
- Torre, Amalia see Dattoli, G.; et al., 91g:81183
- Truini, P. see Cassinelli, Gianni; et al., 91d:22009
- Vallières, M. see Novoselsky, Akiva; et al., (Not in MR)
- Varadarajan, V. S. see Cassinelli, Gianni; et al., 91d:22009
- Várilly, Joseph C. (with Gracia-Bondía, José M.) The symplectic groups and their representations in the theory of the quantum product. I. $Sp(2; R)$. (Spanish. English summary) 91h:81061
- Viellier, R. D. (with Faessler, Amand; Scholtz, F. G.) Chiral particles in $d = 3 + 1$ dimensions from Majorana-Weyl spinors in $d = 4 + 4$ dimensions. 91a:81069
- Walet, Niels R. (with Klein, Abraham) Thermal boson expansions and dynamical symmetry. 91g:81179
- Weaver, Oliver L. see Ziehe, Andreas; et al., 91g:81164
- Wei, Gaoyuan (with Eichinger, B. E.) On a Fourier integral over $SO(3)$. 91j:22017
- Wigner, Eugene P. see Kim, Y. S., 91f:81105
- Winternitz, Pavel see del Olmo, Mariano A.; et al., 91f:17003
- Wu, Gao Wei (with Yan, Mu Lin; Liu, Keh-Fei) Flavor symmetry and mass-splitting formulas for the sub- $SU(3)$ skyrmion in $SU(N)$. 91j:81105
- Wybourne, B. G. see King, Ronald Curtis; et al., 91c:05191
- Yamaleev, R. M. ★ Введение в N -унитарную группу преобразований. (Russian) [Introduction to an N -unitary transformation group] 91g:22009
- Yan, Mu Lin see Wu, Gao Wei; et al., 91j:81105
- Yang, Mei see King, Ronald Curtis; et al., 91c:05191
- Zassenhaus, Hans see del Olmo, Mariano A.; et al., 91f:17003
- Zhang, Lizeg see Iachello, F.; et al., 91m:81317
- Ziehe, Andreas (with Maass, Reinhard; Scheid, Werner; Weaver, Oliver L.) Potentials in algebraic scattering theory. 91g:81164

Items listed otherwise than by author

Conference:

Indecomposable Representations of Lie Groups and their Physical Applications

★ Symposia Mathematica. Vol. XXXI. 91h:22002

Rome ★ Symposia Mathematica. Vol. XXXI. 91h:22002

Symposia Mathematica ★ Symposia Mathematica. Vol. XXXI. 91h:22002

81R10 Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [see also 17B65, 17B67, 22E65, 22E67, 22E70]

- Ahmed, Elsayed Mohamed *see* Hegazi, A. S., 91k:81055
- Argyres, E. N. (with Papadopoulos, C. G.; Floratos, E. G.) A note on the connection between the $SL(2, \mathbb{R})$ current algebra and general covariance. 91g:81039
- de Azcárraga, J. A. (with Izquierdo, J. M.; Macfarlane, A. J.) Current algebra and Wess-Zumino terms: a unified geometric treatment. 91g:81040
- Babichev, L. F. (with Kuvshinov, V. I.; Fedorov, F. I.) Matrix realization of string algebra axioms and conditions of invariance. 91k:81052
- Bakas, Ioannis (with Kiritsis, Elias B.) Bosonic realization of a universal W -algebra and Z_∞ parafermions. 91m:81082a
- (with Kiritsis, Elias B.) Erratum: "Bosonic realization of a universal W -algebra and Z_∞ parafermions". 91m:81082b
- Balog, J. *see* Forgács, P.; et al., 91b:81046
- Banerjee, Rabin (with Rothe, H. J.; Rothe, K. D.) BFL definition of double commutators and the Jacobi identity. (Not in MR)
- Bergshoeff, E. A. (with Sezgin, Ergin) New spacetime superalgebras and their Kac-Moody extension. 91a:81062
- Bilal, Adel A note on super W -algebras. 91b:81045
- What is W -geometry? 91k:81053
- Caselle, M. (with Ponzano, G.) Modular invariance and fusion rule algebras: classification of the three-operator case. 91m:81083
- Castellani, Leonardo Infinite-dimensional free differential algebras and string field theory. 91a:81063
- Chaichian, M. (with Leites, D. A.; Lukierski, Jerzy) General $D = 1$ local supercoordinate transformations and their supercurrent algebras. 91e:81034
- Chamseddine, A. H. (with Reuter, M.) Induced two-dimensional quantum gravity and $SL(2, \mathbb{R})$ Kac-Moody current algebra. 91a:81064
- Chang, Darwin (with Kumar, Alok; Wang, Jin) Search for extended conformal algebra. 91f:81055
- Chen, Su Qing *see* Liu, Yu Liang; et al., 91g:81045
- Chung, Wen-Sang (with Kim, Jae Kwan) BRS analysis of supersymmetrized Zamolodchikov's spin-3 algebra. 91g:81041
- Depierreux, Didier A. Fermionic realization of $W_{1+\infty}$. 91m:81084
- Dixon, Lance J. (with Peskin, Michael E.; Lykken, Joseph D.) $N = 2$ superconformal symmetry and $SO(2, 1)$ current algebra. 91e:81035
- Eguchi, Tetsuro (with Taormina, Anne) Extended superconformal algebras and string compactifications. (see 91f:81054)
- Fedorov, F. I. *see* Babichev, L. F.; et al., 91k:81052
- Fehér, L. Gy. *see* Forgács, P.; et al., 91b:81046
- Flato, M. (with Fronsdal, C.) Parastatistics, highest weight $osp(N, \infty)$ modules, singlet statistics and confinement. 91a:81065
- Floratos, E. G. *see* Argyres, E. N.; et al., 91g:81039
- Fok, V. V. *see* Kogan, Ya. I., 91g:81044
- Forgács, P. (with Wipf, A.; Balog, J.; Fehér, L. Gy.; O'Riartaigh, L.) Liouville and Toda theories as conformally reduced WZNW theories. 91b:81046
- Fronsdal, C. *see* Flato, M., 91a:81065
- Fu, Hong Chen The inhomogeneous differential realization of the Lie superalgebra $B(0, 1)$, the boson-fermion realization and its representations. (Chinese. English summary) 91g:81042
- Fucito, Francesco (with Lacki, Jan) Conformal field theories and twisted Kac-Moody algebras. 91k:81054
- Fujitsu, Akira Parafermionic current algebras of torus/orbifold models. 91e:81023
- Gerasimov, A. A. (with Marshakov, A. V.; Morozov, A. Yu.) Hamiltonian reduction of the Wess-Zumino-Witten model from the point of view of bosonization. 91d:81042
- (with Marshakov, A. V.; Morozov, A. Yu.) Representation of free fields for parafermions and other coset models. 91f:81056
- Gervais, Jean-Loup Critical dimensions for noncritical strings. 91f:81057
- Griffin, Paul Radial quantization of the Ising model in the scaling regime, and integrals of the motion. 91b:81047
- Hegazi, A. S. (with Ahmed, Elsayed Mohamed) On bosonization of Lie superalgebra in two dimensions. 91k:81055
- Heidenreich, Wolfgang (with Lukierski, Jerzy) Quantized supertwistors, higher spin superalgebras and supersingletons. 91k:81056
- Hornfeck, K. Supersymmetrizing the W_4 algebra. 91k:81057
- Hou, Bo Yu (with Shi, Kang Jie; Wang, Pei; Yue, Rui Hong) The crossing matrices of WZW $SU(2)$ model and minimal models with the quantum $6j$ symbols. 91g:81043
- Inami, T. (with Matsuo, Yutaka; Yamanaka, Itaru) Extended conformal algebra with $N = 2$ supersymmetry. 91b:81049
- Itoyama, Hiroshi (with Moxhay, P.) Universal enveloping algebras of Toda field theories and the light-cone asymmetry parameter. 91m:81085
- Izquierdo, J. M. *see* de Azcárraga, J. A.; et al., 91g:81040
- Jayaraman, J. (with de Lima Rodrigues, Rafael) The Wigner-Heisenberg algebra as an effective operator technique for simpler spectral resolution of general oscillator-related potentials and the connection with the SUSYQM algebra. 91f:81025
- Keung, Wai-Yee *see* Wang, Qin Mou; et al., 91m:81090
- Kim, Jae Kwan *see* Chung, Wen-Sang, 91g:81041
- Kiritsis, Elias B. *see* Bakas, Ioannis, 91m:81082a and 91m:81082b
- Kogan, Ya. I. (with Fok, V. V.) Generating correlation function in 2d conformal theory and the Sugawara construction of the $2 + 1$ Chern-Simons theory. 91g:81044
- Konisi, Gaku (with Saito, Takeshi; Takahashi, Wataru) KN superalgebras with vertex operators. 91e:81036
- Kumar, Alok *see* Chang, Darwin; et al., 91f:81055
- Kuvshinov, V. I. *see* Babichev, L. F.; et al., 91k:81052
- Kuwahara, Masanori (with Suzuki, Hideo) Coset conformal models of the W -algebra and their Feigin-Fuchs construction. 91a:81066
- Lacki, Jan *see* Fucito, Francesco, 91k:81054
- Leites, D. A. *see* Chaichian, M.; et al., 91e:81034
- de Lima Rodrigues, Rafael *see* Jayaraman, J., 91g:81040
- Liu, Yu Liang (with Chen, Su Qing; Ni, Guang Jiong) Geometrical quantization of bosonic string with Wess-Zumino term on genus- g Riemann surface. 91g:81045
- Lukierski, Jerzy *see* Chaichian, M.; et al., 91e:81034 and Heidenreich, Wolfgang, 91k:81056
- Lykken, Joseph D. *see* Dixon, Lance J.; et al., 91e:81035
- Macfarlane, A. J. *see* de Azcárraga, J. A.; et al., 91g:81040
- Marshakov, A. V. (with Morozov, A. Yu.) A note on W_3 algebra. 91m:81086
- *see also* Gerasimov, A. A.; et al., 91d:81042 and 91f:81056
- Matsuda, Satoshi (with Uematsu, Tsuneo) Super Schwarzian derivatives in $N = 4$ $SU(2)$ -extended superconformal algebras. 91g:81046
- Matsuo, Yutaka *see* Inami, T.; et al., 91b:81049
- Michelsson, Jonko Current algebras: geometry and physics. (Finnish. English summary) (Not in MR)
- Morozov, A. Yu. *see* Gerasimov, A. A.; et al., 91d:81042; 91f:81056 and Marshakov, A. V., 91m:81086
- Moxhay, P. *see* Itoyama, Hiroshi, 91m:81085
- Ni, Guang Jiong *see* Liu, Yu Liang; et al., 91g:81045
- Odake, Satoru $c = 3d$ conformal algebra with extended supersymmetry. 91f:81026
- O'Riartaigh, L. *see* Forgács, P.; et al., 91b:81046
- Palla, László Perturbed W -algebras and affine Toda theories. 91h:81050
- Panigrahi, Prasanta K. *see* Wang, Qin Mou; et al., 91m:81090
- Papadopoulos, C. G. *see* Argyres, E. N.; et al., 91g:81039
- Pavlov, Roman (with Todorov, Ivan T.) Homogeneous space construction of modular invariant QFT models with a chiral $U(1)$ current. 91f:81058
- Penna, Vittorio (with Rasetti, Mario; Spera, Mauro) Iterated path integrals realization of quantum vortex currents: construction of the topological invariants. 91m:81087
- Peskin, Michael E. *see* Dixon, Lance J.; et al., 91e:81035
- Ponzano, G. *see* Caselle, M., 91m:81083
- Rasetti, Mario *see* Penna, Vittorio; et al., 91m:81087
- Reuter, M. *see* Chamseddine, A. H., 91a:81064
- Rothe, H. J. *see* Banerjee, Rabin; et al., (Not in MR)
- Rothe, K. D. *see* Banerjee, Rabin; et al., (Not in MR)
- Saito, Takeshi *see* Konisi, Gaku; et al., 91e:81036
- Saitoh, Yoshihiro (with Sakai, Norisuke; Yugami, Nobuhiro) Bosonic constructions of W_3 algebra. 91k:81058
- Sakai, Norisuke *see* Saitoh, Yoshihiro; et al., 91k:81058
- Sakamoto, Makoto Bosonization of bosons in vertex operator representations of affine Kac-Moody algebras. 91m:81088
- Semikhatov, A. M. A note on the supersymmetric coset construction. 91e:81037
- Sezgin, Ergin *see* Bergshoeff, E. A., 91a:81062
- Shi, Kang Jie *see* Hou, Bo Yu; et al., 91g:81043
- Spera, Mauro *see* Penna, Vittorio; et al., 91m:81087
- Sukhatme, Uday P. *see* Wang, Qin Mou; et al., 91m:81090
- Sun, Chang Pu Boson realizations and inhomogeneous differential realizations for Lie algebras and their representations. (Chinese. English summary) (Not in MR)
- Suzuki, Hideo *see* Kuwahara, Masanori, 91a:81066
- Takahashi, Wataru *see* Konisi, Gaku; et al., 91e:81036
- Taormina, Anne *see* Eguchi, Tetsuro, (91f:81044)
- Terasa, Haruhiko The Coulomb gas representation for $SU(2)$ Wess-Zumino-Witten model in superspace. 91m:81089
- Todorov, Ivan T. *see* Pavlov, Roman, 91f:81058
- Uematsu, Tsuneo *see* Matsuda, Satoshi, 91g:81046
- Vasil'ev, M. A. Triangle identity and free differential algebra of massless higher spins. 91a:81067
- Wang, Jin *see* Chang, Darwin; et al., 91f:81055
- Wang, Pei *see* Hou, Bo Yu; et al., 91g:81043
- Wang, Qin Mou (with Panigrahi, Prasanta K.; Sukhatme, Uday P.; Keung, Wai-Yee) Covariant operators and higher-spin conformal algebras. 91m:81090
- Wipf, A. *see* Forgács, P.; et al., 91b:81046
- Xu, Rui-Ming Two-dimensional quantum $(0, 2)$ supergravity. 91g:81047
- Yamanaka, Itaru *see* Inami, T.; et al., 91b:81049
- Yue, Rui Hong *see* Hou, Bo Yu; et al., 91g:81043
- Yugami, Nobuhiro *see* Saitoh, Yoshihiro; et al., 91k:81058
- Yur'ev, D. V. Cohomology of the Virasoro algebra with coefficients in string fields. 91m:81091
- Zaikov, R. P. Virasoro algebras in the theory of bosonic p -branes. 91k:81059

Items with secondary classifications in 81R10

- Abud, Mario (with Ader, Jean Pierre; Wallet, J.-C.) The gauged BRST symmetry. 91f:81091
- Ader, Jean Pierre *see* Abud, Mario; et al., 91f:81091
- Affleck, Ian A current algebra approach to the Kondo effect. 91e:81188
- Aldaya, Victor (with Navarro-Salas, José) Quantization on the Virasoro group. 91d:58086
- Altschüler, Daniel (with Bérán, P.; Lacki, Jan; Roditi, I.) Twisted vertex operators and representations of finite Heisenberg groups. 91a:17028
- (with Bauer, Michel; Itzykson, Claude) The branching rules of conformal embeddings. 91j:17032
- Aréfeva, I. Ya. (with Medvedev, P. B.; Zubarev, A. P.) New representation for string field solves the consistency problem for open superstring field theory. 91f:81136
- Avan, J. Graded Lie algebras in the Yang-Baxter equation. 91m:58071
- Baqaie, B. E. The Kac-Moody generators. 91a:17029
- Babelon, O. Exchange formula and lattice deformation of the Virasoro algebra. 91f:81066
- Bachas, C. (with Hwang, Stephen) Finite number of states in unitary $d < 1$ strings. 91k:81119
- Bais, F. A. (with Bouwknegt, Peter; Surridge, M.; Schoutens, Kareljan) Extended Virasoro algebras. 91d:17034
- Bakas, Ioannis The structure of the W_∞ algebra. 91f:17026

- Balog, J. (with Dąbrowski, Ludwik; Fehér, L. Gy.) Classical r -matrix and exchange algebras in WZNW and Toda theories. 91f:81170
- Bars, Itzhak Heterotic superstring vacua in four dimensions based on noncompact affine current algebras. 91j:81057
- (with Nemeschansky, Dennis) String propagation in backgrounds with curved space-time. 91k:81121
- Bauer, Michel (with Itzykson, Claude) Modular transformations of $SU(N)$ affine characters and their commutant. 91b:17024
- see also Altschüller, Daniel; et al., 91j:17032
- Blaizot, G. G. A. Sigma models and Kac-Moody algebras. 91k:81090
- Beggs, Edwin J. (with Majid, Shahn) Matched pairs of topological Lie algebras corresponding to Lie bialgebra structures on $\text{diff}(S^1)$ and $\text{diff}(\mathbb{R})$. (French summary) 91k:17026
- Belavin, A. A. KdV-type equations and W -algebras. 91j:58070
- Benamou, Hédi (with Pincon, Georges) The graded Lie algebra structure of Lie superalgebra deformation theory. 91g:17021
- Béran, P. see Altschüller, Daniel; et al., 91a:17028
- Bergshoeff, E. A. (with Blencowe, M. P.; Stelle, K. S.) Area-preserving diffeomorphisms and higher-spin algebras. 91g:17039
- (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang) W_∞ gravity and super- W_∞ gravity. 91k:81148
- (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang) The super W_∞ algebra. 91f:17018
- (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang; Stelle, K. S.) w_∞ gravity. 91m:81231
- Bernard, Denis (with Felder, Giovanni) Fock representations and BRST cohomology in $SL(2)$ current algebra. 91g:17022
- (with LeClair, André) The fractional supersymmetric sine-Gordon models. 91k:81149
- Bhattacharya, Gautam (with Ghosh, Sasanka) Algebraic Bethe ansatz scheme for relativistic integrable field theories in continuum: sine-Gordon model. 91b:81121
- see also Ghosh, Subir, 91f:81183
- Bilal, Adel (with Gervais, Jean-Loup) Conformal theories with non-linearly-extended Virasoro symmetries and Lie-algebra classification. 91a:81183
- Fusion and braiding in W -algebra extended conformal theories. II. Generalization to chiral screened vertex operators labelled by arbitrary Young tableaux. 91d:81117
- Fusion and braiding in W -algebra extended conformal theories. 91d:81116
- Bincer, Adam M. Parametrization of $SU(n)$ with $n-1$ orthonormal vectors. 91e:22026
- Blencowe, M. P. see Bergshoeff, E. A.; et al., 91g:17039
- Blok, B. Classical exchange algebras in the Wess-Zumino-Witten model. 91c:81124
- Bordemann, Martin (with Hoppe, Jens; Schaller, Peter) Infinite-dimensional matrix algebras. 91d:17025
- Bose, Samir Kumar Some examples of the algebra of flows. 91g:17027
- Bouwknegt, Peter Extended conformal algebras from Kac-Moody algebras. 91c:17019
- see also Bais, F. A.; et al., 91d:17034
- Braden, Harry W. (with Corrigan, E.; Dorey, P. E.; Sasaki, Ryu) Affine Toda field theory and exact S -matrices. 91k:81150
- Bragiel, Kazimierz "Mass formulae" for tensor operators connected with Lie superalgebras. 91g:17040
- Bratichikov, A. V. Two-dimensional chiral models with infinite-dimensional symmetry algebras. 91e:81066
- Bruce, S. A. A note on bosonic (spin-0) current algebras. 91f:81198
- Errata: "A note on bosonic (spin-0) current algebras" [Nuovo Cimento A (11) 103 (1990), no. 8, 1229-1232; MR 91f:81198]. (Not in MR)
- Bryant, Peter R. Representing the super Virasoro algebra by meromorphic vectorfields on the graded Riemann sphere. 91f:17032
- Cadavid, Ana Cristina (with Finkelstein, R. J.) Dyons in affine field theories. 91h:81086
- (with Finkelstein, R. J.) Affine Higgs effect. 91a:81186
- Cardy, John L. Boundary conditions, fusion rules and the Verlinde formula. 91d:81118
- Caselle, M. (with Ponzano, G.) Analyticity, modular invariance and the classification of three operator fusion algebras. 91h:81136
- Castellani, Leonardo A geometric field theory of closed strings: $D=4$, $N=1$ loop supergravity. 91e:81071
- Cecchini, R. (with Tarlini, Marco) Symbolic superalgebra manipulations using COMMON LISP. 91g:17003
- Ceresole, Anna (with Huang, Chao Shang) Extended KN algebras and extended conformal field theories over higher genus Riemann surfaces. 91k:81155
- Chalchian, M. (with Leites, D. A.; Lukierski, Jerzy) $N=6$ from central extension of doubly infinite superalgebras. 91h:17025
- (with Ellinas, D.; Popowicz, Ziemowit) Quantum conformal algebra with central extension. 91k:17018
- (with Kulish, P. P.; Lukierski, Jerzy) q -deformed Jacobi identity, q -oscillators and q -deformed infinite-dimensional algebras. 91m:17014
- Chang, Zhe (with Guo, Han Ying; Shen, Jian Min; Wang, Shi Kun; Wu, Ke; Xu, Kai Wen) Operator formalism of the multi-pole Virasoro algebra on a Riemann sphere. 91f:17032
- Choi, Jae Hoon (with Kim, Jae Kwan) Higher-genus characters for the level-two $SU(2)$ WZW model and GKO coset construction. 91a:81187
- Christe, P. (with Martins, Márcio José) Ultraviolet behavior of the integrable off-critical nonunitary series $M_{g,h}$. 91g:81094
- Chung, Won-Sang (with Kang, Sin Kyu; Lee, Jungjai; You, Chung-Ki; Kim, Jae Kwan) $N=2$ superconformal gravity and $OSp(2/2)$ Kac-Moody algebra in $(1+1)$ dimensions. 91k:81137
- see also Lee, Jungjai; et al., 91f:81191
- Coquereaux, R. (with Frappat, L.; Ragoucy, E.; Sorba, P.) Extended super-Kac-Moody algebras and their super-derivation algebras. 91m:17036
- Corrigan, E. see Braden, Harry W.; et al., 91k:81150
- Dąbrowski, Ludwik see Balog, J.; et al., 91f:81170
- De Concini, Corrado (with Kac, Victor G.; Kazhdan, D. A.) Boson-fermion correspondence over \mathbb{Z} . 91a:17031
- Degiovanni, P. Z/NZ conformal field theories. 91e:81091
- Depierreux, Didier A. (with Gates, S. James, Jr.; Majumdar, Parthasarathi; Radak, B.; Vashakidze, Sh. L.) Towards covariantly quantized $D=10$ type-II Green-Schwarz σ -models. 91k:81125
- Dhar, Arinaah (with Jayaraman, T.; Narain, K. S.; Wadia, Spenta R.) The role of quantized 2-dim. gravity in string theory. 91c:83038
- Diaz, Alvaro H. (with Figueroa-O'Farrill, José M.) A new explicit construction of W_3 from the affine algebra $A_2^{(1)}$. 91k:17030
- Di Francesco, P. (with Kutasov, David) Unitary-minimal models coupled to 2D quantum gravity. 91k:81159
- Djermal, A. E. F. (with Tahiri, M.) Cohomology and elementary particle generations. 91g:81175
- Dobrev, Vladimir K. (with Ganchev, Alexander Ch.) Modular invariants for theta-functions with characteristics and the twisted $N=2$ superconformal and $SU(2)$ Kac-Moody algebras. (German summary) 91g:17041
- (with Ganchev, Alexander Ch.) Classification of modular invariant partition functions for the twisted $N=2$ superconformal algebra, twisted $SU(2)$ Kac-Moody algebra and D_{2k} parafermions. 91d:17030
- Doebner, H.-D. (with Tolar, J.) Infinite-dimensional symmetries. (German summary) 91f:58034
- Dorey, P. E. see Braden, Harry W.; et al., 91k:81150
- Dunne, Gerald V. (with Halliday, Ian; Suranyi, Peter) Bosonization of parafermionic conformal field theories. 91f:81174
- Durand, Stéphane (with Vinet, Luc) Conformal parasupersymmetry in quantum mechanics. 91b:81030
- (with Vinet, Luc) Dynamical parasuperalgebras and harmonic oscillators. 91g:81031
- Durganandini, P. Differential equations for correlators on the torus: two-point correlation function of isospin-1 primary fields in the $k=3$ $SU(2)$ WZW theory. 91m:81241
- Eguchi, Tetsu Character formulas for the $N=4$ superconformal algebra. (see 91k:81006)
- (with Yang, Sung-Kil) $N=2$ superconformal models as topological field theories. 91g:81135
- Eisenberg, Yeshayahu Infinite-dimensional algebra for all the (super-) field theories in four dimensions. 91f:81097
- Ellinas, D. see Chalchian, M.; et al., 91k:81155
- Ellis, Jonathan Richard (with Lopez, Jorge L.; Nanopoulos, D. V.) Constraints on grand unified superstring theories. 91f:81242
- Eskin, Alex (with Ye, Chang-Yuan) Parafermion correlation functions on Riemann surfaces. 91c:81082
- Ezawa, Z. F. Generation of $OSp(9,1|2) \times OSp(3,3|6)$ affine superalgebra from the bosonic string. 91a:81160
- Fairlie, David (with Nuyts, Jean) Deformations and renormalisations of W_∞ . 91j:17027
- (with Fletcher, Paul; Zachos, Cosmas) Infinite-dimensional algebras and a trigonometric basis for the classical Lie algebras. 91k:17020
- Falceto, Fernando (with Scoppola, Benedetto) Friedan-Shenker bundle from Chern-Simons theory. 91m:81242
- Falkenstein, P. (with Grosse, H.) On the relation between the geometric phase and the Schwinger term. (Not in MR)
- Fehér, L. Gy. see Balog, J.; et al., 91f:81170
- Feigin, B. L. (with Frenkel, Edward V.) Representations of affine Kac-Moody algebras, bosonization and resolutions. 91m:17037
- Felder, Giovanni (with Fröhlich, Jürg; Keller, Georg) On the structure of unitary conformal field theory. I. Existence of conformal blocks. 91f:81176
- (with Fröhlich, Jürg; Keller, Georg) On the structure of unitary conformal field theory. II. Representation-theoretic approach. 91f:81177
- see also Bernard, Denis, 91g:17022
- Ferreira, L. A. (with Gomes, J. F.; Teotônio Sobrinho, P.; Zimerman, A. H.) Symplectic bosons, Fermi fields and super Jordan algebras. 91e:17031
- Figueroa-O'Farrill, José M. (with Kimura, Takashi) The BRST cohomology of the NSR string: vanishing and "no-ghost" theorems. 91e:17015
- (with Schrans, Stany) The spin 6 extended conformal algebra. 91j:17028
- see also Diaz, Alvaro H., 91k:17030
- Filippov, A. T. (with Isaev, A. P.) Gauge models of "discrete strings". 91d:81099
- Finkelstein, R. J. see Cadavid, Ana Cristina, 91a:81186 and 91h:81086
- Fletcher, Paul The uniqueness of the Moyal algebra. 91k:17021
- see also Fairlie, David; et al., 91k:17020
- Flume, R. Wess-Zumino-Witten models and other two-dimensional critical systems. 91e:81094
- Franklin, E. S. (with Linetski, V. Ya.) Conformal superalgebras of higher spins. 91h:17031
- (with Linetski, V. Ya.) Higher-spin symmetry in one and two dimensions. I, II. 91i:81072
- (with Linetski, V. Ya.) Cubic interaction in conformal theory of integer higher-spin fields in four-dimensional space-time. 91f:81180
- (with Linetski, V. Ya.) Conformal superalgebras of higher spins. 91e:17017
- (with Linetski, V. Ya.) Infinite-dimensional generalizations of simple Lie algebras. 91h:17014
- Franklin, Eduardo (with von Reichenbach, Cecilia; Schaposnik, Fidel A.) Conformal properties of the Kondo models. 91h:81196
- Frappat, L. (with Sciarrino, A.; Sorba, P.) Vertex operator representations of basic affine superalgebras. 91g:17029
- (with Ragoucy, E.; Sorba, P.; Thuillier, F.; Hagäsen, H.) Generalized Kac-Moody algebras and the diffeomorphism group of a closed surface. 91m:17038
- see also Coquereaux, R.; et al., 91m:17036
- Frau, M. (with Lerda, A.; McCarthy, James G.; Sciuto, S.; Sidenius, J.) Free field representation for $SU(2)_k$ WZNW models on Riemann surfaces. 91k:81140
- Frenkel, Edward V. see Feigin, B. L., 91m:17037
- Fröhlich, Jürg see Felder, Giovanni; et al., 91f:81176 and 91f:81177
- Fu, Hong Chen see Sun, Chang Pa., 91d:17033
- Fubini, S. (with Lütken, C. A.) Vertex operators in the fractional quantum Hall effect. 91m:81334
- Fuchs, Jürgen (with Klemm, Albrecht; Scheich, Christoph) The operator algebra of the E_9 type $su(2)$ WZW theory. 91e:81095

- Fujii, Kazuyuki (with Tanaka, Masaru) Universal Schwinger cocycles of current algebras in $(D+1)$ dimensions: geometry and physics. 91e:58207
- Ganchev, Alexander Ch. see Dobrev, Vladimir K., 91d:17030 and 91g:17041
- Gates, S. James, Jr. see Deligne, Pierre, 91d:17031
- Gerasimov, A. A. (with Morozov, A. Yu.; Oshaneski, M. A.; Marshakov, A. V.; Shatashvili, S. L.) Wess-Zumino-Witten model as a theory of free fields. 91m:81245
- (with Marshakov, A. V.; Morozov, A. Yu.) On 2D gravity in conformal field theory. 91e:81075
- Gervais, Jean-Loup (with Rostand, Bruno) Two-dimensional gravity and its W_3 -extension: strongly coupled unitary theories. 91j:81076
- see also Bilal, Adel, 91a:81183
- Ghosh, Sasanka A canonical approach to the dynamics of the Wess-Zumino-Witten model. 91j:81077
- see also Bhattacharya, Gautam, 91b:81121
- Ghosh, Subir (with Bhattacharya, Gautam) Systematic derivation of current-algebra structures in anomalous σ models. 91f:81183
- Goddard, Peter Symmetry and algebras in string theory. 91d:81101
- Gomes, J. F. see Ferreira, L. A.; et al., 91e:17031
- Gorman, N. (with O'Riordan, L.; Williams, D.; McGlinn, W.) A unified approach to the computation of central terms in Kac-Moody and Virasoro algebras. 91e:17035
- Gould, M. D. see Zhang, R. B., 91g:17038
- Grimm, Uwe The quantum Ising chain with a generalized defect. 91m:82025
- Grosse, H. see Falkenstein, P., (Not in MR)
- Günaydin, M. (with Petersen, J. L.; Taormina, Anne; Van Proeyen, Antoine) On the unitary representations of a class of $N=4$ superconformal algebras. 91e:17018
- Guo, Han Ying see Xu, Kai Wen; et al., 91e:17004 and Chang, Zhe; et al., 91e:17032
- Haba, Zbigniew Functional integration, Ward identities and the WZW current algebra. 91e:81061
- Generating functional for WZW and related currents. 91d:81128
- Representations of the $SL(2, \mathbb{C})$ Kac-Moody current algebra in the Fock space. 91m:17039
- Halliday, Ian see Dunne, Gerald V.; et al., 91f:81174
- Halpern, M. B. (with Kiritsis, Elias B.; Obers, N. A.; Porrati, Massimo; Yamron, Jonathan P.) New unitary affine-Virasoro constructions. 91d:17035
- (with Yamron, Jonathan P.) Geometry of the general affine-Virasoro construction. 91e:17020
- Hannabuss, K. C. (with Weiss, Winfried R. E.) Corepresentations of superalgebras and an antilinear Dirac operator. 91k:17002
- Händl, R. (with Papadopoulos, N. A.; Scheck, Florian) $SU(2|1)$ symmetry, algebraic superconnections and a generalized theory of electroweak interactions. (Not in MR)
- Helayil-Neto, José A. (with Mokhtari, Susan; Smith, A. William) Quantum gravity in two dimensions and the $SL(2, \mathbb{R})$ current algebra. 91f:81185
- Henningson, Mats Sugawara construction for affine $SL(N, 1)$. 91e:17042
- Hermann, Robert A "geometric" view of the dynamics of trajectories of computer programs. 91i:93036
- Hernández, Oscar F. Feigin-Fuchs bosonization of Lykken parafermions and $SU(1, 1)$ Kac-Moody algebras. 91e:81136
- Higdon, H. see Frappat, L.; et al., 91m:17038
- Ho-Kim, Q. see Zheng, Hai Bin, 91g:17035
- Hollowood, Tim (with Mansfield, Paul) Quantum group structure of quantum Toda conformal field theories. I. 91e:81077
- van Holten, J. W. The BRST complex and the cohomology of compact Lie algebras. 91h:81173
- Hoppe, Jens see Borelman, Martin; et al., 91d:17025
- Hornfeck, E. (with Ragoucy, E.) A coset construction for the super W_3 algebra. 91h:17015
- Horváth, Zoltán (with Palla, László; Vecsernyes, P.) BRST cohomology and 2d gravity. 91e:81161
- Induced two-dimensional supergravity as a theory of free fields. 91e:81137
- Hou, Bo Yu (with Li, Kang; Wang, Pei) General solutions to fundamental problems of $SU(2)_k$ WZW models. 91e:81078
- Huang, Chao Shang see Ceresole, Anna, 91k:81155
- Hull, Christopher M. Gauging the Zamolodchikov \mathcal{W} -algebra. 91f:81186
- Hwang, Stephen Abelianization of gauge algebras in the Hamiltonian formalism. 91k:81194
- see also Bachas, C., 91k:81119
- Intriligator, Kenneth Bonus symmetry in conformal field theory. 91f:81187
- Inzer, A. P. see Filippov, A. T., 91d:81099
- Iso, Satoshi (with Itoi, Chigaku; Mukaida, Hisamitsu) Necessity of a finite-size term in the WZW model. 91j:81080
- Ito, Satoshi (with Kazama, Yoichi) Feigin-Fuchs representations of $A_1^{(1)}$ affine Lie algebra and the associated parafermionic algebra. 91g:17030
- Itoi, Chigaku see Iso, Satoshi; et al., 91j:81080
- Izykson, Claude see Bauer, Michel, 91b:17024 and Altschuler, Daniel; et al., 91j:17032
- Jaffe, Arthur M. (with Klimke, Slawomir; Lesniewski, Andrzej) Representations of the Heisenberg algebra on a Riemann surface. 91d:17045
- Jarvis, P. D. Unified models from gauged supergroups. I. Dimensional reduction formalism. Unitary and orthosymplectic series. 91m:81320
- Jayaraman, T. (with Narain, K. S.; Sarmadi, M. H.) $SU(2)_k$ WZW and Z_k parafermion models on the torus. 91e:17046
- see also Dhar, Avinash; et al., 91c:83038
- Kac, Victor G. Highest weight representations of conformal current algebras. 91d:17031
- (with van de Leur, J. W.) Super boson-fermion correspondence of type B. 91a:17033
- see also De Concini, Corrado; et al., 91a:17031
- Kaiser, Ralf Joachim see Marquard, U.; et al., 91e:81081
- Kang, Sin Kyu see Lee, Jungjae; et al., 91f:81191 and Chung, Won-Sang; et al., 91h:81137
- (Kanie, Y.) see Zamolodchikov, Aleksandr B., 91m:81276
- Karakanyan, D. R. (with Sedrakyan, A. G.) Geometric and current algebra structure of induced 2D gravity. 91e:81081
- Kashaev, R. M. (with Oshapov, A. A.) Extension of the constraint algebra for a closed string with a world surface of fixed topology. 91f:81151
- Kawamoto, Noboru (with Sacki, Yuji) Ward identities and differential equations of the $N=1, 2$ superconformal algebra on the supertorus. 91g:81139
- Kazama, Yoichi see Ito, Katsushi, 91g:17030
- Kazhdan, D. A. see De Concini, Corrado; et al., 91a:17031
- Keller, Georg see Felder, Giovanni; et al., 91f:81176 and 91f:81177
- Kim, Jae Kwan see Choi, Jae Hoon, 91a:81187; Lee, Jungjae; et al., 91f:81191 and Chung, Won-Sang; et al., 91h:81137
- Kim, Jewan (with Lee, Taejin) Two-dimensional quantum gravity and anomalous gauge theory. 91m:81252
- Kimura, Takashi see Figueroa-O'Farrill, José M., 91e:17015
- Kirillov, A. A. (with Yur'ev, D. V.) Representations of the Virasoro algebra by the orbit method. 91k:17029
- Kiritis, Elias B. see Halpern, M. B.; et al., 91d:17035
- Klemm, Albrecht see Fuchs, Jürgen; et al., 91e:81095
- Klimek, Slawomir see Jaffe, Arthur M.; et al., 91d:17045
- Kotrak, L. A. Gauge theory of strings and \mathcal{W} -algebra. 91e:17027
- Kozłowski, Piotr A note on current algebra in QCD_2 and two-dimensional chiral theories. 91f:81090
- Krichever, Ios. M. (with Novikov, S. P.) Virasoro-Gelfand-Fuks type algebras, Riemann surfaces, operator's theory of closed strings. 91k:17036
- Kulish, P. P. Quantum Lie superalgebras and supergroups. 91m:17017
- see also Chaichian, M.; et al., 91m:17014
- Kunimasa, Tosaku (with Saito, Takeshi) Schwarzian derivative and connection in Krichever-Novikov algebra. 91k:81166
- Kuramoto, Tetsuji Two-dimensional supergravity in the super light-cone gauge coupling to a superconformal field theory. 91m:81255
- Kutasov, David see Di Francesco, P., 91k:81159
- Kawahara, Masanori (with Ohta, Nobuyoshi; Suzuki, Hisao) Conformal field theories realized by free fields. 91e:81083
- Lacki, Jan Algebres de dimension infinie, groupes des tresses et groupes quantiques dans les théories conformes à deux dimensions. [Infinite-dimensional algebras, braid groups and quantum groups in two-dimensional conformal theories] 91f:81084
- (with Ruiz-Altaba, M.; Zaugg, P.) Modular transformations of $c \geq 1$ Virasoro characters. 91f:17042
- see also Altschuler, Daniel; et al., 91a:17028
- LeClair, André see Bernard, Denis, 91k:81149
- Lee, Jungjae (with Chung, Won-Sang; Kang, Sin Kyu; Kim, Jae Kwan) Two-dimensional quantum gravity and current algebra on a torus. 91f:81191
- see also Chung, Won-Sang; et al., 91h:81137
- Lee, Taejin see Kim, Jewan, 91m:81252
- Lettes, D. A. see Chaichian, M.; et al., 91h:17025
- Lerda, A. see Frau, M.; et al., 91h:81140
- Lesniewski, Andrzej see Jaffe, Arthur M.; et al., 91d:17045
- van de Leur, J. W. see Kac, Victor G., 91a:17033
- Levi, A. R. BRST quantization of twisted Kac-Moody algebras. 91f:81218
- Lewellen, David C. Embedding higher-level Kac-Moody algebras in heterotic string models. 91m:81212
- Li, Kang see Hou, Bo Yu; et al., 91g:17035
- Li, Keke Some Landau-Ginzburg models from conformal field theory. 91c:81141
- Lian, Bong H. (with Zuckerman, Gregg J.) BRST cohomology of the super-Virasoro algebras. 91g:17023
- Linetkii, V. Ya. see Fradkin, E. S., 91e:17017; 91f:81180; 91k:17014; 91e:17031 and 91e:81072
- Lopez, Jorge L. see Ellis, Jonathan Richard; et al., 91f:81242
- Lukierski, Jerzy see Chaichian, M.; et al., 91h:17025 and 91m:17014
- Lusanna, Luca Lagrangian and Hamiltonian many-time equations. 91k:81195
- Lütken, C. A. see Fubini, S., 91m:81334
- Mack, Gerhard Introduction to conformal invariant quantum field theory in two and more dimensions. 91d:81133
- Majid, Shahn see Beggs, Edwin J., 91k:17026
- Majumdar, Parthasarathi see Deligne, Pierre, 91d:17031
- Mansfield, Paul Conformally extended Toda theories. 91g:81144
- see also Hollowood, Tim, 91e:81077
- Marquard, U. (with Kaiser, Ralf Joachim; Scholl, Marcus) Lorentz algebra and critical dimension for the supermembrane. 91e:81081
- (with Scholl, Marcus) Lorentz algebra and critical dimension for the bosonic membrane. 91e:81060
- Marshakov, A. V. (with Morozov, A. Yu.) A note on W_3 algebra. 91k:81171
- see also Gerasimov, A. A.; et al., 91e:81075 and 91m:81245
- Martin, Paul P. String-like lattice models and Hecke algebras. 91g:82017
- Martinec, Emil J. String calculus: conformal field theory as a tool in string theory. 91e:81097
- Martins, Márcio José see Christe, P., 91g:81094
- McArthur, I. N. Characters of super-Kac-Moody algebras. 91f:17025
- McCarthy, James G. see Frau, M.; et al., 91h:81140
- McGlinn, W. see Gorman, N.; et al., 91e:17035
- Medvedev, P. B. see Arefeva, I. Ya.; et al., 91f:81136
- Mickelsson, Jouko On the quantization of a Yang-Mills system with fermions in $(1+1)$ dimensions. 91e:81107
- Miki, Kei The representation theory of the $SO(3)$ invariant superconformal algebra. 91j:17029
- Milkyuk, I. V. Unitary representations of the generalized Virasoro current algebra. 91f:17028
- Mironov, A. D. (with Morozov, A. Yu.) On the origin of Virasoro constraints in matrix models: Lagrangian approach. 91m:81258
- Mohammadi, Nouredine On the unitarity of string propagation on $SU(1, 1)$. 91m:81216
- Mokhtari, Susan see Helayil-Neto, José A.; et al., 91f:81185
- Morozov, A. Yu. (with Perelomov, A. M.; Rosly, A. A.; Shifman, M. A.; Turbiner, A. V.) Quasi-exactly-solvable quantum problems: one-dimensional analogue of rational conformal field theories. 91d:81134

- (with Shifman, M. A.; Turbiner, A. V.) Continuous Sugawara-like realization of $c = 1$ conformal models. 91g:81145
- On the concept of a universal W algebra. 91e:17033
- see also Gerasimov, A. A.; et al., 91i:81075; Marshakov, A. V., 91k:81171; Gerasimov, A. A.; et al., 91m:81245 and Mirzakov, A. D., 91m:81258
- Makida, Hisamitsu see Iso, Satoshi; et al., 91j:81080
- Mukhi, Sanil (with Panda, Sudhakar) Fractional-level current algebras and the classification of characters. 91j:17037
- Naculich, Stephen G. (with Schnitzer, Howard J.) Duality between $SU(N)_k$ and $SU(k)_N$ WZW models. 91k:81175
- (with Schnitzer, Howard J.) Duality relations between $SU(N)_k$ and $SU(k)_N$ WZW models and their braid matrices. 91g:81146
- (with Riggs, H. A.; Schnitzer, Howard J.) Group-level duality in WZW models and Chern-Simons theory. 91h:81150
- Nakanishi, Tomoki Radical root structure of conformal algebra. 91c:17015
- Nonunitary minimal models and RSOS models. 91e:82028
- Nam, Soonkeon Perturbed $c > 1$ conformal field theories and generalized Toda field theories. 91g:81147
- Nanopoulos, D. V. see Ellis, Jonathan Richard; et al., 91f:81242
- Narain, K. S. see Dhar, Avinash; et al., 91c:83038 and Jayaraman, T.; et al., 91h:17046
- Navarro-Salas, José see Aldaya, Victor, 91d:58066
- Nemeschansky, Dennis see Bars, Itzhak, 91k:81121
- Neveu, A. (with West, Peter C.) Vertex operator construction of unitary conformal theories. 91h:81134
- van Nieuwenhuizen, Peter see Schoutens, Kareljan; et al., 91a:81124; 91e:81060 and 91j:81066
- Novikov, S. P. Complex analysis on Riemann surfaces motivated by the operatorial string theory. 91d:17036
- see also Krichever, Ios. M., 91k:17036
- Nuyts, Jean see Fairlie, David, 91f:17027
- Obers, N. A. see Halpern, M. B.; et al., 91d:17035
- Ohta, Nobuyoshi (with Suzuki, Hisao) $N = 2$ superconformal models and their free field realization. 91m:81263
- see also Kuwahara, Masanori; et al., 91h:81083
- Ojima, Shuichi A note on Krichever-Novikov-Kac-Moody algebra on Riemann surfaces. 91j:17048
- Olczyk, T. L. (with Panigrahi, Prasanta K.; Ramaswamy, Sriram) Canonical structure of the $O(3)$ nonlinear sigma model with a topological term. 91c:81164
- Ofshanskiy, M. A. see Gerasimov, A. A.; et al., 91m:81245
- O'Raifeartaigh, L. see Gorman, N.; et al., 91h:17035
- Osipov, A. A. see Kashaev, R. M., 91h:81151
- Palla, László see Horváth, Zoltán; et al., 91c:81161
- Panda, Sudhakar Fractional level current algebras and spectrum of $C < 1$ minimal models coupled to gravity. 91j:81083
- see also Mukhi, Sanil, 91j:17037
- Panigrahi, Prasanta K. see Olczyk, T. L.; et al., 91c:81164
- Papadopoulos, N. A. see Händling, R.; et al., (Not in MR)
- Park, Q-Han KdV type equations from gauged WZW models and conformal-like gauge of W -gravity. 91h:58066
- Paul, Samir K. (with Sasaki, Ryu; Yoshii, Hisaohiro) Supersymmetric generalization of extended conformal algebras. 91d:17037
- Paunov, Roman (with Todorov, Ivan T.) Rational conformal field theories and Zamolodchikov-Fateev parafermions. (German summary) 91f:81195
- Perlmutter, A. M. see Morozov, A. Yu.; et al., 91d:81134
- Pestov, V. G. Even sectors of Lie superalgebras as locally convex Lie algebras. 91m:17002
- Petersen, J. L. (with Taormina, Anne) Characters of the $N = 4$ superconformal algebra with two central extensions. 91e:17022
- (with Taormina, Anne) Characters of the $N = 4$ superconformal algebra with two central extensions. II. Massless representations. 91e:17023
- see also Günaydin, M.; et al., 91e:17018
- Piguet, O. (with Schwarz, Dominik; Schweda, M.) Extended global symmetries of the bosonic string. Their current algebra and anomalies. 91h:81128
- Placzon, Georges see Benamar, Hédi, 91g:17021
- Poghosian, R. H. Operator algebra in two-dimensional conformal field theory containing spin $4/3$ "parafermionic" conserved currents. 91m:81266
- Pohlmeier, K. Solution of the constraints for tensors generated by iterated integrals. 91d:81110
- Ponzano, G. see Caselle, M., 91h:81136
- Pope, C. N. (with Sergin, Ergin) A generalised Virasoro algebra for the type IIA superstring. 91f:81158
- (with Romans, L. J.; Shen, Xiang) A new higher-spin algebra and the lone-star product. 91h:17017
- (with Romans, L. J.; Shen, Xiang) Ideals of Kac-Moody algebras and realisations of W_∞ . 91h:17027
- (with Shen, Xiang) Higher-spin theories, W_∞ algebras and their super-extensions. 91h:17031
- (with Romans, L. J.; Shen, Xiang) The complete structure of W_∞ . 91k:17032
- see also Bergshoeff, E. A.; et al., 91f:17018; 91k:81148 and 91m:81231
- Popowicz, Zbigniew see Chaichian, M.; et al., 91k:17018
- Perrati, Massimo see Halpern, M. B.; et al., 91d:17035
- Qiu, Sen A vanishing condition for cohomology groups of the Virasoro algebra. (Chinese. English summary) 91j:17025
- Radak, B. see DePreux, Didier A.; et al., 91k:81125
- Ragoucy, E. (with Sorba, P.) Super-Kac-Moody algebras and the $N = 2$ superconformal case. 91k:17047
- see also Hornfeck, K., 91h:17015; Coquereaux, R.; et al., 91m:17036 and Frappat, L.; et al., 91m:17038
- Ramaswamy, Sriram see Olczyk, T. L.; et al., 91c:81164
- Ramos, Eduardo (with Sah, Chih-Han; Shrock, R. E.) Algebras of diffeomorphisms of the N -torus. 91j:17043
- see also Figueiredo, Francisco, 91d:17027
- von Reichenbach, Cecilia see Fradkin, Eduardo; et al., 91h:81196
- Riggs, H. A. see Naculich, Stephen G.; et al., 91h:81150
- Rivlin, Gil Classification of 2- and 3-field rational conformal field theories. 91m:81268
- Roberts, Patrick Modular invariance of minimal models from self-dual lattices. 91j:81084
- Roditi, L. see Altschüler, Daniel; et al., 91a:17028
- Romans, L. J. see Bergshoeff, E. A.; et al., 91f:17018; Pope, C. N.; et al., 91h:17017; 91h:17027; 91k:17032; Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Rosly, A. A. see Morozov, A. Yu.; et al., 91d:81134
- Rostand, Bruno see Gervais, Jean-Loup, 91j:81076
- Roy, Shihaji Superconformal anomaly on the super-torus. 91m:81270
- Ruiz-Altaba, M. see Lacki, Jan; et al., 91j:17042
- Russo, Jorge G. Bosonization and fermion vertices on an arbitrary genus Riemann surface by using a global operator formalism. 91j:17049
- Saeki, Yoji see Kawamoto, Noboru, 91g:81139
- Sah, Chih-Han see Ramos, Eduardo; et al., 91j:17043
- Saito, Takeshi see Kunimasa, Tsunaka, 91k:81166
- Sarmadi, M. H. see Jayaraman, T.; et al., 91h:17046
- Sasaki, Ryu (with Yamanaka, Itaru) An infinite set of quantum commuting operators related with soliton equations and the Virasoro algebra. 91h:58053
- see also Paul, Samir K.; et al., 91d:17037 and Braden, Harry W.; et al., 91k:81150
- Savel'ev, M. V. On some connections and extensions of W -algebras. 91j:17030
- Schaller, Peter see Boredeau, Martin; et al., 91d:17025
- Schaposnik, Fidel A. see Fradkin, Eduardo; et al., 91h:81196
- Scheck, Florian see Händling, R.; et al., (Not in MR)
- Schleich, Christoph see Fuchs, Jürgen; et al., 91c:81095
- Schellekens, A. N. (with Yankielowicz, S.) Extended chiral algebras and modular invariant partition functions. 91g:81149
- (with Yankielowicz, S.) Simple currents, modular invariants and fixed points. 91h:17023
- Fusion rule automorphisms from integer spin simple currents. 91g:81151
- Electric charge quantization in string theory. 91m:81222
- Schlichenmaier, Martin Krichever-Novikov algebras for more than two points. 91a:17039
- Schultze, Howard J. see Naculich, Stephen G., 91g:81146; 91h:81150 and 91k:81175
- Scholl, Marcus see Marquard, U.; et al., 91c:81081 and 91h:81060
- Schoutens, Kareljan (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Quantum BRST charge for quadratically nonlinear Lie algebras. 91a:81124
- (with Sevrin, Alexander; van Nieuwenhuizen, Peter) A new gauge theory for W -type algebras. 91e:81060
- (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Covariant w_∞ gravity and its reduction to W_N gravity. 91h:81066
- see also Bais, F. A.; et al., 91d:17034
- Schraas, Stany (with Troost, Walter) Generalized Virasoro constructions for $SU(3)$. 91j:17044
- see also Figueroa-O'Farrill, José M., 91j:17028
- Schwartz, Dominik see Piguet, O.; et al., 91h:81128
- Schweda, M. see Piguet, O.; et al., 91h:81128
- Schwiebert, Christian A simple algebraic derivation of Schwinger terms from chiral anomalies. 91e:81101
- Sciarrino, A. see Frappat, L.; et al., 91g:17029
- Sciuto, S. see Frau, M.; et al., 91h:81140
- Scoppola, Benedetto see Falciati, Fernando, 91m:81242
- Sodrakyan, A. G. see Karakhanian, D. R., 91h:81081
- Semikhatov, A. M. On the toroidal compactifications of bosonic strings in higher genus. 91h:81092
- Operator bosonization on Riemann surfaces: new vertex operators. 91k:81140
- Operator bosonization on Riemann surfaces: genus-changing processes. 91m:81273
- Sen, Diprimitan Extended supersymmetry in the space-time $R \times S^1$. 91d:81068
- Servin, Alexander (with Theodoridis, Georgios) $N = 4$ superconformal coset theories. 91j:81085
- see also Schoutens, Kareljan; et al., 91a:81124; 91e:81060 and 91h:81066
- Sergin, Ergin see Bergshoeff, E. A.; et al., 91f:17018; Pope, C. N., 91f:81158; Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Shatashvili, S. L. see Gerasimov, A. A.; et al., 91m:81245
- Shen, Jian Min see Xu, Kai Wen; et al., 91a:17004 and Chang, Zhe; et al., 91f:17032
- Shen, Xiang see Bergshoeff, E. A.; et al., 91f:17018; Pope, C. N.; et al., 91h:17017; 91h:17027; 91k:17031; 91k:17032; Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Shifman, M. A. see Morozov, A. Yu.; et al., 91d:81134 and 91g:81145
- Shrock, R. E. see Ramos, Eduardo; et al., 91j:17043
- Sidenius, J. see Frau, M.; et al., 91h:81140
- Smith, A. William see Helayir-Neto, José A.; et al., 91f:81185
- Solodukhin, S. N. The two-dimensional gauge anomaly as a curvature. 91h:81161
- Geometrical description of the anomalous Virasoro algebra. 91h:17027
- Sonnenschein, Jacob Chiral bosons. 91a:81127
- Sorba, P. see Frappat, L.; et al., 91g:17029; Ragoucy, E., 91h:17047; Coquereaux, R.; et al., 91m:17036 and Frappat, L.; et al., 91m:17038
- Spiegelglas, Mordechai Spin sums, fusion rules and correlators by filling. 91j:17038
- Stelle, K. S. see Bergshoeff, E. A.; et al., 91g:17039 and 91m:81231
- Štrobil, P. Quantization and systems of imprimitivity for the group of diffeomorphisms. 91g:22028
- Sun, Chang Pu (with Fu, Hong Chen) New realization of the loop algebras and their indecomposable modules. (Italian and Russian summaries) 91d:17033
- Suryani, Peter see Dunne, Gerald V.; et al., 91f:81174
- Surridge, M. see Bais, F. A.; et al., 91h:17034
- Suzuki, Hisao see Kuwahara, Masanori; et al., 91h:81083 and Ohta, Nobuyoshi, 91m:81263
- Tahiri, M. see Djemai, A. E. F., 91g:81175
- Talalov, S. V. The spinning string in four-dimensional space-time as a model of the $SL(2, C)$ chiral field with anomaly. I. 91d:81114
- The spinning string in four-dimensional space-time as a model of the $SL(2, C)$ chiral field with anomaly. II. 91j:81072
- Tanaka, Katsumi Solvable two-dimensional models and the Virasoro algebra. 91h:81040

- Tanaka, Masaru *see* Fujii, Kazuyuki, 91e:58207
- Tormenta, Anne *see* Günaydin, M.; et al., 91e:17018; Petersen, J. L., 91e:17022 and 91e:17023
- Tarlini, Marco *see* Cecchini, R., 91g:17003
- Teotônio Sobrinho, P. *see* Ferreira, L. A.; et al., 91e:17031
- Theodoridis, Georgios *see* Sevrin, Alexander, 91j:81085
- Thaillier, F. *see* Frappat, L.; et al., 91m:17038
- Todorov, Ivan T. *see* Pausov, Roman, 91f:81195
- Tolar, J. *see* Doebner, H.-D., 91f:58034
- Troost, Walter *see* Schrans, Stany, 91j:17044
- Tseytlin, A. A. (with West, Peter C.) Two remarks on chiral scalars. 91d:81059
- Tsukada, Haruo String path integral realization of vertex operator algebras. 91m:17044
- Turbine, A. V. *see* Morozov, A. Yu.; et al., 91d:81134 and 91g:81145
- Van Proeyen, Antoine *see* Günaydin, M.; et al., 91e:17018
- Vashakidze, Sh. I. *see* Dupireux, Didier A.; et al., 91k:81125
- Vasil'ev, M. A. Quantization on sphere and high-spin superalgebras. 91k:81080
- Vayonakis, C. E. Constraints on higher Kac-Moody level standard-like models from renormalization group equations. 91m:81169
- Vecsernyés, P. *see* Horváth, Zoltán; et al., 91c:81161
- Verlinde, Erik (with Verlinde, Herman) A solution of two-dimensional topological quantum gravity. 91f:32025
- Verlinde, Herman Conformal field theory, two-dimensional quantum gravity and quantization of Teichmüller space. 91c:81149
- *see also* Verlinde, Erik, 91j:32025
- Vinet, Luc *see* Durand, Stéphane, 91b:81030 and 91g:81031
- Vladimirov, V. V. A conformal-anomaly renormalization algorithm and quantization of a bosonic string. 91k:81144
- Wadia, Spenta R. *see* Dhar, Avinash; et al., 91c:83038
- Wallet, J.-C. *see* Abad, Mario; et al., 91e:81091
- Walton, Mark A. Fusion rules in Wess-Zumino-Witten models. 91g:81152
- Algorithm for WZW fusion rules: a proof. 91k:81180a
- Errata: "Algorithm for WZW fusion rules: a proof". 91k:81180b
- Wang, Pei *see* Hou, Bo Yu; et al., 91e:81078
- Wang, Shi Kun *see* Chang, Zhe; et al., 91f:17032
- Warner, Nicholas P. The supersymmetry index and the construction of modular invariants. 91e:17024
- Watts, G. M. T. Determinant formulae for extended algebras in two-dimensional conformal field theory. 91d:17038
- *W/B* algebra representation theory. 91h:17018
- *W*-algebras and coset models. 91m:17030
- Weiss, Winfried R. E. *see* Hannabuss, K. C., 91k:17002
- West, Peter C. *see* Neveu, A., 91b:81134 and Tseytlin, A. A., 91d:81059
- Williams, D. *see* Gorman, N.; et al., 91f:17035
- Wu, Ke *see* Chang, Zhe; et al., 91f:17032
- Xu, Kai Wen (with Shen, Jian Min; Guo, Han Ying) A super-Beltrami algebra of super-quasiconformal transformations. (Chinese. English summary) 91a:17004
- (with Zhao, Zhi Yong) $N = 2$ superconformal algebra, Ward identities and differential equations for correlators on super-Riemann surfaces. 91m:81275
- *see also* Chang, Zhe; et al., 91f:17032
- Yamanaka, Itaru *see* Sasaki, Ryo, 91h:58053
- Yamron, Jonathan P. *see* Halpern, M. B.; et al., 91d:17035 and 91e:17020
- Yang, Sung-Kil *see* Eguchi, Tetsu, 91g:81135
- Yankielowicz, S. *see* Schellekens, A. N., 91g:81149 and 91h:17023
- Ye, Chang-Yuan *see* Ekin, Alex, 91c:81082
- Yoshi, Hisahiro *see* Paul, Samir K.; et al., 91d:17037
- Yoo, Chung-Ki *see* Chung, Won-Sang; et al., 91h:81137
- Yur'ev, D. V. A model of Verma modules over the Virasoro algebra. 91g:17034
- *see also* Kirillov, A. A., 91k:17029
- Zachos, Cosmas *see* Fairlie, David; et al., 91k:17020
- Zamolodchikov, Aleksandr B. Exact solutions of conformal field theory in two dimensions and critical phenomena. 91m:81276
- Zaugg, P. *see* Lacki, Jas; et al., 91j:17042
- Zhang, R. B. (with Gould, M. D.) Classification of star and grade-star representations of $C(n+1)$. 91g:17038
- Zhan, Zhi Yong *see* Xu, Kai Wen, 91m:81275
- Zheng, Hai Bin (with Ho-Kim, Q.) Twisted characters and partition functions in extended Virasoro algebras. 91g:17035
- Zimmerman, A. H. *see* Ferreira, L. A.; et al., 91e:17031
- Zubarev, A. P. *see* Arefeva, I. Ya.; et al., 91f:81136
- Zuckerman, Gregg J. *see* Lian, Bong H., 91f:17023
- Zaynik, B. M. Nilpotent algebras of the generalized differential forms and the geometry of superfield theories. 91m:83090
- 81R20 Covariant wave equations**
- Arhansky, R. I. *see* Saad, David; et al., 91f:81062
- Bracken, A. J. (with Cant, A.) Singular indecomposable representations of $sl(2, \mathbb{C})$ and relativistic wave equations. 91f:81059
- Cant, A. *see* Bracken, A. J., 91f:81059
- Cox, W. On the Lagrangian and Hamiltonian constraint algorithms for the Rarita-Schwinger field coupled to an external electromagnetic field. 91f:81060
- Crater, H. W. (with Van Alstine, P.) Extension of two-body Dirac equations to general covariant interactions through a hyperbolic transformation. 91k:81060
- Davies, Andrew J. Quaternionic Dirac equation. 91c:81024
- Faessler, Amand *see* Viollier, R. D.; et al., 91k:81069
- Franklin, E. S. (with Metsaev, R. R.) A cubic interaction of totally symmetric massless representations of the Lorentz group in arbitrary dimensions. 91m:81092
- Good, R. H., Jr. Relativistic wave equations for particles in electromagnetic fields. 91h:81048
- Gruber, Bruno (with Lorente, Miguel) Wave equations invariant under indecomposable representations of the Lorentz group. 91h:81051
- Heidenreich, Wolfgang (with Lorente, Miguel) Bargmann-Wigner equations in de Sitter space. 91e:81038
- Unitarizable scalar multipoles. 91m:81093
- Horwitz, L. P. *see* Saad, David; et al., 91f:81062
- Kamefuchi, S. *see* Omote, M.; et al., 91e:81041
- Karpenko, D. Ya. The Cauchy problem in relativistic quantum theory (generalization of the Riemann method). (Russian) 91e:81068
- Kędzia, Katarzyna *see* Lawrynowicz, Julian; et al., 91f:81061
- Ketov, S. V. (with Prager, Ya. S.) On the "square root" of the Dirac equation within extended supersymmetry. 91k:81061
- Królikowski, Wojciech Dirac equation with hidden extra spins: a generalization of Kähler equation. 91e:81039
- Dirac equation with hidden extra spins: a generalization of Kähler equation. II. 91e:81027
- Lagno, V. I. Triples of commuting nonlocal symmetry operators of an eight-component Dirac equation. (Russian) 91e:81040
- Lawrynowicz, Julian (with Kędzia, Katarzyna; Wojtczak, Leszek) Fields connected with particles in terms of complex-Riemannian geometry. 91f:81061
- Lorente, Miguel *see* Heidenreich, Wolfgang, 91e:81038 and Gruber, Bruno, 91h:81051
- Metsaev, R. R. *see* Fradkin, E. S., 91m:81092
- Negro, Javier (with del Olmo, Mariano A.) Local realizations of kinematical groups with a constant electromagnetic field. II. The nonrelativistic case. 91m:81094
- Niederer, Jiri Relativistic field equations based on indecomposable representations of $sl(2, \mathbb{C})$. 91h:81052
- Ohnuki, Yoshio *see* Omote, M.; et al., 91e:81041
- del Olmo, Mariano A. *see* Negro, Javier, 91m:81094
- Omote, M. (with Kamefuchi, S.; Takahashi, Yasushi; Ohnuki, Yoshio) Galilean covariance and the Schrödinger equation. 91e:81041
- Omnès, S. P. Invariance algebras of two-particle covariant equations. (Russian) 91e:81042
- On the compatibility of a Poincaré-covariant system of equations. (Russian. English summary) 91c:81025
- Infinite-component systems of equations of Dirac type. 91m:81095
- Prager, Ya. S. *see* Ketov, S. V., 91k:81061
- Rehberg, Joachim Multiplicity of the representation of the Poincaré group on the space of two-particle states. 91d:81043
- Saad, David (with Horwitz, L. P.; Arhansky, R. I.) Off-shell electromagnetism in manifestly covariant relativistic quantum mechanics. 91f:81062
- Scholtz, F. G. *see* Viollier, R. D.; et al., 91k:81069
- Spehler, D. Effective interactions involving massive and massless particles of spin $\frac{1}{2}$, 1, $\frac{3}{2}$, and 2. 91h:81049
- Sun, Zong Yang Conformally invariant spinor equations and their applications. (Chinese. English summary) 91c:81026
- Takahashi, Yasushi *see* Omote, M.; et al., 91e:81041
- Van Alstine, P. *see* Crater, H. W., 91k:81060
- Vasil'ev, M. A. Consistent equations for interacting gauge fields of all spins in $3+1$ dimensions. 91k:81062
- Viollier, R. D. (with Faessler, Amand; Scholtz, F. G.) Chiral particles in $d = 3 + 1$ dimensions from Majorana-Weyl spinors in $d = 4 + 4$ dimensions. 91a:81069
- Vladimirov, V. S. (with Volovich, I. V.) Construction of local and nonlocal conservation laws for nonlinear field equations. (German summary) 91m:81096
- Volovich, I. V. *see* Vladimirov, V. S., 91m:81096
- Wojtczak, Leszek *see* Lawrynowicz, Julian; et al., 91f:81061
- Zhelnorovich, V. A. Complex vector triads in the theory of spinors in Minkowski space. 91j:81026
- Items with secondary classifications in 81R20**
- Andreitsev, A. Yu. *see* Zhdanov, R. Z., 91k:58143
- Baez, John C. Scattering and complete integrability in conformally invariant nonlinear theories. 91e:81196
- Bagrov, V. G. (with Samsonov, B. F.; Shapovalov, A. V.; Shirokov, I. V.) Subalgebras of the algebra of the conformal group with nontrivial center. 91f:17008
- (with Samsonov, B. F.; Shapovalov, A. V.; Shirokov, I. V.) Identities on solutions of the wave equation in the enveloping algebra of the conformal group. 91g:58298
- (Bremley, D. A.) *see* Greiner, Walter, 91k:81062
- Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann-Cartan spaces. II. 91f:81121
- Campolattaro, Alfonso A. Generalized Maxwell equations and quantum mechanics. I. Dirac equation for the free electron. 91f:81238
- Fushchich, V. I. (with Shiten' V. M.; Serov, N. I.) ★ Симметричный анализ и точные решения нелинейных уравнений математической физики. (Russian) [Symmetry analysis and exact solutions of nonlinear equations of mathematical physics] 91e:58213
- Georgiev, Vladimir S. Global solution to the Maxwell-Dirac equations. 91a:35142
- Greiner, Walter ★ Relativistic quantum mechanics. 91k:81002
- Hussain, Faheem (with Körner, J. G.; Thompson, George) Relativistic SU(6) wave functions as the basis of modern approaches to hadronic wave functions. (Not in MR)
- Keller, Jaime (with Rodríguez-Romo, Suemi) A multivectorial Dirac equation. 91j:53036
- Kobayashi, Masanori (with Takahashi, Yasushi) The Rarita-Schwinger paradoxes in the theory with an auxiliary field. (Italian and Russian summaries) 91i:81098
- Körner, J. G. *see* Hussain, Faheem; et al., (Not in MR)
- Pashner, A. I. (with Sorokin, D. P.) $n = 4$ superfield description of relativistic spinning particle mechanics. 91m:81080
- Pfister, W. (with Rosa, Marcio A. F.; Stumpf, Harald) Vector boson states as solutions of generalized Bargmann-Wigner equations. (Italian and Russian summaries) 91a:81234
- Rodríguez-Romo, Suemi *see* Keller, Jaime, 91j:53036
- Rosa, Marcio A. F. *see* Pfister, W.; et al., 91a:81234
- Samsonov, B. F. *see* Bagrov, V. G.; et al., 91g:58298 and 91f:17008
- Serov, N. I. *see* Fushchich, V. I.; et al., 91e:58213
- Shapovalov, A. V. *see* Bagrov, V. G.; et al., 91g:58298 and 91f:17008

- Shirokov, I. V. *see* Bagrov, V. G.; et al., 91g:58298 and 91i:17008
 Shtelen, V. M. (with Spichak, S. V.) On the invariance of the Dirac equation with respect to different representations of the Poincaré algebra. (Russian) 91c:58150
 — *see also* Fushchich, V. I.; et al., 91c:58213
 Sorokin, D. P. *see* Pashnev, A. I., 91m:81080
 Spichak, S. V. A new second-order conformally invariant equation for a spinor field. (Russian) 91h:35271
 — *see also* Shtelen, V. M., 91c:58150
 Stumpf, Harald *see* Pfister, W.; et al., 91a:81234
 Takahashi, Yasushi *see* Kobayashi, Masanori, 91i:81098
 Thompson, George *see* Hussain, Faheem; et al., (Not in MR)
 Zhdanov, R. Z. (with Andreitsev, A. Yu.) Non-Lie reduction of Galilei-invariant spinor equations. (Russian. English summary) 91k:58143

81R25 Spinor and twistor methods [see also 32L25]

- Bailey, T. N. (with Singer, Michael A.) On the twistor description of sourced fields. 91f:81063
 Bandyopadhyay, Pratul (with Ghosh, Pradip) Twistor geometry, spinor structure and nature of superspace. 91i:81028
 Crawford, J. P. Bispinor geometry for even-dimensional space-time. 91h:81053
 Ghosh, Pradip *see* Bandyopadhyay, Pratul, 91i:81028
 Perjés, Zoltán Twistor string models. 91m:81097
 Plyushchal, M. S. Lagrangian formulation for the massless (super)particles in (super)twistor approach. 91g:81048
 Singer, Michael A. *see* Bailey, T. N., 91f:81063
 Sorokin, D. P. (with Tkach, V. I.; Volkov, D. V.) Superparticles, twistors and Siegel symmetry. 91g:81049
 Tkach, V. I. *see* Sorokin, D. P.; et al., 91g:81049
 Volkov, D. V. *see* Sorokin, D. P.; et al., 91g:81049

Items with secondary classifications in 81R25

- (Bailey, T. N.) *see* Twistors in mathematics and physics, 91k:32033
 Bando, I. A. (with Zhebtukhin, A. A.) Twistors, harmonics, and zero-super- p -branes. 91h:81163
 — Multivalued action functionals, Lorentz harmonics, and spin. 91k:81189
 — A superparticle in Lorentz-harmonic superspace. 91m:81066
 Bandyopadhyay, Pratul Holomorphic quantum mechanics, conformal reflection and the internal symmetry of hadrons. 91g:81027
 (Baston, R. J.) *see* Twistors in mathematics and physics, 91k:32033
 Berkovits, Nathan A geometrical interpretation for the symmetries of the free Green-Schwarz heterotic superstring. 91m:81186
 Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann-Cartan spaces. II. 91f:81121
 Cassa, Antonio The cohomology groups $H^1(P^3 - P^1, \mathcal{O}(m))$. 91h:32026
 Crumeyrolle, Albert \star Orthogonal and symplectic Clifford algebras. 91a:53028
 Eisenberg, Yeshayahu Super twistors and super-Poincaré invariant actions for all linearized extended supersymmetric theories in 4 dimensions. 91c:81057
 — (with Solomon, Sorin) (Super-) field theories from (super-) twistors. 91a:81209
 — Infinite-dimensional algebra for all the (super-) field theories in four dimensions. 91d:81097
 Faessler, Amand *see* Viollier, R. D.; et al., 91a:81069
 Farach, Horacio A. *see* Li, De Ming; et al., 91i:15030
 Figueiredo, Vera L. (with de Oliveira, E. Capelas; Rodrigues, Waldyr A., Jr.) Covariant, algebraic, and operator spinors. 91d:53020
 — *see also* Rodrigues, Waldyr A., Jr., 91d:53022
 Gumenchuk, A. I. (with Sorokin, D. P.) Relativistic dynamics of superparticles and the twistor correspondence. 91f:81217
 Heidenreich, Wolfgang (with Lukierski, Jerzy) Quantized supertwistors, higher spin superalgebras and supersingletons. 91k:81056
 Huggett, S. A. (with Singer, Michael A.) Relative cohomology and projective twistor diagrams. 91f:32034
 Khenkin, G. M. *see* Novikov, R. G., 91c:32028
 Królkowski, Wojciech Dirac equation with hidden extra spins: a generalization of Kähler equation. 91c:81039
 Li, De Ming (with Poole, Charles P., Jr.; Farach, Horacio A.) Extensions of the general method of generating Clifford algebras and comparisons with various existing methods. 91i:15030
 Lindström, U. (with Roček, M.) $N = 2$ super Yang-Mills theory in projective superspace. 91f:81208
 Lohiya, Daksh On general "spin" connections, gravitation and electrodynamics. 91a:53110
 Lukierski, Jerzy *see* Heidenreich, Wolfgang, 91k:81056
 Madore, John Reduction of spinors in a noncommutative geometry. 91a:81120
 Merkalov, S. A. Superconformally flat superspace. 91c:83027
 Nair, V. P. (with Schiff, Jeremy) Topological gauge theory and twistors. 91i:81052
 Nash, P. L. On the structure of the split octonion algebra. (Italian and Russian summaries) 91d:15058
 Niederle, Jiri From twistors to supertwistors. 91m:32033
 Novikov, R. G. (with Khenkin, G. M.) Yang-Mills fields, the Radon-Penrose transform and the Cauchy-Riemann equations. (Russian) 91c:32028
 de Oliveira, E. Capelas *see* Figueiredo, Vera L.; et al., 91d:53020 and Rodrigues, Waldyr A., Jr., 91d:53021
 Park, Q-Han Self-dual gravity as a large- N limit of the 2D nonlinear sigma model. 91f:83029
 Poole, Charles P., Jr. *see* Li, De Ming; et al., 91i:15030
 Popov, A. D. BRST-quantization of bosonic strings and hypertwistors. 91j:81093
 Roček, M. *see* Lindström, U., 91f:81208
 Rodrigues, Waldyr A., Jr. (with de Oliveira, E. Capelas) Dirac and Maxwell equations in the Clifford and spin-Clifford bundles. 91d:53021

- (with Figueiredo, Vera L.) Real spin-Clifford bundle and the spinor structure of space-time. 91d:53022
 — *see also* Figueiredo, Vera L.; et al., 91d:53020
 Schiff, Jeremy *see* Nair, V. P., 91i:81052
 Scholtz, F. G. *see* Viollier, R. D.; et al., 91a:81069
 Siegel, Warren 1D bosonization, 3D extended superparticles, Chern-Simons, and twistors. (Not in MR)
 Singer, Michael A. *see* Huggett, S. A., 91f:32034
 Solomon, Sorin *see* Eisenberg, Yeshayahu, 91a:81209
 Sorokin, D. P. *see* Gumenchuk, A. I., 91f:81217
 Viollier, R. D. (with Faessler, Amand; Scholtz, F. G.) Chiral particles in $d = 3 + 1$ dimensions from Majorana-Weyl spinors in $d = 4 + 4$ dimensions. 91a:81069
 Ward, R. S. (with Wells, Raymond O., Jr.) \star Twistor geometry and field theory. 91b:32034
 Wells, Raymond O., Jr. *see* Ward, R. S., 91b:32034
 Zhebtukhin, A. A. *see* Bando, I. A., 91h:81163

Items listed otherwise than by author

Twistors in mathematics and physics \star Twistors in mathematics and physics. 91k:32033

81R30 Coherent states [see also 22E45]

- Anderson, Arlen On predicting correlations from Wigner functions. 91c:81043
 Arickx, F. (with Broeckhove, J.; Van Leuven, P.) On coherence properties of generalized Glauber states. (Italian and Russian summaries) 91a:81070
 Basu, Debabrata² (with Kar, T. K.) The Clebsch-Gordan problem of the angular momentum coherent states. (Not in MR)
 Beckers, J.-M. (with Debergh, N.) Coherent states in parasupersymmetric quantum mechanics. 91a:81071
 Bracken, A. J. *see* McAnally, D. S., 91f:81064
 Broeckhove, J. *see* Arickx, F.; et al., 91a:81070
 Debergh, N. On $(k = \frac{1}{2})$ coherent states for the harmonic oscillator. 91a:81072
 — *see also* Beckers, J.-M., 91a:81071
 Fan, Hong Yi¹ Normally ordered Fermi operator realization of the SU_n group. 91g:81050
 Gerry, Christopher C. $SU(1, 1)$ coherent-state dynamics: a path-integral approach. 91f:81029
 — (with Plumb, Marie F.) Evolution of $SU(1, 1)$ coherent states in harmonic oscillators with time-dependent masses. 91h:81054
 Gitman, D. M. (with Shlepin, A. L.) Coherent states connected with the groups $SU(N)$ and $SU(N, 1)$. 91c:81027
 — (with Kharchev, S. M.; Shlepin, A. L.) Coherent states of the groups $SU(N)$ and $SU(N, 1)$ and their applications in relativistic quantum theory. (Russian) 91h:81055
 Gray, Robert W. (with Nelson, Charles A.) A completeness relation for the q -analogue coherent states by q -integration. 91h:81056
 Gröbl, Gebhard Dynamical squeezing in quantum mechanics. 91d:81044
 Han, Daesoo (with Kim, Y. S.; Noz, Marilyn E.) Linear canonical transformations of coherent and squeezed states in the Wigner phase space. III. Two-mode states. 91k:81063
 Hecht, K. T. \star The vector coherent state method and its application to problems of higher symmetries. 91c:81028
 — Wigner coefficients for the proton-neutron quasispin group: an application of vector coherent state techniques. 91a:81073
 Honegger, Reinhard (with Rapp, Armin) General Glauber coherent states on the Weyl algebra and their phase integrals. 91m:81098
 — (with Rieckers, Alfred) The general form of non-Fock coherent boson states. 91d:81045
 Howard, Stephen D. (with Roy, Sanat K.) Coherent states as extreme energy states. 91g:81051
 Kar, T. K. *see* Basu, Debabrata², (Not in MR)
 Kashiwa, Tarō Periodic coherent states and a path integral for spins. 91g:81052
 Kasperkovitz, P. Quasiclassical descriptions of quantum systems based on coherent states: product formulae. 91m:81099
 Katriel, Jacob *see* Solomon, Allan I., 91k:81064
 Kharchev, S. M. *see* Gitman, D. M.; et al., 91c:81027
 Kim, Y. S. *see* Han, Daesoo; et al., 91k:81063
 Kramer, Peter *see* Papadopoulos, Z.; et al., 91a:81075
 Kuratsuji, Hiroshi (with Takada, Ken-Ichi) Quaternionic (alias $Sp(2)$) coherent state and Hilbert connection. 91h:81057
 Lawton, Wayne M. Necessary and sufficient conditions for constructing orthonormal wavelet bases. 91m:81100
 La, C. F. Squeezing in harmonic oscillator with time-dependent mass and frequency. 91g:81053
 Ma, Xia (with Rhodes, W.) Nonexistence of proper eigenstates of squeeze operators. (Italian and Russian summaries) 91a:81074
 Mann, Ady (with Revzen, M.; Nakamura, Koichi²; Umezawa, H.; Yamanaka, Y.) Coherent and thermal coherent state. 91j:81027
 McAnally, D. S. (with Bracken, A. J.) Quasiclassical states of the Coulomb system and so(4, 2). 91f:81064
 Malmer, Klaus *see* Slowikowski, Wojtek, 91j:81028
 Mufti, Asif Ali *see* Schmitt, H. A., 91g:81055 and 91m:81101
 Nakamura, Koichi² *see* Mann, Ady; et al., 91j:81027
 Nelson, Charles A. *see* Gray, Robert W., 91h:81056
 Noz, Marilyn E. *see* Han, Daesoo; et al., 91k:81063
 Papadopoulos, Z. (with Kramer, Peter; Schweizer, W.) On the coherent-state representation for the homogeneous spaces of $Sp(6, \mathbb{R})$. 91a:81075
 Plumb, Marie F. *see* Gerry, Christopher C., 91h:81054
 de Prunelé, E. $O(4, 2)$ coherent states and hydrogenic atoms. 91g:81054
 Quesne, C. On some Racah coefficients of $U(n)$. 91f:81065
 Rapp, Armin *see* Honegger, Reinhard, 91m:81098
 Revzen, M. *see* Mann, Ady; et al., 91j:81027
 Rhodes, W. *see* Ma, Xia, 91a:81074
 Rieckers, Alfred *see* Honegger, Reinhard, 91d:81045
 Roy, Sanat K. *see* Howard, Stephen D., 91g:81051

- Schmitt, H. A. (with Mufti, Asif Ali) Generalized coherent states as eigenstates of linearized quadratic Casimir operators. 91g:81055
 — (with Mufti, Asif Ali) Path integral formalism for the coherent states of the compact orthosymplectic supergroup $OSp(1/2)$. 91m:81101
 Schweizer, W. see Papadopoulos, Z.; et al., 91a:81075
 Sheplein, A. L. see Gitman, D. M., 91c:81027 and 91h:81055
 Siewikowski, Wojtek (with Melmer, Klaus) Squeezing of free Bose fields. 91j:81028
 Solomon, Allan I. (with Katriel, Jacob) On q -squeezed states. 91k:81064
 Svozil, K. Squeezed fermion states. 91h:81058
 Takada, Ken-Ichi see Kuratsuji, Hiroshi, 91h:81057
 Umezawa, H. see Mann, Ady; et al., 91j:81027
 Van Leuven, P. see Arickx, F.; et al., 91a:81070
 Wang, Fa Bo Properties of generalized coherent state representations and their applications. (Chinese. English summary) 91c:81029
 Yamanaka, Y. see Mann, Ady; et al., 91j:81027
 Yonel, Katsumi Use of the coherent states in evaluating the canonical density matrix for a harmonic oscillator. 91i:81030

Items with secondary classifications in 81R30

- Abdalla, M. Sehawe An anisotropic charged oscillator in the presence of a constant magnetic field. (Not in MR)
 Ali, S. Twareque (with Antoine, Jean-P.) Coherent states of the $1 + 1$ -dimensional Poincaré group: square integrability and a relativistic Weyl transform. (French summary) 91a:22011
 Antoine, Jean-P. see Ali, S. Twareque, 91a:22011
 Aravind, P. K. see Gong, J. J., 91m:81339
 Bary, Henri A unitary representation of $SL(2, \mathbb{R})$. 91h:33022
 Bartzis, V. see Jannussis, A.; et al., 91f:81264
 Barut, Asim O. Quantum theory of single events: localized de Broglie wavelets, Schrödinger waves, and classical trajectories. 91k:81008
 Besieris, Ioannis M. see Shaarawi, Amr M.; et al., 91i:81016
 Boschi Filho, Henrique see Vaidya, Arvind Narayan, 91f:81028
 Bose, Subir Kumar (with Dubey, U. B.; Varma, N.) Study of certain aspects of anharmonic, time-dependent and damped harmonic oscillator systems. 91h:81024
 Brihaye, Yves (with Giler, S.; Kosiński, Piotr; Małanka, Paweł) A note on nonintegrable phases and coherent states. 91i:81023
 Chaturvedi, S. (with Sandhya, R.; Srinivasan, V.; Simon, Rajiah) Thermal counterparts of nonclassical states in quantum optics. 91a:81247
 Chu, Shih-I see Layton, Eric; et al., 91a:81060
 Dodonov, V. V. (with Man'ko, V. I.) Universal invariants of quantum systems and generalized uncertainty relations. 91h:81198
 Dubey, U. B. see Bose, Subir Kumar; et al., 91h:81024
 Fan, Hong Yi Mapping of a classical transformation in Grassmann number space to a Fermi unitary operator. 91k:81067
 Gaeta, Z. Dačić (with Stroud, C. R., Jr.) Classical and quantum-mechanical dynamics of a quasiclassical state of the hydrogen atom. 91h:81032
 Galetti, D. see Mirzahi, S. S., 91d:81166
 Gao, Xiao Chun (with Xu, Jing Bo; Qian, Tie Zheng) The exact solution for the generalized time-dependent harmonic oscillator and its adiabatic limit. (Not in MR)
 Gerry, Christopher C. Quantum and classical dynamics of an anharmonic oscillator. 91d:81014
 Giler, S. see Brihaye, Yves; et al., 91i:81023
 Gong, J. J. (with Aravind, P. K.) Expansion coefficients of a squeezed coherent state in the number state basis. 91m:81339
 Huang, You Hong see Layton, Eric; et al., 91a:81060
 Jannussis, A. (with Skaltsas, D.) Harmonic oscillator with a complex parameter. (Not in MR)
 — (with Bartzis, V.; Vlahos, E.) Coherent and squeezed states in phase space. 91f:81264
 Janszky, J. (with Vinogradov, An. V.) Squeezing via one-dimensional distribution of coherent states. 91m:81341
 Johnson, Kenneth A. Functional integrals for spin. 91a:81091
 Kakazu, Kiyotaka see Kudaka, Shoju; et al., 91h:81017
 Kosiński, Piotr see Brihaye, Yves; et al., 91i:81023
 Král, P. Kerr interaction with displaced and squeezed Fock states. 91g:81184
 Kudaka, Shoju (with Matsumoto, Shuichi; Kakazu, Kiyotaka) Generalized coherent state approach to quantum measurement. 91h:81017
 Layton, Eric (with Huang, You Hong; Chu, Shih-I) Cyclic quantum evolution and Aharonov-Anandan geometric phases in $SU(2)$ spin-coherent states. 91a:81060
 Lebeuf, P. (with Voros, A.) Chaos-revealing multiplicative representation of quantum eigenstates. 91i:81021
 Leschke, Hajo (with Wonneberger, Siegfried) Phase-space aspects of quantum partition functions. (see 91k:81004)
 Lisiecki, W. Kaehler coherent state orbits for representations of semisimple Lie groups. (French summary) 91m:22024
 Lynch, Robert E. (with Mavromatis, Harry A.) N th (even)-order minimum uncertainty products. 91h:81199
 Maamache, M. (with Provost, J.-P.; Vallée, G.) Berry's phase, Hannay's angle and coherent states. 91m:81068
 — (with Provost, J.-P.; Vallée, G.) Berry's phase and Hannay's angle from quantum canonical transformations. 91m:81069
 Man'ko, V. I. see Dodonov, V. V., 91h:81198
 Małanka, Paweł see Brihaye, Yves; et al., 91i:81023
 Matsumoto, Shuichi see Kudaka, Shoju; et al., 91h:81017
 Mavromatis, Harry A. see Lynch, Robert E., 91h:81199
 Mirzahi, S. S. (with Galetti, D.) Squeezed states phase space representation and semiclassical approximations in many-body systems. 91d:81166
 Moschella, Ugo Classical limit of a quantum particle in an external Yang-Mills field. (French summary) 91c:81015
 Mur, V. D. (with Popov, V. S.) The $1/N$ expansion and coherent states. 91m:81038

- (with Popov, V. S.; Sergeev, A. V.) The $1/N$ expansion in quantum mechanics. 91m:81052
 Nieto, Michael Martin What are squeezed states really like? (see 91m:82002)
 Orland, Peter Bosonic path integrals for four-dimensional Dirac particles. 91f:81083
 Pan, Feng The matrix representation of U_4 in the $U_3 \times U_2$ basis and some isoscalar factors for $U_{p+q} \supset U_p \times U_q$. 91d:81040
 — The matrix representation of SO_7 in an $(SU_2)^3$ basis. 91m:81324
 Papaloucas, L. C. (with Rembieliński, J.) On the connection between quantisation schemes and coherent states. 91a:81085
 Polubarinov, I. V. ★ Continuous representation for spin $\frac{1}{2}$, quantum probability theory and Bell paradox. 91g:81005
 Popov, V. S. see Mur, V. D., 91m:81038 and 91m:81052
 Provost, J.-P. see Maamache, M.; et al., 91m:81068 and 91m:81069
 Qian, Tie Zheng see Gao, Xiao Chun; et al., (Not in MR)
 Quesne, C. Vector coherent state theory of the semidirect sum Lie algebras $wsp(2N, \mathbb{R})$. 91d:17009
 Rembieliński, J. see Papaloucas, L. C., 91a:81085
 Sandhya, R. see Chaturvedi, S.; et al., 91a:81247
 Schroeck, Franklin E., Jr. Quantum fields for reproducing kernel Hilbert spaces. 91a:81097
 Seip, Kristian Curves of maximum modulus in coherent state representations. (French summary) 91a:30018
 Sergeev, A. V. see Mur, V. D.; et al., 91m:81052
 Shaarawi, Amr M. (with Besieris, Ioannis M.; Ziolkowski, Richard W.) A novel approach to the synthesis of nondispersive wave packet solutions to the Klein-Gordon and Dirac equations. 91i:81016
 Simon, Rajiah see Chaturvedi, S.; et al., 91a:81247
 Skaltsas, D. see Jannussis, A., (Not in MR)
 Srinivasan, V. see Chaturvedi, S.; et al., 91a:81247
 Stroud, C. R., Jr. see Gaeta, Z. Dačić, 91h:81032
 Vaidya, Arvind Narayan (with Boschi Filho, Henrique) Algebraic calculation of the Green's function for the Hartmann potential. 91f:81028
 Vallée, G. see Maamache, M.; et al., 91m:81068 and 91m:81069
 Varma, N. see Bose, Subir Kumar; et al., 91h:81024
 Vinogradov, An. V. see Janszky, J., 91m:81341
 Vlahos, E. see Jannussis, A.; et al., 91f:81264
 Voros, A. see Lebeuf, P., 91i:81021
 Walls, D. F. Quantum statistics of nonlinear optics. (see 91m:82002)
 Wonneberger, Siegfried see Leschke, Hajo, (91k:81004)
 Xu, Jing Bo see Gao, Xiao Chun; et al., (Not in MR)
 Ziolkowski, Richard W. see Shaarawi, Amr M.; et al., 91i:81016
 Zyczkowski, Karol Indicators of quantum chaos based on eigenvector statistics. 91k:81039

81R40 Symmetry breaking

- Alford, M. G. (with Benson, Katherine; Coleman, Sidney; March-Russell, John; Wilczek, Frank) Interactions and excitations of nonabelian vortices. 91a:81076
 Artem'ev, A. Yu. Quantum Markov kinetic equation for a spin system with breaking. 91f:81066
 Benson, Katherine see Alford, M. G.; et al., 91a:81076
 Burgess, Mark (with Toms, David J.) One loop flux breaking by massive fields. 91c:81030
 Coleman, Sidney see Alford, M. G.; et al., 91a:81076
 Elizalde, E. (with Romeo, A.) Upper bounds to 1-loop symmetry restoration for the Goldstone model in $\mathbb{R}^{n+1} \times T^p$ in the low-mass and weak-coupling limit. 91i:81031
 Galindo, A. Spin of the fundamental state. (Spanish) 91g:81056
 Ivanov, Evgenii Alekseevich² (with Kapustinov, A. A.) Geometry of spontaneously broken local $N = 1$ supersymmetry in superspace. 91a:81077
 Kapustinov, A. A. see Ivanov, Evgenii Alekseevich², 91a:81077
 Karchev, Naum Symmetry breaking induced by topologically massive gauge fields. 91a:81078
 Lasignoli, M. (with Masiero, A.; Roncadelli, M.) Spontaneous versus explicit breaking of a continuous global symmetry. (Not in MR)
 March-Russell, John see Alford, M. G.; et al., 91a:81076
 Masiero, A. see Lasignoli, M.; et al., (Not in MR)
 McLachlan, A. Flux breaking at finite temperature in spacetimes with toroidal compactification. 91a:81079
 Romeo, A. see Elizalde, E., 91i:81031
 Roncadelli, M. see Lasignoli, M.; et al., (Not in MR)
 Sartori, G. Universality in orbit spaces of symmetry groups and in spontaneous symmetry breaking. 91h:81050
 Toms, David J. see Burgess, Mark, 91c:81030
 Wilczek, Frank see Alford, M. G.; et al., 91a:81076

Items with secondary classifications in 81R40

- Actor, Alfred Topological symmetry breaking in ϕ^4 theories on toroidal spacetime. 91f:81120
 del Aguila, F. (with Coughlan, G. D.; Masip, M.) Revising a class of three-generation models: mass spectrum, renormalisation-group and proton-decay constraints. (Not in MR)
 Atkinson, D. Bifurcation theory applied to chiral symmetry breaking. (see 91k:81005)
 Bagchi, Bijan Kumar see Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
 Cao, Xian Chuan Odd potentials in supersymmetric quantum mechanics. 91d:81028
 Cardy, John L. (with Mussardo, Giuseppe) Form factors of descendant operators in perturbed conformal field theories. 91k:81152
 Celeghini, Enrico (with Graziano, E.; Vitiello, G.) Classical limit and spontaneous breakdown of symmetry as an environment effect in quantum field theory. 91h:81070
 Chen, Sheng Hua see Yu, Yang Zheng; et al., 91d:81162
 Chen, Xiong Xiong see Yu, Yang Zheng; et al., 91d:81162
 Corrigan, E. Some aspects of twists and strings. 91c:81074
 Coughlan, G. D. see del Aguila, F.; et al., (Not in MR)

- Cugliandolo, Leticia F. (with Lozano, Gustavo; Manías, M. V.; Schaposnik, Fidel A.) Bogomol'nyi equations for nonabelian Chern-Simons-Higgs theories. 91m:81136
- Dabholkar, Atish (with Gibbons, Gary W.; Harvey, Jeffrey A.; Ruiz Ruiz, Fernando) Superstrings and solitons. 91f:83072
- Djebbour, M. Y. Intermediate scale breaking for orbifold compactified models with tetrahedral point group. 91e:81093
- Drechsler, W. Soldered bundles in particle physics. 91d:53099
- Fradkin, E. S. (with Pal'chik, M. Ya.) Solution of a class of conformal quantum field theory models in D -dimensional space. 91b:81127
- Fujitsu, Akira (with Kitazoe, Tetsuro; Tabuse, Masayoshi; Nishimura, Haruhiko) Classification of symmetry breaking patterns in heterotic strings on Z_3 orbifold. 91g:81117
- Gaeta, Giuseppe Bifurcation and symmetry breaking. 91c:58025
- Gauntlett, J. P. (with Yastremiz, C. F.) Massive superparticle in $d = 2 + 1$ and sigma model solitons. 91j:81090
- Gauthier, Claude (with Gravel, Pierre) Complément sur les constantes de couplage et les masses dans les théories de Kaluza-Klein avec un espace supérieur multiconnexé. (English, Italian and Russian summaries) [Complement on coupling constants and masses in Kaluza-Klein theories with a multiply connected higher space] 91c:83035
- Genz, Henning Symmetries and their breaking. (see 91f:00018)
- Gibbons, Gary W. see Dabholkar, Atish; et al., 91f:83072
- Gozi, E. (with Rohrlsch, Daniel; Thacker, W. D.) Classical adiabatic holonomy in field theory. 91j:81088
- Gravel, Pierre see Gauthier, Claude, 91c:83035
- Graziano, E. see Celeghini, Enrico; et al., 91b:81070
- Hansen, F. C. Finite-size effects in spontaneously broken $SU(N) \times SU(N)$ theories. (Not in MR)
- Harvey, Jeffrey A. see Dabholkar, Atish; et al., 91f:83072
- Helayël-Neto, José A. (with Mokhtari, Susan; Smith, A. William) Torsion-induced gauge superfield mass generation for gauge-invariant nonlinear σ -models. 91e:81102
- (with Smith, A. William) A higher-order analysis of the effects of breaking supersymmetry for nonlinear σ -models. 91b:81146
- Hlonsek, Zvonimir (with Spector, Donald) Supersymmetric anyons. 91h:81165
- Horráthy, Peter A. ★ Introduction to monopoles. 91f:81097
- Kerbrat, Yvan (with Kerbrat-Lunc, H.; Śniatycki, Jędrzej) How to get masses from Kaluza-Klein theory. 91b:83086
- Kerbrat-Lunc, H. see Kerbrat, Yvan; et al., 91b:83086
- Kitazoe, Tetsuro see Fujitsu, Akira; et al., 91g:81117
- Kleppe, Gary (with Ramond, P.; Viswanathan, R. Raju) Algebra of reparametrization-invariant and normal-ordered operators in open string field theory. 91a:81166
- Kotcheff, A. C. W. (with Shore, G. M.) Kähler sigma models from supersymmetric gauge theories. 91h:81147
- Kuznetsov, A. N. Topological field theory and local supersymmetry. 91d:81143
- Lahiri, Anuradha (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Supersymmetry in quantum mechanics. 91g:81028a
- (with Roy, Prodyot Kumar; Bagchi, Bijan Kumar) Erratum: "Supersymmetry in quantum mechanics". 91g:81028b
- Lee, Chang-Yeong (with Ne'eman, Yuval) Renormalization of gauge-affine gravity. 91d:83065
- Lima Santos, A. (with Marino, E. C.) Supersymmetry breaking, Kostant-Thouless transition and dimensional reduction in the supersymmetric sine-Gordon/Coulomb gas system. 91d:81078
- Lozano, Gustavo see Cugliandolo, Leticia F.; et al., 91m:81136
- Manías, M. V. see Cugliandolo, Leticia F.; et al., 91m:81136
- Marino, E. C. see Lima Santos, A., 91d:81078
- Masip, M. see del Aguila, F.; et al., (Not in MR)
- McLachlan, A. Flux-breaking in space-times with toroidal compactification. 91b:81051
- Merkel, U. Switching properties of supersymmetric quantum mechanics. (Italian and Russian summaries) 91b:81031
- Mokhtari, Susan see Helayël-Neto, José A.; et al., 91e:81102
- Moschella, Ugo (with Strocchi, Franco) The dipole field model. 91c:81064
- Mozzarynas, M. New class of nonlinear realizations of extended graded anti-de-Sitter supersymmetry $OSP(N, 4)$, $N \geq 2$. 91c:81156
- Mussarda, Giuseppe see Cardy, John L., 91k:81152
- Naculich, Stephen G. (with Schnitzer, Howard J.) Constructive methods for higher-genus correlation functions of level-one simply-laced WZW models. 91j:81082
- Ne'eman, Yuval (with Sternberg, Shlomo) Superconnections and internal supersymmetry dynamics. 91j:81092
- see also Lee, Chang-Yeong, 91d:83065
- Nishimura, Haruhiko see Fujitsu, Akira; et al., 91g:81117
- Nishio, Michio Remarks on Witten's model of supersymmetric quantum mechanics. 91a:81053
- Pal'chik, M. Ya. see Fradkin, E. S., 91b:81127
- Ramond, P. see Kleppe, Gary; et al., 91a:81166
- Rohrlsch, Daniel see Gozi, E.; et al., 91j:81088
- Roy, Prodyot Kumar see Lahiri, Anuradha; et al., 91g:81028a and 91g:81028b
- Ruiz Ruiz, Fernando see Dabholkar, Atish; et al., 91f:83072
- Schaposnik, Fidel A. see Cugliandolo, Leticia F.; et al., 91m:81136
- Schnitzer, Howard J. see Naculich, Stephen G., 91j:81082
- Shore, G. M. see Kotcheff, A. C. W., 91b:81147
- Smith, A. William see Helayël-Neto, José A., 91b:81146 and 91e:81102
- Śniatycki, Jędrzej see Kerbrat, Yvan; et al., 91b:83086
- Spector, Donald Supersymmetry and the Möbius inversion function. 91a:81055
- see also Hlonsek, Zvonimir, 91h:81165
- Sternberg, Shlomo see Ne'eman, Yuval, 91j:81092
- Strocchi, Franco see Moschella, Ugo, 91c:81064
- Tabuse, Masayoshi see Fujitsu, Akira; et al., 91g:81117
- Thacker, W. D. see Gozi, E.; et al., 91j:81088
- Viswanathan, R. Raju see Kleppe, Gary; et al., 91a:81166
- Vitiello, G. see Celeghini, Enrico; et al., 91b:81070
- Yastremiz, C. F. see Gauntlett, J. P., 91j:81090
- Yu, Yang Zheng (with Chen, Sheng Hua; Chen, Xiong Xiong) Breaking mechanisms in three-dimensional $O(N)$ supersymmetric theory. (Chinese. English summary) 91d:81162
- Zhitnitskiĭ, A. R. Torons, chiral symmetry breaking and the $U(1)$ problem in the σ -model and in gauge theories. 91j:81101

81R50 Quantum groups and related algebraic methods [see also 16W30, 17B37]

- Alvarez-Gaumé, L. Quantum groups and conformal field theories. (see 91m:00033)
- Carow-Watamura, U. (with Schlieker, M.; Scholl, Marcus; Watamura, S.) Tensor representation of the quantum group $SL_q(2, \mathbb{C})$ and quantum Minkowski space. 91m:81102
- Celeghini, Enrico (with Giachetti, Riccardo; Sorace, Emanuele; Tarlini, Marco) Three-dimensional quantum groups from contractions of $SU(2)_q$. 91b:81059
- Chang, Zhe (with Chen, Wei; Guo, Han Ying) $SU_{q,h} \rightarrow o(2)$ and $SU_{q,h}(2)$, the classical and quantum q -deformations of the $SU(2)$ algebra. 91k:81065
- Chen, Wei see Chang, Zhe; et al., 91k:81065
- Chung, Won-Sang (with Kang, Sin Kyu; Lee, Jungjae; Kim, Jae Kwan) Extended $N = 2$ superconformal algebra. 91a:81080
- Damaskinskiĭ, E. V. see Kulish, P. P., 91g:81058
- Floratos, E. G. The two anyon system and the q -oscillator. (see 91m:17024)
- Floresani, Roberto (with Spiridonov, V. P.; Vinet, Luc) Bosonic realization of the quantum superalgebra $osp_q(1, 2n)$. 91g:81057
- Ge, Mo Lin see Sun, Chang Pu, 91m:81104
- Giachetti, Riccardo see Celeghini, Enrico; et al., 91b:81059
- Groza, V. A. (with Kachurik, I. I.; Klimyk, A. U.) On Clebsch-Gordan coefficients and matrix elements of representations of the quantum algebra $U_q(su_2)$. 91m:81103
- Guo, Han Ying see Chang, Zhe; et al., 91k:81065
- Hou, Bo Yu (with Lie, Ding-Ping; Yue, Rui Hong) Quantum group structure in the unitary minimal model. 91a:81081
- Iwan, Sylwester Spectroscopy in Witten's quantum universal enveloping algebra of SU_2 and strength of deformation of its representation space. 91c:81031
- Kachurik, I. I. see Groza, V. A.; et al., 91m:81103
- Kang, Sin Kyu see Chung, Won-Sang; et al., 91a:81080
- Kim, Jae Kwan see Chung, Won-Sang; et al., 91a:81080
- Klimyk, A. U. see Groza, V. A.; et al., 91m:81103
- Kulish, P. P. (with Damaskinskiĭ, E. V.) On the q oscillator and the quantum algebra $su_q(1, 1)$. 91g:81058
- A two-parameter quantum group and a gauge transformation. (Russian. English summary) 91j:81029
- Lee, Jungjae see Chang, Won-Sang; et al., 91a:81080
- Lie, Ding-Ping see Hou, Bo Yu; et al., 91a:81081
- Macfarlane, A. J. On q -analogues of the quantum harmonic oscillator and the quantum group $SU(2)_q$. 91f:81067
- Ng, Y. Jack Comment on the q -analogues of the harmonic oscillator. 91g:81059
- van Nieuwenhuizen, Peter see Schoutens, Kareljan; et al., 91k:81066
- Nomura, Masao Yang-Baxter relations in terms of n - j symbols of $su_q(2)$ algebra. 91d:81046
- Schlieker, M. see Carow-Watamura, U.; et al., 91m:81102
- Scholl, Marcus see Carow-Watamura, U.; et al., 91m:81102
- Schoutens, Kareljan (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Covariant w_∞ gravity and its reduction to W_∞ gravity. 91k:81066
- Sevrin, Alexander see Schoutens, Kareljan; et al., 91k:81066
- Sorace, Emanuele see Celeghini, Enrico; et al., 91b:81059
- Spiridonov, V. P. see Floresani, Roberto; et al., 91g:81057
- Sun, Chang Pu (with Ge, Mo Lin) The q -analog of the boson algebra, its representation on the Fock space, and applications to the quantum group. 91m:81104
- Tarlini, Marco see Celeghini, Enrico; et al., 91b:81059
- Todorov, Ivan T. Finite temperature 2-dimensional QFT models of conformal current algebra. 91a:81082
- Vinet, Luc see Floresani, Roberto; et al., 91g:81057
- Watamura, S. see Carow-Watamura, U.; et al., 91m:81102
- Yue, Rui Hong see Hou, Bo Yu; et al., 91a:81081

Items with secondary classifications in 81R50

- Alekseev, A. Yu. (with Shatashvili, S. L.) From geometric quantization to conformal field theory. 91i:81064
- Alvarez-Gaumé, L. (with Gómez, César; Sierra, Germán) Duality and quantum groups. 91c:81122
- Argyres, E. N. see Bonatsos, Dennis; et al., 91j:81106
- Baintay, P. Orbifolds and Hopf algebras. 91k:81147
- Batchelor, Murray T. (with Mezzadresi, Luca; Nepomechie, Rafael I.; Rittenberg, V.) q -deformations of the $O(3)$ symmetric spin-1 Heisenberg chain. 91k:82014
- Biedenharn, L. C. (with Tarlini, Marco) On q -tensor operators for quantum groups. 91k:17009
- Bonatsos, Dennis (with Argyres, E. N.; Drenska, S. B.; Raichev, P. P.; Roussev, R. P.; Smirnov, Yu. F.) $SU_q(2)$ description of rotational spectra and its relation to the variable moment of the inertia model. 91j:81106
- Bowknegt, Peter (with McCarthy, James G.; Pilch, Krzysztof) Quantum group structure in the Fock space resolutions of $sl(n)$ representations. 91e:17034
- (with McCarthy, James G.; Pilch, Krzysztof) Free field realizations of WZNW models. The BRST complex and its quantum group structure. 91c:17017
- Bracken, A. J. (with Gould, M. D.; Zhang, R. B.) Quantum supergroups and solutions of the Yang-Baxter equation. 91e:17008
- Bragiel, Kazimierz The twisted $SU(N)$ group. On the C^* -algebra $C(S_q U(N))$. 91i:46088
- Bubner, Nikolaus (with Graham, Robert) Quantum dynamics in a chaotic separatrix layer. 91j:58103
- Burdik, Ć. (with Navrátil, O.) The boson realizations of the quantum group $U_q(sl(2))$. 91i:17010
- Chalchlan, M. (with Ellinas, D.) On the polar decomposition of the quantum $SU(2)$ algebra. 91m:17013
- (with Kulish, P. P.) Quantum Lie superalgebras and q -oscillators. 91a:17013

- (with Ellinas, D.; Popowicz, Ziemowit) Quantum conformal algebra with central extension. 91i:17018
- (with Kulish, P. P.; Lukierski, Jerzy) q -deformed Jacobi identity, q -oscillators and q -deformed infinite-dimensional algebras. 91m:17014
- Cherednik, I. V. Generalized braid groups and local r -matrix systems. 91d:17016
- Curtright, Thomas (with Zachos, Cosmas) Deforming maps for quantum algebras. 91i:17020
- see also Quantum groups, 91m:17024
- Date, Etsuro (with Jimbo, Michio; Miki, Kei; Miwa, Tetsuji) R matrix for cyclic representations of $U_q(\mathfrak{sl}(3, \mathbb{C}))$ at $q^3 = 1$. 91i:17021
- Drenska, S. B. see Bonatsos, Dennis; et al., 91i:81106
- van Driel, Peter see Fuchs, Jürgen, 91m:17015
- Dubois-Violette, Michel On the theory of quantum groups. 91a:17014
- Ellinas, D. see Chaichian, M.; et al., 91i:17018 and 91m:17013
- Evans, David E. Operator algebras and critical phenomena: an overview of the session on operator algebras. 91d:46089
- Faddeev, L. D. (with Reshetikhin, N. Yu.; Takhtadzhyan, L. A.) Quantization of Lie groups and Lie algebras. 91d:17017
- On the exchange matrix for WZNW model. 91j:81075
- Fairlie, David Quantum deformations of $SU(2)$. 91i:17011
- see also Quantum groups, 91m:17024
- Feinsilver, Philip (with Schott, René) Special functions and infinite-dimensional representations of Lie groups. 91g:33022
- Felder, Giovanni (with Fröhlich, Jürg; Keller, Georg) Braid matrices and structure constants for minimal conformal models. 91f:81178
- (with Fröhlich, Jürg; Keller, Georg) On the structure of unitary conformal field theory. II. Representation-theoretic approach. 91f:81177
- Fivel, Daniel I. Interpolation between Fermi and Bose statistics using generalized commutators. 91m:81108
- Floratos, E. G. Spin wedge and vertex operator representations of trigonometric algebras and their central extensions. 91a:17024
- (with Tomaras, T. N.) A quantum mechanical analogue for the q -oscillator. 91h:81016
- Fröhlich, Jürg (with King, Christopher K.) Two-dimensional conformal field theory and three-dimensional topology. 91d:57003
- see also Felder, Giovanni; et al., 91f:81177 and 91f:81178
- Fuchs, Jürgen (with van Driel, Peter) Some symmetries of quantum dimensions. 91m:17015
- Furlan, P. (with Ganchev, Alexander Ch.; Petkova, Valentina B.) Fusion matrices and $c < 1$ (quasi) local conformal theories. 91m:81243
- Ganchev, Alexander Ch. (with Petkova, Valentina B.) $U_q(\mathfrak{sl}(2))$ invariant operators and minimal theories fusion matrices. 91h:81128
- see also Furlan, P.; et al., 91m:81243
- Ge, Mo Lin (with Li, Yu Quan; Wang, Lu Yu; Xue, Kang) The braid group representations associated with some nonfundamental representations of Lie algebras. 91j:17016
- see also Sun, Chang Pu; et al., 91m:17023
- Gervais, Jean-Loup Liouville superstrings. 91a:81162
- The quantum group structure of 2D gravity and minimal models. I. 91h:81142
- (with Rostand, Bruno) Two-dimensional gravity and its W_3 -extension: strongly coupled unitary theories. 91j:81076
- Ginsparg, Paul Applied conformal field theory. 91h:81129
- Gómez, César (with Sierra, Germán) Quantum group meaning of the Coulomb gas. 91i:81076
- (with Sierra, Germán) The quantum symmetry of rational conformal field theories. 91m:81247
- see also Alvarez-Gaumé, L.; et al., 91c:81122
- Gould, M. D. see Bracken, A. J.; et al., 91c:17008
- Grabowski, Janusz Quantum $SU(2)$ group of Woronowicz and Poisson structures. 91g:16027
- Graham, Robert see Bahner, Nikolaus, 91j:58103
- Gray, Robert W. (with Nelson, Charles A.) A completeness relation for the q -analogue coherent states by q -integration. 91h:81056
- Grimm, Uwe (with Rittenberg, V.) The modified XXZ Heisenberg chain: conformal invariance, surface exponents of $c < 1$ systems and hidden symmetries of finite chains. 91g:82012
- Gromov, N. A. ★ Контракции и аналитические продолжения классических групп. Единый подход. (Russian) [Contractions and analytic continuations of the classical groups. A unified approach] 91m:81078
- Hollowood, Tim (with Mansfield, Paul) Quantum group structure of quantum Toda conformal field theories. I. 91i:81077
- Iwan, Syreel Knot and conformal field theory approach in molecular and nuclear physics. 91g:81177
- Atomic energy levels and gyromagnetic ratios in SU ; quantum universal enveloping algebra. (Not in MR)
- Jimbo, Michio see Date, Etsuro; et al., 91i:17021
- Katriel, Jacob see Solomon, Allan I., 91k:81064
- Keller, Georg see Felder, Giovanni; et al., 91f:81177 and 91f:81178
- King, Christopher K. see Fröhlich, Jürg, 91d:57003
- Konisi, Gaku (with Saito, Takeshi; Takahashi, Wataru) KN algebra derived from Virasoro algebra with vertex operators. 91a:17038
- Kosmann-Schwarzbach, Yvette Quantum and classical Yang-Baxter equations. 91g:58117
- Kulish, P. P. Quantum Lie superalgebras and supergroups. 91m:17017
- Clebsch-Gordan coefficients for a quantum superalgebra of rank one. I. (Russian. English summary) 91j:17017
- see also Chaichian, M., 91a:17013 and 91m:17014
- Kuramoto, Tetsuji BRST quantization of conformal field theories on a random surface. 91h:81166
- Lacki, Jan Algèbres de dimension infinie, groupes des tresses et groupes quantiques dans les théories conformes à deux dimensions. [Infinite-dimensional algebras, braid groups and quantum groups in two-dimensional conformal theories] 91h:81084
- LeClair, André Taming the integrable zoo. (see 91m:17024)
- Li, Yu Quan see Ge, Mo Lin; et al., 91j:17016
- (La, Jiang-Hua) see Shen, Albert Jee-Liang, 91m:58011
- Li, Jing Fa see Sun, Chang Pu; et al., 91m:17023
- Lukierski, Jerzy see Chaichian, M.; et al., 91m:17014
- Ma, Zhong Qi Representations of the braid group obtained from quantum $sl(3)$ enveloping algebra. 91i:17022
- New link polynomial obtained from octet representation of quantum $sl(3)$ enveloping algebra. 91m:17019
- Rational solution for the minimal representation of G_2 . 91k:17011
- Maillet, Jean-Michel (with Nijhoff, F. W.) Gauging the quantum groups. 91e:17010
- Lax equations and quantum groups. 91j:58080
- Majid, Shah Physics for algebras: noncommutative and noncocommutative Hopf algebras by a bicoproduct construction. 91j:16050
- Maltinietis, Georges Groupes quantiques et structures différentielles. (English summary) [Quantum groups and differential structures] 91m:58010
- Mania, Yu. I. ★ Quantum groups and noncommutative geometry. 91e:17001
- Mansfield, Paul see Hollowood, Tim, 91i:81077
- Martinez, Emil J. String calculus: conformal field theory as a tool in string theory. 91e:81097
- Martins, Márcio José Critical properties of $U_q(SU(2))$ -invariant spin-1 chain. (Not in MR)
- Masuda, Tetsuya (with Mimachi, Katsuhisa; Nakagami, Yoshiomi; Noumi, Masatoshi; Saburi, Yutaka; Ueno, Kimio) Unitary representations of the quantum group $SU_q(1, 1)$. Structure of the dual space of $U_q(\mathfrak{sl}(2))$. 91h:33028
- (with Mimachi, Katsuhisa; Nakagami, Yoshiomi; Noumi, Masatoshi; Saburi, Yutaka; Ueno, Kimio) Unitary representations of the quantum group $SU_q(1, 1)$. II. Matrix elements of unitary representations and the basic hypergeometric functions. 91h:33029
- McCarthy, James G. see Bouwknegt, Peter; et al., 91c:17017 and 91m:17034
- Mezincescu, Luca (with Nepomechie, Rafael I.) Unitarity and irrationality for the quantum algebra $U_q(SU(2))$. 91m:17020
- see also Batchelor, Murray T.; et al., 91k:82014
- Miki, Kei see Date, Etsuro; et al., 91i:17021
- Mimachi, Katsuhisa see Masuda, Tetsuya; et al., 91h:33028 and 91h:33029
- Minahan, Joseph A. The q -Schrödinger equation. 91j:81016
- Miwa, Tetsuji see Date, Etsuro; et al., 91i:17021
- Mizoguchi, S. Nonunitarity theorem for the A type W_q algebra. 91a:17027
- Nakagami, Yoshiomi see Masuda, Tetsuya; et al., 91h:33028 and 91h:33029
- Navrátil, O. see Burdík, Č., 91k:17010
- Nelson, Charles A. see Gray, Robert W., 91h:81056
- Nelson, J. E. (with Regge, Tullio E.; Zertuche, F.) Homotopy groups and $(2+1)$ -dimensional quantum de Sitter gravity. 91m:81171
- Nepomechie, Rafael I. see Batchelor, Murray T.; et al., 91k:82014 and Mezincescu, Luca, 91m:17020
- Nijhoff, F. W. see Maillet, Jean-Michel, 91e:17010
- Nomura, Masao An alternative description of the quantum group $SU_q(2)$ and the q -analogue Racah-Wigner algebra. 91m:17021
- Noumi, Masatoshi see Masuda, Tetsuya; et al., 91h:33028 and 91h:33029
- Ogneanu, Adrian Quantized groups, string algebras and Galois theory for algebras. 91k:46068
- Parshall, Brian J. (with Wang, Jian Pan) Quantum linear groups. 91g:16028
- Petkova, Valentina B. see Ganchev, Alexander Ch., 91h:81128 and Furlan, P.; et al., 91m:81243
- Pilch, Krzysztof see Bouwknegt, Peter; et al., 91c:17017 and 91m:17034
- Podles, Piotr (with Woronowicz, S. L.) Quantum deformation of Lorentz group. 91f:46100
- Popowicz, Ziemowit see Chaichian, M.; et al., 91i:17018
- Raichev, P. P. see Bonatsos, Dennis; et al., 91j:81106
- Ramirez Romero, Cupatitzio (with Ruegg, H.; Ruiz-Altaba, M.) Explicit quantum symmetries of WZNW theories. 91h:81087
- Regge, Tullio E. see Nelson, J. E.; et al., 91m:81171
- Reshetikhin, N. Yu. Multiparameter quantum groups and twisted quasitriangular Hopf algebras. 91k:17012
- (with Semenov-Tyan-Shanskii, M. A.) Central extensions of quantum current groups. 91k:17013
- see also Faddeev, L. D.; et al., 91d:17017
- Rittenberg, V. see Grimm, Uwe, 91g:82012 and Batchelor, Murray T.; et al., 91k:82014
- Rostand, Bruno see Gervais, Jean-Loup, 91j:81076
- Roussev, R. P. see Bonatsos, Dennis; et al., 91j:81106
- Ruegg, H. A simple derivation of the quantum Clebsch-Gordan coefficients for $SU(2)_q$. 91f:17012
- see also Ramirez Romero, Cupatitzio; et al., 91h:81087
- Ruiz-Altaba, M. see Ramirez Romero, Cupatitzio; et al., 91h:81087
- Saburi, Yutaka see Masuda, Tetsuya; et al., 91h:33028 and 91h:33029
- Saito, Takeshi see Konisi, Gaku; et al., 91a:17038
- Saleur, Hubert Representations of $U_q(\mathfrak{sl}(2))$ for q a root of unity. 91h:17023
- Quantum $osp(1, 2)$ and solutions of the graded Yang-Baxter equation. 91m:82041
- Schellekens, A. N. (with Yankielowicz, S.) Field identification fixed points in the coset construction. 91a:81194
- Schmidke, W. B. see Schwenk, J.; et al., 91d:17018
- Schott, René see Feinsilver, Philip, 91g:33022
- Schwenk, J. (with Schmidke, W. B.; Vokos, S. P.) Properties of 2×2 quantum matrices in Z_2 -graded spaces. 91d:17018
- Semenov-Tyan-Shanskii, M. A. see Reshetikhin, N. Yu., 91k:17013
- Shatashvili, S. L. see Alekseev, A. Yu., 91i:81064
- Shen, Albert Jee-Liang Quantization of the Poisson $SU(2)$ and its Poisson homogeneous space—the 2-sphere. 91m:58011
- Sierra, Germán see Alvarez-Gaumé, L.; et al., 91c:81122; Gómez, César, 91i:81076 and 91m:81247
- Smirnov, Yu. F. see Bonatsos, Dennis; et al., 91j:81106
- Solomon, Allan I. (with Katriel, Jacob) On q -squeezed states. 91k:81064
- Soni, S. K. q -analogues of some prototype Berry phase calculations. 91m:81071
- Sudbery, A. Consistent multiparameter quantisation of $GL(n)$. 91m:17022

- Sun, Chang Pu (with Lü, Jing Fa; Ge, Mo Lin) Structure of regular representation of quantum universal enveloping algebra $SL_q(2)$ with $q^2 = 1$. 91m:17023
- Takahashi, Wataru see Konisi, Gaku; et al., 91a:17038
- Takhtadzhyan, L. A. see Faddeev, L. D.; et al., 91d:17017
- Tarlini, Marco see Biedenharn, L. C., 91k:17009
- Tomaras, T. N. see Floratos, E. G., 91h:18016
- Ueno, Kimio Representation theory of quantum groups. (Japanese) 91d:17020
- see also Masuda, Tetsuya; et al., 91h:33028 and 91h:33029
- Valtancoli, Paolo Duality of RCFT and integrability. 91e:81009
- de Vega, H. J. Quantum groups (YBZF algebras), integrable field theories and statistical models. 91a:58093
- Yang-Baxter algebras, conformal invariant models and quantum groups. 91h:17048
- Vokos, S. P. (with Zumino, B.; Wess, J.) Analysis of the basic matrix representation of $GL_q(2, C)$. 91k:17015
- see also Schwenk, J.; et al., 91d:17018
- Wang, Jian Pan see Parshall, Brian J., 91g:16028
- Wang, Lu Yu see Ge, Mo Lin; et al., 91k:17016
- (Weinstein, Alan D.) see Shen, Albert Jue-Liang, 91m:58011
- Wess, J. see Vokos, S. P.; et al., 91k:17015
- Weyers, J. The quantum groups $GL_q(n)$ and Weyl-Heisenberg operators. 91h:16069
- Woronowicz, S. L. see Podleś, Piotr, 91f:46100
- Xue, Kang see Ge, Mo Lin; et al., 91k:17016
- Yankielowicz, S. see Schellekens, A. N., 91a:81194
- Zachos, Cosmas see Curtright, Thomas, 91i:17020 and Quantum groups, 91m:17024
- Zertuche, F. see Nelson, J. E.; et al., 91m:81171
- Zhang, R. B. see Bracken, A. J.; et al., 91e:17008
- Zumino, B. see Vokos, S. P.; et al., 91k:17015

Items listed otherwise than by author

- Argonne, IL ★ Quantum groups. 91m:17024
- Quantum groups ★ Quantum groups. 91m:17024
- Workshop:
Quantum Groups ★ Quantum groups. 91m:17024

81R99 None of the above, but in this section

- Khanna, F. C. (with Mann, Ady; Takahashi, Yasushi) Rotations, squeezing, and the unitary transformation operator from individual particles to Jacobi variables. 91a:81083
- Mann, Ady see Khanna, F. C.; et al., 91a:81083
- Papadopoulos, George J. Topology, charged particles and anomalies in quantum mechanics. 91m:81105
- Takahashi, Yasushi see Khanna, F. C.; et al., 91a:81083

Items with secondary classifications in 81R99

- Beuler, Konrad see Stahlhofen, A., 91c:81012
- Bohm, Arno (with Gadella, M.) ★ Dirac kets, Gamow vectors and Gelfand triplets. 91d:81003
- Gadella, M. see Bohm, Arno, 91d:81003
- Stahlhofen, A. (with Beuler, Konrad) An algebraic form of the factorization method. (Italian and Russian summaries) 91c:81012
- Tchrakian, D. H. Solitons in R_3 with winding number n . 91k:81106

81Sxx General quantum mechanics and problems of quantization

81S05 Commutation relations

- Amann, Anton Perturbation theory of boson dynamical systems. 91j:81030
- Beckers, J.-M. (with Debergh, N.) Parastatistics and supersymmetry in quantum mechanics. 91f:81068
- Dam Than Shon (with Khlebnikov, S. Yu.) Quantization of 3D particle with twisting: toward a relativistic theory of an anyon. 91m:81106
- Debergh, N. see Beckers, J.-M., 91f:81068
- Einarsson, Torbjörn Fractional statistics on a torus. 91b:81051
- Fan, Hong Yi Mapping of a classical transformation in Grassmann number space to a Fermi unitary operator. 91k:81067
- (with VanderLinde, J.) Simple construction of the unitary operator to transform from individual particles to Jacobi coordinates. 91m:81107
- Fivel, Daniel I. Interpolation between Fermi and Bose statistics using generalized commutators. 91m:81108
- Fujii, Kanji see Ogawa, Naohisa; et al., 91f:81070
- García Alvarez, Edgardo T. (with González, Alejandro D.) Some general commutation rules and identities for three-dimensional quantum-mechanical operators. 91c:81032
- González, Alejandro D. see García Alvarez, Edgardo T., 91c:81032
- Grundenz, Dirk Para-Bose algebras and subgraph polynomials. 91k:81068
- Horváthy, Peter A. (with Morandi, G.; Sudarshan, E. C. G.) Inequivalent quantizations in multiply connected spaces. (Italian and Russian summaries) 91a:81084
- Imbo, Tom D. (with Shah Imbo, Chandni; Sudarshan, E. C. G.) Identical particles, exotic statistics and braid groups. 91k:81069
- Khlebnikov, S. Yu. see Dam Than Shon, 91m:81106
- Kobushkin, A. P. see Ogawa, Naohisa; et al., 91f:81070
- Landman, N. P. C^* -algebraic quantization and the origin of topological quantum effects. 91g:81060
- Lemos, Nivaldo A. Untenability of a proposed constrained dynamics for the damped harmonic oscillator. 91c:81033
- Merkel, U. A note on parasupersymmetry algebra. (Not in MR)
- Mohapatra, Rabiindra N. Infinite statistics and a possible small violation of the Pauli principle. 91f:81069
- Morandi, G. see Horváthy, Peter A.; et al., 91a:81084
- Ogawa, Naohisa (with Fujii, Kanji; Kobushkin, A. P.) Quantum mechanics in Riemannian manifold. 91f:81070
- Rusinek, Jan On generalized canonical commutation relations. 91k:81070
- Santhanam, T. S. Finite-dimensional matrix representation of the differential operator and applications to special functions. 91e:81044
- Schleich, Kristin Is reduced phase space quantisation equivalent to Dirac quantisation? 91g:81061
- Shah Imbo, Chandni see Imbo, Tom D.; et al., 91k:81069
- Sudarshan, E. C. G. see Horváthy, Peter A.; et al., 91a:81084 and Imbo, Tom D.; et al., 91k:81069
- Tscheschnner, R. D. Topological spin-statistics relation in quantum field theory. 91k:81071
- VanderLinde, J. see Fan, Hong Yi, 91m:81107
- Items with secondary classifications in 81S05
- Arovas, Daniel P. Topics in fractional statistics. (see 91h:81004)
- Batalin, I. A. (with Fradkin, E. S.) Formal path integral for theories with noncanonical commutation relations. 91g:81065
- Baumgartel, Hellmut On causal disjointness relations and causal nets of algebras on the lattice Z^{n+1} . (German summary) 91h:81076
- Beckers, J.-M. (with Debergh, N.) On parasupersymmetry and remarkable Lie structures. 91d:17044
- Celeghini, Enrico (with Graziano, E.; Vitiello, G.) Classical limit and spontaneous breakdown of symmetry as an environment effect in quantum field theory. 91h:81070
- Combes, J. M. (with Hislop, Peter D.) Quantum tunnelling, nontrapping and the existence of Stark ladder resonances. 91a:81030
- Debergh, N. On $(k = \frac{1}{2})$ coherent states for the harmonic oscillator. 91a:81072
- see also Beckers, J.-M., 91d:17044
- Durand, Stéphane (with Floreani, Roberto; Mayrand, Michel; Vinet, Luc) Conformal parasuperalgebras and their realizations on the line. 91c:17014
- Euler, N. see Steeb, W.-H., 91g:58249
- Flato, M. (with Fronsdal, C.) Parastatistics, highest weight $osp(N, \infty)$ modules, singleton statistics and confinement. 91a:81065
- Floreani, Roberto see Durand, Stéphane; et al., 91c:17014
- Fradkin, E. S. see Batalin, I. A., 91g:81065
- Friedlander, Leonid Creation and annihilation operators for anharmonic oscillators. 91m:47078
- Fronsdal, C. see Flato, M., 91a:81065
- Graziano, E. see Celeghini, Enrico; et al., 91h:81070
- Hayashi, Takahiro q -analogues of Clifford and Weyl algebras—spinor and oscillator representations of quantum enveloping algebras. 91a:17015
- Heidenreich, Wolfgang Unitarizable scalar multipoles. 91m:81093
- Hida, Takeyuki Infinite-dimensional rotation group and unitary group. 91a:60210
- Hislop, Peter D. see Combes, J. M., 91a:81030
- Honegger, Reinhard (with Rieckers, Alfred) The general form of non-Fock coherent boson states. 91d:81045
- Decomposition of positive sesquilinear forms and the central decomposition of gauge-invariant quasi-free states on the Weyl-algebra. 91e:46098
- Hurst, C. A. (with Lohse, M. A.) Regularization of the Mandelstam soliton operator. 91h:81043
- Isham, Christopher J. Quantum topology and quantisation on the lattice of topologies. 91d:81052
- (with Klauder, John R.) Affine fields and operator representations for the nonlinear σ model. 91c:81048
- Jayaraman, J. (with de Lima Rodrigues, Rafael) The Wigner-Heisenberg algebra as an effective operator technique for simpler spectral resolution of general oscillator-related potentials and the connection with the SUSYQM algebra. 91h:81025
- Jørgensen, Palle E. T. (with Price, Geoffrey L.) Index and second quantization. 91e:46095
- Klauder, John R. see Isham, Christopher J., 91d:81048
- de Lima Rodrigues, Rafael see Jayaraman, J., 91h:81025
- Lohse, M. A. see Hurst, C. A., 91h:81043
- Mayrand, Michel see Durand, Stéphane; et al., 91c:17014
- Mendaf, I. (with Milutinović, P.) Anticommutator analogues of certain identities involving repeated commutators. 91a:17002
- Milutinović, P. see Mendaf, I., 91a:17002
- Molmer, Klaus see Slowikowski, Wojtek, 91j:81028
- Nakajima, Hideo Hermitian Fermi coordinates, dimensions and path integrals. 91f:81082
- Pang, Gen Di (with Pu, Fu Ke; Zhao, Bao Heng) Exact solution for quantum Davey-Stewartson I system. 91h:81018
- Petz, Dénes ★ An invitation to the algebra of canonical commutation relations. 91e:46096
- Price, Geoffrey L. see Jørgensen, Palle E. T., 91e:46095
- Pu, Fu Ke see Pang, Gen Di; et al., 91h:81018
- Rieckers, Alfred see Honegger, Reinhard, 91d:81045
- Rieffel, Marc A. Deformation quantization and operator algebras. 91h:46120
- Sagitov, M. S. Diagonalization of a bosonic Hamiltonian in the complex case. (Russian) (see 91k:50008)
- Schafitzel, Reinhard Decompositions of regular representations of the canonical commutation relations. 91k:47110
- Shirokov, M. I. Para-Fermi operators in the theory of superradiance. 91m:81343
- Shkalkov, A. A. Completeness and minimality of some of the eigenfunctions of the Regge problem. (Russian) 91a:47066
- Shwarts, A. S. Statistics of skyrmions. 91b:81170
- Slowikowski, Wojtek (with Molmer, Klaus) Squeezing of free Bose fields. 91j:81028
- Spera, Mauro Quantum mechanical commutation relations and differential geometry (classical and noncommutative). 91k:46085
- Steeb, W.-H. (with Euler, N.) Nonlinear dynamical systems, first integrals, Bose operators, and Lie algebras. 91g:58249
- Swansen, Mark S. Fock-space representation of coupled abelian Chern-Simons theory. 91m:81153

- Verges, S. N. Dirac commutation relations and quantization of two-dimensional gauge chiral models. **91h:81162**
 Vinet, Luc. *see* Durand, Stéphane; et al., **91c:17014**
 Vitiello, G. *see* Celeghini, Enrico; et al., **91h:81070**
 Zhao, Bao Heng. *see* Pang, Gen Di; et al., **91h:81018**

81S10 Geometric quantization, symplectic methods [see also 58F06]

- Aldaya, Victor (with de Azcárraga, J. A.; Bisquert, J.; Cerveró, José M.) Dynamics on $SL(2, \mathbb{R}) \otimes U(1)$. **91g:81062**
 Alekseev, A. Yu. (with Glushchenkov, D. V.) Geometric quantization as the zero mass limit in a problem of a particle on a sphere in the field of a magnetic monopole. (Russian. English summary) **91f:81071**
 Ali, S. Twareque (with Doeblner, H.-D.) Ordering problem in quantum mechanics: prime quantization and a physical interpretation. **91e:81045**
 Andersson, Lars Åke. Functional integration and geometric quantization. **91b:81052**
 de Azcárraga, J. A. *see* Aldaya, Victor; et al., **91g:81062**
 Bar-Moshe, David (with Marinov, Michael; Oz, Yaron) Bosonized actions for anomalous gauge theories on coadjoint orbits. **91k:81072**
 Batalin, I. A. (with Lavrov, P. M.; Tyutin, I. V.) An $Sp(2)$ -covariant version of generalized canonical quantization of dynamical systems with linearly dependent constraints. **91m:81109**
 Bisquert, J. *see* Aldaya, Victor; et al., **91g:81062**
 Blas, Matthias. On the representation independence of topological effects in quantum field theory. **91b:81053**
 Cerveró, José M. *see* Aldaya, Victor; et al., **91g:81062**
 Cho, Hing Tong (with Dieck, Adel; Kantowski, R.) A Clifford algebra quantization of Dirac's electron positron field. **91g:81063**
 Dieck, Adel. *see* Cho, Hing Tong; et al., **91g:81063**
 Doeblner, H.-D. *see* Ali, S. Twareque, **91c:81045**
 Duval, C. (with Elhadad, J.; Teynman, Gijb M.) The BRS method and geometric quantization: some examples. **91h:81054**
 Elhadad, J. *see* Duval, C.; et al., **91h:81054**
 Fukuyama, Takeshi (with Kamimura, Kiyoshi) Complex action and quantum gravity. **91h:81060**
 Glushchenkov, D. V. *see* Alekseev, A. Yu., **91f:81071**
 Gracia-Bondía, José M. *see* Várilly, Joseph C., **91h:81061**
 Kamimura, Kiyoshi. *see* Fukuyama, Takeshi, **91h:81060**
 Kantowski, R. *see* Cho, Hing Tong; et al., **91g:81063**
 Lavrov, P. M. *see* Batalin, I. A.; et al., **91m:81109**
 Marinov, Michael. *see* Bar-Moshe, David; et al., **91k:81072**
 Mladenov, Ivaldo M. Reductions and quantization. **91e:81032**
 Oz, Yaron. *see* Bar-Moshe, David; et al., **91k:81072**
 Papaloucas, L. C. (with Rembieliński, J.) On the connection between quantisation schemes and coherent states. **91a:81085**
 Rembieliński, J. *see* Papaloucas, L. C., **91a:81085**
 Shatashvili, S. L. Relativistic spinning particle and path integral quantization of symplectic orbits of the compact groups. (see **91j:81003**)
 Skagerstam, B.-S. (with Stern, Allen Bruce) Topological quantum mechanics in $2 + 1$ dimensions. **91f:81072**
 Stern, Allen Bruce. *see* Skagerstam, B.-S., **91f:81072**
 Teynman, Gijb M. *see* Duval, C.; et al., **91h:81054**
 Tyutin, I. V. *see* Batalin, I. A.; et al., **91m:81109**
 Várilly, Joseph C. (with Gracia-Bondía, José M.) The symplectic groups and their representations in the theory of the quantum product. I. $Sp(2; \mathbb{R})$. (Spanish. English summary) **91h:81061**
 Wu, Yihren. On the quantization of the modified Pöschl-Teller potential. **91h:81062**
- Items with secondary classifications in 81S10**
 Aldaya, Victor (with Navarro-Salas, José) Quantization on the Virasoro group. **91d:58086**
 Alekseev, A. Yu. (with Faddeev, L. D.; Shatashvili, S. L.) Quantization of symplectic orbits of compact Lie groups by means of the functional integral. **91d:58087**
 — (with Shatashvili, S. L.) From geometric quantization to conformal field theory. **91f:81064**
 Aoyama, S. Topological gauge theories on the coadjoint orbit of the Lie group. **91a:81105**
 Aratyn, Henrik (with Nissimov, E.; Pacheva, S.; Zimmerman, A. H.) Symplectic actions on coadjoint orbits. **91d:58066**
 Benamor, Hédi (with Pincon, Georges) The graded Lie algebra structure of Lie superalgebra deformation theory. **91g:17021**
 Byrnes, Graham B. Complex manifolds and geometrical quantisation. **91h:58048**
 Carriena, José F. (with Gracia-Bondía, José M.; Várilly, Joseph C.) Relativistic quantum kinematics in the Moyal representation. **91m:81111**
 Chang, Zhe (with Chen, Wei; Guo, Han Ying) $SU_{q, \hbar}(2)$ and $SU_{q, \hbar}(2)$, the classical and quantum q -deformations of the $SU(2)$ algebra. **91k:81065**
 Chen, Wei. BRST quantization of topological field theory. **91k:81191**
 — *see also* Chang, Zhe; et al., **91k:81065**
 Colomo, F. (with Longhi, G.; Lusanna, Luca) Classical canonical observables of the Nambu string. **91g:81111**
 Date, G. (with Govindarajan, T. R.; Sankaran, Parameswaran; Shankar, Ramachandran) Inequivalent quantizations for nonlinear σ model. **91f:58049**
 Dito, Joseph. Star-product approach to quantum field theory: the free scalar field. **91m:81291**
 Doeblner, H.-D. (with Tolar, J.) Infinite-dimensional symmetries. (German summary) **91f:58034**
 Emmrich, C. *see* Römer, H., **91f:58032**
 Faddeev, L. D. *see* Alekseev, A. Yu.; et al., **91d:58087**
 Fletcher, Paul. The uniqueness of the Moyal algebra. **91k:17021**
 Govindarajan, T. R. *see* Date, G.; et al., **91f:58049**
- Gozzi, E. (with Reuter, M.) Errata: "Algebraic characterization of ergodicity" [Phys. Lett. B 233 (1989), no. 3-4, 383-392; MR 91e:70044]. **91e:70045**
 Gracia-Bondía, José M. *see* Carriena, José F.; et al., **91m:81111**
 Guo, Han Ying. *see* Yu, Yue, **91b:81163** and Chang, Zhe; et al., **91k:81065**
 Hal, Wen Hua. Conservation of the canonical 2-form and geometric quantization. (Chinese. English summary) (Not in MR)
 Janeczko, Stanisław. Generalized Lüneburg canonical varieties and vector fields on quasiclassics. **91k:58012**
 Klauder, John R. (with Onofri, E.) Landau levels and geometric quantization. **91f:58035**
 Kleiner, H. Path integral on spherical surfaces in D dimensions and on group spaces. **91f:81081**
 Liu, Zhang Ju. Quantum integrable systems constrained on the sphere. **91h:58049**
 Loll, R. Noncommutativity of constraining and quantizing: a $U(1)$ -gauge model. **91h:58050**
 Longhi, G. *see* Colomo, F.; et al., **91g:81111**
 (Lu, Jiang-Hua) *see* Shou, Albert Jen-Liang, **91m:58011**
 Lusanna, Luca. *see* Colomo, F.; et al., **91g:81111**
 Mladenov, Ivaldo M. Geometric quantization of the MIC-Kepler problem via extension of the phase space. (French summary) **91c:58044**
 Moreno, Carlos. Produits star sur certains G/K kähleriens. Équation de Yang-Baxter et produits star sur G . [Star products on some Kähler G/K . The Yang-Baxter equation and star products on G] **91g:58094**
 Navarro-Salas, José. *see* Aldaya, Victor, **91d:58086**
 Nissimov, E. *see* Aratyn, Henrik; et al., **91d:58066**
 Onofri, E. *see* Klauder, John R., **91f:58035**
 Pacheva, S. *see* Aratyn, Henrik; et al., **91d:58066**
 Pincon, Georges. *see* Benamor, Hédi, **91g:17021**
 Puta, Mircea. Quantization of a time dependent mechanical system. **91c:58045**
 Reuter, M. *see* Gozzi, E., **91e:70045**
 Römer, H. (with Emmrich, C.) Orbifold singularities in classical and quantum mechanics. **91f:58032**
 Sankaran, Parameswaran. *see* Date, G.; et al., **91f:58049**
 Schaller, Peter (with Schwarz, Günter) Anomalies from geometric quantization of fermionic field theories. **91j:81089**
 Schwarz, Günter. *see* Schaller, Peter, **91j:81089**
 Shankar, Ramachandran. *see* Date, G.; et al., **91f:58049**
 Shatashvili, S. L. *see* Alekseev, A. Yu.; et al., **91d:58087** and **91f:81064**
 Sherry, G. C. A generalized Hamiltonian formalism unifying classical and quantum mechanics. **91m:58068**
 Shou, Albert Jen-Liang. Quantization of the Poisson $SU(2)$ and its Poisson homogeneous space—the 2-sphere. **91m:58011**
 Takahashi, Kin'ya. Similarity and essential difference between coarse-grained classical and quantum mechanics. **91a:81050**
 Tolar, J. *see* Doeblner, H.-D., **91f:58034**
 Torres del Castillo, G. F. Symplectic structures in mathematical physics. (Spanish. English summary) **91a:58067**
 Teynman, Gijb M. Reduction, quantization, and nonunimodular groups. **91g:58097**
 Várilly, Joseph C. *see* Carriena, José F.; et al., **91m:81111**
 (Weinstein, Alan D.) *see* Shou, Albert Jen-Liang, **91m:58011**
 Wu, Yihren. Berry's phase and the planar three-body problem. **91h:81040**
 Yu, Yue (with Guo, Han Ying) Geometric quantization for bosonic strings. II. (Chinese. English summary) **91h:81163**
 Zimmerman, A. H. *see* Aratyn, Henrik; et al., **91d:58066**

81S20 Stochastic quantization

- Albeverio, Sergio (with Yasue, Kunio; Zambrini, J.-C.) Euclidean quantum mechanics: analytical approach. (French summary) **91c:81034**
 Aldrovandi, Ettore (with Dohrn, Daniela; Guerra, Francesco) Stochastic action of dynamical systems on curved manifolds. The geodesic interpolation. **91b:81055**
 Balakrishnan, Janaki (with Biswas, S. N.; Goyal, Ashok; Soni, S. K.) Stochastic quantization of para-Fermi fields. **91f:81073**
 Bandyopadhyay, Pratul (with Hajra, Kohinur; Ghosh, Pradip) Stochastic field theory, holomorphic quantum mechanics, and supersymmetry. **91d:81047**
 Basu, Sujit K. (with Kuryshkin, V. V.) The probability operator in quantum theory and quantization of a system of free fields. **91a:81066**
 Baulieu, Laurent (with Bilal, Adel; Picco, Marco) Stochastic quantization of 2D gravity and its link with 3D gravity and topological 4D gravity. **91k:81073**
 Bilal, Adel. *see* Baulieu, Laurent; et al., **91k:81073**
 Biswas, S. N. *see* Balakrishnan, Janaki; et al., **91f:81073**
 Carrilho Soares, P. (with Gomes, L. C.; Lobo, R.; Pato, M. P.) The stochastic quantization of the damped harmonic oscillator. **91d:81048**
 Cianchi, L. *see* Moretti, P., **91e:81046**
 Damgaard, Paul H. *see* Stochastic quantization, **91h:81063**
 Dohrn, Daniela. *see* Aldrovandi, Ettore; et al., **91b:81055**
 Ghosh, Pradip. *see* Bandyopadhyay, Pratul; et al., **91d:81047**
 Gomes, L. C. *see* Carrilho Soares, P.; et al., **91d:81048**
 Goyal, Ashok. *see* Balakrishnan, Janaki; et al., **91f:81073**
 Guerra, Francesco. *see* Aldrovandi, Ettore; et al., **91b:81055**
 Hajra, Kohinur. *see* Bandyopadhyay, Pratul; et al., **91d:81047**
 (Höfel, H.) *see* Stochastic quantization, **91h:81063**
 Jona-Lasinio, G. Stochastic quantization: a new domain for stochastic analysis. (see **91f:58003**)
 Kawara, Hideyo (with Namiki, Mikio; Okamoto, Hiroshi; Tanaka, Satoshi) Derivation of a generalized stochastic path-integral formulation based on Itô calculus. **91k:81074**
 Kugo, Tachiro (with Mitard, M. G.) On the superfield formulation of stochastic quantisation. **91g:81064**
 Kuryshkin, V. V. *see* Basu, Sujit K., **91a:81066**
 Lobo, R. *see* Carrilho Soares, P.; et al., **91d:81048**
 Mitard, M. G. *see* Kugo, Tachiro, **91g:81064**

- Moretti, P. (with Cianchi, L.) Feynman's approach to quantum mechanics: trajectories, commutation relations and uncertainty principle. (Italian and Russian summaries) 91c:81046
- Namiki, Mikio see Kawara, Hideyo; et al., 91k:81074
- Negro, Javier (with del Olmo, Mariano A.) Local realizations of kinematical groups with a constant electromagnetic field. I. The relativistic case. 91a:81087
- Okamoto, Hiroshi see Kawara, Hideyo; et al., 91k:81074
- del Olmo, Mariano A. see Negro, Javier, 91a:81087
- Pato, M. P. see Carrilho Soares, P.; et al., 91d:81048
- Picco, Marco see Baulieu, Laurent; et al., 91k:81073
- Prugovečki, Eduard (with Warlow, S.) Foundational aspects of geometro-stochastic quantization of Dirac fields in curved spacetime. 91c:81035
- Smali, V. F. see Zhdanov, R. Z., 91d:81049
- Soni, S. K. see Balakrishnan, Janaki; et al., 91f:81073
- Tanaka, Satoshi see Kawara, Hideyo; et al., 91k:81074
- Warlow, S. see Prugovečki, Eduard, 91c:81035
- Yasue, Kunio see Alberverio, Sergio; et al., 91c:81034
- Zambini, J.-C. see Alberverio, Sergio; et al., 91c:81034
- Zhdanov, R. Z. (with Smali, V. F.) Conformal symmetry and the separation of variables in the mass-free Dirac equation. (Russian) 91d:81049

Items listed otherwise than by author

Stochastic quantization ★ Stochastic quantization. 91h:81063

Items with secondary classifications in 81S20

- Alberverio, Sergio (with Arede, Teresa; Hilbert, Astrid) Some remarks on classical, quantum and stochastic dynamical systems. 91f:58082
- Arede, Teresa see Alberverio, Sergio; et al., 91f:58082
- Baulieu, Laurent Stochastic and topological gauge theories. 91g:81074
- Cugliandolo, Leticia F. (with Lozano, Gustavo; Montani, H.; Schaposnik, Fidel A.) A comment on topological field theory quantization and stochastic processes. 91h:81170
- Dinekhin, M. (with Namsrai, Kh.) Ward identity for gauge field in stochastic quantization with nonlocal form factors. 91c:81072
- Garuccio, Augusto (with Gutkowski, D.) Comparison between local Kolmogorovian models and Bell's inequality. 91b:81011
- Gutkowski, D. see Garuccio, Augusto, 91b:81011
- Hilbert, Astrid see Alberverio, Sergio; et al., 91f:58082
- Jona-Lasinio, G. (with Mitter, P. K.) Large deviation estimates in the stochastic quantization of ϕ_2^4 . 91h:81094
- Kase, Hiromi see Morita, Katsusada, 91f:81220
- Laville, Guy Sur un calcul symbolique de Feynman. [On a symbolic Feynman calculus] 91j:58032
- Lim, S. C. Stochastic quantization of a gauge field in the spatial axial gauge. 91g:81083
- Lozano, Gustavo see Cugliandolo, Leticia F.; et al., 91h:81170
- Marinari, Enzo (with Parisi, Giorgio) A nonperturbative definition of 2D quantum gravity. 91h:81148
- Matsumoto, Shuji Canonical formulation of supermechanics. 91j:70015
- Mitter, P. K. see Jona-Lasinio, G., 91h:81094
- Montani, H. see Cugliandolo, Leticia F.; et al., 91h:81170
- Morita, Katsusada (with Kase, Hiromi) Anomalies from stochastic quantization and their path-integral interpretation. 91f:81220
- Errata: "Note on the modified anomaly equation of Nielsen and Schroer in arbitrary even dimensions". 91d:81139b
- Namsrai, Kh. see Dinekhin, M., 91c:81072
- Parisi, Giorgio see Marinari, Enzo, 91h:81148
- Pestre, Jaak The Berezin transform and Ha-plitz operators. 91k:47058
- Picken, R. F. (with Webb, J. N.) Derivation of anomalies using the Itô stochastic calculus. 91a:81139
- Prugovečki, Eduard Geometro-stochastic quantization of gravity. I. 91h:83047
- Geometro-stochastic quantization of gravity. II. 91h:83048
- Erratum: "Geometro-stochastic quantization of gravity. I, II" [Found. Phys. Lett. 2 (1989), no. 1, 81–104; MR 91h:83047; ibid. 2 (1989), no. 2, 163–190; MR 91h:83048; 91h:83049]
- Rosenblum, Arnold On the P-A versus E-r controversy using Parisi-Wu stochastic quantum field theory. 91h:81200
- Schaposnik, Fidel A. see Cugliandolo, Leticia F.; et al., 91h:81170
- Webb, J. N. see Picken, R. F., 91a:81139
- Yu, Yue Topological Yang-Mills field theory as the stochastic quantization of Chern-Simons gauge theory. 91c:81069

81S25 Quantum stochastic calculus

- Accardi, Luigi A mathematical theory of quantum noise. (see 91j:60003)
- (with Frigerio, Alberto; Gang, Lu Yun) On the weak coupling limit problem. 91b:81056
- Belavkin, V. P. A new form and a \ast -algebraic structure of quantum stochastic integrals in Fock space. 91h:81064
- A stochastic calculus of quantum input-output processes and quantum nondemolition filtering. (Russian) 91f:81074
- A stochastic posterior Schrödinger equation for counting nondemolition measurement. 91h:81033
- Ekhagere, G. O. S. The functional Itô formula in quantum stochastic calculus. 91k:81075
- Frigerio, Alberto Relativistic transformation properties of quantum stochastic calculus. (French summary) 91h:81065
- Erratum: "Quantum Poisson processes: physical motivations and applications" [in *Quantum probability and applications*, III (Oberwolfach, 1987), 107–127, Lecture Notes in Math., 1303, Springer, Berlin, 1988; MR 90b:81024]. (see 91h:81065)
- see also Accardi, Luigi; et al., 91b:81056
- Gang, Lu Yun see Accardi, Luigi; et al., 91b:81056
- Hudson, R. L. Quantum diffusions and cohomology of algebras. (see 91j:60003)
- Kholeva, A. S. A quantum stochastic calculus. (Russian) 91f:81075
- Lindsay, J. M. Quantum stochastic calculus with integral kernels. I. (see 91j:60003)
- Maassen, Hans Quantum stochastic calculus with integral kernels. II. The Wigner-Weisskopf atom. (see 91j:60003)
- Pantić, Dražen Stochastic calculus and Schrödinger semigroups admitting a ground state. 91j:81031
- Parthasarathy, Kalyanapuram Rangachari (with Sinha, Kalyan B.) Stop times in Fock space stochastic calculus. (see 91j:60003)
- Prugovečki, Eduard Geometro-stochastic locality in quantum spacetime and quantum diffusions. 91m:81110
- Sinha, Kalyan B. see Parthasarathy, Kalyanapuram Rangachari, (91j:60003)
- Items with secondary classifications in 81S25
- Accardi, Luigi Cecchini's transition expectations and Markov chains. 91h:46110
- (with Frigerio, Alberto; Lu, Yun Gang) The weak coupling limit as a quantum functional central limit. 91j:81112
- see also Meyer, Paul-André, 91h:46065 and *Quantum probability and applications*, 91i:00023
- Applebaum, David Quantum stochastic parallel transport on noncommutative vector bundles. 91d:46087
- Ayupov, Sh. A. (with Sarymsakov, T. A.) Markov operators on quantum probability spaces. (see 91j:60003)
- Bach, Alexander Indistinguishable particles: definitions and implications. 91j:81008
- see also Meyer, Paul-André, 91h:46065
- Barchielli, A. (with Lupieri, G.) Convolution semigroups in quantum probability and quantum stochastic calculus. 91a:46060
- Barnett, Christopher (with Thakrar, Bharat) A noncommutative random stopping theorem. 91c:46084
- Belavkin, V. P. Noncommutative point processes and quantum kinetic equations. (see 91j:60003)
- A posterior Schrödinger equation for continuous nondemolition measurement. 91m:81020
- Blanc, Philippe Marches de Bernoulli quantiques. [Quantum Bernoulli walks] 91k:46071
- Evans, M. P. (with Hudson, R. L.) Multidimensional quantum diffusions. 91a:46065
- Fagnola, Franco A martingale characterization of quantum Poisson processes. 91h:46083
- Frigerio, Alberto Positive contraction semigroups [on] $B(H)$ and quantum stochastic differential equations. 91h:47037
- Some applications of quantum probability to stochastic differential equations in Hilbert space. 91k:60063
- (with Maassen, Hans) Quantum Poisson processes and dilations of dynamical semigroups. 91h:46056
- see also Accardi, Luigi; et al., 91j:81112
- Goderis, D. (with Verbeure, A.; Vets, P.) Noncommutative central limits. 91h:46057
- Hudson, R. L. Quantum diffusions on the algebra of all bounded operators on a Hilbert space. 91a:46061
- see also Evans, M. P., 91a:46065
- Kholeva, A. S. Conditionally positive-definite functions in quantum probability theory. (Russian) 91h:46075
- Körözlög, Hayri (with Üstünel, Ali Süleyman) Construction de distributions sur l'espace de Wiener via la seconde quantification. (English summary) [Construction of distributions on the Wiener space via the second quantization] 91m:46059
- Lindsay, J. M. (with Parthasarathy, Kalyanapuram Rangachari) The passage from random walk to diffusion in quantum probability. II. 91h:46059
- (with Parthasarathy, Kalyanapuram Rangachari) Cohomology of power sets with applications in quantum probability. 91h:46115
- Lu, Yun Gang see Accardi, Luigi; et al., 91j:81112
- Lupieri, G. see Barchielli, A., 91a:46060
- Maassen, Hans see Frigerio, Alberto, 91h:46056
- Meyer, Paul-André Éléments de probabilités quantiques. I–V. [Elements of quantum probabilities. I–V] 91h:46061a
- Corrections: "Elements of quantum probabilities. I–V". 91h:46061b
- Éléments de probabilités quantiques. VI–VIII. [Elements of quantum probabilities. VI–VIII] 91h:46062
- Éléments de probabilités quantiques. IX. Calculs antisymétriques et "supersymétriques" en probabilités. [Elements of quantum probabilities. IX. Antisymmetric and "supersymmetric" calculi in probability theory] 91h:46063
- Éléments de probabilités quantiques. X. Calculs avec des noyaux discrets. [Elements of quantum probabilities. X. Calculi with discrete kernels] 91h:46064
- Éléments de probabilités quantiques. X [bis]. Approximation de l'oscillateur harmonique (d'après L. Accardi et A. Bach). [Elements of quantum probabilities. X [bis]. Approximation of the harmonic oscillator (following L. Accardi and A. Bach)] 91h:46065
- Éléments de probabilités quantiques. XI. Caractérisation des lois de Bernoulli quantiques d'après K. R. Parthasarathy. [Elements of quantum probabilities. XI. Characterization of quantum Bernoulli distributions, following K. R. Parthasarathy] 91h:46066
- Une remarque sur les lois échangeables. [A remark on exchangeable laws] 91m:46006
- Oprea, Ana Gabriela Representations of Itô-Clifford integrals. II. (Romanian. English summary) 91c:46088
- Parthasarathy, Kalyanapuram Rangachari Quantum Itô's formula. 91m:60097
- see also Lindsay, J. M., 91h:46059; 91h:46115 and Meyer, Paul-André, 91h:46066
- Petz, Dénes A de Finetti-type theorem with m -dependent states. 91c:46089
- Sarymsakov, T. A. see Ayupov, Sh. A., (91j:60003)
- Schürmann, Michael Infinitely divisible states on cocommutative bialgebras. 91m:46101
- Noncommutative stochastic processes with independent and stationary additive increments. 91m:46099
- A class of representations of involutive bialgebras. 91m:46102
- Noncommutative stochastic processes with independent and stationary increments satisfy quantum stochastic differential equations. 91m:46100
- Speicher, Roland Stochastic integration on the full Fock space with the help of a kernel calculus. 91m:46103
- Sridharan, V. see Srinivasan, S. K., 91h:60099

Srinivasan, S. K. (with Sridharan, V.) Multiphase evolution of population and its application to optics and colliding-beam experiments. 91h:60099

Thakrar, Bharat. *see* Barnett, Christopher. 91c:46084

Üstünel, Ali Süleyman. *see* Kirezihoğlu, Hayri. 91m:46039

Verbeure, A. *see* Guderis, D.; et al. 91b:46057

Vets, P. *see* Guderis, D.; et al. 91b:46057

von Waldenfels, Wilhelm. The Markov process of total spins. 91j:46078

— Illustration of the quantum central limit theorem by independent addition of spins. 91j:46079

— *see also* Quantum probability and applications. 91i:00023

Items listed otherwise than by author

Heidelberg. *★* Quantum probability and applications. V. 91i:00023

Lecture Notes in Mathematics. *★* Quantum probability and applications. V. 91i:00023

Quantum probability and applications. *★* Quantum probability and applications. V. 91i:00023

Workshop:

Quantum Probability. *★* Quantum probability and applications. V. 91i:00023

81S30 Phase space methods including Wigner distributions, etc.

de Aguiar, Marcos A. M. (with Ozorio de Almeida, Alfredo M.) On the probability density interpretation of smoothed Wigner functions. 91h:81066

Balazs, N. L. (with Voros, A.) Wigner's function and tunneling. 91h:81067

Calanelli, Eduardo R. (with Feoli, A.; Gasperini, M.; Scarpetta, G.) Quantum corrections to the spacetime metric from geometric phase space quantization. 91e:81047

Carliena, José F. (with Gracia-Bondía, José M.; Várilly, Joseph C.) Relativistic quantum kinematics in the Moyal representation. 91m:81111

Cirelli, Renzo (with Manià, Alessandro; Pizzocchero, Livio) Quantum mechanics as an infinite-dimensional Hamiltonian system with uncertainty structure. I, II. 91k:81076

Cohen, Leon. Positive and negative joint quantum distributions. (see 91m:82002)

Cohendet, O. (with Combe, Ph.; Sirugue-Collin, M.) Fokker-Planck equation associated with the Wigner function of a quantum system with a finite number of states. 91j:81032

Combe, Ph. *see* Cohendet, O.; et al. 91j:81032

Creagh, Stephen C. (with Robbins, Jonathan M.; Littlejohn, Robert G.) Geometrical properties of Maslov indices in the semiclassical trace formula for the density of states. 91k:81077

Eyal, Ofer. An alternative description of systems with a finite number of states. 91m:81112

Feoli, A. *see* Calanelli, Eduardo R.; et al. 91e:81047

Figueras, Héctor. Stratonovich-Weyl quantizers and wave equations. (Spanish summary) (see 91k:00038)

Frederick, John H. *see* Torres-Vega, Gu. 91m:81114

Gasperini, M. *see* Calanelli, Eduardo R.; et al. 91e:81047

Gracia-Bondía, José M. *see* Carliena, José F.; et al. 91m:81111

Graffi, S. (with Parmeggiani, Alberto) Quantum evolution and classical flow in complex phase space. 91e:81048

Ii, Kiyotaka. *see* Yoshioka, Akira. 91f:81077

Kazimierzczak, Piotr (with Orłowski, Arkadiusz) Remarks on a classification of Wigner distributions. 91h:81068

Lee, Hai Woong. Quantum potential in the Wigner phase space. 91e:81049

Lieb, Elliott H. Integral bounds for radar ambiguity functions and Wigner distributions. 91f:81076

Littlejohn, Robert G. *see* Creagh, Stephen C.; et al. 91k:81077

Manià, Alessandro. *see* Cirelli, Renzo; et al. 91k:81076

Narcowich, Francis J. (with O'Connell, R. F.) A unified approach to quantum dynamical maps and Gaussian Wigner distributions. 91h:81034

— Distributions of h -positive type and applications. 91h:81035

— Geometry and uncertainty. 91i:81068

Nica, N. (with Săndulescu, A.) Fourth-order moments of an open harmonic oscillator (Weyl-Wigner-Moyal and Heisenberg representations). (Not in MR)

O'Connell, R. F. *see* Narcowich, Francis J.; et al. 91h:81034

Orłowski, Arkadiusz. *see* Kazimierzczak, Piotr. 91h:81068

Ozorio de Almeida, Alfredo M. *see* de Aguiar, Marcos A. M. 91h:81066

Parmeggiani, Alberto. *see* Graffi, S. 91e:81048

Pizzocchero, Livio. *see* Cirelli, Renzo; et al. 91k:81076

Robbins, Jonathan M. *see* Creagh, Stephen C.; et al. 91k:81077

Royer, Antoine. Wigner function in Liouville space: a canonical formalism. (Not in MR)

Săndulescu, A. *see* Nica, N. (Not in MR)

Scarpetta, G. *see* Calanelli, Eduardo R.; et al. 91e:81047

Sirugue-Collin, M. *see* Cohendet, O.; et al. 91j:81032

Sonogo, Sebastiano. Path-integral derivation of phase-space distributions. 91m:81113

Torres-Vega, Gu. (with Frederick, John H.) Quantum mechanics in phase space: new approaches to the correspondence principle. 91m:81114

Uzer, T. Phase-integral quantization of accidentally and intrinsically degenerate nonlinear systems. 91h:81057

Várilly, Joseph C. *see* Carliena, José F.; et al. 91m:81111

Voros, A. *see* Balazs, N. L. 91h:81067

Wang, Lipo. Phase-space formulation of quantum mechanics under phase-space transformations: Wigner functions of an oscillator system in crossed magnetic and electric fields. 91j:81033

Yoshioka, Akira (with Ii, Kiyotaka) The quantization condition in the presence of a magnetic field and quasiclassical eigenvalues of the Kepler problem with a centrifugal potential and Dirac's monopole field. 91f:81077

Items with secondary classifications in 81S30

All, S. Twareque (with Antoine, Jean-P.) Coherent states of the 1 + 1-dimensional Poincaré group: square integrability and a relativistic Weyl transform. (French summary) 91e:22011

Anchell, James L. Quantum and classical descriptions of position and phase-space densities of a model Hamiltonian. 91d:81026

Anderson, Arlen (with Anderson, Scott B.) Phase space path integration of integrable quantum systems. 91m:81115

— On predicting correlations from Wigner functions. 91e:81043

Anderson, Scott B. *see* Anderson, Arlen. 91m:81115

Antoine, Jean-P. *see* All, S. Twareque. 91e:22011

Bartzis, V. *see* Jannussis, A.; et al. 91f:81264

Batalin, I. A. (with Lavrov, P. M.; Tyutin, I. V.) An Sp(2)-covariant version of generalized canonical quantization of dynamical systems with linearly dependent constraints. 91m:81109

Blau, Matthias (with Keski-Vakkuri, Esko; Niemi, Antti J.) Path integrals and geometry of trajectories. 91m:81116

Estrada, Ricardo (with Gracia-Bondía, José M.; Várilly, Joseph C.) On asymptotic expansions of twisted products. 91c:46057

Gracia-Bondía, José M. *see* Estrada, Ricardo; et al. 91c:46057

Jannussis, A. (with Bartzis, V.; Vlahos, E.) Coherent and squeezed states in phase space. 91f:81264

Kasperkovitz, P. Quasiclassical descriptions of quantum systems based on coherent states: product formulae. 91m:81099

Keski-Vakkuri, Esko. *see* Blau, Matthias; et al. 91m:81116

Kupershmidt, Boris A. Quantizations and integrable systems. 91i:58051

Lavrov, P. M. *see* Batalin, I. A.; et al. 91m:81109

Lebeuf, P. (with Saraceno, M.) Eigenfunctions of nonintegrable systems in generalised phase spaces. 91h:81020

— (with Voros, A.) Chaos-revealing multiplicative representation of quantum eigenstates. 91h:81021

— (with Saraceno, M.) Structure of eigenfunctions in terms of classical trajectories in an SU(3) schematic shell model. 91e:81122

Leschke, Hajo (with Wonneberger, Siegfried) Phase-space aspects of quantum partition functions. (see 91k:81004)

Longhi, G. (with Lusanna, Luca; Pons, J. M.) On the many-time formulation of classical particle dynamics. 91f:58029

Lusanna, Luca. *see* Longhi, G.; et al. 91f:58029

Morera, Carlos. Produits star sur certains G/K kähleriens. Équation de Yang-Baxter et produits star sur G [Star products on some Kähler G/K . The Yang-Baxter equation and star products on G]. 91g:58094

Niemi, Antti J. *see* Blau, Matthias; et al. 91m:81116

O'Connell, R. F. Quantum distribution functions in nonequilibrium statistical mechanics. (see 91m:82002)

Pons, J. M. *see* Longhi, G.; et al. 91f:58029

Saraceno, M. *see* Lebeuf, P. 91h:81020 and 91h:81020

Smolin, Lee. Invariants of links and critical points of the Chern-Simons [Simons] path integrals. 91e:57020

Takahashi, Kin'ya. Distribution functions in classical and quantum mechanics. 91a:81051

Tyutin, I. V. *see* Batalin, I. A.; et al. 91m:81109

Várilly, Joseph C. *see* Estrada, Ricardo; et al. 91c:46057

Vlahos, E. *see* Jannussis, A.; et al. 91f:81264

Voros, A. Wentzel-Kramers-Brillouin method in the Bargmann representation. 91a:81046

— *see also* Lebeuf, P. 91h:81021

Wonneberger, Siegfried. *see* Leschke, Hajo. (91k:81004)

Wu, Yihren. Classical nonabelian Berry's phase. 91h:81041

81S40 Path integrals [see also 58D30]

Adachi, Satoshi. A numerical evaluation of the semiclassical coherent state path integral. 91a:81089

Ambjørn, Jan (with Durhuus, Bergfinnur; Jónsson, Thórhur) A random walk representation of the Dirac propagator. 91f:81078

Anderson, Arlen (with Anderson, Scott B.) Phase space path integration of integrable quantum systems. 91m:81115

Anderson, Scott B. *see* Anderson, Arlen. 91m:81115

Batalin, I. A. (with Fradkin, E. S.) Formal path integral for theories with noncanonical commutation relations. 91g:81065

Batenburg, Peter (with Schakel, Adriaan M. J.) A geometrical interpretation of spin. 91c:81036

Berne, B. J. *see* Cao, Jianshu. 91h:81069

Blau, Matthias (with Keski-Vakkuri, Esko; Niemi, Antti J.) Path integrals and geometry of trajectories. 91m:81116

Cai, J. M. *see* Cai, P. Y.; et al. (91k:81004)

Cai, P. Y. (with Cai, J. M.; Inomata, Akira) A time-dependent conformal transformation in Feynman's path integral. (see 91k:81004)

Cao, Jianshu (with Berne, B. J.) Low-temperature variational approximation for the Feynman quantum propagator and its application to the simulation of quantum systems. 91h:81069

Castrigiano, D. P. L. (with Stürk, F.) New aspects of the path integrational treatment of the Coulomb potential. 91f:81079

Celeghini, Enrico (with Graziano, E.; Vitiello, G.) Classical limit and spontaneous breakdown of symmetry as an environment effect in quantum field theory. 91h:81070

Chetouani, L. (with Chouchaoui, A.; Hammann, T. F.) Path integral solution for a particle confined in a region. 91j:81034

Chouchaoui, A. *see* Chetouani, L.; et al. 91j:81034

CIAR Cosmology Program. *see* Urrut, W. G.; et al. 91m:81119

De Angelis, Gian Fabrizio (with Serva, Maurizio) On the relativistic Feynman-Kac-Ito formula. 91h:81071

Dineikhan, M. (with Efimov, G. V.; Namsrai, Kh.) Green functions of scalar particles in stochastic fields. 91f:81080

Dresse, Alain (with Grégoire, Philippe; Henneaux, Marc) Path-integral equivalence between the extended and nonextended Hamiltonian formalisms. 91g:81066

Durhuus, Bergfinnur. *see* Ambjørn, Jan; et al. 91f:81078

Efimov, G. V. *see* Dineikhan, M.; et al. 91f:81080

(Feynman, Richard Phillips) *see* Schulman, Lawrence S. (91k:81004)

- Frédérin, E. S. *see* Batalia, I. A., 91g:81065
- Gavazzi, Giuliano M. Weyl-ordered fermions and path integrals. 91a:81090
- Graziano, E. *see* Celeghini, Enrico; et al., 91h:81070
- Grégoire, Philippe *see* Dresse, Alain; et al., 91g:81066
- Grosche, Christian Path integral on the hyperbolic plane with a magnetic field. 91g:81067
- Path integrals for potential problems with δ -function perturbation. 91m:81117
- Hamann, T. F. *see* Chetani, L.; et al., 91j:81034
- Henneaux, Marc *see* Dresse, Alain; et al., 91g:81066
- Ichinose, Takashi Feynman path integral to relativistic quantum mechanics. (see 91h:35005)
- On the path integral in relation to the Dirac equation. (Japanese) 91h:81072
- Inomata, Akira Time transformation techniques in path integration. (see 91k:81004)
- (with Junker, Georg) Quantization of the Kaluza-Klein monopole system by path integration. 91e:81050
- *see also* Cal, P. Y.; et al., (91k:81004)
- Janik, V. Feynman quantization: an operator approach to path integration over commuting and anticommuting variables. 91j:81035
- Johnson, Kenneth A. Functional integrals for spin. 91a:81091
- Jónsson, Thórhur *see* Ambjørn, Jan; et al., 91f:81078
- Junker, Georg Path integration on homogeneous spaces. (see 91k:81004)
- Remarks on the local time rescaling in path integration. 91h:81073
- *see also* Inomata, Akira, 91e:81050
- Keski-Vakkuri, Esko *see* Blas, Matthias; et al., 91m:81116
- Khandekar, D. C. (with Wiegell, Frederik W.) Path-integral treatment of entangled polymers. (see 91k:81004)
- Klauder, John R. The regularized Feynman path integral. (see 91k:81004)
- Kleinert, H. Path integral on spherical surfaces in D dimensions and on group spaces. 91f:81081
- Klavinskii, Igor Four remarks concerning the Feynman integral. 91m:81118
- Orland, Peter (with Wonneberger, Siegfried) Phase-space aspects of quantum partition functions. (see 91k:81004)
- Miura, Takashi A path integral for a nonrelativistic spinor particle. 91h:81074
- Nakajima, Hideo Hermitian Fermi coordinates, dimensions and path integrals. 91f:81082
- Namiki, Mikio (with Tanaka, Satoshi) Stochastic-dynamical approach to quantum mechanics. (see 91k:81004)
- Namsrai, Kh. *see* Dineikhan, M.; et al., 91f:81080
- Nettel, S. *see* Radzihovsky, L., 91d:81050
- Niemi, Antti J. *see* Blas, Matthias; et al., 91m:81116
- O'Connor, Michael Supersymmetry and point canonical transformations in the path integral. 91c:81037
- Ohnuki, Yoshio Bogoliubov transformations in Grassmann path integrals. (see 91k:81004)
- Orland, Peter Borel path integrals for four-dimensional Dirac particles. 91f:81083
- Papadopoulos, George J. The path integral quantisation of the spinning particles with extended supersymmetries. 91c:81038
- Papanicolaou, Vassilis G. On the convergence of the Feynman path integral for a certain class of potentials. 91c:81039
- Papiez, Lech S. Remarks on functional integral representations of quantum evolutions for systems with electromagnetic fields. 91f:81084
- Radzihovsky, L. (with Nettel, S.) Cameron-Martin-Wiener expansions and one-electron quantum transport. 91d:81050
- Raghavacharyulu, I. V. V. Unified Feynman-Wiener path integrals. 91j:81036
- Rajaraman, R. The path integral and some applications. 91c:81040
- Schäkel, Adriaan M. J. *see* Batensberg, Peter, 91j:81036
- Schulman, Lawrence S. Feynman and beyond: 40 years of path integration. (see 91k:81004)
- (with Ziolkowski, Richard W.) Path integral asymptotics in the absence of classical paths. (see 91k:81004)
- Serva, Maurizio Hamiltonian semigroups associated with boson systems: a probabilistic approach. 91a:81092
- *see also* De Angelis, Gian Fabrizio, 91h:81071
- Shiekh, A. Y. Deriving the path integral from the operator formalism. (French summary) 91f:81085
- Souček, Jiří Ornstein-Uhlenbeck process in quantum mechanics and the sub-quantum coherence effect. 91a:81093
- de Souza Dutra, Álvaro Exact propagator beyond and at caustics for isotropic time-dependent coupled and driven oscillators. 91d:81051
- Spohn, Herbert The polaron functional integral. (see 91h:80034)
- Stärk, F. *see* Castiglione, D. P. L., 91f:81079
- Šlovák, P. ★ The Green's function for the two-solenoid Aharonov-Bohm effect. 91a:81094
- Sofarshan, E. C. G. Topology, quantum theory and dynamics. (see 91m:81004)
- Tanaka, Satoshi *see* Namiki, Mikio, (91k:81004)
- Thornber, K. K. A bireflexive expansion for functional integration. (Not in MR)
- Tolpin, Anatoly E. A new approach to the functional integral formalism and its application to some simple physical problems. 91k:81078
- Unruh, W. G. (with CIAR Cosmology Program; Weiss, Nathan) Momentum boundary conditions and Euclidean field theory. 91m:81119
- Vigier, Jean-Pierre Real physical paths in quantum mechanics. Equivalence of the Einstein-de Broglie and Feynman points of views on quantum particle behaviour. (see 91m:81004)
- Vitiello, G. *see* Celeghini, Enrico; et al., 91h:81070
- Weiss, Nathan *see* Unruh, W. G.; et al., 91m:81119
- Wiegell, Frederik W. Feynman and Hibbs revisited. (see 91k:81004)
- *see also* Khandekar, D. C., (91k:81004)
- Wonneberger, Siegfried *see* Leschke, Hajo, (91k:81004)
- Ziolkowski, Richard W. *see* Schulman, Lawrence S., (91k:81004)
- Items with secondary classifications in 81S40
- Albeverio, Sergio (with Paycha, Sylvie; Scarlatti, Sergio) A short overview of mathematical approaches to functional integration. 91e:81059
- Alekseev, A. Yu. (with Faddeev, L. D.; Shatashvili, S. L.) Quantization of symplectic orbits of compact Lie groups by means of the functional integral. 91d:80087
- Ali, S. Twareque (with Antoine, Jean-P.; Gazeau, Jean-Pierre) De Sitter to Poincaré contraction and relativistic coherent states. (French summary) 91e:22027
- *see also* Proceedings: Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics, (Not in MR)
- Alonso, J. L. (with Cortés, J. L.; Rivas, E.) Weyl fermion functional integral and two-dimensional gauge theories. 91f:81092
- Andersson, Lars Åke Functional integration and geometric quantization. 91h:81052
- Antoine, Jean-P. *see* Ali, S. Twareque; et al., 91e:22027
- Barut, Asim O. (with Inomata, Akira; Junker, Georg) Path integral treatment of the hydrogen atom in a curved space of constant curvature. II. Hyperbolic space. 91c:81179
- (Berananda, Jong-Orn) *see* Path integrals from meV to MeV, 91k:81004
- de Bivar-Weinholtz, António (with Lapidus, Michel L.) Product formula for resolvents of normal operators and the modified Feynman integral. 91f:47052
- Bordes, José (with Lizzi, Fedele) The space of string configurations in string field theory. 91g:58042
- Boya, Luis J. (with Casahorran, Javier) General scalar bidimensional models including kinks. 91c:81158
- Brzeźniak, Zdzisław Some remarks on the Feynman-Kac formula. 91h:58018
- Cabo, Alejandro (with Chaichian, M.; Louis-Martinez, Domingo; Preinajder, P.) An alternative derivation of the Faddeev-Popov path integral. 91m:81290
- Carmona, René A. Path integrals for relativistic Schrödinger operators. 91g:60088
- (with Masters, Wen Chen; Simon, Barry) Relativistic Schrödinger operators: asymptotic behavior of the eigenfunctions. 91f:35139
- Casahorran, Javier *see* Boya, Luis J., 91c:81158
- Chaichian, M. *see* Cabo, Alejandro; et al., 91m:81290
- Cheng, Bin Kang The two-dimensional harmonic oscillator interacting with a wedge. (Not in MR)
- Cortés, J. L. *see* Alonso, J. L.; et al., 91f:81092
- Dewey, T. G. Fractal quantum propagators. 91h:81038
- Faddeev, L. D. *see* Alekseev, A. Yu.; et al., 91d:80087
- Freed, Denise (with Harvey, Jeffrey A.) Instantons and the spectrum of Bloch electrons in a magnetic field. 91g:81021
- Freedman, Daniel Z. (with Pilch, Krzysztof) Thirring model on a Riemann surface. 91a:81147
- Gambini, R. Fermi-Bose transmutation and topological contributions in usual gauge theories. 91f:81095
- Garbaczewski, Piotr Random versus deterministic paths in stochastic mechanics. 91j:81012
- Gazeau, Jean-Pierre *see* Ali, S. Twareque; et al., 91e:22027
- Gerry, Christopher C. SU(1, 1) coherent-state dynamics: a path-integral approach. 91f:81029
- Gozzi, E. (with Reuter, M.) Algebraic characterization of ergodicity. 91e:70044
- (with Reuter, M.) Errata: "Algebraic characterization of ergodicity" [Phys. Lett. B 233 (1989), no. 3-4, 383-392; MR 91c:70044]. 91e:70045
- Haba, Zbigniew Correlation functions of σ fields with values in a hyperbolic space. 91a:81210
- Harvey, Jeffrey A. *see* Freed, Denise, 91g:81021
- Hida, Takeyuki (with Pothoff, J.; Streit, Ludwig) White noise analysis and applications. 91k:60086
- Inomata, Akira *see* Barut, Asim O.; et al., 91c:81179
- Inoue, Atsushi On functional-differential equations—a recommendation for analysis on function space. Congratulations to Professor Masao Kato on his seventieth birthday. (Japanese) 91f:58023
- Izmailov, A. F. (with Kessel, A. R.) Exact quantum partition function of the BCS model. 91j:82051
- Junker, Georg *see* Barut, Asim O.; et al., 91c:81179
- Kashiwa, Tarō Periodic coherent states and a path integral for spins. 91g:81052
- (Kato, Masao) *see* Inoue, Atsushi, 91f:58023
- Kawara, Hideyo (with Namiki, Mikio; Okamoto, Hiroshi; Tanaka, Satoshi) Derivation of a generalized stochastic path-integral formulation based on Itô calculus. 91k:81074
- Kessel, A. R. *see* Izmailov, A. F., 91j:82051
- Khrennikov, A. Yu. Mathematical methods in non-Archimedean physics. 91h:46128
- Klein, T. D. Path integral formulation of chiral gauge theories. (see 91m:00033)
- Komarov, L. I. *see* Le Van Hoang; et al., 91f:81025
- Korchemskii, G. P. Quantum geometry of Dirac fermions. 91h:81070
- Kovalchik, Yu. I. Cameron-Vladimirov formulas for Feynman integrals. (Russian) 91f:28006
- Kupsch, J. Functional integration for Euclidean Dirac fields. (French summary) 91h:81039
- Kuratsuji, Hiroshi (with Takada, Ken-Ichi) Quaternionic (alias Sp(2)) coherent state and Hilbert connection. 91h:81057
- Lapidus, Michel L. *see* de Bivar-Weinholtz, António, 91f:47052
- Le Van Hoang (with Komarov, L. I.; Romanova, T. S.) On the Coulomb Green function. 91f:81025
- Lim, S. C. Stochastic formulation of quantum field at finite temperature. (see 91k:81004)
- Lizzi, Fedele *see* Bordes, José, 91g:58042
- Lobanov, Yu. Ya. (with Shakhbagan, R. R.; Sidorova, O. V.; Zhidkov, E. P.) Computation of conditional Wiener integrals by the composite approximation formulas with weight. 91j:65045
- Louis-Martinez, Domingo *see* Cabo, Alejandro; et al., 91m:81290
- Masters, Wen Chen *see* Carmona, René A.; et al., 91f:35139
- (Morales, Pedro) *see* Proceedings: Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics, (Not in MR)
- Morrison, Harry L. *see* Spiliotopoulos, Achilles D., 91f:81262
- Mufti, Asif Ali *see* Schmitt, H. A., 91m:81101
- Namiki, Mikio *see* Kawara, Hideyo; et al., 91k:81074
- Nash, Charles Sheaf cohomology and functional integration. 91h:58019
- Negels, John W. (with Orland, Henri) ★ Quantum many-particle systems. 91f:82001
- O'Connor, Michael Path integrals, stochastic differential equations and operator ordering in supersymmetric quantum mechanics. 91g:81030
- Okamoto, Hiroshi *see* Kawara, Hideyo; et al., 91k:81074

- Oriand, Henri *see* Negre, John W., 91E82001
- Papadopoulos, George J. Anomaly cancellation in the path integral quantisation of the $N = 1$ chiral spinning particle. 91d:81144
- Parisi, Giorgio *★* Statistical field theory. 91E81116
- Paycha, Sylvie *see* Alberverio, Sergio; et al., 91E58159
- Pilch, Krzysztof *see* Freedman, Daniel Z., 91A:81147
- (Pines, David) *see* Parisi, Giorgio, 91E81116
- Potthoff, J. *see* Hida, Takeyuki; et al., 91k:60086
- Preinajder, P. *see* Cabo, Alejandro; et al., 91m:81290
- Reuter, M. *see* Guzzi, E., 91e:70044 and 91e:70045
- Rivas, E. *see* Alonso, J. L.; et al., 91E81092
- Reinold, K. O. A comparison of the path-integral and the oscillator approach to covariant loop calculus. 91d:81112
- Romanova, T. S. *see* Le Van Hoang; et al., 91E81025
- Rybaczuk, M. (with Weron, K.) Linearly coupled quantum oscillators with Lévy stable noise. 91E82044
- (Se-yakanit, Virulh) *see* Path integrals from meV to MeV, 91k:81004
- Scariatti, Sergio *see* Alberverio, Sergio; et al., 91E58159
- Schmitt, H. A. (with Mufti, Asif Ali) Path integral formalism for the coherent states of the compact orthosymplectic supergroup $OSP(1/2)$. 91m:81101
- Shabanov, S. V. *★* Структура фазового пространства в калевровых теориях. (Russian) [The structure of the phase space in gauge theories] 91E81047
- Shakhbazyan, R. R. *see* Lohano, Yu. Yu.; et al., 91j:65045
- Shatashvili, S. L. *see* Alekseev, A. Yu.; et al., 91d:58087
- Shavgulidze, E. T. *see* Smolyanov, O. G., 91e:35206
- Siderova, O. V. *see* Lohano, Yu. Yu.; et al., 91j:65045
- Simons, Barry *see* Carmona, René A.; et al., 91S:3139
- Sin, Sang-Jin Coulomb gas and the determinants of the Laplacian on the Mandelstam diagram. 91c:58143
- Smolyanov, O. G. (with Shavgulidze, E. T.) Representation of the solutions of second-order linear evolution superdifferential equations by path integrals. (Russian) 91e:35206
- Sonego, Sebastiano Path-integral derivation of phase-space distributions. 91m:81113
- Spiliotis, Achilles D. (with Morrison, Harry L.) The Hodge decomposition and the vortex Hamiltonian. 91E81262
- (Sitrakool, Wichit) *see* Path integrals from meV to MeV, 91k:81004
- Staudacher, Matthias The Yang-Lee edge singularity on a dynamical planar random surface. 91c:82062
- Storchak, S. N. A remark on hydrogen atom quantization by the path integral method. 91a:81240
- Streit, Ludwig *see* Hida, Takeyuki; et al., 91k:60086
- Takada, Ken-ichi *see* Kuratsuji, Hiroshi, 91h:81057
- Tanaka, Satoshi *see* Kawara, Hideyo; et al., 91k:81074
- Weron, K. *see* Rybaczuk, M., 91E82044
- Zhidkov, E. P. *see* Lohano, Yu. Yu.; et al., 91j:65045

Items listed otherwise than by author

Bangkok *★* Path integrals from meV to MeV. 91k:81004

Conference:

Path Integrals from meV to MeV *★* Path integrals from meV to MeV. 91k:81004

Montreal, PQ *★* Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Path integrals from meV to MeV *★* Path integrals from meV to MeV. 91k:81004

Proceedings:

Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics

★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Seminar:

Functional Integration Methods in Stochastic Quantum Mechanics, Joint Concordia-Sherbrooke

★ Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Sherbrooke, PQ *★* Proceedings of the Joint Concordia-Sherbrooke Seminar Series on Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

Functional Integration Methods in Stochastic Quantum Mechanics. (Not in MR)

81S99 None of the above, but in this section

- Batalin, I. A. (with Fradkin, E. S.; Fradkina, T. E.) Generalized canonical quantization of dynamical systems with constraints and curved phase space. 91E81036
- Crespo, G. (with Proto, A. N.; Plastino, A.; Otero, Dino) Information-theory approach to the variable-mass harmonic oscillator. 91g:81068
- Doebner, H.-D. (with Elmers, H. J.; Heidenreich, Wolfgang) On topological effects in quantum mechanics: the harmonic oscillator in the pointed plane. 91c:81041
- Elmers, H. J. *see* Doebner, H.-D.; et al., 91c:81041
- Fradkin, E. S. *see* Batalin, I. A.; et al., 91E81036
- Fradkina, T. E. *see* Batalin, I. A.; et al., 91E81036
- Fuda, Michael G. A new picture for light front dynamics. 91c:81042
- Gelman, D. M. (with Tyutin, I. V.) Canonical quantization of relativistic particle. 91h:81058
- Govaerts, Jan Hamiltonian reduction of first-order actions. 91h:81075
- Grudziński, Hubert *★* A study of the convex structure of the set of fermion N -representable 2-density operators. 91e:81051
- Heidenreich, Wolfgang *see* Doebner, H.-D.; et al., 91c:81041
- Isar, A. (with Săndulescu, A.; Scutaru, Horia; Scheid, Werner) Damping of angular momentum in an open quantum system within the Lindblad theory. (Italian and Russian summaries) 91a:81095
- Isham, Christopher J. Quantum topology and quantisation on the lattice of topologies. 91d:81053
- Kleinert, H. Quantum mechanics and path integrals in spaces with curvature and torsion. 91k:81079
- Knabe, Stefan On the quantisation of Arnold's cat. 91E81086
- Maslov, V. P. A probabilistic-statistical model in quantum mechanics. 91h:81059

- Milnchov, Ludwig Dirac quantization for the rotation of a top. 91h:81060
- Namiet, V. A. Modeling quantum equations by a system with a wandering classical point and renormalizations. 91a:81096
- Oppenlander, B. V. Transformation properties of the spin vector. (Russian) 91c:81043
- Otero, Dino *see* Crespo, G.; et al., 91g:81068
- Plastino, A. *see* Crespo, G.; et al., 91g:81068
- Plyushchal, M. S. Massless point particle with rigidity. 91h:81037
- Proto, A. N. *see* Crespo, G.; et al., 91g:81068
- Săndulescu, A. *see* Isar, A.; et al., 91a:81095
- Scheid, Werner *see* Isar, A.; et al., 91a:81095
- Scutaru, Horia *see* Isar, A.; et al., 91a:81095
- Tyutin, I. V. *see* Gelman, D. M., 91h:81058
- Vasil'ev, M. A. Quantization on sphere and high-spin superalgebras. 91k:81080

Items with secondary classifications in 81S99

- Alberverio, Sergio (with Blanchard, Philippe; Kusuoka, Shigeo; Streit, Ludwig) An inverse problem for stochastic differential equations. 91d:60131
- Aldaya, Victor (with de Azcárraga, J. A.; Bisquert, J.; Cerveró, José M.) Dynamics on $SL(2, \mathbb{R}) \otimes U(1)$. 91g:81062
- Aneziris, C. (with Balachandran, A. P.; Bourdeau, Michelle Hilda; Jo, S.-G.; Ramadas, T. R.; Sorkin, R. D.) Statistics and general relativity. 91h:83040
- de Azcárraga, J. A. *see* Aldaya, Victor; et al., 91g:81062
- Balachandran, A. P. *see* Aneziris, C.; et al., 91h:83040
- Bisquert, J. *see* Aldaya, Victor; et al., 91g:81062
- Blanchard, Philippe *see* Alberverio, Sergio; et al., 91d:60131
- Bourdeau, Michelle Hilda *see* Aneziris, C.; et al., 91h:83040
- Cahen, M. (with Gutt, S.; Ohn, C.; Parker, Monique) Lie-Poisson groups: remarks and examples. 91d:22012
- van Casteren, Jan A. On generalized Schrödinger semigroups. 91k:47090
- Cerveró, José M. *see* Aldaya, Victor; et al., 91g:81062
- Doebner, H.-D. (with Tolar, J.) Symmetry and topology of the configuration space and quantization. (see 91m:81007)
- Dubois-Violette, Michel (with Kerner, Richard; Madore, John) Classical bosons in a noncommutative geometry. 91c:81056
- Filewood, G. R. A new approach to quantum gravity and the structure of space-time. 91c:83054
- de Godoy, N. F. (with Graham, Robert; Wreszinski, Walter F.) Quantisation of the Kaplan-Yorke model. 91a:81058
- Graham, Robert *see* de Godoy, N. F.; et al., 91a:81058
- Gutt, S. *see* Cahen, M.; et al., 91d:22012
- Hájřek, Petr Dirac quantisation of systems with quadratic constraints. 91g:83032
- Hönniger, Reinhard Unbounded perturbations of boson equilibrium states in their GNS-representations. 91c:82006
- Janli, V. Feynman quantization: an operator approach to path integration over commuting and anticommuting variables. 91j:81035
- Jo, S.-G. *see* Aneziris, C.; et al., 91h:83040
- Jørgensen, Palle E. T. Noncommutative differential geometry, quantization, and smooth symmetries of the C^* -algebras associated to topological dynamics. 91c:46092
- Kerner, Richard *see* Dubois-Violette, Michel; et al., 91c:81056
- Kusuoka, Shigeo *see* Alberverio, Sergio; et al., 91d:60131
- Madore, John *see* Dubois-Violette, Michel; et al., 91c:81056
- Ohn, C. *see* Cahen, M.; et al., 91d:22012
- Parker, Monique *see* Cahen, M.; et al., 91d:22012
- Pereskakov, A. V. A quantization rule for the nonlinear Schrödinger equation in an external field. (Russian) 91i:34065
- Pollot, Michael *see* Salisbury, Donald C., 91g:81034
- Ramadas, T. R. *see* Aneziris, C.; et al., 91h:83040
- Russo, Jorge G. Bosonization and fermion vertices on an arbitrary genus Riemann surface by using a global operator formalism. 91j:17049
- Salisbury, Donald C. (with Pollot, Michael) Quantum relativistic action at a distance. 91g:81034
- Semenoff, Gordon W. (with Sodano, Pasquale) Exotic spin and statistics in $(2+1)$ -dimensional canonical quantum field theory. 91c:81061
- Sherry, G. C. Generalized Poisson algebras and Hamiltonian dynamics. 91i:58048
- Sodano, Pasquale *see* Semenoff, Gordon W., 91c:81061
- Sorkin, R. D. *see* Aneziris, C.; et al., 91h:83040
- Šťovíček, P. Quantization and systems of imprimitivity for the group of diffeomorphisms. 91g:22028
- Streit, Ludwig *see* Alberverio, Sergio; et al., 91d:60131
- Tolar, J. *see* Doebner, H.-D., (91m:81007)
- Wilczek, Frank (with Wu, Yong Shi¹) Space-time approach to holonomy scattering. 91c:81066
- Wreszinski, Walter F. *see* de Godoy, N. F.; et al., 91a:81058
- Wu, Yong Shi¹ *see* Wilczek, Frank, 91c:81066
- Yoshida, Hiroaki Noncommutative analysis and the relative entropy. (Japanese. English summary) 91j:46080
- Życzkowski, P. Nonrelativistic phase-space and octonions. 91f:17002

81Txx Quantum field theory; related classical field theories

Items with secondary classifications in 81Txx

Zinn-Justin, J. *★* Quantum field theory and critical phenomena. 91h:81001

81T05 Axiomatic quantum field theory; operator algebras

- Azizov, T. Ya. (with Khoruzhii, S. S.) Operators of ghost number and ghost conjugation in BRST-quantization formalism. 91d:81053

- Baez, John C. Wick products of the free Bose field. 91c:81044
- Baumann, Klaus The theorem of Greenberg and Robinson for two-dimensional quantum field theories. 91d:81054
- Baumgartel, Hellmut On the existence of measures connected with causality for quantum fields on lattices. 91c:81045
- On causal disjointness relations and causal nets of algebras on the lattice Z^{n+1} . (German summary) 91h:81076
- Borchers, H.-J. (with Yngvason, Jakob) Local nets and selfadjoint extensions of quantum field operators. 91m:81120
- Buchholz, Detlev (with Pommann, Martin) How small is the phase space in quantum field theory? (French summary) 91g:81069
- (with D'Antoni, Claudio; Longo, Roberto) Nuclear maps and modular structures. II. Applications to quantum field theory. 91k:81081
- On quantum fields that generate local algebras. 91m:81121
- (Cook, K. M.) see Khoruzhii, S. S., 91g:81070
- Corn, R. A. (with Osborn, T. A.) Propagators for relativistic systems with nonabelian interactions. 91c:81052
- D'Antoni, Claudio see Buchholz, Detlev; et al., 91k:81081
- Doplicher, Sergio (with Roberts, John E.) Why there is a field algebra with a compact gauge group describing the superselection structure in particle physics. 91k:81082
- Farina, J. E. G. see Mosley, S. N., 91h:81077
- Figliolini, Franca (with Guido, Daniele) The Tomita operator for the free scalar field. (French summary) 91c:81046
- Fredenhagen, K. (with Rehren, K. H.; Schroer, B.) Superselection sectors with braid group statistics and exchange algebras. I. General theory. 91c:81047
- Grundling, Hendrik (with Hurst, C. A.) Algebraic structures of degenerate systems, physical requirements and the indefinite metric. (see 91m:81007)
- Guido, Daniele see Figliolini, Franca, 91c:81046
- Henning, Peter A. The generating functional for initial correlations in perturbation theory of nonequilibrium states. 91b:81061
- Hida, Takeyuki (with Potthoff, J.; Streit, Ludwig) Energy forms and white noise analysis. 91d:81038
- Hurst, C. A. Quantum theory of the free electromagnetic field. (see 91m:81007)
- see also Grundling, Hendrik, (91m:81007)
- Isham, Christopher J. (with Klauder, John R.) Affine fields and operator representations for the nonlinear σ model. 91c:81048
- Kern, J.-D. On H -bounds for ultradistribution quantum fields. 91j:81037
- Khoruzhii, S. S. ★ Introduction to algebraic quantum field theory. 91g:81070
- see also Aizikov, T. Ya., 91d:81053
- Klauder, John R. see Isham, Christopher J., 91c:81048
- Kupisch, J. Functional integration for Euclidean Dirac fields. (French summary) 91i:81039
- Longo, Roberto see Buchholz, Detlev; et al., 91k:81081
- Medvedev, B. V. (with Pavlov, V. P.; Polivanov, M. K.; Sukhanov, A. D.) The amplitude of quantum field theory. 91j:81038
- Morchio, G. (with Pierotti, D.; Strocchi, Franco) Infrared and vacuum structure in two-dimensional local quantum field theory models. The massless scalar field. 91f:81087
- Mosley, S. N. (with Farina, J. E. G.) Causality and the scalar field energy. 91h:81077
- Osborn, T. A. see Corn, R. A., 91c:81052
- Pavlov, V. P. see Medvedev, B. V.; et al., 91j:81038
- Pierotti, D. see Morchio, G.; et al., 91f:81087
- Polivanov, M. K. see Medvedev, B. V.; et al., 91j:81038
- Pommann, Martin see Buchholz, Detlev, 91g:81069
- Potthoff, J. see Hida, Takeyuki; et al., 91d:81038
- Rabastyn, Szymon Deficiency indices for Wick powers in one dimension. 91i:81040
- Rehren, K. H. see Fredenhagen, K.; et al., 91c:81047
- Roberts, John E. see Doplicher, Sergio, 91k:81082
- Schroer, Franklin E., Jr. Quantum fields for reproducing kernel Hilbert spaces. 91a:81097
- Schroer, B. see Fredenhagen, K.; et al., 91c:81047
- Segal, Irving E. Algebraic quantization and stability. 91m:81122
- Streater, R. F. (with Wightman, Arthur S.) ★ PCT, spin and statistics, and all that. 91d:81055
- Streit, Ludwig see Hida, Takeyuki; et al., 91d:81038
- Strocchi, Franco see Morchio, G.; et al., 91f:81087
- Sukhanov, A. D. see Medvedev, B. V.; et al., 91j:81038
- Wightman, Arthur S. see Streater, R. F., 91d:81055
- Wollenberg, Manfred On the relations between quantum fields and local algebras of observables over curved space-time. 91h:81078
- On causal nets of algebras. 91m:81123
- Wa, Alfred C. T. Isospin incursion into CPT theorem in nonabelian gauge theory. 91a:81098
- Yngvason, Jakob see Borchers, H.-J., 91m:81120
- Items with secondary classifications in 81T05
- Baez, John C. (with Zhou, Zheng-Fang) Scattering and complete integrability in the massive ϕ^4 theory. 91i:35144
- Baumgartel, Hellmut Quasilocal algebras over index sets with a minimal condition. 91d:46088
- Borchers, H.-J. (with Yngvason, Jakob) Positivity of Wightman functionals and the existence of local nets. 91f:46095
- (Brown, Harvey R.) see Philosophical foundations of quantum field theory, 91c:81001
- Carey, Alan L. (with Hannabuss, K. C.) Simple examples of conformal field theories. 91k:81153
- Dubin, Daniel A. (with Hennings, Mark A.) Regular tensor algebras. 91g:46079
- (with Hennings, Mark A.) Symmetric tensor algebras and integral decompositions. 91g:46080
- Glimm, James (with Jaffe, Arthur M.) ★ Collected papers. Vol. 2. 91m:81003
- Hannabuss, K. C. see Carey, Alan L., 91k:81153
- (Harré, Rom) see Philosophical foundations of quantum field theory, 91c:81001
- Henning, Peter A. On the treatment of initial correlations in quantum field theory of nonequilibrium states. 91m:81161

- Hennings, Mark A. see Dubin, Daniel A., 91g:46079 and 91g:46080
- Jaffe, Arthur M. (with Lesniewski, Andrzej; Wiczerkowski, Christian) A priori quantum field equations. 91c:81052
- (with Lesniewski, Andrzej; Wiśniowski, Marek) Deformations of super-KMS functionals. 91c:46095
- see also Glimm, James, 91m:81003
- Kay, Bernard S. (with Wald, Robert M.) Some recent developments related to the Hawking effect. 91c:81086
- Khoruzhii, S. S. see Voronin, A. V., 91i:46080 and 91i:46081
- Krasnikov, N. V. On the inconsistency of the Wess-Zumino model. 91k:81098
- Landsman, N. P. C^* -algebraic quantization and the origin of topological quantum effects. 91g:81060
- Lesniewski, Andrzej see Jaffe, Arthur M.; et al., 91c:46095 and 91c:81052
- Longo, Roberto Inclusions of von Neumann algebras and quantum field theory. 91c:46096
- Index of subfactors and statistics of quantum fields. I. 91c:46097
- Index of subfactors and statistics of quantum fields. II. Correspondences, braid group statistics and Jones polynomial. 91j:46083
- Rehberg, Joachim Multiplicity of the representation of the Poincaré group on the space of two-particle states. 91d:81043
- Timmermann, Werner Quantum dynamics and algebras of unbounded operators. 91i:47062
- Tscheschner, R. D. Topological spin-statistics relation in quantum field theory. 91k:81071
- Unershtal, T. Phase-spaces and dynamical descriptions of infinite mean-field quantum systems. 91c:46097
- Voronin, A. V. (with Khoruzhii, S. S.) Op^* - and C^* -dynamical systems. I. Similar structures. 91i:46080
- (with Khoruzhii, S. S.) Op^* - and C^* -dynamical systems. II. Difference of structures: the Borchers anomaly. 91i:46081
- Wald, Robert M. see Kay, Bernard S., 91c:81086
- Wiczerkowski, Christian see Jaffe, Arthur M.; et al., 91c:81052
- Wiśniowski, Marek see Jaffe, Arthur M.; et al., 91c:46095
- Yngvason, Jakob see Borchers, H.-J., 91m:81120
- Zabel, A. M. Integral representation of generalized invariant reflection positive matrix kernel. 91k:47038
- Zhou, Zheng-Fang see Baez, John C., 91i:35144
- Zinov'ev, Ya. M. Lorentz covariant generalized functions in two-dimensional space-time. 91h:46075

Items listed otherwise than by author

Philosophical foundations of quantum field theory ★ Philosophical foundations of quantum field theory. 91c:81001

81T08 Constructive quantum field theory

- Albeverio, Sergio Some new developments concerning Dirichlet forms, Markov fields and quantum fields. 91i:81041
- Battle, Guy Ondelettes: The spinor QED₃ connection. 91m:81124
- Brydges, David (with Yau, Horng-Tzer) Grad ϕ perturbations of massless Gaussian fields. 91c:81053
- Castorina, P. (with Consoli, M.) Asymptotic freedom of massless $\lambda\phi^4$ theories. 91i:81042
- Consoli, M. see Castorina, P., 91i:81042
- Dimock, J. The Kosterlitz-Thouless phase in a hierarchical model. 91f:81088
- Driver, Bruce K. YM₂: continuum expectations, lattice convergence, and lassos. 91c:81049
- Eyink, Gregory Quantum field-theory models on fractal spacetime. I. Introduction and overview. 91c:81050
- Quantum field-theory models on fractal spacetime. II. Hierarchical propagators. 91c:81051
- Federbush, Paul A phase cell approach to Yang-Mills theory. V. Analysis of a chunk. 91g:81071
- Fröhlich, Jörg Statistics of fields, the Yang-Baxter equation, and the theory of knots and links. 91h:81079
- Jaffe, Arthur M. (with Lesniewski, Andrzej; Wiczerkowski, Christian) A priori quantum field equations. 91c:81052
- Kupisch, J. (with Thacker, W. D.) Euclidean Majorana and Weyl spinors. 91k:81083
- Lesniewski, Andrzej see Jaffe, Arthur M.; et al., 91c:81052
- Marino, E. C. Order, disorder duality in quantum field theory. 91d:81056
- Order, disorder duality in quantum field theory. 91d:81056b
- Mehta, Mayank R. Euclidean continuation of the Dirac fermion. 91m:81125a
- Errata: "Euclidean continuation of the Dirac fermion". 91m:81125b
- Nicolò, Francesco (with Peretti, Paolo) The sine-Gordon field theory model at $\alpha^2 = 8\pi$, the nonsuperrenormalizable theory. 91c:81054
- Peretti, Paolo see Nicolò, Francesco, 91c:81054
- Thacker, W. D. see Kupisch, J., 91k:81083
- Wiczerkowski, Christian see Jaffe, Arthur M.; et al., 91c:81052
- Yau, Horng-Tzer see Brydges, David, 91c:81053
- Items with secondary classifications in 81T08
- Albeverio, Sergio (with Paycha, Sylvie; Scarlatti, Sergio) A short overview of mathematical approaches to functional integration. 91i:58159
- Aizikov, T. Ya. (with Khoruzhii, S. S.) Operators of ghost number and ghost conjugation in BRST-quantization formalism. 91d:81053
- Bandyopadhyay, Pratib (with Hajra, Kishinur; Ghosh, Pradip) Stochastic field theory, holomorphic quantum mechanics, and supersymmetry. 91d:81047
- Federbush, Paul The n plus ultra of tree graph inequalities. 91d:81091
- Gawędziński, Krzysztof Constructive conformal field theory. 91i:81074
- Ghosh, Pradip see Bandyopadhyay, Pratib; et al., 91d:81047
- Glimm, James (with Jaffe, Arthur M.) ★ Collected papers. Vol. 2. 91m:81003
- Hajra, Kishinur see Bandyopadhyay, Pratib; et al., 91d:81047
- Jaffe, Arthur M. (with Lesniewski, Andrzej; Wiczerkowski, Christian) Heat kernel regularization of quantum fields. 91d:81083
- Mathematics motivated by physics. 91m:81002

— see also Glimm, James, 91m:81003

Khoruzhii, S. S. see Azinov, T. Ya., 91d:81053

Klein, David see Yang, Wei-Shih, 91a:60136

Lesniewski, Andrzej see Jaffe, Arthur M.; et al., 91d:81083

Lüders, Christian (with Roberts, John E.) Local quasiequivalence and adiabatic vacuum states. 91j:81053

Paycha, Sylvie see Albeverio, Sergio; et al., 91i:58159

Roberts, John E. see Lüders, Christian, 91j:81053

Scarlatti, Sergio see Albeverio, Sergio; et al., 91i:58159

Wieczorkowski, Christian see Jaffe, Arthur M.; et al., 91d:81083

Yang, Wei-Shih (with Klein, David) Self-repelling processes associated with Brownian motions. 91a:60136

81T10 Model quantum field theories

Akdeniz, K. G. (with Barut, Asim O.; Kalayci, J.; Okan, S. E.; Tezgor, G.) Stability of the static solitons in a pure spinor theory with fractional power nonlinearities. 91d:81057

Albeverio, Sergio (with Hida, Takeyuki; Potthoff, J.; Streit, Ludwig) The vacuum of the Høegh-Krohn model as a generalized white noise functional. 91c:81053

Arponen, J. S. (with Bishop, R. F.) Independent-cluster parametrizations of wave functions in model field theories. I. Introduction to their holomorphic representations. (Not in MR)

Barut, Asim O. see Akdeniz, K. G.; et al., 91d:81057

Belvedere, L. V. (with Marino, E. C.) Exact solution of the $O(2)$ symmetric Thirring model with dynamical generation of a superconducting gap. 91a:81099

Berkovich, A. (with Murthy, Ganpathy N.) Time-dependent multipoint correlation

functions of the nonlinear Schrödinger model. 91a:81100

Bishop, R. F. see Arponen, J. S., (Not in MR)

Casahorran, Javier (with Esteve, J. G.; Tarancón, A.) The fractionisation phenomenon in the $(\lambda\phi^4)_{1+1}$ model. 91d:81058

Castagnino, Mario A. (with Domenech, Graciela; Noriega, Ricardo J.; Schifini, Claudio G.) On a general bosonic field theory. 91m:81126

Cicuta, Giovanni M. (with Montaldi, Emilio) Matrix models and marginal operators in the planar limit. 91g:81072

Cugliandolo, Leticia F. (with Lozano, Gustavo; Schaposnik, Fidel A.) A topological field theory for nonabelian vortices. 91h:81062

Domenech, Graciela see Castagnino, Mario A.; et al., 91m:81126

Esteve, J. G. see Casahorran, Javier; et al., 91d:81058

Fradkin, E. S. (with Pal'chik, M. Ya.) Exactly solvable conformally invariant quantum field models in D dimensions. 91k:81080

Freedman, Daniel Z. (with Pilch, Krzysztof) Partition functions of the superconformal ghost Thirring model. 91h:81063

— (with Latorre, José I.; Vilasis, Xavier) Illustrating the spectral form of the c -theorem. 91m:81127

Fröhlich, Jörg (with Marchetti, P. A.) Quantum skyrmions. 91k:81084

Fujii, Kazuyuki A classical solution of scalar-spinor interaction models with higher derivatives on even-dimensional spaces. 91f:81009

Harada, Kaji Fermion operator solution of the minimal chiral Schwinger model. (Not in MR)

Hida, Takayuki see Albeverio, Sergio; et al., 91c:81053

Huang, Guo Xiang see Lou, Sen Yue; et al., 91e:81055

Hurst, C. A. (with Lohse, M. A.) Regularization of the Mandelstam soliton operator. 91i:81043

Iso, Satoshi (with Itoi, Chigaku; Mukaida, Hisamitsu) The spin factor in knots and a relativistic treatment of the Bose-Fermi transmutation in second-quantized theories. 91m:81128

— (with Murayama, Hitoshi) Hamiltonian formulation of the Schwinger model: nonconfinement and screening of the charge. 91g:81073

Itoi, Chigaku see Iso, Satoshi; et al., 91m:81128

Jackiw, R. (with Pi, So Young) Soliton solutions to the gauged nonlinear Schrödinger equation on the plane. 91k:81085

Jones, Hans The geometric Schwinger model on the torus. I. 91k:81086

Kalayci, J. see Akdeniz, K. G.; et al., 91d:81057

Kao, W. F. Wilson loop and contour shapes. 91m:81129

Ketov, S. V. (with Osetrin, K. E.; Prager, Ya. S.) Geometry of dual two-dimensional nonlinear σ -models. 91k:81081

Kosiński, Piotr A note on current algebra in QCD_2 and two-dimensional chiral theories. 91f:81090

Latorre, José I. see Freedman, Daniel Z.; et al., 91m:81127

Leese, Robert A. Low-energy scattering of solitons in the CP^1 model. 91h:81082

Link, Robert Eigenstates of the Schwinger-model Hamiltonian. 91j:81039

Lohse, M. A. see Hurst, C. A., 91i:81043

Lou, Sen Yue (with Huang, Guo Xiang; Ni, Guang Jiong) Transforming some special solutions of the Φ^4 model to that of the Φ^4 and $\Phi^4 + \Phi^3$ models. 91e:81055

Lozano, Gustavo see Cugliandolo, Leticia F.; et al., 91h:81062

Lüscher, Martin Bosonization in $2+1$ dimensions. 91e:81056

Manohar, Anand V. Gauge dependence of matrix elements of the Chern-Simons current K^2 in the Schwinger model. 91m:81130

Marchetti, P. A. see Fröhlich, Jörg, 91k:81084

Marino, E. C. see Belvedere, L. V., 91a:81099

McCabe, John Francis Hamiltonian quantization of bosonic Schwinger models. 91m:81131

Montaldi, Emilio see Cicuta, Giovanni M., 91g:81072

Mukaida, Hisamitsu see Iso, Satoshi; et al., 91m:81128

Müller-Kirsten, H. J. W. (with Tchrakian, D. H.) A Skyrme-like lump in two Euclidean dimensions. 91a:81101

Murayama, Hitoshi see Iso, Satoshi, 91g:81073

Murthy, Ganpathy N. see Berkovich, A., 91a:81100

Narnhofer, Heide (with Thirring, W.) Quantum field theories with Galilei-invariant interactions. 91a:81102

Ni, Guang Jiong see Lou, Sen Yue; et al., 91e:81055

Noriega, Ricardo J. see Castagnino, Mario A.; et al., 91m:81126

Okan, S. E. see Akdeniz, K. G.; et al., 91d:81057

Osetrin, K. E. see Ketov, S. V.; et al., 91k:81081

Otsu, Hideharu (with Sato, Toshiro²) Q -balls with topological charge. 91a:81103

Pal'chik, M. Ya. see Fradkin, E. S., 91k:81080

Pi, So Young see Jackiw, R., 91k:81085

Pilch, Krzysztof see Freedman, Daniel Z., 91h:81063

Pittori, C. (with Testa, M.) The anomalous chiral Schwinger model and its quantization. Eigenfunctionals and energy spectrum. 91k:81087

Potthoff, J. see Albeverio, Sergio; et al., 91c:81053

Prager, Ya. S. see Ketov, S. V.; et al., 91k:81081

Russo, Jorge G. 2D induced quantum gravity and topological phase of the Thirring model. 91k:81088

Sato, Toshiro² see Otsu, Hideharu, 91a:81103

Schaposnik, Fidel A. see Cugliandolo, Leticia F.; et al., 91h:81062

Schifini, Claudio G. see Castagnino, Mario A.; et al., 91m:81126

Spohn, Herbert (with Stückli, R.; Wreszinski, Walter F.) Localisation for the spin J -boson Hamiltonian. (French summary) 91m:81132

Steinmann, O. On the characterization of physical states in gauge theories. (French summary) 91c:81054

Streit, Ludwig see Albeverio, Sergio; et al., 91c:81053

Stückli, R. see Spohn, Herbert; et al., 91m:81132

Tarancón, A. see Casahorran, Javier; et al., 91d:81058

Tchrakian, D. H. see Müller-Kirsten, H. J. W., 91a:81101

Testa, M. see Pittori, C., 91k:81087

Tezgor, G. see Akdeniz, K. G.; et al., 91d:81057

Thirring, W. see Narnhofer, Heide, 91a:81102

Tseytlin, A. A. (with West, Peter C.) Two remarks on chiral scalars. 91d:81059

Unruh, W. G. (with Weiss, Nathan) Relationship between the usual formulation of a massless scalar field theory and its formulation in terms of a two-form potential. 91h:81083

Vilasis, Xavier see Freedman, Daniel Z.; et al., 91m:81127

Watabiki, Yoshiyuki Remarks on the model with local $U(1)_V \times U(1)_A$ symmetry in two dimensions. (Not in MR)

Weiss, Nathan see Unruh, W. G., 91h:81083

West, Peter C. see Tseytlin, A. A., 91d:81059

Wetzasek, Chris Equivalence of Dirac quantization and Schwinger's action principle in the two-dimensional massless electrodynamics. 91f:81091

— Wess-Zumino term for chiral bosons. (Not in MR)

Wreszinski, Walter F. see Spohn, Herbert; et al., 91m:81132

Xue, She Sheng Partition function for Thirring model on a torus. (Not in MR)

Zhou, Yu Kui Exact Bethe ansatz for a quantum nonlinear Schrödinger model with the most general supermatrices. 91a:81104

Items with secondary classifications in 81T10

Alonso, J. L. (with Cortés, J. L.; Rivas, E.) Weyl fermion functional integral and two-dimensional gauge theories. 91f:81092

Bender, Carl M. see Boettcher, Stefan, 91m:81048

Boettcher, Stefan (with Bender, Carl M.) Nonperturbative square-well approximation to a quantum theory. 91m:81048

Bogachev, E. N. (with Krive, I. V.; Rozhavskii, A. S.) Aharonov-Bohm oscillations in relativistic Fermi and Bose systems. 91d:81032

Bosterli, M. Canonical transformation method for static-source meson Hamiltonians. 91m:81122

Chen, Cheng Ming see Wang, Wen Cheng, (Not in MR)

Chen, Yang Holes in Heisenberg antiferromagnets. 91d:81044

Corn, R. A. (with Osborn, T. A.) Propagators for relativistic systems with nonabelian interactions. 91e:81052

Cortés, J. L. see Alonso, J. L.; et al., 91f:81092

Durdević, Miro A Fock-space theory of local contextual hidden variables. (Not in MR)

Elizalde, E. (with Romeo, A.) Upper bounds to 1-loop symmetry restoration for the Goldstone model in $\mathbb{R}^{2+1} \times T^2$ in the low-mass and weak-coupling limit. 91e:81031

Fradkin, Eduardo Superfluidity of the lattice anyon gas. 91j:81030

Girardello, L. (with Pasquinucci, A.; Porrati, Massimo) $N=2$ Morse-Liouville theory and nonminimal superconformal theories. 91m:81246

Husain, Vihar (with Pullin, Jorge A.) Quantum theory of space-times with one Killing field. 91d:81063

Itoyama, Hiroshi (with Moxhay, P.) Universal enveloping algebras of Toda field theories and the light-cone asymmetry parameter. 91m:81085

Krive, I. V. see Bogachev, E. N.; et al., 91d:81032

Kutasov, David String theory and the nonabelian Thirring model. 91a:81167

Légaré, M. Symmetry reduction of the Wess-Zumino model and supersymmetric reduced systems. 91m:81289

Moxhay, P. see Itoyama, Hiroshi, 91m:81085

Osborn, T. A. see Corn, R. A., 91e:81052

Pasquinucci, A. see Girardello, L.; et al., 91m:81246

Porrati, Massimo see Girardello, L.; et al., 91m:81246

Pullin, Jorge A. see Husain, Vihar, 91d:81063

Rivas, E. see Alonso, J. L.; et al., 91f:81092

Romeo, A. see Elizalde, E., 91e:81031

Rozhavskii, A. S. see Bogachev, E. N.; et al., 91d:81032

Sitenko, Yu. A. $U(1)$ anomalies and zero modes in two-dimensional Euclidean quantum electrodynamics. (Russian) 91h:81160

Sklyanin, E. K. Exact quantization of the sinh-Gordon model. 91e:81117

Tedorov, Ivan T. Finite temperature 2-dimensional QFT models of conformal current algebra. 91a:81082

Wang, Wen Cheng (with Chen, Cheng Ming) The Lagrangian of a nonlinear chiral model, harmonic mappings, and continuous dual charge. (Chinese. English summary) (Not in MR)

81T13 Yang-Mills and other gauge theories [see also 53C07, 58E15]

- Actor, Alfred Failure of nontopological boundary conditions in gauge theories. **91h:81084**
- Affleck, Ian (with Harvey, Jeffrey A.; Palla, László; Semenoff, Gordon W.) The Chern-Simons term versus the monopole. **91d:81060**
- Allen, Theodore J. (with Bowick, Mark J.; Lahiri, Amitabha) Topological mass generation in $3+1$ dimensions. **91m:81133**
- Alonso, J. L. (with Cortés, J. L.; Rivas, E.) Weyl fermion functional integral and two-dimensional gauge theories. **91f:81092**
- Aoyama, S. Topological gauge theories on the coadjoint orbit of the Lie group. **91a:81105**
- Awada, Moustafa A. Geometry of quantum loops and knot theory. **91b:81064**
- Quantum geometry of loops and the exact solubility of nonabelian gauge Chern-Simons theory. II. **91h:81085**
- Balachandran, A. P. (with Bourdeau, Michelle Hilda; Jo, S.-G.) Braid statistics for the sources of the nonabelian Chern-Simons term. **91k:81089a**
- (with Bourdeau, Michelle Hilda; Jo, S.-G.) Errata: "Braid statistics for the sources of the nonabelian Chern-Simons term". **91k:81089b**
- (with Landi, Giovanni; Rai, Balram) A modified Chern-Simons term: chiral spin systems and anyon superconductivity. (Not in MR)
- Bambah, B. A. (with Mukku, C.) Effective actions for gauge theories with Chern-Simons terms. I. **91d:81061a**
- (with Mukku, C.) Erratum: "Effective actions for gauge theories with Chern-Simons terms. I". **91d:81061b**
- Bandos, I. A. Solution of linear equations in spaces of harmonic variables. **91b:81065**
- Barbero, F. (with Julve, J.; Tiemblo, A.; Treguerres, R.) Coset group realizations and space-time local symmetries. (Italian and Russian summaries) **91a:81106**
- Battle, C. (with Gomis, J.; Paris, Jordi; Roca, J.) Field-antifield formalism and Hamiltonian BRST approach. **91a:81107**
- Bäuerle, G. G. A. Sigma models and Kac-Moody algebras. **91k:81090**
- Baulieu, Laurent Stochastic and topological gauge theories. **91g:81074**
- Bengtsson, Ingemar Self-dual Yang-Mills fields and Ashtekar's variables. **91j:81040**
- Besting, P. (with Schütte, D.) Relativistic invariance of Coulomb-gauge Yang-Mills theory. **91d:81062**
- Blasi, Alberto (with Collina, R.) Finiteness of the Chern-Simons model in perturbation theory. (Not in MR)
- Bourdeau, Michelle Hilda see Balachandran, A. P.; et al., **91k:81089a** and **91k:81089b**
- Bowick, Mark J. see Allen, Theodore J.; et al., **91m:81133**
- Brishaye, Yves (with Kunz, Jutta) Normal modes around the $SU(2)$ sphalerons. **91m:81134**
- Broda, B. A three-dimensional covariant approach to monodromy (skein relations) in Chern-Simons theory. **91m:81135**
- Burgess, Mark (with Toms, David J.) Vacuum structure of Yang-Mills-Chern-Simons theory in three dimensions. **91h:81108**
- Cabe, Alejandro (with Shabad, A. E.) Effective action for a nonabelian field with a nonvanishing source. **91a:81109a**
- (with Shabad, A. E.) Quantum theory of a gauge field with a nonvanishing external source. I. Canonical formalism and Furry picture. **91a:81109b**
- (with Shabad, A. E.) Quantum theory of a gauge field with a nonvanishing external source. II. Propagators and spectra in a nonabelian external field. **91a:81109c**
- (with Louis-Martinez, Domingo) On Dirac's conjecture for Hamiltonian systems with first- and second-class constraints. **91k:81091**
- Cadavid, Ana Cristina (with Finkelstein, R. J.) Dyons in affine field theories. **91h:81086**
- Camperi, Marcelo (with Levstein, Fernando; Zemba, Guillermo) The large N limit of Chern-Simons gauge theory. **91h:81087**
- Chair, Noureddine (with Helayël-Neto, José A.; Smith, A. William) A less constrained $(2,0)$ super-Yang-Mills model. **91f:81093**
- Chakrabarti, Amitabha Additive structure of a hierarchy of self-dual $SU(2)$ gauge fields. **91a:81110**
- see also Roiesnel, C., **91g:81086**
- Chakravarty, Sarbarish (with Kent, S. L.; Newman, Ezra T.) High symmetry solutions of the anti-self-dual Yang-Mills equations. **91h:81088**
- Chamseddine, A. H. Topological gauge theory of gravity in five and all odd dimensions. **91d:81063**
- Chan, Hong-Mo (with Tsou, Sheung Tsun) Towards a "pointless" generalisation of Yang-Mills theory. **91a:81111**
- Chen, Yi Xin (with Ni, Guang Jiong) Dirac-Bergmann formalism of the Fermi-Bose transmutation in $(2+1)$ dimensions. **91k:81092**
- Coles, R. A. (with Papadopoulos, George J.) The geometry of the one-dimensional supersymmetric nonlinear sigma models. **91c:81055**
- Collina, R. see Blasi, Alberto, (Not in MR)
- Cortés, J. L. see Alonso, J. L.; et al., **91f:81092**
- Coste, Antoine (with Makowka, Michel) Abelian Chern-Simons theories on S^2 . **91g:81075**
- Cugliandolo, Leticia F. (with Lozano, Gustavo; Schaposnik, Fidel A.) Bogomol'nyi equations for nonabelian gauge theories. **91h:81044**
- (with Lozano, Gustavo; Manías, M. V.; Schaposnik, Fidel A.) Bogomol'nyi equations for nonabelian Chern-Simons-Higgs theories. **91m:81136**
- Damgaard, Poul H. (with Rivelles, V. O.) Symmetries of Chern-Simons theory in Landau gauge. **91h:81089**
- Deguchi, Shinichi Superfield formalism of topological Yang-Mills theory. **91k:81093**
- Delduc, F. (with Lucchesi, Claudio; Piguet, O.; Sorella, S. P.) Exact scale invariance of the Chern-Simons theory in the Landau gauge. (Not in MR)
- Devchand, C. $N=3$ extended supersymmetric gauge theories and an explicit construction of higher conservation laws. **91a:81112**
- Douglas, Michael R. (with Trivedi, Sandip P.) Operator product coefficients in nonstandard $SU(2)$ Wess-Zumino-Witten models. **91d:81064**
- Dubois-Violette, Michel (with Kerner, Richard; Madore, John) Classical bosons in a noncommutative geometry. **91c:81056**
- Dunne, Gerald V. (with Trugenberger, Carlo A.) Self-duality and nonrelativistic Maxwell-Chern-Simons solitons. (Not in MR)
- Eisenberg, Yeshayahu Super twistors and super-Poincaré invariant actions for all linearized extended supersymmetric theories in 4 dimensions. **91c:81057**
- Eliezer, David see Korner, Alex, **91f:81099**
- Ellicott, P. (with Kunstatler, G.; Toms, David J.) Geometrical derivation of the Faddeev-Popov ansatz. **91f:81094**
- Ershov, A. A. (with Gal'tsov, D. V.) Nonexistence of regular monopoles and dyons in the $SU(2)$ Einstein-Yang-Mills theory. **91k:81094**
- Farquhar, I. E. Comment on: "The Feynman-Dyson proof of the gauge field equations" [Phys. Lett. A **148** (1990), no. 3-4, 146-148; MR **91g:81082**] by C. R. Lee. **91j:81041**
- Fehér, L. Gy. (with Horváthy, Peter A.; O'Riartaigh, L.) Applications of chiral supersymmetry for spin fields in self-dual backgrounds. **91c:81057**
- Finkelstein, R. J. see Cadavid, Ana Cristina, **91h:81086**
- Floreani, Roberto (with Percacci, R.; Rajaraman, R.) Four-dimensional current algebra from Chern-Simons theory. **91c:81058**
- Fradkin, E. S. (with Shvartsman, Sh. M.) The continuum approach in Yang-Mills theory with an external nonabelian field. (Russian) **91m:81137**
- Fradkin, Eduardo (with Schaposnik, Fidel A.) Chern-Simons gauge theories, confinement, and the chiral spin liquid. **91j:81042**
- Frankton, Paul H. ★ Gauge field theories. **91m:81138**
- Fujii, Kazuyuki (with Otsuki, Shoichiro; Toyoda, Fumihiko) On classical configurations of $SU(2)$ gauge-Higgs system. **91d:81065**
- Fujimoto, Yasushi see Sogo, Kiyoshi, **91a:81126**
- Fusakubo, Koichi (with Otsuki, Shoichiro; Toyoda, Fumihiko) Sphalerons of $O(3)$ nonabelian sigma model on a circle. **91c:81059**
- Fung, P. C. W. see To, F. T.; et al., **91a:81129**
- Fursaev, D. V. see Kadyshchikov, V. G., **91g:81080**
- Fushchich, V. I. (with Shtelen, V. M.) Merons and instantons as products of self-interaction of the Dirac-Gürsey spinor field. **91j:81043**
- Gabrielli, Emidio Extended pure Yang-Mills gauge theories with scalar and tensor gauge fields. **91m:81139**
- Gal'tsov, D. V. see Ershov, A. A., **91k:81094**
- Gambini, R. Fermi-Bose transmutation and topological contributions in usual gauge theories. **91f:81095**
- Gegenberg, J. (with Kelly, P. F.; Mann, Robert B.; Kunstatler, G.; Vicent, D. E.; McArthur, Randall Douglas) Nonlinear sigma models with generalized geometry. **91c:81060**
- Getmanov, B. S. N -monopole soliton-type solutions of the self-duality equations for an $SU(2)$ gauge theory in Minkowski space-time. **91h:81090**
- Geyer, Bodo (with Mülsch, D.) A direct proof of Slavnov's identity in pure Yang-Mills theory. (German summary) **91j:81044**
- Gomis, J. see Battle, C.; et al., **91a:81106**
- Gracey, J. A. (with Versteegen, D.) The $O(N)$ Gross-Neveu and supersymmetric σ models on p -adic fields. **91g:81076**
- Grignani, G. (with Nardelli, G.) Scattering of low-energy fermions by a Chern-Simons vortex. **91m:81140**
- Gao, Shuo Hong see Zheng, Bo, **91g:81091**
- Gupta, K. S. (with Landi, Giovanni; Rai, Balram) Nonabelian Chern-Simons term and statistics of G/H solitons. **91a:81113a**
- (with Landi, Giovanni; Rai, Balram) Errata: "Nonabelian Chern-Simons term and statistics of G/H solitons". **91a:81113b**
- Haba, Zbigniew Functional integration, Ward identities and the WZW current algebra. **91c:81061**
- Hagen, C. R. (with Ramaswamy, Sriram) Comment on: "Gravitational corrections to Yang-Mills Chern-Simons terms" [Phys. Rev. Lett. **62** (1989), no. 11, 1217-1220; MR **90d:81091**] by A. Lerda and P. van Nieuwenhuizen. **91a:81114**
- Haller, Kurt Gauge theories in the light-cone gauge. **91j:81045**
- Hansen, F. C. Finite-size effects in spontaneously broken $SU(N) \times SU(N)$ theories. (Not in MR)
- Harvey, Jeffrey A. see Affleck, Ian; et al., **91d:81060**
- He, Xiao-Gang (with Joshi, Girish C.) Anomaly in even dimensions with an arbitrary signature and the finite-temperature effect. **91h:81091**
- Helayël-Neto, José A. see Chair, Noureddine; et al., **91f:81093**
- Henneaux, Marc (with Teitelboim, Claudio; Zanelli, Jorge) Gauge invariance and degree of freedom count. **91f:81096**
- Hietamäki, A. (with Niemi, Antti J.; Tirkkonen, O.) Four-dimensional topological Yang-Mills theory. Symmetries, local observables, Wilson loops and confinement. **91h:81092**
- Higuchi, Atsushi (with Parker, Leonard) Quantum soliton in QED in $S^1 \times \mathbb{R}^2$ spacetime. **91c:81062**
- Hirrenzaki, Satoru see Shiraiishi, Kiyoshi, (Not in MR)
- Hlonick, Zvonimir (with Sénéchal, David; Tye, S.-H. Henry) Induced Hopf term in the nonlinear σ model. **91k:81095**
- Homma, Takahiro (with Inamoto, Tadashi; Miyazaki, Tadashi) Alternative formulation in the constrained Hamiltonian system of a rigid rotator. **91g:81077**
- Hong, Jooyou (with Kim, Yoonbai; Pac, Pong Youl) Multivortex solutions of the abelian Chern-Simons-Higgs theory. **91a:81115**
- Horváthy, Peter A. ★ Introduction to monopoles. **91f:81097**
- see also Fehér, L. Gy.; et al., **91c:81057**
- Hosoya, Akio (with Soda, Jiro) Abelian gauge theory in topologically nontrivial space. **91k:81096**
- Howe, P. S. (with Townsend, P. K.) Chern-Simons quantum mechanics. **91k:81097**
- Inamoto, Tadashi see Homma, Takahiro; et al., **91g:81077**
- Isaev, A. P. see Ivanov, Evgenii Alekseevich, **91b:81066**
- Isar, A. Classical solutions in gauge field theories. (Romanian. English summary) (Not in MR)
- Isidro Filho, M. P. (with Kerman, A. K.; Trotter, Howard D.) Topologically nontrivial solutions to Yang-Mills equations with axisymmetric external sources. **91a:81116**
- Iso, Satoshi (with Itoi, Chigaku; Mukaida, Hisamitsu) Geometric description for spinning particles in three dimensions and Chern-Simons-Polyakov theory. **91c:81063**
- Ito, Keiichi R. Kosterlitz-Thouless-type transition in two-dimensional nonabelian field theory. **91g:81078**
- Itoi, Chigaku see Iso, Satoshi; et al., **91c:81063**
- Ivanov, Evgenii Alekseevich (with Isaev, A. P.) The Green-Schwarz superstring as an

- asymmetric chiral field model. **91b:81066**
- Ivanov, S. V. Contour gauge conditions in nonabelian gauge theories. **91b:81093**
- Ivanova, T. A. (with Popov, A. D.) Singular and nonsingular solutions of the Yang-Mills equations. **91b:81045**
- Jackiw, R. (with Pi, So Young) Classical and quantal nonrelativistic Chern-Simons theory. (Not in MR)
- (with Weinberg, Erick J.) Self-dual Chern-Simons vortices. **91a:81117**
- Jarvis, P. D. Coset space dimensional reduction and gauge fixing over the supercircle. **91b:81067a**
- Erratum: "Coset space dimensional reduction and gauge fixing over the supercircle". **91b:81067b**
- Jezierski, Jacek (with Kijowski, Jerzy) On the local canonical formalism in gauge field theories. **91b:81098**
- Jo, S.-G. see Balachandran, A. P.; et al., **91b:81089a** and **91b:81089b**
- Joglekar, Satish D. Superspace formulation of Yang-Mills theory. (Not in MR)
- Joshi, D. C. Self and anti self dual solutions in the SU(2) gauge theory. (Not in MR)
- (with Prasad, Rakesh) Dipole solutions in the SU(2) and SU(3) gauge theory with electric and magnetic sources. **91g:81079**
- Joshi, Girish C. see He, Xiao-Gang, **91b:81091**
- Joy, M. P. (with Sabir, M.) Nonintegrability of SU(2) Yang-Mills and Yang-Mills-Higgs systems. **91a:81118**
- Julve, J. see Barbero, F.; et al., **91a:81106**
- Kadyshevskii, V. G. (with Fursaev, D. V.) On a generalization of the gauge principle in a high-energy region. **91g:81080**
- Kamata, Masaru (with Oanai, Atsushi; Saito, Satoru) An application of half-order differential operators to four-dimensional off-shell super Yang-Mills theory. **91b:81094**
- Kapetanakis, D. (with Zoupanos, G.) On dimensional reduction over coset spaces. (Not in MR)
- Karanikas, A. I. (with Ktorides, C. N.) Curve geometry and field topology in two and three dimensions. **91b:81068**
- (with Ktorides, C. N.) Surface self-intersections and instantons. **91b:81069**
- Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Tanioka, Kazutaka) Gauge groups of Z_N orbifold models. **91e:81058**
- Kawamura, Yoshiharu see Katsuki, Yasuhiko; et al., **91e:81058**
- Kelly, P. F. see Gegenberg, J.; et al., **91c:81060**
- Kent, S. L. see Chakravarty, Sarbarish; et al., **91b:81088**
- Kerman, A. K. see Isidro Filho, M. P.; et al., **91a:81116**
- Kerner, Richard see Dubois-Violette, Michel; et al., **91c:81056**
- Khare, Arvind Nontopological Chern-Simons vortices in a scale-invariant tricritical Abelian Higgs model. **91m:81141**
- Khelshtvili, A. A. see Kiknadze, N. A., **91g:81081**
- Kieu, T. D. Path integral formulation of chiral gauge theories. (see **91m:00033**)
- Kijowski, Jerzy see Jezierski, Jacek, **91b:81098**
- Kiknadze, N. A. (with Khelshtvili, A. A.) The Legendre condition and the problem of stabilization of classical soliton solutions in generalized Skyrme models. **91g:81081**
- Kim, Sung Ku (with Soh, Kwang Sup; Yee, Jae Hyung) Index theory for the nonrelativistic Chern-Simons solitons. **91m:81142**
- Kim, Yoonbal see Hong, Jooyoung; et al., **91a:81115**
- Klinkhamer, F. R. A new sphaleron in the Weinberg-Salam theory. **91m:81143**
- Kobayashi, Tatsuo see Katsuki, Yasuhiko; et al., **91e:81058**
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) Wilson loop observables in $(2+1)$ -dimensional Chern-Simons supergravity. **91b:81095**
- Kogan, Yu. I. (with Polyubin, I. V.) The equal charge attraction in $2+1$ topologically massive nonabelian gauge theories. (Not in MR)
- Korchemskii, G. P. Quantum geometry of Dirac fermions. **91b:81070**
- Koretik, D. A. Finite gap solutions of SU(1, 1) and SU(2) duality equations and their axially symmetric stationary reductions. (Russian) **91m:81144a**
- Erratum: "Finite gap solutions of SU(1, 1) and SU(2) duality equations and their axially symmetric stationary reductions" [Mat. Sb. **181** (1990), no. 7, 923-933]. (Russian) **91m:81144b**
- Kovner, Alex (with Eliezer, David) Solitons in low energy effective theory of the four-Fermi model in $2+1$ dimensions. **91b:81099**
- Krasnikov, N. V. On the inconsistency of the West-Zumino model. **91b:81098**
- Kraus, Elisabeth (with Sibold, Klaus) Yang-Mills theories in a nonlinear gauge: quantization and gauge independence. **91d:81066**
- Ktorides, C. N. see Karanikas, A. I., **91b:81068** and **91b:81069**
- Kubysheva, Yu. A. (with Mourão, J. M.; Rudolph, Gerd; Volobuev, I. P.) ★ Dimensional reduction of gauge theories, spontaneous compactification and model building. **91a:81119**
- see also Volobuev, I. P.; et al., **91g:81088**
- Kunstatter, G. see Gegenberg, J.; et al., **91c:81060** and **Ellicott, P.; et al., 91f:81094**
- Kunz, Jutta see Brihaye, Yves, **91m:81134**
- Lahiri, Amitabha see Allen, Theodore J.; et al., **91m:81133**
- Landi, Giovanni see Gupta, K. S.; et al., **91a:81113a**; **91a:81113b** and **Balachandran, A. P.; et al., (Not in MR)**
- Lavrov, P. M. (with Tyutin, I. V.) Lagrangian quantization of gauge theories and unitarity of the physical S-matrix. **91b:81046**
- Leauté, B. (with Marclhacy, Gilbert) Transformations between Yang's K and R gauge equations for SU(2) gauge fields. (Not in MR)
- Lebedev, D. R. (with Polikarpov, M. I.; Rosly, A. A.) Gauge fields on the continuum and lattice tori. **91f:81100**
- (with Polikarpov, M. I.; Rosly, A. A.) Summation over topological classes of gauge fields in lattice gauge theories. **91b:81071**
- Leblanc, M. (with Mann, Robert B.; McKeon, D. G. C.; Sherry, T. N.) The finite effective action in the nonlinear sigma model with torsion to two-loop order. (Not in MR)
- Lee, C. R. The Feynman-Dyson proof of the gauge field equations. **91g:81082**
- see also Faruqi, I. E., **91j:81041**
- Lee, Choonkyu (with Lee, Kimyeong; Weinberg, Erick J.) Supersymmetry and self-dual Chern-Simons systems. **91d:81067**
- Lee, Kimyeong Self-dual nonabelian Chern-Simons solitons. **91m:81145**
- see also Lee, Choonkyu; et al., **91d:81067**
- Leese, Robert A. (with Peyrard, Michel; Zakrzewski, Wojciech J.) Soliton scatterings in some relativistic models in $(2+1)$ dimensions. **91e:81059**
- (Lerdia, A.) see Hagen, C. R., **91a:81114**
- Lervstein, Fernando see Camperi, Marcelo; et al., **91b:81087**
- Lim, S. C. Stochastic quantization of a gauge field in the spatial axial gauge. **91g:81083**
- Linet, Bernard Abelian Higgs model with a Chern-Simons term in 3-dimensional gravitation. **91g:81084**
- López, M. C. (with Noriega, Ricardo J.; Schifini, Claudio G.) The equivariant inverse problem and the uniqueness of the Yang-Mills equations. **91b:81096**
- see also Noriega, Ricardo J., **91d:81072**
- Louis-Martinez, Domingo see Cabo, Alejandro, **91b:81091**
- Lozano, Gustavo see Cugliandolo, Leticia F.; et al., **91b:81044** and **91m:81136**
- Lucchini, Claudio see Delduc, F.; et al., (Not in MR)
- Ma, Zhong Qi (with Tchraïan, D. H.) Gauge field systems on CP^n . **91f:81101**
- Madore, John Reduction of spinors in a noncommutative geometry. **91a:81120**
- see also Dubois-Violette, Michel; et al., **91c:81056**
- Madsen, Jens Ole The β -function in 4-dimensional topological Yang-Mills theory. **91d:81068**
- Mallet, Jean-Michel (with Niem, Antti J.) Topological Yang-Mills theory is abelian chiral anomaly in superspace. **91b:81072**
- Makowka, Michel see Coste, Antoine, **91g:81075**
- Mansias, M. V. see Cugliandolo, Leticia F.; et al., **91m:81136**
- Mann, Robert B. see Gegenberg, J.; et al., **91c:81060** and **Leblanc, M.; et al., (Not in MR)**
- Mansouri, F. see Koehler, Kenneth Rowland; et al., **91b:81095**
- Manton, N. S. (with Samols, T. M.) Skyrmons on S^3 and H^3 from instantons. **91b:81099**
- Marclhacy, Gilbert see Leauté, B., (Not in MR)
- Margolin, A. E. (with Strazhev, V. I.) Quantum noncompact sigma models. **91b:81100**
- (with Strazhev, V. I.) Quantum theory of a nonabelian gauge field with a noncompact group of internal symmetry. (Russian. English summary) **91f:81102**
- Martin, Stephen P. Observables in $2+1$ -dimensional gravity. **91d:81069**
- McArthur, Randall Douglas see Gegenberg, J.; et al., **91c:81060**
- McKeon, D. G. C. see Leblanc, M.; et al., (Not in MR)
- Miyazaki, Tadashi see Homma, Takahiro; et al., **91g:81077**
- Mizrahi, Leah Self-duality and modular invariance in gauge theories. **91b:81097**
- Moechella, Ugo (with Strocchi, Franco) The dipole field model. **91c:81064**
- Mourão, J. M. see Kubysheva, Yu. A.; et al., **91a:81119** and **Volobuev, I. P.; et al., 91g:81088**
- Mukaida, Hisamitsu see Iso, Satoshi; et al., **91c:81063**
- Mukku, C. see Bambah, B. A., **91d:81061a** and **91d:81061b**
- Millich, D. see Geyer, Bodo, **91j:81044**
- Murayama, Hitoshi Explicit quantization of the Chern-Simons action. **91b:81098**
- Myers, Robert C. (with Perival, Vipul) New symmetries in topological field theories. **91d:81070**
- Gauge fixing topological Yang-Mills. **91d:81071**
- Nam, Soonkeon see Tze, Chia Hsiung, **91d:81074**
- Nardelli, G. see Grignani, G., **91m:81140**
- Nash, Charles Singularly perturbed Chern-Simons theory. **91b:81101**
- Nelson, J. E. (with Regge, Tullio E.) Homotopy groups and $(2+1)$ -dimensional quantum gravity. **91b:81073**
- Newman, Ezra T. see Chakravarty, Sarbarish; et al., **91b:81088**
- Ni, Guang Jiong see Chen, Yi Xin, **91c:81092**
- Nielsen, N. K. Quantum equivalence of four-dimensional nonlinear σ -model and antisymmetric tensor model. **91a:81121**
- Niem, Antti J. see Mallet, Jean-Michel, **91b:81072** and **Hietamäki, A.; et al., 91b:81092**
- van Nieuwenhuizen, Peter see Schoutens, Kareljan; et al., **91a:81124**; **91e:81060** and **Hagen, C. R., 91a:81114**
- Noriega, Ricardo J. (with Schifini, Claudio G.) Addendum to: "The equivariant inverse problem and the uniqueness of the Yang-Mills equations" [J. Math. Phys. **30** (1989), no. 10, 2382-2387] by M. C. López, Noriega and Schifini. **91d:81072**
- see also López, M. C.; et al., **91b:81096**
- Oh, C. H. (with Sia, L. C.; Sudarshan, E. C. G.) Complex static solutions and wave solutions to $(2+1)$ -dimensional topologically massive gauge theories. **91b:81102**
- Ohtsubo, Noriyasu see Katsuki, Yasuhiko; et al., **91e:81058**
- O'Riartaigh, L. see Fehér, L. Gy.; et al., **91c:81057**
- Osana, Atsushi see Kamata, Masaru; et al., **91b:81094**
- Otsuki, Shoichiro see Funakubo, Koichi; et al., **91c:81059** and **Fujii, Kazuyuki; et al., 91d:81065**
- Ovdi'ko, I. A. Topological charges of gauge field configurations and order parameter configurations in heterophase systems. **91g:81085**
- Ovru, Burt A. (with Rama, S. Kalyana) Chern-Simons induced massive gauge fields in four dimensions. **91b:81074**
- Oz, Yaron BFV-BRST quantization of anomalous $d=2$ nonabelian chiral theory. **91f:81103**
- Pac, Pong Youl see Hong, Jooyoung; et al., **91a:81115**
- Pak, Namik K. (with Percacci, R.) Hamiltonian methods for nonlinear sigma models. **91a:81122**
- Canonical structure of the CP^N sigma model in $1+2$ dimensions. (Not in MR)
- Palla, László see Affleck, Ian; et al., **91d:81060**
- Papachristou, C. J. Potential symmetries for self-dual gauge fields. **91m:81146**
- Papadopoulos, George J. see Coles, R. A., **91c:81055**
- París, Jordi see Batlle, C.; et al., **91a:81107**
- Parker, Leonard see Higuchi, Atsushi, **91c:81062**
- Paul, Samir K. (with Shankar, R.; Sivakumar, M.) Fermionization of self-interacting charged scalar fields coupled to abelian Chern-Simons gauge fields in $2+1$ dimensions. (Not in MR)
- Percacci, R. see Pak, Namik K., **91a:81122** and **Floreani, Roberto; et al., 91c:81058**
- Perival, Vipul see Myers, Robert C., **91d:81070**
- Peyrard, Michel see Leese, Robert A.; et al., **91e:81059**
- Pi, So Young see Jackiw, R., (Not in MR)
- Pignat, O. see Delduc, F.; et al., (Not in MR)
- Polikarpov, M. I. see Lebedev, D. R.; et al., **91b:81071** and **91f:81100**

- Polyakov, A. M. Gauge transformations and diffeomorphisms. 91m:81147
- Polychronakos, Alexios P. Abelian Chern-Simons theories in $2+1$ dimensions. 91k:81103
- On the quantization of the coefficient of the abelian Chern-Simons term. 91m:81148
- Polyubins, I. V. see Kogan, Ya. I. (Not in MR)
- Popov, A. D. Strings and self-dual gauge fields. 91m:81149
- see also Ivanova, T. A., 91f:81045
- Prasad, Rakesh see Joshi, D. C., 91g:81079
- Rai, Balram see Gupta, K. S.; et al., 91a:81113a; 91a:81113b and Balachandran, A. P.; et al., (Not in MR)
- Rajaraman, R. see Floreanini, Roberto; et al., 91c:81058
- Rajeev, S. G. Universal gauge theory. 91m:81150
- Rama, S. Kalyana see Ovrut, Burt A., 91b:81074
- Ramaswamy, Sriram see Hagen, C. R., 91a:81114
- Randjbar-Daemi, S. (with Salam, Abdus; Strathdee, J. A.) Chern-Simons superconductivity at finite temperature. 91f:81104
- (with Salam, Abdus; Strathdee, J. A.) Anyons and Chern-Simons theory on compact spaces of finite genus. 91m:81151
- Regge, Tullio E. see Nelson, J. E., 91b:81073
- Rivas, E. see Alonso, J. I.; et al., 91f:81092
- Riviere, V. O. see Damgaard, Poul H., 91b:81089
- Roca, J. see Battle, C.; et al., 91a:81107
- Rolsenel, C. (with Chakrabarti, Amitabha) Geometry of linear pairs of self-dual gauge fields. 91g:81086
- Rosly, A. A. see Lebedev, D. R.; et al., 91b:81071 and 91f:81100
- Ross, Dennis K. Dimensional reduction in gauge theory. (Italian and Russian summaries) 91d:81073
- Rudolph, Gerd see Kubyshin, Yu. A.; et al., 91a:81119 and Volobuev, I. P.; et al., 91g:81088
- Rusakov, B. E. Loop averages and partition functions in $U(N)$ gauge theory on two-dimensional manifolds. 91m:81152
- Loop averages in $U(N)$ gauge theory on two-dimensional manifolds. 91k:81104
- Sabir, M. see Joy, M. P., 91a:81118
- Saito, Satoru see Kamata, Masaru; et al., 91b:81094
- Salam, Abdus see Randjbar-Daemi, S.; et al., 91f:81104 and 91m:81151
- Samois, T. M. Hermiticity of the metric on vortex moduli space. 91f:81105
- see also Manton, N. S., 91k:81099
- Schaposnik, Fidel A. see Cugliandolo, Leticia F.; et al., 91c:81044; Fradkin, Eduardo, 91j:81042 and Cugliandolo, Leticia F.; et al., 91m:81136
- Schiffini, Claudio G. see Noriega, Ricardo J., 91d:81072 and López, M. C.; et al., 91b:81096
- Schmid, Rudolf The geometry of BRS transformations. 91a:81123
- Schoutens, Kareljan (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Quantum BRST charge for quadratically nonlinear Lie algebras. 91a:81124
- (with Sevrin, Alexander; van Nieuwenhuizen, Peter) A new gauge theory for W -type algebras. 91c:81060
- Schütte, D. see Besting, P., 91d:81062
- Semenoff, Gordon W. (with Sodano, Pasquale) Exotic spin and statistics in $(2+1)$ -dimensional canonical quantum field theory. 91c:81061
- see also Affleck, Ian; et al., 91d:81060
- Sénéchal, David see Hlousek, Zvonimir; et al., 91k:81095
- Sevrin, Alexander see Schoutens, Kareljan; et al., 91a:81124 and 91c:81060
- Sezgin, Ergin (with Sokatchev, E.) Chern-Simons theories of symplectic superdiffeomorphisms. 91b:81075
- Shahad, A. E. see Cabo, Alejandro, 91a:81109a; 91a:81109b and 91a:81109c
- Shabanov, S. V. ★ Структура фазового пространства в калибровочных теориях. (Russian) [The structure of the phase space in gauge theories] 91f:81047
- Nonperturbative Green functions in quantum gauge theories. (Not in MR)
- Shaji, N. (with Shankar, R.; Sivakumar, M.) On Bose-Fermi equivalence in a $U(1)$ gauge theory with Chern-Simons action. 91a:81125
- Shankar, R. see Shaji, N.; et al., 91a:81125 and Paul, Samir K.; et al., (Not in MR)
- Sherry, T. N. see LeBlanc, M.; et al., (Not in MR)
- Shiraishi, Kiyoshi (with Hirenzaki, Satoru) Bogomol'nyi equations for vortices in Born-Infeld Higgs systems. (Not in MR)
- Shteleu, V. M. see Fuschich, V. I., 91j:81043
- Shvartsman, Sh. M. see Fradkin, E. S., 91m:81137
- Sia, L. C. see Oh, C. H.; et al., 91k:81102
- Siloid, Klaus see Kraus, Elisabeth, 91d:81066
- Silvestrov, P. G. Consistent calculation of the instanton-anti-instanton interaction in the nonlinear $O(3)$ σ model. 91k:81105
- Sivakumar, M. see Shaji, N.; et al., 91a:81125 and Paul, Samir K.; et al., (Not in MR)
- Smith, A. William see Chair, Noureddine; et al., 91f:81093
- Soda, Jiro see Hosoya, Akio, 91k:81096
- Sodano, Pasquale see Semenoff, Gordon W., 91c:81061
- Sogo, Kiyoshi (with Fujimoto, Yasushi) Sphaleron in a nonlinear sigma model. 91a:81126
- Soh, Kwang Sup see Kim, Sung Ku; et al., 91m:81142
- Sokatchev, E. see Sezgin, Ergin, 91b:81075
- Sonnenschein, Jacob Chiral bosons. 91a:81127
- Sorella, S. P. Algebraic characterization of the topological σ -model. 91b:81076
- see also Delduc, F.; et al., (Not in MR)
- Spaliński, Michał A. Observables in the topological quantum field theory of monopoles. 91f:81106
- On the topological Higgs theory in two dimensions. 91g:81087
- Spiridonov, V. P. (with Tkachov, F. V.) Two-loop contribution of massive and massless fields to the abelian Chern-Simons term. (Not in MR)
- Stern, Allen Bruce Pure Wess-Zumino actions in $(1+1)$ -dimensional nonlinear σ -models. 91a:81128
- Strathdee, J. A. see Randjbar-Daemi, S.; et al., 91f:81104 and 91m:81151
- Strassmann, Norbert (with Zhou, Zhi-Hong) Instability of the Bartnik-McKinnon solution of the Einstein-Yang-Mills equations. 91f:81107
- Strazhev, V. I. see Margolin, A. E., 91f:81102 and 91k:81100
- Strocchi, Franco see Moschella, Ugo, 91c:81064
- Sudarshan, E. C. G. see Oh, C. H.; et al., 91k:81102
- Swanson, Mark S. Fock-space representation of coupled abelian Chern-Simons theory. 91m:81153
- Tanai, Yoshiaki On the BRST approach to two-dimensional gauge theories in the light-cone gauge. 91c:81065
- Tanioka, Kazutaka see Katsuki, Yasuhiko; et al., 91c:81058
- Tchraïan, D. H. Solitons in R_3 with winding number n . 91k:81106
- see also Ma, Zhong Qi, 91f:81101
- Teh, Rosy Solutions of the classical $SU(2)$ Yang-Mills theory in $(2+1)$ dimensions with the Chern-Simons term: ansatz building. 91m:81154
- Teitelboim, Claudio see Henneaux, Marc; et al., 91f:81096
- Tiembo, A. see Barbero, F.; et al., 91a:81106
- Tirkkonen, O. see Hietamäki, A.; et al., 91b:81092
- Tkachov, F. V. see Spiridonov, V. P., (Not in MR)
- Tu, F. T. (with Fung, P. C. W.; Wong, W. T.) New solutions to the classical nonabelian Yang-Mills gauge field with confinement. 91a:81129
- Toms, David J. see Burgess, Mark, 91a:81108 and Elliott, P.; et al., 91f:81094
- Townsend, P. K. see Howe, P. S., 91k:81097
- Toyoda, Fumihiko see Funakubo, Koichi; et al., 91c:81059 and Fujii, Kazuyuki; et al., 91d:81065
- Tresguerres, R. see Barbero, F.; et al., 91a:81106
- Trivedi, Sandip P. see Douglas, Michael R., 91d:81064
- Trotter, Howard D. see Isidro Filho, M. P.; et al., 91a:81116
- Trugenberger, Carlo A. see Dunne, Gerald V., (Not in MR)
- Tsao, Sheng Tsun see Chan, Hong-Mo, 91a:81111
- Tye, S.-H. Henry see Hlousek, Zvonimir; et al., 91k:81095
- Tyutin, I. V. see Lavrov, P. M., 91d:81046
- Tze, Chia Hsiung (with Nam, Soonkeon) Topological phase entanglements of membrane solitons in division algebra sigma models with a Hopf term. 91d:81074
- Vaz, Cenalo see Koehler, Kenneth Rowland; et al., 91b:81095
- Versteeg, D. see Gracey, J. A., 91g:81076
- Vicent, D. E. see Gegenberg, J.; et al., 91c:81060
- Volobuev, I. P. (with Kubyshin, Yu. A.; Mourão, J. M.; Rudolph, Gerd) Dimensional reduction of symmetric gauge fields, Higgs models, and spontaneous compactification. 91g:81088
- see also Kubyshin, Yu. A.; et al., 91a:81119
- Wakamatsu, M. The Nambu-Jona-Lasinio model and the chiral anomaly. 91c:81062
- Wallet, J.-C. Algebraic set-up for the gauge-fixing of BF and super BF systems. 91f:81108
- Ward, R. S. Linearization of the $SU(\infty)$ Nahm equations. 91g:81089
- Weinberg, Erick J. see Jackiw, R., 91a:81117 and Lee, Choonkyu; et al., 91d:81067
- Wen, Jia Ru (with Zheng, Han Qing) Wormholes made with $SU_L(n) \times SU_R(n)$ or $O(n)$ nonlinear σ models. 91k:81107
- Wen, Xiao-Gang Topological orders in rigid states. 91k:81099
- Wilczek, Frank (with Wu, Yong Shi¹) Space-time approach to holonomy scattering. 91c:81066
- Witten, L. see Koehler, Kenneth Rowland; et al., 91b:81095
- Wong, W. T. see Tu, F. T.; et al., 91a:81129
- Wu, Yong Shi¹ (with Zee, A.) A closed-string (or ring) soliton configuration with nonzero Hopf number. 91c:81067
- see also Wilczek, Frank, 91c:81066
- Xu, Rui-Ming A sphaleron solution in the CP^{N-1} model. 91c:81068
- Yang, Yisong On the BPS limit in the classical $SU(2)$ gauge theory. 91a:81130
- Existence of the massive $SO(3)$ vortices. 91m:81155
- Yee, Jae Hyung see Kim, Sung Ku; et al., 91m:81142
- Yu, Yue Topological Yang-Mills field theory as the stochastic quantization of Chern-Simons gauge theory. 91c:81069
- Zainuddin, Hishammuddin Noether's theorem in nonlinear σ models with a Wess-Zumino term. 91f:81048
- Zait, R. A. (with Zakrzewski, Wojciech J.) Solutions of a fermion-boson model based on the supersymmetric $U(N)$ σ model with the Wess-Zumino-Witten term. 91c:81070
- Zakrzewski, Wojciech J. Some classical solutions of $U(N)$ chiral models. 91b:81077
- see also Zait, R. A., 91c:81070 and Leese, Robert A.; et al., 91c:81059
- Zanelli, Jorge see Henneaux, Marc; et al., 91f:81096
- Zee, A. see Wu, Yong Shi¹, 91c:81067
- Zemba, Guillermo see Camperi, Marcelo; et al., 91b:81087
- Zhang, Li Ning The role of complex structure in the chiral model. 91g:81090
- Zheng, Bo (with Guo, Shuo Hong) A solvable $(1+1)$ -dimensional $U(1)$ gauge model. (Chinese. English summary) 91g:81091
- Zheng, Han Qing see Wen, Jia Ru, 91k:81107
- Zhitnitskii, A. R. The CP^{N-1} -model: fractional topological charge and the index theorem for manifolds with boundary. 91a:81131
- Zhou, Zhi-Hong see Strassmann, Norbert, 91f:81107
- Zoupanos, G. see Kapetanakis, D., (Not in MR)
- Items with secondary classifications in 81T13
- Abe, Mitsuo Supersymmetric extension of local Lorentz symmetry in the vierbein formalism of Einstein gravity. 91m:83041
- Actor, Alfred Topological generation of gauge field mass by toroidal spacetime. 91c:81068
- Ahaya, Víctor (with Loll, R.; Navarro-Salas, José) BRST supergroups and quantization. 91b:81150
- Alfaro, Jorge (with Damgaard, Poul H.) Field transformations, collective coordinates and BRST invariance. 91k:81188
- de Almeida da Silva, M. A. (with Barcelos-Neto, J.) Superconformal symmetry in the nonlinear σ -model. (Italian and Russian summaries) 91a:81180
- Almgren, Frederick J., Jr. (with Lieb, Elliott H.) Counting singularities in liquid crystals. 91d:58049
- (with Lieb, Elliott H.) Counting singularities in liquid crystals. 91g:58052
- Al-Sarbi, M. S. (with Jack, I.; Jones, D. R. T.) Quadratic divergences and dimensional regularisation in two and four dimensions. 91k:81101
- de Alwis, S. P. see Carlip, Steven, 91f:83037
- Aneja, Y. P. see Mani, V.; et al., 91b:80091

- Aoki, Siyaa Chiral gauge theories on a lattice and application to the chiral Schwinger model. 91h:81106
 — see also Golterman, Maarten F. L., 91h:81107
- Arnold, R. see Nath, Pran, (Not in MR)
- Asano, G. S. (with Ponomarenko, S. F.) ★ Фиксированное расщепление над пространством-временем, ассоциируемые каллобровые поля и связности. (Russian) [Finsler fibration over space-time, associated gauge fields and connections] 91a:53097
- Asorey, Manuel (with Falco, Fernando) Geometric regularization of gauge theories. 91h:81079
 — (with Falco, Fernando) Chern-Simons theory and geometric regularization. 91m:81156
- Atiyah, Michael Francis The geometry and physics of knots. 91h:57003
 — The frontier between geometry and physics. 91d:57001
- de Azavedo, J. A. (with Izquierdo, J. M.; Macfarlane, A. J.) Current algebra and Wess-Zumino terms: a unified geometric treatment. 91g:81040
- Azizov, T. Ya. (with Khoruzhii, S. S.) Operators of ghost number and ghost conjugation in BRST-quantization formalism. 91d:81053
- van Baal, Pierre An introduction to topological Yang-Mills theory. 91h:58035
 — see also Braam, Peter J., 91a:58041
- Baby, B. V. Painlevé property and Bäcklund transformation of SU(2) Yang-Mills-Higgs system. 91f:58107
- Baez, John C. Conserved quantities for the Yang-Mills equations. 91e:58211
- Bambusi, Dario Clifford algebra description of nonabelian gauge fields. 91m:58166
- Banerjee, H. (with Bhattacharya, Gautam; Banerjee, Rabin) Gauge theory of SU(2) Weyl fermion: is it consistent? 91e:81099
- Banerjee, Rabin (with Chatterjee, D.) Chern-Simons term in curved space-time. 91c:81077
 — see also Banerjee, H.; et al., 91e:81099
- Bang, Henrik Peter see Wirzba, A., 91c:81119
- Banks, Thomas (with Lykken, Joseph D.) Landau-Ginzburg description of anyonic superconductors. 91c:82079
- Barata, João C. A. On the phase structure of the compact abelian lattice Higgs model. 91g:81103
- Barcelos-Neto, J. see de Almeida da Silva, M. A., 91a:81180
- Bar-Moshe, David (with Marinov, Michael; Oz, Yaron) Bosonized actions for anomalous gauge theories on coadjoint orbits. 91k:81072
- Barroso, Augusto see Moniz, P.; et al., 91c:81088
- Bartels, Jochen (with Raabe, Bernd; Wu, Tai Tsun) Semiclassical analysis of the weak-coupling limit of SU(2) lattice gauge theory: the extreme infrared region. 91m:81173
- Barna, Madhumita see Krüger, K. D.; et al., 91h:83036
- Batalin, I. A. (with Lavrov, P. M.; Tyutin, I. V.) Extended BRST quantization of gauge theories in the generalized canonical formalism. 91a:81201
 — (with Lavrov, P. M.; Tyutin, I. V.) Covariant quantization of gauge theories in the framework of extended BRST symmetry. 91e:81103
- Basilides, Laurent BRS construction of supergravity and field theory applications. 91a:83084
 — Chern-Simons three-dimensional and Yang-Mills-Higgs two-dimensional systems as four-dimensional topological quantum field theories. 91g:81156
- Beggs, Edwin J. Solitons in the chiral equation. 91g:58104
- Bejancu, Aurel Gauge theory on the tangent bundle. 91a:53098
- Benamou, Hédi (with Pinzon, Georges) The graded Lie algebra structure of Lie superalgebra deformation theory. 91g:17021
- Bergshoeff, E. A. (with Blencowe, M. P.; Stelle, K. S.) Area-preserving diffeomorphisms and higher-spin algebras. 91g:17039
 — (with Kallosh, Renata) BRST quantization of the Green-Schwarz superstring. 91f:81213
 — (with Kallosh, Renata) Unconstrained BRST for superparticles. 91a:81202
- Bern, Zvi (with Kosower, David A.) Efficient computation of gauge theory loops using string theory. 91d:81160
- Bezerra de Melo, E. R. Classical vortex solutions in three-dimensional supersymmetric abelian-Higgs model. 91f:81205
- Bhattacharya, Gautam see Banerjee, H.; et al., 91e:81099
- Birmingham, Danny (with Rakowski, Mark T.; Thompson, George) Renormalization of topological field theory. 91d:81075
 — (with Cho, Hing Tong; Kaniwaki, R.; Rakowski, Mark T.) Gauge dependence of the η function in Chern-Simons field theory and the Vilkovisky-DeWitt correction. 91m:81157
- Bisiel, Alberto (with Maggiore, N.) BRS renormalization of nonlinear σ -models built on Kählerian homogeneous cosets. (Italian and Russian summaries) 91a:81136
- Biswas, Matthias On the representation independence of topological effects in quantum field theory. 91h:81053
 — (with Thompson, George) A new class of topological field theories and the Ray-Singer torsion. 91h:53089
- Blencowe, M. P. see Bergshoeff, E. A.; et al., 91g:17039
- Blümler, Konrad Werner Heisenberg's ideas on particle physics in the light of recent achievements. (Not in MR)
- Blok, B. Classical exchange algebras in the Wess-Zumino-Witten model. 91c:81124
- Borghain, P. see Krüger, K. D.; et al., 91h:83036
- Bos, Michiel (with Nair, V. P.) Coherent state quantization of Chern-Simons theory. 91a:81203
- Boukara, Salah (with Nijhoff, F. W.; Maillet, Jean-Michel) On a generalization of BRS and gauge transformations. 91c:17011
- Braam, Peter J. (with van Baal, Pierre) Nahm's transformation for instantons. 91a:58041
- Braden, Harry W. (with Siegwart, D. K.) SU(n) anomaly generating functionals: a toolkit for model builders. 91c:22035
- Brandt, Friedemann (with Dragon, Norbert; Kreuzer, Maximilian) Completeness and nontriviality of the solutions of the consistency conditions. 91j:81066
 — (with Dragon, Norbert; Kreuzer, Maximilian) Lie algebra cohomology. 91j:81087
- Braichikov, A. V. Two-dimensional chiral models with infinite-dimensional symmetry algebras. 91e:81066
- Bukhbinder, I. L. (with Shapiro, I. L.) On the renormalisation group equations in curved spacetime with torsion. 91c:81079
 — (with Shapiro, I. L.; Yagunov, E. G.) Asymptotic conformal invariance of SU(N) models of quantum field theory in curved space-time. 91c:81080
- Burgess, Mark (with Toms, David J.) Fractional statistics and the dynamical gauge symmetry of Yang-Mills-Chern-Simons theory. (Not in MR)
- Campbell, Bruce A. (with Duncan, M. J.; Kaloper, Nemanja; Olive, Keith A.) Axion hair for Kerr black holes. 91h:83060
- Carlip, Steven (with de Alwis, S. P.) Wormholes in 2 + 1 dimensions. 91j:83037
- Carmeli, M. (with Huleihil, Kh.; Leibowitz, E.) ★ Gauge fields. 91m:58033
- Casahorran, Javier (with Nam, Soonkeon) Group theoretical approach to the fluctuation equations of bounces. 91f:35015
- Catenacci, Roberto (with Pirola, Gian Pietro) A geometrical description of local and global anomalies. 91a:81197
 — (with Reina, Cesare) Liftings of group actions and physical applications. (Italian. English summary) 91j:58014
- Cendra, Hernan (with Ibort, Luis A.; Marsden, Jerrold E.) Horizontal Lin constraints, Clebsch potentials and variational principles on principal fiber bundles. 91h:58028
- Chaichian, M. (with Leites, D. A.; Lukierski, Jerzy) General $D = 1$ local supercoordinate transformations and their supercurrent algebras. 91e:81034
- Chamseddine, A. H. (with Reuter, M.) Induced two-dimensional quantum gravity and SL(2, \mathbb{R}) Kac-Moody current algebra. 91a:81064
- Chatterjee, D. see Banerjee, Rabin, 91c:81077
- Chau, Ling-Ide Geometrical integrability properties of classical field theories in physics. 91a:58073
- Chipot, M. (with Sideris, T.) On the abelian Higgs model. 91a:35063
- Cho, Hing Tong see Birmingham, Danny; et al., 91m:81157
- Connes, Alain The action functional in noncommutative geometry. 91h:58246
- Cordes, Stefan F. (with Kikuchi, Yukio) Group theoretic identities for coset construction in $N = 2$ superconformal field theory. 91f:81172
- Crawford, P. see Moniz, P.; et al., 91c:81088
- Damgaard, Poul H. see Alfaro, Jorge, 91h:81188
- Das, Kanika see Krüger, K. D.; et al., 91h:83036
- Davis, Richard Lynn Quantum turbulence. 91h:82067
- De, Mrityunjay (with Roy Chowdhury, A.) On a new class of solutions for the self-dual Yang-Mills equation by the Riemann-Hilbert transform with higher-order poles. 91m:58073
- Delduc, F. (with Kalitzin, S.; Sokatchev, E.) Geometry of σ -models with heterotic supersymmetry. 91k:81185
- Derrell, T. (with Uçoluk, G.) Direct-curvature Yang-Mills field couplings induced by the Kaluza-Klein reduction of Euler form actions in seven dimensions. 91a:83075
- Deriglazov, A. A. (with Ketov, S. V.) One-loop renormalization of 4-dimensional σ -models taking into account generalized Skyrme and Wess-Zumino-Witten terms. 91c:81071
- Deser, S. (with McCarthy, James G.) Gauge invariance of Poincaré generators in free higher spin gauge theories. 91d:83101
 — Gravitational anyons. 91h:83071
- Dijkgraaf, Robbert (with Witten, Edward) Topological gauge theories and group cohomology. 91g:81133
- Dinekhin, M. (with Namsrai, Kh.) Ward identity for gauge field in stochastic quantization with nonlocal form factors. 91c:81072
- Djemai, A. E. F. (with Tahiri, M.) Cohomology and elementary particle generations. 91g:81175
- Dorn, H. (with Otto, H.-J.) On scaling dimensions of vertex operators in conformally gauged 2D quantum gravity. 91h:81126
- Dragon, Norbert see Brandt, Friedemann; et al., 91j:81086 and 91j:81087
- Driver, Bruce K. YM: continuum expectations, lattice convergence, and lassos. 91c:81049
- Dubois-Violette, Michel (with Kerner, Richard; Madore, John) Noncommutative differential geometry and new models of gauge theory. 91a:46068
- Duncan, M. J. see Campbell, Bruce A.; et al., 91h:83060
- Dunne, Gerald V. (with Halliday, Ian; Suranyi, Peter) Bosonization of parafermionic conformal field theories. 91f:81174
- Efkhovskii, A. S. see Kolokolov, I. V., 91c:81152
- Esen, Hanno General relativity as a conformally invariant scalar gauge field theory. 91h:83076
- Falco, Fernando see Asorey, Manuel, 91h:81079 and 91m:81156
- Federbush, Paul A phase cell approach to Yang-Mills theory. V. Analysis of a chunk. 91g:81071
- Ferrara, Sergio (with Van Proeyen, Antoine) A theorem on $N = 2$ special Kähler product manifolds. 91a:53109
- Ferraris, Marco see Magnano, Guido; et al., 91d:58078
- Ferretti, G. (with Rajeev, S. G.) Universal Dirac-Yang-Mills theory. 91h:81188
- Flach, Jean M. L. (with Henneaux, Marc) Antibracket-antifield formalism for constrained Hamiltonian systems. 91h:81155
- Florentini, Roberto (with Percacci, R.) Higher-dimensional abelian Chern-Simons theory. 91c:53067
 — (with Percacci, R.) Topological pregeometry. 91k:81214
- Foerster, A. (with Girotti, H. O.) Anyons and singular gauge transformations. 91a:81205
- Fok, V. V. see Kogan, Ya. I., 91g:81044
- Francaviglia, Mauro see Magnano, Guido; et al., 91d:58078
- Fukuyama, Hidetoshi see Nariyuki, Osamu; et al., 91h:82020
- Gal'perin, A. S. (with Ogievetskii, O. V.) Extended supersymmetries in topological Yang-Mills theory. 91c:57035
- Gates, S. James, Jr. Strings, superstrings and two-dimensional Lagrangian field theory. 91j:81063
- Gawędziński, Krzysztof (with Kupiainen, A.) Coset construction from functional integrals. 91f:81182
- Glachetta, Giovanni (with Mangiarotti, Luigi) Gauge-invariant and covariant operators in gauge theories. 91h:58126
- Girotti, H. O. see Foerster, A., 91a:81205
- Gocho, Toru The topological invariant of three-manifolds based on the U(1) gauge theory. 91k:57016
- Goerner, H. F. M. Exact solutions of the SO(3)-Yang-Mills-Higgs system coupled to gravitation within Poincaré gauge theory. 91d:83103
- Golterman, Maarten F. L. (with Petcher, Donald N.) Comment on: "Chiral gauge theories on a lattice and application to the chiral Schwinger model" [Phys. Rev. D (3) 38 (1988),

- no. 2, 618–626; MR 91h:81106] by S. Aoki. 91h:81107
- Gotay, Mark J. Reduction of homogeneous Yang-Mills fields. 91c:58039
- Gezzi, E. (with Rohlich, Daniel; Thacker, W. D.) Classical adiabatic holonomy in field theory. 91j:81088
- Gracey, J. A. On the renormalisation of the three-dimensional $O(N)$ σ model. 91a:81138
- Gravesen, Jens Loop groups and Yang-Mills theory in dimension two. 91c:58042
- Green, Michael B. (with Hull, Christopher M.) The quantum mechanics of an $N = 1$ superparticle in an extended superspace. 91c:81160
- Grigoryan, R. P. (with Tyutin, I. V.) Multiplicative renormalization of $N = 1$ supersymmetric Yang-Mills theories: the $SU(2)$ group. 91m:81160
- Guadagnini, E. (with Martellini, M.; Mintchev, M.) Chern-Simons model and new relations between the HOMFLY coefficients. 91d:57004
- Haba, Zbigniew Generating functional for WZW and related currents. 91d:81128
- Halliday, Ian see Dunne, Gerald V.; et al., 91f:81174
- Helayi-Neto, José A. (with Mokhtari, Susan; Smith, A. William) Torsion-induced gauge superfield mass generation for gauge-invariant nonlinear σ -models. 91c:81102
- Henneaux, Marc (with Teitelboim, Claudio) Comment on Lagrangians and symmetries. 91a:58061
- see also Fisch, Jean M. L., 91h:81155
- van Holten, J. W. Becchi-Rouet-Stora-Tyutin cohomology of compact gauge algebras. 91h:81092
- Horowitz, Gary T. Exactly soluble diffeomorphism invariant theories. 91b:53090
- Horváthy, Peter A. Dynamical symmetries of monopole scattering. 91b:58030
- Hou, Bo Yu (with Hou, Bo Yuan; Wang, Pei) Integrability properties of symmetric-space fields and their geometric interpretation. 91a:58212
- Hou, Bo Yuan see Hou, Bo Yu; et al., 91a:58212
- Huleihil, Kh. see Carmeli, M.; et al., 91m:58033
- Hull, Christopher M. (with Spence, B.; Vázquez-Bello, J. L.) The geometry of quantum gauge theories: a superspace formulation of BRST symmetry. 91m:81286
- see also Green, Michael B., 91c:81160
- Hurtubise, Jacques (with Murray, Michael K.) On the construction of monopoles for the classical groups. 91d:58037
- Hwang, Stephen Abelianization of gauge algebras in the Hamiltonian formalism. 91k:81194
- Ibort, Luis A. see Cendra, Hernán; et al., 91h:58028
- Itoyama, Hiroshi (with Razzaghe-Ashrafi, B.) Ground-state structure of supersymmetric Yang-Mills theory. (Not in MR)
- Ivanovich, J. S. (with Mason, L. J.; Newman, Ezra T.) On the density of the Ward ansätze in the space of anti-self-dual Yang-Mills solutions. 91g:32041
- Izquierdo, J. M. see de Azcárraga, J. A.; et al., 91g:81040
- Jack, I. see Al-Sarhi, M. S.; et al., 91h:81101
- Jeziński, Jacek (with Kijowski, Jerzy) The localization of energy in gauge field theories and in linear gravitation. 91f:83006
- Jing, Si Cong Berry's phase in coset pure gauge theories. (Not in MR)
- Jones, D. R. T. see Al-Sarhi, M. S.; et al., 91h:81101
- Kaku, Michio Deriving the four-string and open-closed string interactions from geometric string field theory. 91d:81104
- Kalitzin, S. see Deldac, F.; et al., 91h:81185
- Kalosh, Renata see Berghoeff, E. A., 91a:81202 and 91f:81213
- Kaloper, Nemanja see Campbell, Bruce A.; et al., 91h:83060
- Kalyana Rama, S. see Orrut, Burt A., 91h:83075
- Kanno, Hiroaki Observables in topological Yang-Mills theory and the Gribov problem. 91m:81298
- Kantowski, R. see Birmingham, Danny; et al., 91m:81157
- Karabali, Dimitra (with Park, Q-Han; Schnitzer, Howard J.) Thirring interactions, nonabelian Bose-Fermi equivalences and conformal invariance. 91d:81130
- Karchev, Naum Symmetry breaking induced by topologically massive gauge fields. 91a:81078
- Katz, Mikhail see Matravers, D. R., 91b:81089
- Kerner, Richard see Dubois-Violette, Michel; et al., 91a:46068
- Ketov, S. V. Cancelling gravitational anomalies in $d = 6$ supergravities. 91a:83085
- see also Deriglazov, A. A., 91c:81071
- Khenkin, G. M. see Novikov, R. G., 91c:32028
- Khoruzhii, S. S. see Arizov, T. Ya., 91d:81053
- Kiiränen, K. (with Rosenhaus, V.) On invariance groups in gauge theories. (Russian and Estonian summaries) 91m:58172
- Kijowski, Jerzy see Jeziński, Jacek, 91h:83006
- Kikuchi, Yukio see Cordes, Stefan F., 91f:81172
- Kimura, Toshiei see Sugano, Reiji, 91g:58239
- Koc, Piotr see Malec, Edward, 91h:83011
- Kogan, Ya. I. (with Markushevich, D. G.; Morozov, A. Yu.; Ofshantetskii, M. A.; Perelomov, A. M.; Roslyi, A. A.) Some examples of instantons in sigma models. 91m:58041
- (with Markushevich, D. G.; Morozov, A. Yu.; Ofshantetskii, M. A.; Perelomov, A. M.; Roslyi, A. A.) Some examples of instantons in sigma models. II. K^3 manifolds. 91m:58042
- (with Fok, V. V.) Generating correlation function in 2d conformal theory and the Sugawara construction of the $2 + 1$ Chern-Simons theory. 91g:81044
- The $R \rightarrow \alpha/R$ space-time duality from the $2 + 1$ point of view. 91m:81210
- Kolokolov, I. V. (with El'khovskii, A. S.) Schwinger terms as a source of gauge anomaly in the Hamiltonian approach. 91c:81152
- Kosower, David A. see Bern, Zvi, 91d:81160
- Kozameh, Carlos N. (with Newman, Ezra T.) Cartan planes and holonomy in gauge field theories. 91h:53092
- Kraus, Elisabeth A new characterization of BRS-invariant theories with a simple nonabelian gauge group. (Not in MR)
- Kraus, Lawrence M. see Preskill, John, 91m:83056
- Kreuzer, Maximilian Gauge theory of volume preserving diffeomorphisms. 91m:81299
- see also Brandt, Friedemann; et al., 91j:81006 and 91j:81067
- Kröri, K. D. (with Borgohain, P.; Barua, Madhumita; Das, Kanika) Quantum-interference effects in some fields. (French summary) 91f:83036
- Kuboki, Kazuhiro see Nariyuki, Osamu; et al., 91h:82020
- Künzle, H. P. (with Masood-ul-Alam, A. K. M.) Spherically symmetric static $SU(2)$ Einstein-Yang-Mills fields. 91b:83015
- Kupainen, A. see Gawędzki, Krzysztof, 91f:81182
- Kuratsuji, Hiroshi (with Takada, Ken-ichi) Quaternionic (alias $Sp(2)$) coherent state and Hilbert connection. 91h:81057
- Larvor, P. M. see Batalin, I. A.; et al., 91a:81201 and 91c:81103
- Lazzizzera, I. Hamiltonian formulation of Yang-Mills theories in general homogeneous axial gauges. (Italian and Russian summaries) 91b:81158
- Leblanc, M. (with Madsen, P.; Mann, Robert B.; McKeon, D. G. C.) The bosonic sigma model on a compact surface. (Not in MR)
- Lee, Joohan (with Wald, Robert M.) Local symmetries and constraints. 91c:58215
- Leibowitz, E. see Carmeli, M.; et al., 91m:58033
- Lettes, D. A. see Chalcian, M.; et al., 91c:81034
- Lerner, David E. Factorizations for self-dual gauge fields. 91m:58173
- Li, Keke Construction of topological W_3 gravity. 91h:81168
- Li, Miao (with Yu, Ming) Modular transformations of conformal blocks in WZW models on Riemann surfaces of higher genus. 91k:81169
- Lieb, Elliott H. see Almgren, Frederick J., Jr., 91d:58049 and 91g:58052
- Lia, Qiong Gui (with Ni, Guang Jiong) Dirac quantisation of Chern-Simons theories in $(2 + 1)$ dimensions. 91c:81162
- Lindström, U. (with Roček, M.; Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) Lorentz-covariant quantization of the superparticle. 91f:81219
- (with Roček, M.) $N = 2$ super Yang-Mills theory in projective superspace. 91f:81208
- Liu, Bei Shu see Zheng, Xi Te, (Not in MR)
- Löbl, R. see Aldaya, Victor; et al., 91b:81150
- Lukierski, Jerzy see Chalcian, M.; et al., 91c:81034
- Lykken, Joseph D. see Banks, Thomas, 91c:82079
- Ma, Zhong Qi (with Tchrakian, D. H.) On the stability of gauge fields in higher dimensions. 91a:53112
- Macfarlane, A. J. see de Azcárraga, J. A.; et al., 91g:81040
- Maciocia, Antony Metrics on the moduli spaces of instantons over Euclidean 4-space. 91m:58022
- Madore, John see Dubois-Violette, Michel; et al., 91a:46068
- Madsen, P. see Leblanc, M.; et al., (Not in MR)
- Maggiore, N. see Blas, Alberto, 91a:81136
- Magnano, Guido (with Ferraris, Marco; Francaviglia, Mauro) On the Legendre transformation for a class of nonregular higher-order Lagrangian field theories. 91d:58078
- Maia, Adolfo, Jr. (with Recami, Erasmo; Rodrigues, Waldyr A., Jr.; Rosa, Marcio A. F.) Magnetic monopoles without string in the Kahler-Clifford algebra bundle: a geometrical interpretation. 91d:81158
- Mallet, Jean-Michel see Boukraa, Salah; et al., 91c:17011
- Majid, Shahn Fourier transforms on \mathcal{A}/\mathcal{I} and knot invariants. 91g:58282
- Majumdar, Parthasarathi Covariantly quantized $D = 4$, $N = 1$ Green-Schwarz sigma models. (Not in MR)
- Malec, Edward (with Koc, Piotr) Trapped surfaces in monopole-like Cauchy data of Einstein-Yang-Mills-Higgs equations. 91b:83011
- Malokostov, A. M. see Zar'yalov, O. I., 91m:81166 and 91m:81167
- Mangiarotti, Luigi see Giachetta, Giovanni, 91h:58126
- Mani, V. (with Aneja, Y. P.; Singh, N.) Throughput analysis of a two station closed queueing network with blocking and server breakdown. 91b:90091
- Mann, Robert B. see Leblanc, M.; et al., (Not in MR)
- Marathe, Kishore B. (with Martucci, G.) The geometry of gauge fields. 91f:58021
- Marinov, Michael see Bar-Moshe, David; et al., 91h:81072
- Markushevich, D. G. see Kogan, Ya. I.; et al., 91m:58041 and 91m:58042
- Marques-Bonham, S. The Dirac equation in a non-Riemannian manifold. II. An analysis using an internal local n -dimensional space of the Yang-Mills type. 91h:83069
- Marsden, Jerrold E. see Cendra, Hernán; et al., 91h:58028
- Martellini, M. see Guadagnini, E.; et al., 91d:57004
- Martin, C. P. Dimensional regularization of Chern-Simons field theory. 91d:81079
- Martin, I. (with Mendoza, A.; Restuccia, A.) Superholomorphic structures, moment maps, and super self-dual Yang-Mills connections over super Riemann surfaces. 91m:58036
- Martucci, G. see Marathe, Kishore B., 91f:58021
- Mason, L. J. see Ivanovich, J. S.; et al., 91g:32041
- Masood-ul-Alam, A. K. M. see Künzle, H. P., 91b:83015
- Matravers, D. R. (with Katz, Mikhail) The Wu and Yang monopole solution in curved spacetime. 91b:81089
- Matsuyama, Toyoki Chern-Simons quantum mechanics. 91m:81045
- McCarthy, James G. see Deser, S., 91d:83101
- McClain, Bruce (with Wu, Yong Shi; Yu, Feng) Covariant quantization of chiral bosons and $OSp(1, 1|2)$ symmetry. 91h:81177
- McKeon, D. G. C. Operator regularization in Chern-Simons theory. (French summary) (Not in MR)
- see also Leblanc, M.; et al., (Not in MR)
- Mendoza, A. see Martin, I.; et al., 91m:58036
- Mickelsson, Jonko On the quantization of a Yang-Mills system with fermions in $(1 + 1)$ dimensions. 91c:81107
- Mikhailov, V. G. Complete integrability of the equation of an $O(3)$ -field in the class of rapidly decreasing functions. (Russian) 91c:58073
- Mintchev, M. see Guadagnini, E.; et al., 91d:57004
- Mohamed, G. (with Toller, M.) Radial gauge in Poincaré gauge field theories. 91d:83106
- Mohammed, Noureddine Equivalence of two-dimensional gravities. 91c:81144
- Mokhtari, Susan see Helayi-Neto, José A.; et al., 91c:81102
- Mols, R. (with Pyzh, V. M.) On the geometry for nonabelian gauge fields. (Spanish summary) 91f:53076
- Moniz, P. (with Crawford, P.; Barroso, Augusto) Spontaneous symmetry breaking in curved spacetime. 91c:81088
- Morozov, A. Yu. see Kogan, Ya. I.; et al., 91m:58041 and 91m:58042
- Murray, Michael K. see Hurtubise, Jacques, 91d:58037
- Nair, V. P. see Bos, Michiel, 91a:81203

- Nakahara, Mikio ★ Geometry, topology and physics. 91j:58003
- Nakamura, Atsushi² (with Shiraihi, Kiyoshi) The universe as a topological defect in a higher-dimensional Einstein-Yang-Mills theory. 91c:83037
- Nam, Soonkeon see Casahorran, Javier, 91c:55015
- Namsrai, Kh. see Dinatkhon, M., 91c:81072
- Narikiyo, Osamu (with Kuboki, Kazuhiro; Fukuyama, Hidetoshi) Anyons in extended t - J model. 91h:82020
- Nath, Pran (with Arnowitz, R.) Predictions from three-generation Calabi-Yau string theory. (Not in MR)
- Navarro-Salas, José see Aldaya, Víctor; et al., 91b:81150
- Newman, Ezra T. see Kozameh, Carlos N., 91b:53092 and Ivancovich, J. S.; et al., 91g:32041
- Nguyen Hong Chuong Cosmological constant and regular Bianchi type-I models with radiation in the minimum quadratic gauge theory of gravity. 91a:83067
- Ni, Guang Jiong see Lin, Qiong Gui, 91c:81162
- van Nieuwenhuizen, Peter see Lindström, U.; et al., 91f:81219
- Nijhoff, F. W. see Boukran, Salah; et al., 91c:17011
- Nikolova, Lora Generalized coupling constants for broken gauge symmetries in geometrical terms. 91f:53079
- Norikov, R. G. (with Khenkin, G. M.) Yang-Mills fields, the Radon-Penrose transform and the Cauchy-Riemann equations. (Russian) 91c:32028
- Ogievetskiĭ, O. V. see Galperin, A. S., 91c:57035
- Olive, Keith A. see Campbell, Bruce A.; et al., 91h:83060
- Oshanetskiĭ, M. A. see Kogan, Ya. L.; et al., 91m:58041 and 91m:58042
- Osborn, Hugh General bosonic σ models and string effective actions. 91k:81109
- Otto, H.-J. see Dorn, H., 91h:81126
- Ortay, Thomas H. Higher-order singularities in coupled Yang-Mills-Higgs fields. 91j:58044
- The coupled Yang-Mills-Dirac equations for differential forms. 91m:58037
- Ovrt, Burt A. (with Kalyana Rama, S.) Lorentz and U(1) Chern-Simons terms in new minimal supergravity. 91k:83075
- Oz, Yaron see Bar-Moshe, David; et al., 91k:81072
- Park, Q-Han see Karabali, Dimitra; et al., 91d:81130
- Percacci, R. see Floreani, Roberto, 91c:53067 and 91k:81214
- Perelomov, A. M. see Kogan, Ya. L.; et al., 91m:58041 and 91m:58042
- Peshkin, M. (with Tonomura, A.) ★ The Aharonov-Bohm effect. 91c:81004
- Pfeiffer, Donald N. see Goltzman, Maarten F. L., 91h:81107
- Pinczon, Georges see Benamor, Hédi, 91g:17021
- Pirola, Gian Pietro see Catenacci, Roberto, 91a:81197
- Ponomarenko, S. F. see Asanov, G. S., 91a:53097
- Popov, A. D. Vortices, strings and pseudo-instantons. 91d:81111
- Preskill, John (with Krauss, Lawrence M.) Local discrete symmetry and quantum-mechanical hair. 91h:83056
- Prugoveckĭ, Eduard Generally covariant geometro-stochastic quantum gravity. (Italian and Russian summaries) 91c:83021
- Pyatov, P. N. (with Razumov, A. V.) Gauge invariance and constraints. 91c:58061
- Pyzh, V. M. see Mela, R., 91f:53076
- Raabe, Bernd see Bartels, Jochen; et al., 91m:81173
- Rajeev, S. G. see Ferretti, G., 91h:81188
- Rakowski, Mark T. see Birmingham, Danny; et al., 91d:81075 and 91m:81157
- Ramadas, T. R. Chern-Simons gauge theory and projectively flat vector bundles on \mathcal{M}_g . 91j:32022
- Razumov, A. V. Sternberg construction and reduction. 91d:58083
- see also Pyatov, P. N., 91c:58061
- Razzaghe-Ashrafi, B. see Itoyama, Hiroshi, (Not in MR)
- Ricami, Erasmo see Maia, Adolfo, Jr.; et al., 91d:81158
- Reina, Cesare see Catenacci, Roberto, 91j:58014
- Restuccia, A. see Martin, I.; et al., 91m:58036
- Reuter, M. see Chamseddine, A. H., 91a:81064
- Rey, Soo-Jong Space-time wormholes with Yang-Mills fields. 91f:81130
- Rieffel, Marc A. Critical points of Yang-Mills for noncommutative two-tori. 91b:58014
- Roček, M. see Lindström, U., 91f:81208 and 91f:81219
- Rodrigues, Waldyr A., Jr. see Rosa, Marcio A. F., 91h:53091 and Maia, Adolfo, Jr.; et al., 91d:81158
- Rohrlich, Daniel see Gozzi, E.; et al., 91j:81088
- Rosa, Marcio A. F. (with Rodrigues, Waldyr A., Jr.) A geometrical theory of nontopological magnetic monopoles. 91h:53091
- see also Maia, Adolfo, Jr.; et al., 91d:81158
- Rosenhaus, V. see Kilanen, K., 91m:58172
- Rosly, A. A. see Kogan, Ya. L.; et al., 91m:58041 and 91m:58042
- Roy Chowdhury, A. see De, Mrityunjay, 91m:58073
- Razhanskii, I. V. One-loop string corrections to gauge charge. 91b:81114
- Rudolph, Gerd The functional integral on the lattice gauge orbit space. (German summary) 91j:81055
- Schnitzer, Howard J. see Karabali, Dimitra; et al., 91d:81130
- Schwiebert, Christian A simple algebraic derivation of Schwinger terms from chiral anomalies. 91c:81101
- Semikhatov, A. M. Supersymmetric coset models in terms of free superfields. 91c:81157
- Shapiro, I. L. see Bukhbinder, I. L., 91c:81079 and 91c:81080
- Shayokhina, N. S. Fedorov universal equations in the string and membrane theories. 91h:53077
- Shen, You Gen (with Tan, Zhen Qiang) Wormhole in the Einstein-Yang-Mills theory. 91h:83009
- Shifman, M. A. Four-dimension aspect of the perturbative renormalization in three-dimensional Chern-Simons theory. 91m:81164
- Shiraishi, Kiyoshi see Nakamura, Atsushi², 91c:83037
- Shore, G. M. Geometry of supersymmetric sigma models. II. Fermions, connections and currents. 91h:53067
- Sideris, T. see Chipot, M., 91a:35063
- Siegel, Warren 1D bosonization, 3D extended superparticles, Chern-Simons, and twistors. (Not in MR)
- see also Lindström, U.; et al., 91f:81219
- Siegwart, D. K. see Braden, Harry W., 91c:22035
- Singh, N. see Mali, V.; et al., 91b:90091
- Singh, Parvinder On axial vector torsion in vacuum quadratic Poincaré gauge field theory. 91d:83112
- Smith, A. William see Helayël-Neto, José A.; et al., 91c:81102
- Sokatchev, E. see Delduc, F.; et al., 91k:81185
- Solodukhin, S. N. The two-dimensional gauge anomaly as a curvature. 91h:81161
- Spence, B. see Hall, Christopher M.; et al., 91m:81286
- Stefanov, M. A. (with Tsypin, M. M.) The phase structure of the U(1) Higgs-fermion lattice theory. 91h:81097
- Steinmann, O. On the characterization of physical states in gauge theories. (French summary) 91c:81054
- Stelle, K. S. see Berghoeff, E. A.; et al., 91g:17039
- Štoviček, P. ★ The Green's function for the two-solenoid Aharonov-Bohm effect. 91a:81094
- Strass, Walter A. ★ Nonlinear wave equations. 91g:35002
- Sugano, Reiji (with Kimura, Toshiaki) Gauge transformations for dynamical systems with first- and second-class constraints. 91g:58239
- Surayai, Peter see Dunne, Gerald V.; et al., 91f:81174
- Świerczyński, Z. Erratum: "On the Cauchy problem for Yang-Mills equations with external current" [J. Math. Phys. 30 (1989), no. 8, 1699–1706; MR 90j:58023]. 91f:58014
- Salachányi, K. (with Vecsernyés, P.) Cluster expansion in terms of knots in gauge theories with finite nonabelian gauge groups. 91h:81098
- Tahiri, M. see Djemai, A. E. F., 91g:81175
- Takada, Ken-Ichi see Kuratsuji, Hiroshi, 91h:81057
- Takasaki, Kanehisa Hierarchy structure in integrable systems of gauge fields and underlying Lie algebras. 91b:58281
- Tan, Zhen Qiang see Shen, You Gen, 91f:83009
- Tanimura, N. (with Tanimura, O.) Recursion relation of character expansion coefficient in SU(3) lattice gauge theory. 91a:81156
- (with Tanimura, O.) U(2) extension of modified Bessel function with two indices. 91h:81110
- (with Tanimura, O.) Differential equation for SU(3) extension of Bessel function with two indices. 91k:81114
- Tanimura, O. see Tanimura, N., 91a:81156; 91h:81110 and 91k:81114
- Taubes, Clifford Henry A note and erratum concerning: "Min-max theory for the Yang-Mills-Higgs equations" [Comm. Math. Phys. 97 (1985), no. 4, 473–540; MR 86m:58042]. 91b:58043
- Tchrakian, D. H. see Ma, Zhong Qi, 91a:53112
- Teitelboim, Claudio see Henneaux, Marc, 91a:58061
- Thacker, W. D. see Gozzi, E.; et al., 91j:81088
- Thierry-Mieg, Jean BRS structure of the antisymmetric tensor gauge theories. 91j:81094
- Thompson, George see Bian, Matthias, 91b:53089 and Birmingham, Danny; et al., 91d:81075
- Toller, M. see Modanese, G., 91d:83106
- Toms, David J. see Burgess, Mark, (Not in MR)
- Tonomura, A. see Peshkin, M., 91c:81004
- Tsukabayashi, D. D., Jr. Conditions for the integrability of the equations of a nonsymmetric chiral field on SO(4). 91h:58070
- Tsypin, M. M. see Stefanov, M. A., 91h:81097
- Tyutin, I. V. see Batalin, I. A.; et al., 91a:81201; 91c:81103 and Grigoryan, R. P., 91m:81160
- Üçoluk, G. see Dereli, T., 91a:83075
- Van Proeyen, Antoine see Ferrara, Sergio, 91a:53109
- Vázquez-Bello, J. L. see Hull, Christopher M.; et al., 91m:81286
- Vecsernyés, P. see Salachányi, K., 91h:81098
- de Vega, H. J. YBZF algebras, Kac-Moody algebras and integrable theories. 91h:58056
- van de Ven, A. E. see Lindström, U.; et al., 91f:81219
- Verbin, Y. Gravitational suppression of vacuum tunnelling in Yang-Mills theories. 91h:81093
- Vergese, S. N. Dirac commutation relations and quantization of two-dimensional gauge chiral models. 91b:81162
- Vladimirov, V. S. (with Volovich, I. V.) Construction of local and nonlocal conservation laws for nonlinear field equations. (German summary) 91h:81096
- Volovich, I. V. see Vladimirov, V. S., 91h:81096
- Waelbroeck, Henri 2 + 1 lattice gravity. 91c:83042
- Wald, Robert M. see Lee, Joohan, 91c:58215
- Wan, L. D. see Yang, Jin Min; et al., 91d:81094
- Wang, Ji Chun Cohomological differential operators and the Yang-Mills equation. (Chinese. English summary) 91j:58182
- Wang, Pei see Hou, Bo Yu; et al., 91a:58212
- Ward, R. S. (with Wells, Raymond O., Jr.) ★ Twistor geometry and field theory. 91b:32034
- Classical solutions of the chiral model, unitons, and holomorphic vector bundles. 91h:58030
- Wells, Raymond O., Jr. see Ward, R. S., 91b:32034
- Wirzba, A. (with Bang, Henrik Peter) The mode spectrum and the stability analysis of skyrmions on a 3-sphere. 91c:81119
- Witten, Edward Some geometrical applications of quantum field theory. 91a:57007
- see also Dijkgraaf, Robbert, 91g:81133
- Wospakrik, Hans J. Solutions for the SU(2) chiral field equations without spatial symmetry. 91c:53068
- Wotzasek, Clovis The quantum rotor as an anomalous gauge theory. 91h:81162
- Wess-Zumino term for chiral bosons. (Not in MR)
- Wu, Chi Min see Yang, Jin Min; et al., 91d:81094
- Wu, Tai Tsun see Bartels, Jochen; et al., 91m:81173
- Wu, Yong Shi¹ (with Yamagishi, Kengo) Chern-Simons theory and Kauffman polynomials. 91h:57010
- see also McClain, Bruce; et al., 91h:81177
- Yagunov, E. G. see Bukhbinder, I. L.; et al., 91c:81080
- Yamagishi, Kengo see Wu, Yong Shi¹, 91h:57010
- Yang, Jin Min (with Wu, Chi Min; Wan, L. D.) Phase structure of lattice Z(2) gauge-Higgs theory by variational cumulant expansion. 91d:81094
- Yang, Yisong Blow-up of the SU(2, C) Yang-Mills fields. 91h:58112

- On the global behaviour of symmetric skyrmions. 91f:81237
 - Existence of solutions for a generalized Yang-Mills theory. 91g:58055
 - Yu, Feng *see* McClain, Bruce; et al., 91h:81177
 - Yu, Hong Wei Gravitational field of a family of SU(5) dyons. 91k:83020
 - Yu, Ming *see* Li, Miao, 91k:81169
 - Zav'yalov, O. I. (with Malokostov, A. M.) Universal regularizations. II. Gauge theories. 91m:81166
 - (with Malokostov, A. M.) Universal regularizations. III. Lagrangian symmetry and a "natural" ghost system in Yang-Mills theory. 91m:81167
 - Zheng, Bo Exact ground state and string tension in (1 + 1)-dimensional lattice gauge theories. 91i:81053
 - Zheng, Xi Te (with Liu, Bei Shu) Analytical calculation of the fundamental SU(2)-Higgs model in lattice gauge theory. (Not in MR)
 - Zhitnitskii, A. R. Torons, chiral symmetry breaking and the U(1) problem in the σ -model and in gauge theories. 91j:81101
 - Zhou, Xiao Fang Some soliton solutions for the Skyrme model in the three-flavor case. (Chinese. English summary) (Not in MR)
 - Zoller, Vilmos The homotopy groups of the restricted group of gauge transformations over two-dimensional manifolds. 91a:58018
- 81T15 Perturbative methods of renormalization**
- Asorey, Manuel (with Falceto, Fernando) Chern-Simons theory and geometric regularization. 91m:81156
 - Barvinskii, A. O. (with Vilkoviskii, G. A.) Covariant perturbation theory. II. Second order in the curvature. General algorithms. 91g:81092
 - (with Vilkoviskii, G. A.) Covariant perturbation theory. III. Spectral representations of the third-order form factors. 91g:81093
 - Benhamou, M. (with Kassou-ou-ali, A.) Schwinger α -parametric representation of finite temperature field theories: renormalization. 91j:81046
 - Birmingham, Danny (with Rakowski, Mark T.; Thompson, George) Renormalization of topological field theory. 91d:81075
 - (with Cho, Hing Tong; Kantowski, R.; Rakowski, Mark T.) Gauge dependence of the η function in Chern-Simons field theory and the Vilkovisky-DeWitt correction. 91m:81157
 - Böhm, Manfred *see* Kibbleck, J.; et al., 91f:81111
 - Bonneau, Guy Some fundamental but elementary facts on renormalization and regularization: a critical review of the eighties. 91f:81109
 - Chimento, Luis P. (with Jakubi, Alejandro S.) A modified renormalization procedure which may avoid use of bare parameters. 91a:81132
 - Cho, Hing Tong *see* Birmingham, Danny; et al., 91m:81157
 - Christe, P. (with Martins, Márcio José) Ultraviolet behavior of the integrable off-critical nonunitary series $M_{2/g}$. 91g:81094
 - Denner, A. *see* Kibbleck, J.; et al., 91f:81111
 - Deriglazov, A. A. (with Ketov, S. V.) One-loop renormalization of 4-dimensional σ -models taking into account generalized Skyrme and Wess-Zumino-Witten terms. 91c:81071
 - *see also* Ketov, S. V.; et al., 91j:81048
 - Dinekhman, M. (with Namsrai, Kh.) Ward identity for gauge field in stochastic quantization with nonlocal form factors. 91c:81072
 - Dorfmeister, G. Comparison of subtraction terms in two renormalization schemes. 91f:81110
 - Proof of the GLZ-equation for the adiabatic limit of axiomatically derived graphwise defined retarded distributions. 91j:81047
 - Elizalde, E. (with Romeo, A.) Heat-kernel approach to the zeta-function regularization of the Casimir energy for domains with curved boundaries. 91d:81076
 - Falceto, Fernando *see* Asorey, Manuel, 91m:81156
 - Fujiwara, Kunio Point to string transformation, or frame-dependent notion of "locality": an attempt to finitize field theories including gravitation. (Not in MR)
 - Gaite, J. A. The analytic renormalization setting for the string effective action. 91m:81158
 - González, J. Modular invariance of the partition function for the bosonic string in background fields. 91g:81095
 - Gribovsky, P. S. (with Holstein, B. R.) The zero momentum limit of the vacuum polarization at finite temperature. 91m:81159
 - Grigoryan, R. P. (with Tyutin, I. V.) Multiplicative renormalization of $N = 1$ supersymmetric Yang-Mills theories: the SU(2) group. 91m:81160
 - Heening, Peter A. On the treatment of initial correlations in quantum field theory of nonequilibrium states. 91m:81161
 - Holstein, B. R. *see* Gribovsky, P. S., 91m:81159
 - Huang, Kerson (with Polonyi, Janos) Renormalization of the sine-Gordon model and nonconservation of the kink current. (Not in MR)
 - Hurd, T. R. Soft breaking of gauge invariance in regularized quantum electrodynamics. 91h:81078
 - Iagolnitzer, D. Renormalized Bethe-Salpeter kernel and 2-particle structure in field theories. (French summary) 91a:81133
 - Jakubi, Alejandro S. *see* Chimento, Luis P., 91a:81132
 - Kakuto, Akira Note on the perturbative conformal bootstrap. 91d:81077
 - Kantowski, R. *see* Birmingham, Danny; et al., 91m:81157
 - Kassou-ou-ali, A. *see* Benhamou, M., 91j:81046
 - Ketov, S. V. (with Deriglazov, A. A.; Prager, Ya. S.) Three-loop β -function for the two-dimensional nonlinear σ -model with a Wess-Zumino-Witten term. 91j:81048
 - *see also* Deriglazov, A. A., 91c:81071
 - Klimenko, K. G. Gaussian effective potential method and Higgs sector of some models of grand unification. 91k:81108
 - Kibbleck, J. (with Böhm, Manfred; Denner, A.) FeynArts—computer-algebraic generation of Feynman graphs and amplitudes. 91f:81111
 - Lima Santos, A. (with Marino, E. C.) Supersymmetry breaking, Kosterlitz-Thouless transition and dimensional reduction in the supersymmetric sine-Gordon/Coulomb gas system. 91d:81078
 - Lüscher, Martin Charge screening and an upper bound on the renormalized charge in lattice QED. 91m:81162
 - Malokostov, A. M. *see* Zav'yalov, O. I., 91f:81113; 91m:81166 and 91m:81167

- Marino, E. C. *see* Lima Santos, A., 91d:81078
 - Martin, C. P. Dimensional regularisation of Chern-Simons field theory. 91d:81079
 - Martins, Márcio José A connection between integrable $Z(N)$ models and off-critical nonunitary theories. 91c:81063
 - *see also* Christe, P., 91g:81094
 - Mavromatos, N. E. (with Miramontes, J. Luis) Finite size scaling, Zamolodchikov's c theorem and the S -matrix. 91c:81064
 - Meissner, Krzysztof A. (with Pawelczyk, Jacek) Some perturbative results for two-dimensional gravity. 91d:81080
 - Mende, Paul F. (with Ooguri, Hiroshi) Borel summation of string theory for Planck scale scattering. 91h:81100
 - Miramontes, J. Luis *see* Mavromatos, N. E., 91c:81064
 - Morozov, A. Ya. (with Niemi, Antti J.) Renormalization of topological actions and anyonic superconductivity. 91d:81081
 - Namsrai, Kh. *see* Dinekhman, M., 91c:81072
 - Niemi, Antti J. *see* Morozov, A. Ya., 91d:81081
 - Ooguri, Hiroshi *see* Mende, Paul F., 91h:81100
 - Osborn, Hugh General bosonic σ models and string effective actions. 91k:81109
 - Pawelczyk, Jacek *see* Meissner, Krzysztof A., 91d:81080
 - Polonyi, Janos *see* Huang, Kerson, (Not in MR)
 - Prager, Ya. S. *see* Ketov, S. V.; et al., 91j:81048
 - Rakowski, Mark T. *see* Birmingham, Danny; et al., 91m:81157
 - Romeo, A. *see* Elizalde, E., 91d:81076
 - Rufa, G. Mathematical foundations of the dimensional method. (German summary) 91m:81163
 - Shabanov, S. V. ★ Nonperturbative Green functions in quantum gauge theories. (Not in MR)
 - Shifman, M. A. Four-dimension aspect of the perturbative renormalization in three-dimensional Chern-Simons theory. 91m:81164
 - Shirkov, D. V. Nonlocal renormalization "stopping" the running gauge. 91a:81134
 - Smirnov, Vladimir Aleksandrovich ★ Перенормировка в асимптотических разложениях фермионовских амплитуд. (Russian) [Renormalization and asymptotic expansions for Feynman amplitudes] 91m:81165
 - Tang, P. (with Wilets, L.) The linearized gauge field propagator in an inhomogeneous medium. 91f:81112
 - Thompson, George *see* Birmingham, Danny; et al., 91d:81075
 - Tretyak, V. I. Tensor fields and renormalization of mass in classical relativistic theory of direct interaction. (Russian) (Not in MR)
 - Tyutin, I. V. *see* Grigoryan, R. P., 91m:81160
 - Vasil'ev, A. N. On the combinatorics of the R -operation. 91a:81135
 - Vilkoviskii, G. A. *see* Barvinskii, A. O., 91g:81092 and 91g:81093
 - Węgrzyn, P. On the equivalence of different definitions of R -operation. 91d:81082
 - Wilets, L. *see* Tang, P., 91f:81112
 - Zav'yalov, O. I. ★ Renormalized quantum field theory. 91k:81110
 - (with Malokostov, A. M.) Universal regularizations. I. Prescriptions and the one-loop approximation. 91f:81113
 - (with Malokostov, A. M.) Universal regularizations. II. Gauge theories. 91m:81166
 - (with Malokostov, A. M.) Universal regularizations. III. Lagrangian symmetry and a "natural" ghost system in Yang-Mills theory. 91m:81167
- Items with secondary classifications in 81T15
- Abramov, Viktor Anatol'evich Geometry of BRST-formalism. 91d:81145
 - Aoki, Kenichiro (with D'Hoker, Eric; Phong, D. H.) Unitarity of closed superstring perturbation theory. 91j:81056
 - Arefeva, I. Ya. (with Medvedev, P. B.) Oscillator representation of picture-changing operators. 91a:81182
 - Balakrishnan, Janaki (with Biswas, S. N.; Goyal, Ashok; Soni, S. K.) Stochastic quantization of para-Fermi fields. 91f:81073
 - Banerjee, Narayan (with Mallik, S.) Density fluctuation in the de Sitter universe. (Not in MR)
 - Bellucci, Stefano (with González, J.) Superfield formulation of anti-de Sitter supersymmetry. 91a:81199
 - Biswas, S. N. *see* Balakrishnan, Janaki; et al., 91f:81073
 - Bondi, Alessandro (with Curci, Giuseppe; Paffuti, Giampiero; Rossi, Paolo) Metric and central charge in the perturbative approach to two-dimensional fermionic models. 91i:81068
 - Braden, Harry W. (with Corrigan, E.; Dorey, P. E.; Sasaki, Ryu) Extended field theory and exact S -matrices. 91h:81135
 - Bukhbinder, I. L. (with Shapiro, I. L.) On the renormalisation group equations in curved spacetime with torsion. 91c:81079
 - Camperi, Marcelo (with Levstein, Fernando; Zemba, Guillermo) The large N limit of Chern-Simons gauge theory. 91h:81087
 - Castagnino, Mario A. (with Domenech, Graciela; Noriega, Ricardo J.; Schifni, Claudio G.) On a general bosonic field theory. 91m:81126
 - Cognola, Guido (with Giacconi, Paola) Consistent anomalies in the presence of torsion. 91f:81199
 - Cohen, Eyal (with Kluberg-Stern, H.; Navelet, H.; Peschanski, R.) One-loop renormalization of the Polyakov string functional. (Not in MR)
 - Corrigan, E. *see* Braden, Harry W.; et al., 91h:81135
 - Cristofano, G. (with Maiella, G.; Musto, R.; Nicodemi, F.) Tadpole operator for minimal models on arbitrary genus Riemann surfaces. 91d:81121
 - Curci, Giuseppe *see* Bondi, Alessandro; et al., 91i:81068
 - Das, Sumit R. (with Dhar, Avinash; Wadia, Spenta R.) Critical behavior in two-dimensional quantum gravity and equations of motion of the string. 91c:81128
 - Delduc, F. (with Lucchesi, Claudio; Piguet, O.; Sorrella, S. P.) Exact scale invariance of the Chern-Simons theory in the Landau gauge. (Not in MR)
 - Dhar, Avinash *see* Das, Sumit R.; et al., 91c:81128
 - D'Hoker, Eric *see* Aoki, Kenichiro; et al., 91j:81056
 - Domenech, Graciela *see* Castagnino, Mario A.; et al., 91m:81126

- Dorey, N. (with Kenway, R. D.) The Schwinger-Dyson equation and dynamical mass generation in two-dimensional field theories. **91a:81235**
- Dorey, P. E. see Braden, Harry W.; et al., **91b:81135**
- Dullemond, C. see Filthaut, F., (Not in MR)
- Federbush, Paul A phase cell approach to Yang-Mills theory. V. Analysis of a chunk. **91g:81071**
- Feldman, Joel (with Trubowitz, Eugene) Perturbation theory for many fermion systems. **91b:81257**
- Filthaut, F. (with Dullemond, C.) Renormalizability of ϕ^4 theory in space-time of covering of anti-de Sitter type. (Not in MR)
- Ford, G. W. (with O'Connell, R. F.) Canonical commutator and mass renormalization. **91k:81211**
- Frutkin, E. S. (with Gitman, D. M.; Shvartsman, Sh. M.) Optical theorem in quantum electrodynamics with unstable vacuum. **91e:81120**
- Freedman, Daniel Z. (with Latorre, José I.; Vilasis, Xavier) Illustrating the spectral form of the c -theorem. **91m:81127**
- Frenkel, J. (with Taylor, John Clayton) High-temperature limit of thermal QCD. **91a:81227**
- García-Bellido, J. (with Quirós, M.) On the closed bosonic string effective action. **91f:81147**
- Giacconi, Paola see Cognola, Guido, **91f:81199**
- Gitman, D. M. see Frutkin, E. S.; et al., **91e:81120**
- González, J. see Bellacci, Stefano, **91a:81199**
- Goyal, Ashok see Balakrishnan, Janaki; et al., **91f:81073**
- Gracey, J. A. On the β -function for σ models with $N = 1$ supersymmetry. **91g:81118**
- Howe, P. S. (with West, Peter C.) $N = 2$ superconformal models, Landau-Ginsburg Hamiltonians and the ϵ expansion. **91c:81138**
- Ichinose, Shoichi Renormalization of Polyakov's two-dimensional quantum gravity. (Not in MR)
- Ivanov, S. V. Contour gauge conditions in nonabelian gauge theories. **91h:81093**
- Jarvis, P. D. Coset space dimensional reduction and gauge fixing over the supercircle. **91h:81067a**
- Erratum: "Coset space dimensional reduction and gauge fixing over the supercircle". **91h:81067b**
- Kalara, S. (with Lopez, Jorge L.; Nanopoulos, D. V.) Calculable nonrenormalizable terms in string theory: a guide for the practitioner. (Not in MR)
- Kenway, R. D. see Dorey, N., **91a:81235**
- Ketov, S. V. A new finite $N = 2$ supersymmetric sigma-model with higher derivatives in dimension four. **91h:81166**
- Kluberg-Stern, H. see Cohen, Eyal; et al., (Not in MR)
- Kraus, Elisabeth The β -functions of a general nonsymmetric model involving vector fields. (Not in MR)
- Kreimer, Dirk The γ_2 -problem and anomalies—a Clifford algebra approach. **91e:81100**
- Kreuzer, Maximilian Gauge theory of volume preserving diffeomorphisms. **91m:81299**
- Latorre, José I. see Freedman, Daniel Z.; et al., **91m:81127**
- Leutwyler, H. (with Malik, S.) Finite temperature scalar field theory in the early universe. (Not in MR)
- Levstein, Fernando see Camperi, Marcelo; et al., **91h:81087**
- Lopez, Jorge L. see Kalara, S.; et al., (Not in MR)
- Lacchesi, Claudio see Delduc, F.; et al., (Not in MR)
- Luckock, H. C. (with Moss, Ian) The quantum geometry of random surfaces and spinning membranes. **91f:81154**
- Maiella, G. see Cristofano, G.; et al., **91d:81121**
- Malik, S. see Leutwyler, H., (Not in MR) and Banerjee, Narayan, (Not in MR)
- Medvedev, P. B. see Arzheva, I. Ya., **91a:81182**
- Miković, A. R. Vanishing of the cosmological constant in the Green-Schwarz superstring theory. **91f:81155**
- Moss, Ian see Luckock, H. C., **91f:81154**
- Musto, R. see Cristofano, G.; et al., **91d:81121**
- Nanopoulos, D. V. see Kalara, S.; et al., (Not in MR)
- Navelet, H. see Cohen, Eyal; et al., (Not in MR)
- Nicodemi, F. see Cristofano, G.; et al., **91d:81121**
- Nicolò, Francesco (with Perfetti, Paolo) The sine-Gordon field theory model at $\alpha^2 = 8\pi$, the nonsuperrenormalizable theory. **91e:81054**
- Nielsen, N. K. Quantum equivalence of four-dimensional nonlinear σ -model and antisymmetric tensor model. **91a:81121**
- Noriega, Ricardo J. see Castagnino, Mario A.; et al., **91m:81126**
- Nykhänen, E. Nonrenormalization theorem in bosonized N string formalism. **91c:81112**
- O'Connell, R. F. see Ford, G. W., **91k:81211**
- Paffuti, Giampiero see Bondi, Alessandro; et al., **91i:81068**
- Perfetti, Paolo see Nicolò, Francesco, **91e:81054**
- Peschanski, R. see Cohen, Eyal; et al., (Not in MR)
- Phong, D. H. see Aoki, Kenichiro; et al., **91j:81056**
- Piguet, O. see Delduc, F.; et al., (Not in MR)
- Quirós, M. see García-Bellido, J., **91f:81147**
- Robertson, David G. Composite operator renormalization and the trace anomaly. (Not in MR)
- Roland, K. O. A comparison of the path-integral and the oscillator approach to covariant loop calculus. **91d:81112**
- Rossi, Paolo? see Bondi, Alessandro; et al., **91i:81068**
- Russo, Jorge G. (with Tseytlin, A. A.) Leading tadpole divergences in string partition function. **91h:81129**
- Saad, Maha On closed string counterterms. **91f:81159**
- Sakai, Kenji Fock state representation of Wilson's equation. **91k:81139**
- Sasaki, Ryu see Braden, Harry W.; et al., **91b:81135**
- Schiffini, Claudio G. see Castagnino, Mario A.; et al., **91m:81126**
- Shapiro, I. L. see Buchbinder, I. L., **91c:81079**
- Shvartsman, Sh. M. see Frutkin, E. S.; et al., **91e:81120**
- Soni, S. K. see Balakrishnan, Janaki; et al., **91f:81073**
- Sorella, S. P. see Delduc, F.; et al., (Not in MR)
- Spiridonov, V. P. (with Tkachov, F. V.) Two-loop contribution of massive and massless fields to the abelian Chern-Simons term. (Not in MR)
- Taylor, John Clayton see Frenkel, J., **91a:81227**
- Tkachov, F. V. see Spiridonov, V. P., (Not in MR)
- Trubowitz, Eugene see Feldman, Joel, **91b:81257**
- Tseytlin, A. A. see Russo, Jorge G., **91h:81129**
- Vilasis, Xavier see Freedman, Daniel Z.; et al., **91m:81127**
- Wadia, Spenta R. see Das, Sumit R.; et al., **91c:81128**
- West, Peter C. see Howe, P. S., **91c:81138**
- Zemba, Guillermo see Camperi, Marcelo; et al., **91h:81087**

81T16 Nonperturbative methods of renormalization

- Al-Sarhi, M. S. (with Jack, I.; Jones, D. R. T.) Quadratic divergences and dimensional regularisation in two and four dimensions. **91h:81101**
- Asorey, Manuel (with Falceto, Fernando) Geometric regularization of gauge theories. **91b:81079**
- Blasi, Alberto (with Maggiore, N.) BRS renormalization of nonlinear σ -models built on Kählerian homogeneous cosets. (Italian and Russian summaries) **91a:81136**
- Brevik, I. (with Nielsen, Holger Bech) Casimir energy for a piecewise uniform string. **91b:81080**
- Dohm, V. see Schloms, R., **91d:81084**
- Elizalde, E. On the zeta-function regularization of a two-dimensional series of Epstein-Hurwitz type. **91a:81137**
- Esprisa, D. (with Mavromatos, N. E.) On the c -theorem in higher genus. **91c:81073**
- Falceto, Fernando see Asorey, Manuel, **91b:81079**
- Gracey, J. A. On the renormalisation of the three-dimensional $O(N)$ σ model. **91a:81138**
- Jack, I. see Al-Sarhi, M. S.; et al., **91h:81101**
- Jaffe, Arthur M. (with Lesniewski, Andrzej; Wiczerkowski, Christian) Heat kernel regularization of quantum fields. **91d:81083**
- Jones, D. R. T. see Al-Sarhi, M. S.; et al., **91h:81101**
- Kleinert, H. Solution of Dyson equation for elastic membranes. **91i:81049**
- Kraus, Elisabeth How abelian BRS-symmetry emerges in noninvariant surroundings. (Not in MR)
- Lesniewski, Andrzej see Jaffe, Arthur M.; et al., **91d:81083**
- Lohiya, Daksh Common analytic basis of the ζ -function and the dimensional regularization schemes. **91c:81065**
- Maggiore, N. see Blasi, Alberto, **91a:81136**
- Mavromatos, N. E. see Esprisa, D., **91c:81073**
- McKeon, D. G. C. Operator regularization in Chern-Simons theory. (French summary) (Not in MR)
- Nielsen, Holger Bech see Brevik, I., **91b:81080**
- Picken, R. F. (with Webb, J. N.) Derivation of anomalies using the Itô stochastic calculus. **91a:81139**
- Schloms, R. (with Dohm, V.) Minimal renormalization without ϵ -expansion: critical behavior in three dimensions. **91d:81084**
- Webb, J. N. see Picken, R. F., **91a:81139**
- Wiczerkowski, Christian see Jaffe, Arthur M.; et al., **91d:81083**
- Items with secondary classifications in 81T16
- Aldrovandi, Ettore (with Dohrn, Daniela; Guerra, Francesco) Stochastic action of dynamical systems on curved manifolds. The geodesic interpolation. **91b:81055**
- Allen, Theodore J. (with Bowick, Mark J.; Lahiri, Amitabha) Topological mass generation in $3+1$ dimensions. **91m:81133**
- Banks, Thomas (with Douglas, Michael R.; Seiberg, Nathan; Shenker, Stephen H.) Microscopic and macroscopic loops in nonperturbative two-dimensional gravity. **91c:81123**
- Birmingham, Danny (with Rakowski, Mark T.) The β -function in topological sigma models. **91f:81074**
- Blasi, Alberto (with Collina, R.) Finiteness of the Chern-Simons model in perturbation theory. (Not in MR)
- Bowick, Mark J. see Allen, Theodore J.; et al., **91m:81133**
- Collina, R. see Blasi, Alberto, (Not in MR)
- Demeterfi, Kresimir (with Tan, Chung I) String equations from unitary matrix models. **91k:81117**
- Dohrn, Daniela see Aldrovandi, Ettore; et al., **91b:81055**
- Douglas, Michael R. see Banks, Thomas; et al., **91c:81123**
- Elizalde, E. (with Romeo, A.) Regularization of general multidimensional Epstein zeta-functions. **91g:81097**
- Eynik, Gregory Quantum field-theory models on fractal spacetime. I. Introduction and overview. **91c:81050**
- Quantum field-theory models on fractal spacetime. II. Hierarchical propagators. **91c:81051**
- Gross, David J. (with Miljković, Nikola) A nonperturbative solution of $D = 1$ string theory. **91d:81102**
- Guerra, Francesco see Aldrovandi, Ettore; et al., **91b:81055**
- Haba, Zdzisław Functional integration, Ward identities and the WZW current algebra. **91c:81061**
- Hurst, C. A. (with Lohse, M. A.) Regularization of the Mandelstam soliton operator. **91i:81043**
- Klassen, Timothy R. (with Meizer, Ezer) Purely elastic scattering theories and their ultraviolet limits. **91g:81141**
- Kraus, Elisabeth (with Sibold, Klaus) Yang-Mills theories in a nonlinear gauge: quantization and gauge independence. **91d:81066**
- Kutasov, David (with Seiberg, Nathan) Noncritical superstrings. **91j:81081**
- Lahiri, Amitabha see Allen, Theodore J.; et al., **91m:81133**
- Leblanc, M. (with Mann, Robert B.; McKeon, D. G. C.; Sherry, T. N.) The finite effective action in the nonlinear sigma model with torsion to two-loop order. (Not in MR)
- Lee, Chang-Yeong (with Ne'eman, Yuval) Renormalization of gauge-affine gravity. **91d:81065**

- Lohe, M. A. *see* Hurst, C. A., 91f:81043
 Mann, Robert B. *see* Leblanc, M.; et al., (Not in MR)
 McKeon, D. G. C. *see* Leblanc, M.; et al., (Not in MR)
 Melzer, Ezer *see* Klassen, Timothy R., 91g:81141
 Miljković, Nikola *see* Gross, David J., 91d:81102
 Ne'eman, Yuval *see* Lee, Chang-Yeong, 91d:83065
 Rakowski, Mark T. *see* Birmingham, Danny, 91j:81074
 Romeo, A. *see* Elizalde, E., 91g:11097
 Seiberg, Nathan *see* Banks, Thomas; et al., 91c:81123 and Kutasov, David, 91j:81081
 Shenker, Stephen H. *see* Banks, Thomas; et al., 91c:81123
 Sherry, T. N. *see* Leblanc, M.; et al., (Not in MR)
 Sibold, Klaus *see* Kraus, Elisabeth, 91d:81066
 Tan, Chung I *see* Demeterfi, Kresimir, 91k:81117

81T17 Renormalization group methods

- Battle, Guy Phase space localization theorem for ondelettes. 91a:81140
 Bratichkov, A. V. Two-dimensional chiral models with infinite-dimensional symmetry algebras. 91c:81066
 Buhkinder, I. L. (with Odintsov, S. D.; Shapiro, I. L.) Renormalization group approach to quantum field theory in curved space-time. 91c:81067
 Das, Sumit R. (with Mandal, Gautam; Wadia, Spenta R.) Stochastic differential equations on two-dimensional theory space and Morse theory. 91a:81141
 Ellwanger, U. Exact renormalization group and string loop corrections for the NSR superstring. 91f:81114
 Felder, Giovanni ★ Renormalization group, tree expansion, and nonrenormalizable quantum field theories. 91f:81115
 Howe, P. S. (with West, Peter C.) Multicritical points in two dimensions, the renormalization group and the ϵ expansion. 91c:81074
 Ito, Kei Trajectories of renormalization group flows on the phase diagram of $N = 2$ superconformal field theories. 91d:81085
 Kastor, David (with Martinez, Emil J.; Shenker, Stephen H.) RG flow in $N = 1$ discrete series. 91a:81142
 Lässig, Michael Geometry of the renormalization group with an application in two dimensions. 91k:81111
 Liu, Jun² Superconformal RG equation and the superstring theory. 91h:81102
 Mandal, Gautam *see* Das, Sumit R.; et al., 91a:81141
 Martinez, Emil J. *see* Kastor, David; et al., 91a:81142
 Marzban, Caren Remarks on the Landau-Ginzburg potential and RG flow for $SU(2)$ -coset models. 91d:81086
 Odintsov, S. D. *see* Buhkinder, I. L.; et al., 91c:81067
 Oehme, Reinhard Renormalization group, BRST cohomology, and the problem of confinement. 91m:81168
 Osborn, Hugh Derivation of a four-dimensional c-theorem for renormalisable quantum field theories. 91c:81075
 Parisi, Giorgio ★ Statistical field theory. 91f:81116
 (Pines, David) *see* Parisi, Giorgio, 91f:81116
 Russo, Jorge G. (with Tseytlin, A. A.) Renormalization of multiple infinities and the renormalization group in string loops. 91f:81117
 Sabra, Wafic A. (with Thomas, Steven) Perturbation in induced two-dimensional quantum gravity. 91b:81081
 Sakai, Kenji Handle operator and quantum string equation from Wilson's renormalization group. 91c:81076
 Schimmrigk, Rolf Heterotic RG flow fixed points with nondiagonal affine invariants. 91h:81082
 Shapiro, I. L. *see* Buhkinder, I. L.; et al., 91c:81067
 Shenker, Stephen H. *see* Kastor, David; et al., 91a:81142
 Shiekh, A. Y. Zeta-function regularization of quantum field theory. (French summary) 91f:81118
 Thomas, Steven *see* Sabra, Wafic A., 91b:81081
 Tseytlin, A. A. Renormalization group and string loops. 91f:81119
 — On the structure of the renormalisation group beta functions in a class of 2D models. 91g:81096a
 — Errata: "On the structure of the renormalisation group beta functions in a class of 2D models". 91g:81096b
 — *see also* Russo, Jorge G., 91f:81117
 Vayonakis, C. E. Constraints on higher Kac-Moody level standard-like models from renormalization group equations. 91m:81169
 Wadia, Spenta R. *see* Das, Sumit R.; et al., 91a:81141
 West, Peter C. *see* Howe, P. S., 91c:81074

Items with secondary classifications in 81T17

- Castorina, P. (with Consoli, M.) Asymptotic freedom of massless $\lambda\Phi^4$ theories. 91i:81042
 Consoli, M. *see* Castorina, P., 91i:81042
 Crnković, Čedomir (with Pannon, Roman; Sotkov, G. M.; Stanishkov, M.) Fusions of conformal models. 91f:81173
 Dimock, J. The Kosterlitz-Thouless phase in a hierarchical model. 91f:81088
 Gava, Edil (with Stanishkov, M.) On the renormalization group flow in $N = 2$ superconformal models. (Not in MR)
 Howe, P. S. (with West, Peter C.) Fixed points in multi-field Landau-Ginzburg models. 91f:81134
 — (with Lindström, U.; White, P.) Anomalies and renormalisation in the BRST-BV framework. 91h:81174
 (Kanie, Y.) *see* Zamolodchikov, Aleksandr B., 91m:81276
 Kawai, Hikaru (with Ninomiya, Masao) Renormalization group and quantum gravity. 91c:83055
 Leaf-Herrmann, W. A. Perturbation theory near $N = 2$ superconformal fixed points in two-dimensional field theory. (Not in MR)
 Lindström, U. *see* Howe, P. S.; et al., 91h:81174
 Martin, Paul P. String-like lattice models and Hecke algebras. 91g:82017

- Ninomiya, Masao *see* Kawai, Hikaru, 91c:83055
 Pannon, Roman *see* Crnković, Čedomir; et al., 91f:81173
 Sotkov, G. M. *see* Crnković, Čedomir; et al., 91f:81173
 Stanishkov, M. *see* Crnković, Čedomir; et al., 91f:81173 and Gava, Edil, (Not in MR)
 West, Peter C. *see* Howe, P. S., 91c:81134
 White, P. *see* Howe, P. S.; et al., 91h:81174
 Zamolodchikov, Aleksandr B. Exact solutions of conformal field theory in two dimensions and critical phenomena. 91m:81276
 — Two-point correlation function in scaling Lee-Yang model. (Not in MR)

81T18 Feynman diagrams

- Wetterich, C. Average action and the renormalization group equations. (Not in MR)

Items with secondary classifications in 81T18

- Battle, Guy Ondelettes: The spinor QED₂ connection. 91m:81124
 Henning, Peter A. On the treatment of initial correlations in quantum field theory of nonequilibrium states. 91m:81161
 Hua, Long (with Kaku, Michio) Shapiro-Virasoro amplitude and string field theory. 91m:81204
 Kaku, Michio Nonpolynomial closed-string field theory. 91m:81208
 — *see also* Hua, Long, 91m:81204
 Smirnov, Vladimir Aleksandrovich² ★ Перенормировка и асимптотические разложения фермиановских амплитуд. (Russian) [Renormalization and asymptotic expansions for Feynman amplitudes] 91m:81165
 Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 91h:81001

81T20 Quantum field theory on curved space backgrounds

- Actor, Alfred Topological generation of gauge field mass by toroidal spacetime. 91c:81068
 — Topological symmetry breaking in ϕ^4 theories on toroidal spacetime. 91f:81120
 Argyres, E. N. (with Papadopoulos, C. G.; Papantonopoulos, E.; Tamvakis, K.) Quantum dynamical aspects of two-dimensional spaces of constant negative curvature. 91a:81143
 Balachandran, A. P. (with Jo, S.-G.; Srivastava, A. M.) What becomes of the vacuum angle in generally covariant gauge theories and the vielbein approach to gravity. 91b:81083
 Banerjee, Narayan (with Malik, S.) Density fluctuation in the de Sitter universe. (Not in MR)
 Banerjee, Rabin (with Chatterjee, D.) Chern-Simons term in curved space-time. 91c:81077
 Barroso, Augusto *see* Moniz, P.; et al., 91c:81088
 Barvinskii, A. O. (with Vilkoviskii, G. A.) Effective equations for expectation values. 91c:81078
 Bengtsson, Anders K. H. BRST quantization in anti-de Sitter space and gauge fields. 91a:81144
 Bertrand, Christine (with Kerner, Richard) Geometrical construction of a generalized Skyrme Lagrangian. 91a:81145
 Beyer, Horst (with Nitsch, Jürgen) A note on a Casimir effect in a uniformly accelerated reference frame. 91d:81087
 Bollé, D. (with Dupont, Patrick Jean) Stochastic identities on manifolds. 91b:81084
 Borghain, P. *see* Krüger, K. D.; et al., 91a:81150
 Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann-Cartan spaces. II. 91f:81121
 Buhkinder, I. L. (with Shapiro, I. L.) On the renormalisation group equations in curved spacetime with torsion. 91c:81079
 — (with Shapiro, I. L.; Yagunov, E. G.) Asymptotic conformal invariance of $SU(N)$ models of quantum field theory in curved space-time. 91c:81080
 — (with Gitman, D. M.; Fradkin, E. S.) Quantum electrodynamics in curved space-time. (Russian) 91j:81049
 Bytsenko, A. A. (with Kütör, S. A.) Temperature induced Casimir effect in Kaluza-Klein supersymmetric theories compactified on torus. 91f:81122
 Cai, Y. Q. (with Papini, G.) The effect of space-time curvature on Hilbert space. 91a:81146
 Chatterjee, D. *see* Banerjee, Rabin, 91c:81077
 Coker, W. J. (with Lloyd-Hart, Michael) Fermion wave-mechanical operators in curved space-time. 91f:81123
 Crawford, P. *see* Moniz, P.; et al., 91c:81088
 Das, Dipali *see* Krüger, K. D.; et al., 91a:81150
 Delmichev, A. P. (with Iofa, M. Z.) One-dimensional gravitation on a closed manifold. 91b:81085
 DeWitt, Bryce S. *see* DeWitt-Morette, Cécile, 91f:81050
 DeWitt-Morette, Cécile (with DeWitt, Bryce S.) Pin groups in physics. 91f:81050
 Dowker, J. S. (with Schofield, J. P.) Chemical potentials in curved space. 91f:81124
 — (with Schofield, J. P.) Conformal transformations and the effective action in the presence of boundaries. 91c:81081
 Dullemond, C. *see* Filthaut, F., (Not in MR)
 Dupont, Patrick Jean *see* Bollé, D., 91b:81084
 Elitzur, Shmuel (with Malkin, N.) Fermionic Klein bottle. 91j:81050
 Ershov, A. A. *see* Gal'tsov, D. V., 91b:81086
 Eskin, Alex (with Ye, Chang-Yuan) Parafermion correlation functions on Riemann surfaces. 91c:81082
 Filthaut, F. (with Dullemond, C.) Renormalizability of ϕ^4 theory in space-time of covering of anti-de Sitter type. (Not in MR)
 Fradkin, E. S. (with Metsaev, R. R.) Quantum R-matrix in the relativistic string model in a space of constant curvature. 91j:81051
 — (with Linetski, V. Ya.) Conformally invariant higher spin field theories. 91f:81125
 — *see also* Buhkinder, I. L.; et al., 91j:81049
 Freedman, Daniel Z. (with Pilch, Krzysztof) Thirring model on a Riemann surface. 91a:81147
 Frolov, V. P. *see* Ginzburg, V. L., 91g:81098
 Galina, A. B. ★ Квантовые частицы в полях Эйнштейна-Максвелла. (Russian) [Quantum particles in Einstein-Maxwell fields] 91a:81148
 Gal'tsov, D. V. (with Ershov, A. A.) Nonabelian baldness of colored black holes. 91b:81086

- Gazeau, Jean-Pierre (with Hans, Michel; Morenzi, Romain) Invariant bilinear forms on $3+2$ de Sitter space. **91b:81087**
- Gee, David L. (with Morris, Tim R.) From first to second quantized string theory. II. The dilaton and other fields. **91g:81097a**
- (with Morris, Tim R.) From first to second quantized string theory. III. Gauge fixing and quantization. **91g:81097b**
- Ginsburg, V. L. (with Frolov, V. P.) A vacuum in a homogeneous gravitational field and excitation of a uniformly accelerated detector. (Russian) **91g:81098**
- Gitman, D. M. see Bukhbinder, I. L.; et al., **91j:81049**
- Grove, Peter G. Observations on particle creation by static gravitational fields. **91e:81126**
- Gunzig, Edgar (with Nardone, Pascal; Van den Bergh, Norbert) Self-interacting scalar fields on a conformally flat background. **91b:81088**
- Gusynin, V. P. (with Kushnir, V. A.) Expansion of the one-loop effective action in powers of derivatives in curved space. **91f:81127**
- Hacyan, S. Quantization of the Dirac field in de Sitter space. (Spanish summary) **91a:81149**
- Hans, Michel see Gazeau, Jean-Pierre; et al., **91b:81087**
- Hill, C. T. see Reuter, M., **91f:81129**
- Hiscock, William A. Semiclassical gravitational effects around global monopoles. **91k:81112**
- Homma, Takahiro (with Inamoto, Tadashi; Miyazaki, Tadashi) Schrödinger equation for the nonrelativistic particle constrained on a hypersurface in a curved space. **91j:81052**
- Horváthy, Peter A. Bogomolny-type equations in curved space. **91c:81083**
- Inamoto, Tadashi see Homma, Takahiro; et al., **91j:81052**
- Iofa, M. Z. see Dümichev, A. P., **91b:81085**
- Ishibashi, Nobuyuki see Onogi, Tetsuya, **91b:81090a** and **91b:81090b**
- Isler, K. (with Schmid, Christoph H.; Trugenberger, Carlo A.) Normal-ordering prescription for the energy-momentum tensor of $(1+1)$ -dimensional fermions in curved space-times. **91m:81170**
- Iyer, Balasubramanian Ramakrishna Quantum field theory in black hole spacetimes. **91k:81084**
- Jo, S.-G. see Balachandran, A. P.; et al., **91b:81083**
- Kar, P. see Krüger, K. D.; et al., **91a:81150**
- Katanaev, M. O. (with Volovich, I. V.) Two-dimensional gravity with dynamical torsion and strings. **91c:81085**
- Katz, Mikhail see Matras, D. R., **91b:81089**
- Kay, Bernard S. (with Wald, Robert M.) Some recent developments related to the Hawking effect. **91c:81086**
- Korinover, G. A. Lobachevskian Dirac fields. **91c:81087**
- Korner, Richard see Bertrand, Christine, **91a:81145**
- Kovalyov, Mikhail (with Légaré, M.) The Dirac equation in Robertson-Walker spaces: a class of solutions. **91g:81099**
- Kröner, K. D. (with Borghain, P.; Kar, P.; Das, Dipali) Spinor solution in a Kasner universe. **91a:81150**
- Kütsov, S. A. see Bytsenko, A. A., **91f:81122**
- Kushnir, V. A. see Gusynin, V. P., **91f:81127**
- Légaré, M. see Kovalyov, Mikhail, **91g:81099**
- Lewyler, H. (with Malik, S.) Finite temperature scalar field theory in the early universe. (Not in MR)
- Linetski, V. Ya. see Fradkin, E. S., **91f:81125**
- Lloyd-Hart, Michael see Cocks, W. J., **91f:81123**
- Lüders, Christian (with Roberts, John E.) Local quasiequivalence and adiabatic vacuum states. **91j:81053**
- Lyakhovskii, V. D. see Vasilievich, D. V.; et al., **91g:81101**
- Malkin, N. see Elitzur, Shmuel, **91j:81050**
- Malik, S. see Lewyler, H. (Not in MR) and Banerjee, Narayan, (Not in MR)
- Marquard, U. see de Wit, B.; et al., **91c:81089**
- Matras, D. R. (with Katz, Mikhail) The Wu and Yang monopole solution in curved spacetime. **91b:81089**
- McGuigan, Michael Constrained partition functions and the antisymmetric tensor field. **91j:81054**
- McLachlan, A. Flux-breaking in space-times with toroidal compactification. **91b:81051**
- Metsaev, R. R. see Fradkin, E. S., **91j:81051**
- Miyazaki, Tadashi see Homma, Takahiro; et al., **91j:81052**
- Moniz, P. (with Crawford, P.; Barroso, Augusto) Spontaneous symmetry breaking in curved spacetime. **91c:81088**
- Morris, Tim R. see Gee, David L., **91g:81097a** and **91g:81097b**
- Morenzi, Romain see Gazeau, Jean-Pierre; et al., **91b:81087**
- Nardone, Pascal see Gunzig, Edgar; et al., **91b:81088**
- Nelson, J. E. (with Regge, Tullio E.; Zertuche, F.) Homotopy groups and $(2+1)$ -dimensional quantum de Sitter gravity. **91m:81171**
- Nicolai, H. see de Wit, B.; et al., **91c:81089**
- Nitsch, Jürgen see Beyer, Horst, **91d:81087**
- Odintsov, S. D. (with Shil'nov, Yu. I.) Schwinger-Dyson equations and effective potential for composite fields in quantum electrodynamics in curved spacetime. **91a:81151**
- Onogi, Tetsuya (with Ishibashi, Nobuyuki) Conformal field theories on surfaces with boundaries and crosscaps. **91b:81090a**
- (with Ishibashi, Nobuyuki) Erratum: "Conformal field theories on surfaces with boundaries and crosscaps". **91b:81090b**
- Padmanabhan, T. Physical interpretation of quantum field theory in noninertial coordinate systems. **91b:81091**
- Panchapakesan, N. Quantum field theory in curved space time. **91f:81128**
- Papadopoulos, C. G. see Argyres, E. N.; et al., **91a:81143**
- Papanicolaou, E. see Argyres, E. N.; et al., **91a:81143**
- Papini, G. see Cai, Y. Q., **91a:81146**
- Pilch, Krzysztof see Freedman, Daniel Z., **91a:81147**
- Pohle, Hans-Jürgen Triviality of $1\phi^4$ theory in $3+1$ -dimensional spatially flat Robertson-Walker space in Gaussian approximation. **91b:81103**
- Polarski, David Massive scalar field on the static de Sitter space. **91a:81152**
- Popova, A. D. Nonlinear quantum mechanics with nonclassical gravitational self-interaction. **91a:81153**
- Quantum mechanics with higher time derivatives: some mathematical facts and the inclusion of gravitational self-interaction. **91m:81172**
- Regge, Tullio E. see Nelson, J. E.; et al., **91m:81172**
- Reuter, M. (with Hill, C. T.) Moving mirrors in Schrödinger picture. **91f:81129**
- Rey, Soo-Jong Space-time wormholes with Yang-Mills fields. **91f:81130**
- Roberts, John E. see Lüders, Christian, **91j:81053**
- Schmid, Christoph H. see Isler, K.; et al., **91m:81170**
- Schofield, J. P. see Dowker, J. S., **91c:81081** and **91f:81124**
- Semikhatov, A. M. On the toroidal compactifications of bosonic strings in higher genus. **91b:81092**
- Sewing $\beta\gamma$ theories on Riemann surfaces in the global operator formalism. **91g:81100**
- Sen, Diptiman Extended supersymmetry in the space-time $R \times S^3$. **91d:81088**
- Shapiro, I. L. see Bukhbinder, I. L., **91c:81079** and **91c:81080**
- Shil'nov, Yu. I. see Odintsov, S. D., **91a:81151**
- Shytov, N. N. see Vasilievich, D. V.; et al., **91g:81101**
- Srivastava, A. M. see Balachandran, A. P.; et al., **91b:81083**
- Tadaki, Shin Ichi (with Takagi, Shin) Quantum field theory in two-dimensional Schwarzschild-de Sitter spacetime. I. Empty space. **91b:81104**
- (with Takagi, Shin) Quantum field theory in two-dimensional Schwarzschild-de Sitter spacetime. II. Space with a collapsing star. **91b:81105**
- Takagi, Shin see Tadaki, Shin Ichi, **91b:81104** and **91b:81105**
- Tamvakis, K. see Argyres, E. N.; et al., **91a:81143**
- Trugenberger, Carlo A. see Isler, K.; et al., **91m:81170**
- Tuyn, Michael The graviton propagator in maximally symmetric spaces. **91k:81113**
- Van den Bergh, Norbert see Gunzig, Edgar; et al., **91b:81088**
- Vasiliev, M. A. Dynamics of massless higher spins in the second order in curvatures. **91f:81131**
- Vasilievich, D. V. (with Lyakhovskii, V. D.; Shytov, N. N.) DeWitt-Schwinger coefficients for projective and Grassmann manifolds. **91g:81101**
- Verlinde, Y. Yang-Mills instantons in closed Friedmann universes. **91d:81089**
- Gravitational suppression of vacuum tunnelling in Yang-Mills theories. **91b:81093**
- Vilkoviskii, G. A. see Barvinskii, A. O., **91c:81078**
- Volovich, I. V. see Katanaev, M. O., **91c:81085**
- Wald, Robert M. see Kay, Bernard S., **91c:81086**
- de Wit, B. (with Marquard, U.; Nicolai, H.) Area-preserving diffeomorphisms and supermembrane Lorentz invariance. **91c:81089**
- Yagunov, E. G. see Bukhbinder, I. L.; et al., **91c:81080**
- Ye, Chang-Yuan see Ekin, Alex, **91c:81082**
- Zaikov, R. P. Generalized self-dual bosonic p -branes and instanton-like solutions. **91g:81102**
- Zertuche, F. see Nelson, J. E.; et al., **91m:81172**

Items with secondary classifications in 81T20

- del Aguila, F. (with Coughlan, G. D.; da Mota, L. A. C. P.) The role of gauge singlets in three-generation models. **91b:81193**
- Ahmed, Mainuddin (with Ansary, Abdullah) Matter fields in the Plebanski-Demiański space-time. **91b:83036**
- Alves, M. S. (with Barcelos-Neto, J.) Path integrals and the trace anomaly in a self-interacting scalar theory. **91b:81140**
- (with Barcelos-Neto, J.) Trace anomaly in a theory with bosons and fermions. **91b:81138**
- Anderson, Paul R. (with Hiscock, William A.; Holman, R.) Quantum effects of domain-wall formation in the early Universe. **91d:83128**
- Annibaldi, Davide (with Mangiarotti, Luigi) Invariant Lagrangians and operators. **91g:58064a**
- Ansary, Abdullah see Ahmed, Mainuddin, **91b:83036**
- Anisime, Michel (with Comtet, Alain; Ouyri, Stéphane) Scattering on a hyperbolic torus in a constant magnetic field. **91m:81316**
- Aoyama, S. (with Julve, J.) Composition formula for 2D effective supergravity. **91b:81133**
- Aramidi, I. G. The covariant technique for the calculation of the heat kernel asymptotic expansion. **91f:58092**
- Balog, J. (with O'Riartaigh, L.; Forgács, P.; Wipf, A.) Consistency of string propagation on curved spacetimes. An $SU(1,1)$ based counterexample. **91g:81108**
- Bang, Henrik Peter see Wirzba, A., **91c:81119**
- Barcelos-Neto, J. see Alves, M. S., **91b:81140** and **91b:81138**
- Barr, Itzhak (with Nemeschansky, Dennis) String propagation in backgrounds with curved space-time. **91k:81121**
- Batakis, Nikolaos A. (with Kehagias, Alexandros A.) Generic $SU(2)$ multidimensional sigma-model vacuum. **91a:83071**
- Bellucci, Stefano (with González, J.) Superfield formulation of anti-de Sitter supersymmetry. **91a:81199**
- Berezin, V. A. (with Kuzmin, V. A.; Tkachev, I. L.) $O(3)$ -invariant processes at false vacuum decay in general relativity. **91m:83042**
- On a quantum mechanical model of a black hole. **91k:83056**
- Bergshoeff, E. A. (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang; Stelle, K. S.) w_∞ gravity. **91m:81231**
- Bian, Matthias On the representation independence of topological effects in quantum field theory. **91b:81053**
- Borghain, P. see Krüger, K. D.; et al., **91a:81150**
- Bryant, Peter R. Graded Riemann surfaces and Krichever-Novikov algebras. **91f:17027**
- Bukhbinder, I. L. (with Odintsov, S. D.; Shapiro, I. L.) Renormalization group approach to quantum field theory in curved space-time. **91c:81067**
- (with Odintsov, S. D.; Fonarev, O. A.) Two-loop effective action in quantum gravity. **91k:83023**
- Byrnes, Graham B. Complex manifolds and geometrical quantisation. **91b:58048**
- Cai, Eduardo R. (with Feoli, A.; Gasperini, M.; Scarpetta, G.) Quantum corrections to the spacetime metric from geometric phase space quantization. **91e:81047**
- Castagnino, Mario A. (with Strzajman, Jorge B.) Electromagnetic vacuum for irrotational observers in general foliable spacetimes. **91k:83048**
- Chamseddine, A. H. Topological gauge theory of gravity in five and all odd dimensions. **91d:81063**

- Chimento, Luis P. Exact solutions of the Einstein equations including quantum effects and cosmological constant. 91d:83069
- Chmielewski, Piotr Wave functions on a minisuperspace of higher-dimensional geometries. 91d:83059
- Choquet-Bruhat, Yvonne High frequency waves for stringy gravity. 91d:83117
- Cognola, Guido (with Giacconi, Paola; Soldati, Roberto) Effective actions with vector-axial-vector couplings on Riemann-Cartan manifolds. 91k:81183
- Comtet, Alain see Antoine, Michel; et al., 91m:81316
- Coughlan, G. D. see del Aguila, F.; et al., 91m:81193
- Das, Dipali see Krori, K. D.; et al., 91g:83042
- Di Francesco, P. see Saleur, Hubert, 91b:81136
- Doehner, H.-D. (with Heidenreich, Wolfgang) Indecomposable representations in de Sitter spacetime. 91m:81077
- Dowker, H. F. Electromagnetic wormhole vertex. 91e:83053
- Dowker, J. S. (with Jermyn, I. H.) Self-consistent compactification on products of spheres. 91j:83060
- Duff, M. J. (with Stelle, K. S.) Multi-membrane solutions of $D = 11$ supergravity. 91j:83074
- Elizalde, E. On the solutions of quantum field equations in curved space-time. 91k:83049
- Feoli, A. see Calanelli, Eduardo R.; et al., 91e:81047
- Flato, M. (with Fronsdal, C.) Composite electrodynamics. 91i:81105
- Floresciani, Roberto (with Percacci, R.) Topological pregeometry. 91k:81214
- Fonarev, O. A. see Bukhbinder, I. L.; et al., 91i:83023
- Forgács, P. see Balog, J.; et al., 91g:81108
- Frolov, V. P. (with Thorne, Kip S.) Equivalence principle in the quantum domain and quantum effects near a black hole. 91f:83039
- (with Thorne, Kip S.) Renormalized stress-energy tensor near the horizon of a slowly evolving, rotating black hole. 91k:83054
- Fronsdal, C. see Flato, M., 91i:81105
- Fulling, Stephen A. ★ Aspects of quantum field theory in curved space-time. 91h:81002
- Gasperini, M. see Calanelli, Eduardo R.; et al., 91e:81047
- Gerasimov, A. A. Degenerate conformal theories on higher-genus surfaces. 91k:81162
- Giacconi, Paola see Cognola, Guido; et al., 91i:81183
- Giacchetta, Giovanni (with Mangiarotti, Luigi) Covariant operators in gauge field theories. 91g:83064b
- González, J. see Bellucci, Stefano, 91a:81199
- Haba, Zbigniew Generating functional for WZW and related currents. 91d:81128
- Harari, Diego (with Polychronakos, Alexios P.) A global string with an event horizon. 91a:83054
- Hayashi, Nobuharu String field equation in curved spacetime from Weyl invariance. 91i:83088
- Heidenreich, Wolfgang (with Lorente, Miguel) Bargmann-Wigner equations in de Sitter space. 91e:81038
- see also Doehner, H.-D., 91m:81077
- Hiscock, William A. see Anderson, Paul R.; et al., 91d:83128
- Holman, R. see Anderson, Paul R.; et al., 91d:83128
- van Holten, J. W. see Rietdijk, R. H., 91b:81188
- Horowitz, Gary T. Exactly soluble diffeomorphism invariant theories. 91h:83090
- Hortacsu, M. Quantum fluctuations in the field of an impulsive spherical gravitational wave. 91f:83040
- Hosoya, Akio (with Soda, Jiro) Abelian gauge theory in topologically nontrivial space. 91k:81096
- Iagolnitzer, D. (with Iagolnitzer, L.) Nonholonomicity of the S matrix and Green functions in quantum field theory: a direct algebraic proof in some simple situations. 91g:81161
- Iagolnitzer, L. see Iagolnitzer, D., 91g:81161
- Jermyn, I. H. see Dowker, J. S., 91j:83060
- Jezierski, Jacek (with Kijowski, Jerzy) On the local canonical formalism in gauge field theories. 91f:81098
- Joshi, P. S. Conformal quantisation in singular spacetimes. (see 91k:83003)
- Juvel, J. see Aoyama, S., 91h:81133
- Kaminaga, Yasuhiro A dynamical model of an evaporating charged black hole and quantum instability of Cauchy horizons. 91e:83068
- Kanno, Hiroaki (with Myung, Y. S.) Torsion constraints of $(2, 0)$ supergravity and line integrals on $N = 2$ super Riemann surfaces. 91f:81189
- Kawai, Toshiharu (with Toma, Naoki) Singularities of "Schwarzschild-like" space-time in new general relativity. 91a:83065
- Kehagias, Alexandros A. see Batakis, Nikolaos A., 91a:83071
- Kerbrat, Yvan (with Kerbrat-Lunc, H.; Śniatycki, Jędrzej) How to get masses from Kaluza-Klein theory. 91b:83086
- Kerbrat-Lunc, H. see Kerbrat, Yvan; et al., 91b:83086
- Ketov, S. V. On the topological value of anomalies in Kaluza-Klein field theories. 91a:83081
- (with Kuzenko, S. M.; Solov'ev, O. A.) Covariant calculation of the heterotic string effective action in a curved $(1, 0)$ superspace. 91m:81209
- Kijowski, Jerzy see Jezierski, Jacek, 91f:81098
- Kirsten, Klaus High-temperature expansion in the adiabatic approximation. 91h:83054
- Koc, Piotr see Malec, Edward, 91h:83011
- Krori, K. D. (with Borghonini, P.; Das, Dipali) Quantum fluctuations near a black-hole singularity. 91g:83042
- Kubyskin, Yu. A. see Volobuev, I. P.; et al., 91g:81088
- Kunz, P. Geometry of the covariant Brink-Schwarz superparticle in a curved superspace. 91d:81159
- Kuzenko, S. M. see Ketov, S. V.; et al., 91m:81209
- Kuz'min, V. A. see Berezin, V. A.; et al., 91m:83042
- Lebedev, D. R. (with Polikarpov, M. I.; Rosly, A. A.) Gauge fields on the continuum and lattice tori. 91f:81100
- Lechner, Kurt Four-graviton scattering in $D = 4$ superstrings with broken space-time supersymmetry. 91h:81123
- Liddle, Andrew R. (with Stephens, C. R.) Vacuum instability near compact stars. 91h:83055
- Lorente, Miguel see Heidenreich, Wolfgang, 91e:81038
- Lotze, Karl-Heinz Exact solutions of the Dirac equation in Robertson-Walker flat universes. 91h:83013
- Malec, Edward (with Koc, Piotr) Trapped surfaces in monopole-like Cauchy data of Einstein-Yang-Mills-Higgs equations. 91h:83011
- Mangiarotti, Luigi see Annibaldi, Davide, 91g:83064a and Giacchetta, Giovanni, 91g:83064b
- Mann, Robert B. see Sikkema, Arnold E., 91k:83062
- Manton, N. S. (with Samols, T. M.) Skyrmions on S^3 and H^3 from instantons. 91k:81099
- Marques-Benham, S. The Dirac equation in a non-Riemannian manifold. II. An analysis using an internal local n -dimensional space of the Yang-Mills type. 91h:83049
- Mazur, Pawel O. (with Mottola, Emil) The path integral measure, conformal factor problem and stability of the ground state of quantum gravity. 91e:83028
- McLachlan, A. Flux breaking at finite temperature in spacetimes with toroidal compactification. 91a:81079
- Meister, A. Complex manifold methods in quantum field theory in curved space-time. 91k:83050
- Mellor, Felicity (with Moss, Ian) Black holes and gravitational instantons. 91e:83059
- (with Moss, Ian) Black holes and quantum wormholes. 91e:83058
- Moss, Ian see Mellor, Felicity, 91e:83058 and 91e:83059
- da Mota, L. A. C. P. see del Aguila, F.; et al., 91h:81193
- Mottola, Emil see Mazur, Pawel O., 91e:83028
- Mourão, J. M. see Volobuev, I. P.; et al., 91g:81088
- Müller-Hoissen, Folkert Nonminimal coupling from higher dimensions and four-dimensional black holes. 91a:83021
- Myers, Robert C. Domain walls, wormholes and the cosmological constant. 91a:83044
- Myung, Y. S. see Kanno, Hiroaki, 91f:81189
- Nakanishi, Noboru Interchanging the roles of spacetime and Faddeev-Popov ghost in quantum Einstein gravity. 91a:83045
- Ne'eman, Yuval (with Šijački, Djordje) Double-covering of diffeomorphisms for superspaces in generic curved space. (see 91m:81007)
- Nemeschansky, Dennis see Bars, Itzhak, 91k:81121
- Nicolai, H. Noncompact symmetries, extended supergravities and the Wheeler-DeWitt equation. 91b:83096
- O'Connor, Michael Path integrals, stochastic differential equations and operator ordering in supersymmetric quantum mechanics. 91k:81030
- Odintsov, S. D. Effective action in multidimensional gauged supergravities and spontaneous compactification. 91a:83086
- SL(2, Z) invariance in string theory. 91m:81220
- Vilkoviskii effective action in quantum gravity with matter. 91b:83057
- see also Bukhbinder, I. L.; et al., 91e:81067 and 91i:83023
- Oguri, Hiroshi Conformal field theory on a Riemann surface. 91i:81086
- O'Riada, L. see Balog, J.; et al., 91g:81108
- Osborn, Hugh Derivation of a four-dimensional c -theorem for renormalisable quantum field theories. 91c:81075
- Ovry, Stéphane see Antoine, Michel; et al., 91m:81316
- Ovry, Bart A. (with Rama, S. Kalyana) Chern-Simons induced massive gauge fields in four dimensions. 91b:81074
- Padmanabhan, T. see Singh, Tejinder Pal, 91d:83072
- Papadopoulos, George J. Topology, charged particles and anomalies in quantum mechanics. 91m:81105
- Past, P. (with Tonin, M.) Covariant quantization of Green-Schwarz heterotic superstring in curved background. 91b:81160
- Percacci, R. see Floresciani, Roberto, 91k:81214
- Pereira, U. see Villalba, Victor M., 91f:83022
- Perit, Holger (with Pohle, Hans-Jürgen) Wave packets with dissipation in minisuperspace. 91i:83045
- Picken, R. F. (with Webb, J. N.) Derivation of anomalies using the Itô stochastic calculus. 91a:81139
- Pohle, Hans-Jürgen see Perit, Holger, 91i:83045
- Polikarpov, M. I. see Lebedev, D. R.; et al., 91f:81100
- Polychronakos, Alexios P. see Harari, Diego, 91a:83054
- Pope, C. N. see Bergshoeff, E. A.; et al., 91m:81231
- Prugovečki, Eduard (with Warlow, S.) Foundational aspects of geometro-stochastic quantization of Dirac fields in curved spacetime. 91c:81035
- Rama, S. Kalyana see Ovry, Bart A., 91b:81074
- Rietdijk, R. H. (with van Holten, J. W.) Generalised Killing equations and the symmetries of spinning space. 91b:81188
- Romans, L. J. see Bergshoeff, E. A.; et al., 91m:81231
- Rosly, A. A. see Lebedev, D. R.; et al., 91f:81100
- Rovelli, Carlo (with Smolin, Lee) Loop space representation of quantum general relativity. 91i:83031
- Rudolph, Gerd see Volobuev, I. P.; et al., 91g:81088
- Rusakov, R. E. Loop averages and partition functions in $U(N)$ gauge theory on two-dimensional manifolds. 91m:81152
- Saleur, Hubert (with Di Francesco, P.) Two-dimensional critical models on a torus. 91b:81136
- Samols, T. M. see Manton, N. S., 91k:81099
- Scarpetta, G. see Calanelli, Eduardo R.; et al., 91e:81047
- Sergin, Ergin see Bergshoeff, E. A.; et al., 91m:81231
- Shapiro, I. L. see Bukhbinder, I. L.; et al., 91e:81067
- Shen, Xiang see Bergshoeff, E. A.; et al., 91m:81231
- Šijački, Djordje see Ne'eman, Yuval, (91m:81007)
- Sikkema, Arnold E. (with Mann, Robert B.) Gravitation and cosmology in $(1 + 1)$ dimensions. 91k:83062
- Singh, Tejinder Pal (with Padmanabhan, T.) Notes on semiclassical gravity. 91d:83072
- Sitruka, Yu. A. Electron-charge fractionization on surfaces of various geometry in an external magnetic field. 91k:81212
- Smolin, Lee see Rovelli, Carlo, 91i:83031
- Śniatycki, Jędrzej see Kerbrat, Yvan; et al., 91b:83086
- Soda, Jiro see Hosoya, Akio, 91k:81096
- Soldati, Roberto see Cognola, Guido; et al., 91i:81183

- Solov'ev, O. A. *see* Ketov, S. V.; et al., 91m:81269
- Stelle, K. S. *see* Duff, M. J., 91j:83074 and Bergshoeff, E. A.; et al., 91m:81231
- Stephens, C. R. *see* Liddle, Andrew R., 91h:83055
- Strajman, Jorge B. *see* Castagnini, Mario A., 91k:83048
- Thorne, Kip S. *see* Frolov, V. P., 91h:83054 and 91f:83039
- Tkachev, I. I. *see* Berezin, F. A.; et al., 91m:83042
- Toma, Naoki *see* Kawai, Toshihiko, 91a:83065
- Tomozawa, Yukio Exact solution of the quantum Einstein equation and the nature of singularity. 91h:83066
- Toni, M. *see* Pasti, P., 91h:81160
- Uhlmann, Armin Über Klein-Gordon-Teilchen bei Robertson-Walker-Metrik. (English summary) [On Klein-Gordon particles in the Robertson-Walker metric] 91k:83051
- Vasil'ev, M. A. Consistent equations for interacting gauge fields of all spins in 3 + 1 dimensions. 91k:81062
- Villalba, Victor M. (with Percoco, U.) Separation of variables and exact solution to Dirac and Weyl equations in Robertson-Walker space-times. 91f:83022
- Volkov, I. P. (with Kubyshin, Yu. A.; Mourao, J. M.; Rudolph, Gerd) Dimensional reduction of symmetric gauge fields, Higgs models, and spontaneous compactification. 91g:81008
- Waelbroeck, Henri Time-dependent solutions of 2 + 1 gravity. 91a:83058
- Wallet, J.-C. Algebraic set-up for the gauge-fixing of BF and super BF systems. 91f:81108
- Warlow, S. *see* Frugovetki, Edward, 91c:81035
- Webb, J. N. *see* Picken, R. F., 91a:81139
- Whiting, Bernard F. Black holes and gravitational thermodynamics. 91f:83042
- Wipf, A. *see* Balog, J.; et al., 91g:81108
- Wirzba, A. (with Bang, Henrik Peter) The mode spectrum and the stability analysis of skyrmions on a 3-sphere. 91c:81119
- Wollenberg, Manfred On the relations between quantum fields and local algebras of observables over curved space-time. 91h:81078
- On causal nets of algebras. 91m:81123
- ### 81T25 Quantum field theory on lattices
- Affleck, Ian (with Gepner, Doron; Schulz, H. J.; Ziman, T.) Corrigendum: "Critical behaviour of spin- s Heisenberg antiferromagnetic chains: analytic and numerical results" [J. Phys. A 22 (1989), no. 5, 511–529; MR 90c:81147]. (Not in MR)
- Aoki, Sinya Chiral gauge theories on a lattice and application to the chiral Schwinger model. 91h:81106
- *see also* Gitterman, Maarten F. L., 91h:81107
- Barata, João C. A. On the phase structure of the compact abelian lattice Higgs model. 91g:81103
- Bartels, Jochen (with Raabe, Bernd; Wu, Tai Tsun) Semiclassical analysis of the weak-coupling limit of SU(2) lattice gauge theory: the extreme infrared region. 91m:81173
- Ben-Av, Radel (with Solomon, Sorin) Topology and lattices. 91g:81104
- Bhanot, Gyan (with Bitar, K.; Heller, U. M.; Neuberger, H.) ϕ^4 on F_4 : analytical results. 91f:81132
- Bitar, K. *see* Bhanot, Gyan; et al., 91f:81132
- Borgs, Christian (with Fröhlich, Jürg; Waxler, Roger) The phase structure of the large n lattice Higgs model. 91h:81108
- Bulatov, D. V. Correlators in the theory of $D = 1$ random surfaces. 91d:81090
- Chatterjee, Ramananda (with Smith, S. J.) Higher order Korteweg-de Vries equation for interacting phonons in a one-dimensional anharmonic lattice. 91a:81154
- Dai, Yuan Ben *see* Song, Yong Shen, 91h:81109
- Destri, C. (with de Vega, H. J.) Light-cone lattices and the exact solution of chiral fermion and sigma models. 91a:81155
- Federbush, Paul The n plus ultra of tree graph inequalities. 91d:81091
- Fendley, Paul New exactly solvable orbifold models. 91d:81092
- Fröhlich, Jürg *see* Borgs, Christian; et al., 91h:81108
- Gepner, Doron *see* Affleck, Ian; et al., (Not in MR)
- Gitterman, Maarten F. L. (with Petcher, Donald N.) Comment on: "Chiral gauge theories on a lattice and application to the chiral Schwinger model" [Phys. Rev. D (3) 38 (1988), no. 2, 618–626; MR 91h:81106] by S. Aoki. 91h:81107
- Gong, Di *see* Liu, Jin Ming*, 91d:81093
- Grossman, Bernard (with Kephart, Thomas W.) Lattice instantons in the large dimension limit. 91f:81133
- Guo, Shuo Hong *see* Zheng, Bo, 91m:81177
- Heller, U. M. *see* Bhanot, Gyan; et al., 91f:81132
- Hofmann, Jürgen Anomalous dimensions of relevant operators in the $O(M)$ -symmetric ϕ^{2N} -theory. (Not in MR)
- Kephart, Thomas W. *see* Grossman, Bernard, 91f:81133
- Kobuchi, Hiroshi Crumpling phase transition of random surfaces with extrinsic curvature. 91h:81094
- Kondrat'ev, Yu. G. (with Konstantinov, A. Yu.) The scattering problem for special perturbations of harmonic systems. (Russian) 91c:81090
- Konishi, Kenichi (with Paffuti, Giampiero; Provero, Paolo) Minimum physical length and the generalized uncertainty principle in string theory. 91h:81095
- Konstantinov, A. Yu. *see* Kondrat'ev, Yu. G., 91c:81090
- Larsson, T. A. p -cell gauge theories, manifold space, and multi-dimensional integrability. 91c:81069
- Lia, Bei Shu *see* Zheng, Xi Te, (Not in MR)
- Lia, Jin Ming* (with Gong, Di) SU(3) one-link integrals in second-order variational-cumulant expansions. (Chinese. English summary) 91d:81093
- Lüscher, Martin (with Wolff, Ulli) How to calculate the elastic scattering matrix in two-dimensional quantum field theories by numerical simulation. 91h:81096
- Mack, Gerhard (with Pordt, Andreas) Convergent weak coupling expansions for lattice field theories that look like perturbation series. 91m:81174
- Matsui, Tetsuo Supersymmetry and its breaking in lattice gauge theories. (see 91j:81003)
- Miković, A. R. (with Siegel, Warren) Random superstrings. 91c:81070
- Nair, V. P. (with Schiff, Jeremy) Topological gauge theory and twistors. 91h:81052
- Neuberger, H. *see* Bhanot, Gyan; et al., 91f:81132
- Paffuti, Giampiero *see* Konishi, Kenichi; et al., 91h:81095
- Petcher, Donald N. *see* Gitterman, Maarten F. L., 91h:81107
- Phillips, Anthony V. (with Stone, David A.) The computation of characteristic classes of lattice gauge fields. 91m:81175
- Pordt, Andreas *see* Mack, Gerhard, 91m:81174
- Provero, Paolo *see* Konishi, Kenichi; et al., 91h:81095
- Raabe, Bernd *see* Bartels, Jochen; et al., 91m:81173
- Rudolph, Gerd The functional integral on the lattice gauge orbit space. (German summary) 91j:81055
- Schiff, Jeremy *see* Nair, V. P., 91h:81052
- Schulz, H. J. *see* Affleck, Ian; et al., (Not in MR)
- Siegel, Warren *see* Miković, A. R., 91c:81070
- Sinclair, R. Calculations on infinite lattices applied to lattice gauge theory. (Not in MR)
- Smith, S. J. *see* Chatterjee, Ramananda, 91a:81154
- Solomon, Sorin *see* Ben-Av, Radel, 91g:81104
- Song, Yong Shen (with Dai, Yuan Ben) A new scheme for enumerating connected diagrams on the lattice. 91h:81109
- Stefanov, M. A. (with Tsypin, M. M.) The phase structure of the U(1) Higgs-fermion lattice theory. 91h:81097
- Stone, David A. *see* Phillips, Anthony V., 91m:81175
- Szalachányi, K. (with Vecsernyés, P.) Cluster expansion in terms of knots in gauge theories with finite nonabelian gauge groups. 91h:81098
- Tanimura, N. (with Tanimura, O.) Recursion relation of character expansion coefficient in SU(3) lattice gauge theory. 91a:81156
- (with Tanimura, O.) U(2) extension of modified Bessel function with two indices. 91h:81110
- (with Tanimura, O.) New Bessel-type function associated with SU(3) representation. 91m:81176
- (with Tanimura, O.) Differential equation for SU(3) extension of Bessel function with two indices. 91h:81114
- Tanimura, O. *see* Tanimura, N., 91a:81156; 91h:81110; 91h:81114 and 91m:81176
- Tsypin, M. M. *see* Stefanov, M. A., 91h:81097
- Vecsernyés, P. *see* Szalachányi, K., 91h:81098
- de Vega, H. J. *see* Destri, C., 91a:81155
- Wan, L. D. *see* Yang, Jin Min; et al., 91d:81094
- Waxler, Roger *see* Borgs, Christian; et al., 91h:81108
- Wolff, Ulli *see* Lüscher, Martin, 91h:81096
- Wu, Chi Min *see* Yang, Jin Min; et al., 91d:81094
- Wu, Tai Tsun *see* Bartels, Jochen; et al., 91m:81173
- Yang, Jin Min (with Wu, Chi Min; Wan, L. D.) Phase structure of lattice Z(2) gauge-Higgs theory by variational cumulant expansion. 91d:81094
- Zheng, Bo (with Guo, Shuo Hong) Finding an exact solution to a 1 + 1 dimensional lattice U(1) gauge model. (Chinese. English summary) 91m:81177
- Exact ground state and string tension in (1 + 1)-dimensional lattice gauge theories. 91h:81053
- Zheng, Xi Te (with Liu, Bei Shu) Analytical calculation of the fundamental SU(2)-Higgs model in lattice gauge theory. (Not in MR)
- Ziman, T. *see* Affleck, Ian; et al., (Not in MR)
- ### Items with secondary classifications in 81T25
- Aleiner, I. D. (with Migdal, Alexander A.; Zmushko, V. V.) The Ising model on the dynamical triangulated random surface. 91c:82042
- Babelon, O. Exchange formula and lattice deformation of the Virasoro algebra. 91h:81066
- Barber, Michael N. *see* Batchelor, Murray T., 91c:82026
- Batchelor, Murray T. (with Barber, Michael N.) Spin- s quantum chains and Temperley-Lieb algebras. 91c:82026
- (with Hamer, C. J.) Surface energy of integrable quantum spin chains. 91g:82009a
- (with Hamer, C. J.) Corrigenda: "Surface energy of integrable quantum spin chains". 91g:82009b
- Baumgartel, Hellmut On the existence of measures connected with causality for quantum fields on lattices. 91c:81045
- On causal disjointness relations and causal nets of algebras on the lattice Z^{*+1} . (German summary) 91h:81076
- Brézin, Édouard (with Kazakov, Vladimir Aleksandrovich; Zamolodchikov, Aleksandr B.) Scaling violation in a field theory of closed strings in one physical dimension. 91m:81188
- Câteau, Hideyuki The stringy lattice models. 91m:82018
- Couture, Michel Josaphat *see* Lee, Hoong Chien; et al., 91d:81131
- Das, Sumit R. (with Dhar, Avinash; Sengupta, Anirvan M.; Wadia, Spenta R.) Critical behavior in some $D = 1$ large- N matrix models. 91c:81129
- DeWitt, Bryce S. Nonlinear sigma models in 4 dimensions as toy models for quantum gravity. 91c:83018
- Dhar, Avinash *see* Das, Sumit R.; et al., 91c:81129
- Dimock, J. The Kosterlitz-Thouless phase in a hierarchical model. 91f:81088
- A cluster expansion for stochastic lattice fields. 91d:82008
- Driver, Bruce K. YM: continuum expectations, lattice convergence, and lassos. 91c:81049
- Drummond, I. T. (with Horgan, R. R.) Continuum approximation to functional integrals. 91h:81165
- Ge, Mo Lin *see* Lee, Hoong Chien; et al., 91d:81131
- Gonzalez, J. (with Vozmediano, María A. H.) A supersymmetric model of random surfaces at $D = 1$. 91f:81149
- Hamer, C. J. *see* Batchelor, Murray T., 91g:82009a and 91g:82009b
- Henkel, M. (with Saleur, Hubert) Remarks on the mass spectrum on noncritical coset models from Toda theories. 91h:82011
- Hogreve, H. (with Müller, Werner; Potthoff, J.; Schrader, Robert) A Feynman-Kac formula for the quantum Heisenberg ferromagnet. II. 91m:82011
- Horgan, R. R. *see* Drummond, I. T., 91h:81165
- Huang, Kerson (with Polonyi, Janos) Renormalization of the sine-Gordon model and nonconservation of the kink current. (Not in MR)
- Ivanov, B. V. On the partition function of nonperturbative gravity. 91m:81206
- Kazakov, Vladimir Aleksandrovich* *see* Brézin, Édouard; et al., 91m:81188

- Laanait, Lahoussine (with Messenger, Alain; Ruiz, Jean Francois Alexandre) Discontinuity of the Wilson string tension in the 4-dimensional lattice pure gauge Potts model. 91g:81105
- Lebedev, D. R. (with Polikarpov, M. I.; Rosly, A. A.) Gauge fields on the continuum and lattice tori. 91f:81100
- (with Polikarpov, M. I.; Rosly, A. A.) Summation over topological classes of gauge fields in lattice gauge theories. 91h:81071
- Lee, Hoong Chien (with Ge, Mo Lin; Couture, Michel Josaphat; Wu, Yong Shi¹) Strange statistics, braid group representations and multipoint functions in the N -component model. 91d:81131
- Levin, A. (with Morozov, A. Yu.) On the foundations of the random lattice approach to quantum gravity. 91g:14018
- Lüscher, Martin Bosonization in $2+1$ dimensions. 91e:81056
- Charge screening and an upper bound on the renormalized charge in lattice QED. 91m:81162
- Martin, Paul P. Representations of graph Temperley-Lieb algebras. 91m:82039
- Messenger, Alain see Laanait, Lahoussine; et al., 91g:81105
- Migdal, Alexander A. see Aleinov, I. D.; et al., 91c:82042
- Morozov, A. Yu. see Levin, A., 91g:14018
- Müller, Werner¹ see Hogreve, H.; et al., 91m:82011
- Parisi, Giorgio String theory on the one-dimensional lattice. 91e:81082
- Polikarpov, M. I. see Lebedev, D. R.; et al., 91b:81071 and 91f:81100
- Polonyi, Janos see Huang, Kerson, (Not in MR)
- Putthoff, J. see Hogreve, H.; et al., 91m:82011
- Rosly, A. A. see Lebedev, D. R.; et al., 91b:81071 and 91f:81100
- Rostand, Bruno On multicritical lattice/orbifold models. 91m:81269
- Ruiz, Jean Francois Alexandre see Laanait, Lahoussine; et al., 91g:81105
- Rusakov, B. E. Loop averages and partition functions in $U(N)$ gauge theory on two-dimensional manifolds. 91m:81152
- Saleur, Hubert see Henkel, M., 91h:82011
- Schrader, Robert see Hogreve, H.; et al., 91m:82011
- Segrè, Gino C. Physics is more than four dimensions: another look at the Kaluza Klein theory. 91j:83068
- Sengupta, Anirvan M. see Das, Sumit R.; et al., 91c:81129
- Standacher, Matthias The Yang-Lee edge singularity on a dynamical planar random surface. 91e:82062
- Vozmediano, Maria A. H. see González, J., 91f:81149
- Wadia, Spenta R. see Das, Sumit R.; et al., 91c:81129
- Waelbroeck, Henri $2+1$ lattice gravity. 91e:83042
- Wu, Yong Shi¹ see Lee, Hoong Chien; et al., 91d:81131
- Zamolodchikov, Aleksandr B. see Brézin, Édouard; et al., 91m:81188
- Zmushko, V. V. see Aleinov, I. D.; et al., 91c:82042

81T27 Continuum limits

- Ambjörn, Jan (with Durhuus, Berglannur; Jónsson, Thórhur) Summing over all genera for $d > 1$: a toy model. 91m:81178
- Bachas, C. (with Petropoulos, P. M. S.) Doubling of equations and universality in matrix models of random surfaces. 91k:81115
- Brézin, Édouard (with Kazakov, Vladimir Aleksandrovich¹) Exactly solvable field theories of closed strings. 91k:81116
- (with Neuberger, H.) Multicritical points of unoriented random surfaces. 91m:81179
- Demeterfi, Kresimir (with Tan, Chung I) String equations from unitary matrix models. 91k:81117
- Dotsenko, V. S. Off the critical point by perturbation. II. The Ising model spin-spin correlator in a magnetic field. 91e:81054
- Durhuus, Berglannur see Ambjörn, Jan; et al., 91m:81178
- Howe, P. S. (with West, Peter C.) Fixed points in multi-field Landau-Ginzburg models. 91f:81134
- Jónsson, Thórhur see Ambjörn, Jan; et al., 91m:81178
- Kazakov, Vladimir Aleksandrovich¹ see Brézin, Édouard, 91k:81116
- Kreuzer, Maximilian (with Schimmrigk, Rolf) Tricritical Ising model, generalized KdVs, and nonperturbative 2D quantum gravity. 91h:81111
- Laanait, Lahoussine (with Messenger, Alain; Ruiz, Jean Francois Alexandre) Discontinuity of the Wilson string tension in the 4-dimensional lattice pure gauge Potts model. 91g:81105
- Messenger, Alain see Laanait, Lahoussine; et al., 91g:81105
- Neuberger, H. see Brézin, Édouard, 91m:81179
- Petropoulos, P. M. S. see Bachas, C., 91k:81115
- Ruiz, Jean Francois Alexandre see Laanait, Lahoussine; et al., 91g:81105
- Schimmrigk, Rolf see Kreuzer, Maximilian, 91h:81111
- Tan, Chung I see Demeterfi, Kresimir, 91k:81117
- West, Peter C. see Howe, P. S., 91f:81134
- Zamolodchikov, Aleksandr B. Thermodynamic Bethe ansatz in relativistic models: scaling 3-state Potts and Lee-Yang models. 91g:81166

Items with secondary classifications in 81T27

- Ben-Av, Radel (with Solomon, Sorin) Topology and lattices. 91g:81104
- Bochicchio, Marco Nonperturbative string theories and singular surfaces. 91m:81187
- Bulatov, D. V. Correlators in the theory of $D=1$ random surfaces. 91d:81090
- Bullough, R. K. (with Chen, Yu-zhong; Ólafsson, Sverrir; Timonen, J.) Statistical mechanics of the NLS models and their avatars. 91e:82006
- Cardy, John L. Conformal invariance and statistical mechanics. 91f:81001
- (with Mussardo, Giuseppe) Form factors of descendant operators in perturbed conformal field theories. 91k:81152
- Chandhuri, S. (with Lykken, Joseph D.; Morris, Tim R.) Bigranic nonperturbative strings. 91m:81193
- Chen, Yu-zhong see Bullough, R. K.; et al., 91e:82006
- Christe, P. (with Mussardo, Giuseppe) Integrable systems away from criticality: the Toda field theory and S -matrix of the tricritical Ising model. 91e:81090

- Crnković, Čedomir (with Ginsparg, Paul; Moore, Gregory W.) The Ising model, the Yang-Lee edge singularity, and 2D quantum gravity. 91m:82019
- Das, Sumit R. (with Jevicki, Antal) String field theory and physical interpretation of $D=1$ strings. 91m:81196
- Destri, C. (with de Vega, H. J.) On the continuous limit of the eight-vertex model. 91e:82016
- (with de Vega, H. J.) The exact S -matrix of the affine E_8 Toda field theory. 91d:81122
- (with de Vega, H. J.) Twisted boundary conditions in conformally invariant theories. 91e:81092
- Fateev, V. A. (with Zamolodchikov, Aleksandr B.) Conformal field theory and purely elastic S -matrices. 91d:81124
- Fendley, Paul New exactly solvable orbifold models. 91d:81092
- Fradkin, E. S. (with Shvartsman, Sh. M.) The continuum approach in Yang-Mills theory with an external nonabelian field. (Russian) 91m:81137
- Frahm, Holger (with Yu, Nai Chang) Finite-size effects in the integrable XXZ Heisenberg model with arbitrary spin. 91f:82015
- Gaudin, M. (with Kostov, Ivan K.) $O(n)$ model on a fluctuating planar lattice. Some exact results. 91h:82009
- Ginsparg, Paul see Crnković, Čedomir; et al., 91m:82019
- González, J. A new vacuum for the supersymmetric one-dimensional discretized string. 91k:81187
- Gross, David J. (with Klebanov, Igor R.) One-dimensional string theory on a circle. 91k:81130
- Gujrati, P. D. Self-avoiding random manifolds on a Bethe D -simplex lattice: thermal and percolation transitions. 91e:82032
- Guo, Shuo Hong see Zheng, Bo, 91m:81177
- It's, A. R. (with Kitaev, A. V.) Mathematical aspects of the nonperturbative 2D quantum gravity. 91h:81144
- Jevicki, Antal see Das, Sumit R., 91m:81196
- Kazakov, Vladimir Aleksandrovich¹ External matrix field problem and new multicriticalities in (-2) -dimensional random surfaces. 91m:81251
- Kitaev, A. V. see It's, A. R., 91h:81144
- Klebanov, Igor R. see Gross, David J., 91k:81130
- Kodaira, Jiro (with Sasai, Yuji; Sato, Harutada) Conservation laws away from criticality beyond the lowest order. 91g:81142
- Koster, Ivan K. see Gaudin, M., 91h:82009
- Kunitomo, Hiroshi (with Otake, Satoru) Nonperturbative analysis of the three matrix model. 91k:81167
- Liao, H. C. (with Mansfield, Paul) Light-cone quantization of the super-Liouville theory. 91h:81176
- Lüscher, Martin Charge screening and an upper bound on the renormalized charge in lattice QED. 91m:81162
- Lykken, Joseph D. see Chandhuri, S.; et al., 91m:81193
- Makeenko, Yu. M. Complex-matrix model and 2D quantum gravity. 91m:81257
- Mansfield, Paul see Liao, H. C., 91h:81176
- Martin, Paul P. Approaches to scale invariance in two-dimensional statistical mechanics. (see 91m:80033)
- Moore, Gregory W. see Crnković, Čedomir; et al., 91m:82019
- Morris, Tim R. see Chandhuri, S.; et al., 91m:81193
- Mussardo, Giuseppe see Christe, P., 91e:81090 and Cardy, John L., 91k:81152
- Myers, Robert C. (with Periwal, Vipul) Exactly solvable self-dual strings. 91c:81110
- Nakanishi, Tomoki Nonunitary minimal models and RSOS models. 91e:82028
- Otake, Satoru see Kunitomo, Hiroshi, 91k:81167
- Ólafsson, Sverrir see Bullough, R. K.; et al., 91e:82006
- Palla, László The E_8 string, level two E_8 representations and the Ising model. (see 91j:81003)
- Parisi, Giorgio String theory on the one-dimensional lattice. 91e:81082
- Periwal, Vipul (with Shevitz, Daniel) Exactly solvable unitary matrix models: multicritical potentials and correlations. 91m:81265
- see also Myers, Robert C., 91c:81110
- Sasai, Yuji see Kodaira, Jiro; et al., 91g:81142
- Sato, Harutada see Kodaira, Jiro; et al., 91g:81142
- Shevitz, Daniel see Periwal, Vipul, 91m:81265
- Shvartsman, Sh. M. see Fradkin, E. S., 91m:81137
- Solomon, Sorin see Ben-Av, Radel, 91g:81104
- Timonen, J. see Bullough, R. K.; et al., 91e:82006
- de Vega, H. J. see Destri, C., 91e:82016; 91d:81122 and 91e:81092
- Wotzasek, Clovis On the Casimir effect and the temperature inversion symmetry. 91e:82007
- Xu, Bo Wei A simple derivation of field theory of Ising quantum chain. 91k:82021
- Yu, Nai Chang see Frahm, Holger, 91f:82015
- Zabrodin, A. V. Critical exponents of one-dimensional models in lattice field theory. 91h:81157
- Zamolodchikov, Aleksandr B. Integrable field theory from conformal field theory. 91h:81139
- see also Fateev, V. A., 91d:81124
- Zheng, Bo (with Guo, Shuo Hong) Finding an exact solution to a $1+1$ dimensional lattice $U(1)$ gauge model. (Chinese. English summary) 91m:81177

81T30 String and superstring theories; other extended objects [see also 83E30]

- del Aguila, F. (with Coughlan, G. D.; Masip, M.) Revising a class of three-generation models: mass spectrum, renormalisation-group and proton-decay constraints. (Not in MR)
- Ambjörn, Jan 2D gravity and noncritical strings from random surfaces. (see 91j:81003)
- (with Bulatov, D. V.; Kazakov, Vladimir Aleksandrovich¹) The bosonic string represented as ϕ graphs: new Monte-Carlo simulations. 91c:81091
- Ananthanarayan, B. (with Shafi, Q.; Lazarides, G.) Three-generation superstring models with discrete R symmetries. 91f:81135

- Andreev, O. D. (with Metsaev, R. R.; Tseytlin, A. A.) Covariant calculation of the partition function of the two-dimensional σ model on compact 2-surfaces. **91m:81180**
- Aoki, Kenichiro (with D'Hoker, Eric; Phong, D. H.) Unitarity of closed superstring perturbation theory. **91j:81056**
- Arefeva, I. Ya. String field theory. **91k:81118**
- (with Medvedev, P. B.; Zubarev, A. P.) New representation for string field solves the consistency problem for open superstring field theory. **91f:81136**
- (with Medvedev, P. B.; Zubarev, A. P.) Background formalism for superstring field theory. **91c:81092**
- Argyres, Philip C. (with Nappi, Chiara R.) Massive spin-2 bosonic string states in an electromagnetic background. **91f:81137**
- Arnowitz, R. see Nath, Pran. (Not in MR)
- Aspinwall, P. S. (with Lütken, C. A.; Ross, Graham G.) Construction and couplings of mirror manifolds. **91g:81107**
- de Azavedo, J. A. (with Frydryszak, A.; Lukierski, Jerzy) Supersymmetry currents and WZ-like terms in (supersymmetry)² models. **91f:81138**
- Bachas, C. (with Hwang, Stephen) Finite number of states in unitary $d < 1$ strings. **91k:81119**
- Bailin, David (with Dunbar, David C.; Love, Alex) Four-dimensional fermionic string theories and symmetric orbifolds. **91f:81139**
- (with Dunbar, David C.; Love, Alex) Bosonisation of four-dimensional real fermionic string models and asymmetric orbifolds. **91f:81140**
- Balog, J. (with O'Raiartaigh, L.; Forgács, P.; Wipf, A.) Consistency of string propagation on curved spacetimes. An $SU(1, 1)$ based counterexample. **91g:81108**
- (with Forgács, P.; Horváth, Zoltán; Vecsernyés, P.) Lattice classification of the eight-dimensional chiral heterotic strings. **91k:81126**
- Bandos, I. A. (with Zheleznikov, A. A.) Hamiltonian mechanics and absence of critical dimensions for null membranes. **91b:81099**
- Banks, Thomas (with Lykken, Joseph D.) String theory and two-dimensional quantum gravity. **91c:81093**
- Bántay, P. The use of ramification theory in orbifold models. (see **91j:81003**)
- Barbashov, B. M. (with Shveta, N. R.) *Geometrical approach to the dynamics of a relativistic string in the D -dimensional Minkowski space. (Not in MR)
- Barcelo-Noté, J. Conformal super p -branes. **91m:81181**
- Bars, Itzhak Generalized differential geometry and strings. (see **91k:81006**)
- (with Kallosh, Renata) $Osp(2n/2m)$ covariant computations in the Green-Schwarz superstring. **91d:81095**
- Heterotic superstring vacua in four dimensions based on noncompact affine current algebras. **91j:81057**
- Strings from reduced large- N gauge theory via area preserving diffeomorphisms. **91m:81182**
- (with Nemeschansky, Dennis) String propagation in backgrounds with curved spacetime. **91k:81121**
- de Beer, Willem (with van Tonder, André; Rodrigues, João P.) Superinvolutions on super-Riemann surfaces and the supergeometry of type-I superstrings. **91m:81183**
- (with Rodrigues, João P.) Type-I from type-II superstrings. **91m:81184**
- Bellucci, Stefano (with Gates, S. James, Jr.; Radak, B.; Vashakidze, Sh. I.) Improved supergeometries for type-II Green-Schwarz nonlinear σ -models. **91a:81157**
- (with Depireux, Didier A.; Gates, S. James, Jr.) $(1, 0)$ Thirring models and the coupling of spin-0 fields to the heterotic string. **91c:81094**
- (with Govindarajan, T. R.; Kumar, Alok²; Oerter, R. N.) On the nonperturbative solution of the $d = 1$ superstring. **91h:81112**
- Bergshoeff, E. A. (with de Roo, M.) The quartic effective action of the heterotic string and supersymmetry. **91m:81185**
- Berkovits, Nathan Supersheet functional integration and the calculation of NSR scattering amplitudes involving arbitrarily many external Ramond strings. **91h:81100**
- A geometrical interpretation for the symmetries of the free Green-Schwarz heterotic superstring. **91m:81186**
- Bern, Zvi (with Dunbar, David C.) Four-dimensional type I superstrings with $N < 4$ supergravity. **91c:81095**
- (with Dunbar, David C.) Open superstrings in four dimensions. **91d:81096**
- (with Dunbar, David C.) Solution of the dilaton problem in open bosonic string theories. (Not in MR)
- Bianchi, Massimo (with Sagnotti, Augusto) Open strings and the relative modular group. **91d:81097**
- Bliham, Robert (with Samuel, Stuart) On the modified superstring field theory. **91f:81055**
- Bochicchio, Marco Nonperturbative string theories and singular surfaces. **91m:81187**
- Bonacina, G. (with Gamba, A.; Martellini, M.) A note on the strong coupling regime of two-dimensional quantum gravity. (Not in MR)
- Bonini, Marisa (with Gava, Edi; Iengo, Roberto) Amplitudes in the $N = 2$ string. (Not in MR)
- Botelho, Luiz C. L. Topological fermionic string representation for Chern-Simons nonabelian gauge theories. **91g:81109**
- Brensnoff, P. C. (with Taylor, John G.; Restuccia, A.) Chiral partition functions and determinants by light cone gauge techniques. **91f:81141**
- Brézin, Édouard (with Kazakov, Vladimir Aleksandrovich¹; Zamolodchikov, Aleksandr B.) Scaling violation in a field theory of closed strings in one physical dimension. **91m:81188**
- (with Marinari, Enzo; Parisi, Giorgio) A nonperturbative ambiguity free solution of a string model. **91f:81056**
- (with Neuberger, H.) Large- N scaling limits of symmetric-matrix models as systems of fluctuating unoriented surfaces. **91h:81113**
- Brink, L. Covariant superstrings from the light-cone gauge. (Not in MR)
- Budzyński, Robert J. (with Spaliński, Michał A.) Free energy of heterotic strings and covariant lattices. **91k:81122**
- Bulut, D. V. see Ambjorn, Jan; et al., **91c:81091**
- Butsenko, A. A. (with Odintsov, S. D.) Modular invariance in membrane theory. **91j:81058**
- Carlip, Steven Bordered surfaces, off-shell amplitudes, sewing, and string field theory. **91m:81189**
- (with Kogan, Ya. I.) Quantum geometrodynamics of the open topological membrane and string moduli space. **91c:81096**
- Casas, J. A. (with Katehou, E. K.; Muñoz, C.) $U(1)$ charges in orbifolds: anomaly cancellation and phenomenological consequences. **91f:81142**
- Castellani, Leonardo A geometric field theory of closed strings: $D = 4$, $N = 1$ loop supergravity. **91c:81071**
- (with Rego Monteiro, M. A.; Fré, Pietro; Gliozzi, Ferdinando) Free phases and mirror symmetry in fermionic superstrings. **91m:81190**
- Căteanu, Hideyuki (with Saito, Satoru) Braid of strings. **91m:81191**
- Chamseddine, A. H. (with Derendinger, J.-P.; Kounnas, Costas) The equivalence of NSR and GS four-dimensional twisted strings. **91m:81192**
- Chang, Darwin (with Kumar, Alok²; Rostand, Bruno) Heterotic map on type II models and uniqueness of the partition function. **91h:81114**
- (with Gangopadhyaya, Asim; Kumar, Alok²; Wang, Jin) Heterotic conformal field theory and Gepner's construction. **91h:81115**
- Chapline, George Superstrings and quantum gravity. **91k:81123**
- Chandhuri, S. (with Lykken, Joseph D.; Morris, Tim R.) Bigeneric nonperturbative strings. **91m:81193**
- Chekhov, L. O. (with Mironov, A. D.; Zabrodin, A. V.) p -adic string world sheets: higher genera. **91m:81194**
- (with Zinov'ev, Yu. M.) p -adic string compactified on a torus. **91h:81116**
- Cho, Byung Ha see Kim, T. W.; et al., **91g:81120**
- Cho, Kyu Song (with Chung, Won-Sang; Jeong, Min Ho; Lee, Jungjai; Kim, Jae Kwan) BRST- and $OSP(1/2)$ -invariant N -superstring vertex at space-time dimension fewer than 10. **91c:81072**
- Chen, Meifang Open-closed transition for the NSR spinning string. (Not in MR)
- Chung, Won-Sang (with Kim, Jae Kwan) A new property of superstring tree amplitude. (French summary) **91c:81073**
- (with Kim, Jae Kwan) String field theory at $D < 26$. **91g:81110**
- see also Cho, Kyu Song; et al., **91c:81072**
- Cohen, Eyal (with Kluberg-Stern, H.; Navelet, H.; Peschanski, R.) One-loop renormalization of the Polyakov string functional. (Not in MR)
- Colomo, F. (with Longhi, G.; Lusanna, Luca) Classical solutions of the many-time functional equations of motion of the Nambu string. **91m:81195**
- (with Longhi, G.; Lusanna, Luca) Classical canonical observables of the Nambu string. **91g:81111**
- Corrigan, E. Some aspects of twists and strings. **91c:81074**
- Coughlan, G. D. see del Aguila, F.; et al., (Not in MR)
- Cvetič, Mirjam Effective Lagrangian of the (blown-up) orbifolds. (see **91k:81006**)
- (with Molera, Juan M.; Orrut, Burt A.) Kähler potentials for matter scalars and moduli of Z_N orbifolds. **91c:81097**
- (with Kutasov, David) Topology change in string theory. **91h:81117**
- Dai, Jin² (with Leigh, R. G.; Polchinski, Joseph) New connections between string theories. **91f:81057**
- Dai, Yuan Ben (with Huang, Chao Shang; Zhao, Zhi Yong) Correlation functions on higher genus Riemann surfaces for string theories on group manifolds. **91h:81118**
- Das, Samit R. (with Jevicki, Antal) String field theory and physical interpretation of $D = 1$ strings. **91m:81196**
- Davis, Simon On the domain of string perturbation theory. **91f:81143**
- Genus-dependent divergences in bosonic string perturbation theory. **91k:81124**
- Debrnaley, Roger The zero-slope limit of Witten's string field theory with Chan-Paton factors. **91f:81144**
- Démichev, A. P. (with Iofa, M. Z.) Gupta-Bleuler operator quantization in superstring theory. **91m:81197**
- (with Iofa, M. Z.) Anomalous BRST Ward identity in string theory. **91g:81112**
- (with Iofa, M. Z.) BRST anomaly in string theory. **91h:81101**
- Depireux, Didier A. (with Gates, S. James, Jr.; Majumdar, Parthasarathi; Radak, B.; Vashakidze, Sh. I.) Towards covariantly quantized $D = 10$ type-II Green-Schwarz σ -models. **91h:81125**
- (with Gates, S. James, Jr.; Radak, B.) Yes, leftons for heterotic superstrings! **91f:81145**
- see also Bellucci, Stefano; et al., **91c:81094**
- Derendinger, J.-P. see Chamseddine, A. H.; et al., **91m:81192**
- D'Hoker, Eric Recent advances in superstring perturbation theory. **91a:81158**
- see also Aoki, Kenichiro; et al., **91j:81056**
- Diakonov, M. (with Farakos, K.; Koutsoumbas, G.; Papantonopoulos, E.) Hamiltonian formulation and quantum constraint algebra for a closed string moving in a curved background. **91m:81198**
- Distler, Jacques (with Hlousek, Zvonimir; Kawai, Hikaru) Hausdorff dimension of continuous Polyakov's random surfaces. **91j:81059**
- Di Vecchia, P. (with Pezzella, F.; Frau, M.; Hornfeck, K.; Lerda, A.; Sciuto, S.) N -point g -loop vertex for a free fermionic theory with arbitrary spin. **91c:81098**
- (with Madsen, Rune Asger; Hornfeck, K.; Roland, K. O.) A vertex including emission of spin fields. **91g:81113**
- Dixon, Lance J. Some world-sheet properties of superstring compactifications, on orbifolds and otherwise. **91m:81199**
- (with Kaplunovsky, Vadim S.; Louis, Jan) On effective field theories describing $(2, 2)$ vacua of the heterotic string. **91g:81114**
- Djorume, J. (with Larsen, A. L.; Nielsen, N. K.) Generalization of the string solution of Davidson and Wali. **91j:81060**
- Dolan, B. P. A Hamiltonian formalism for bosonic membranes. **91a:81159**
- Douglas, Michael R. (with Shenker, Stephen H.) Strings in less than one dimension. **91h:81119**
- Duff, M. J. Duality rotations in string theory. **91k:81126**
- Dunbar, David C. Boundary and crosscap states in compactifications of open and closed bosonic strings. **91c:81075**
- Fermionic string models and Z_N orbifolds. **91d:81098**
- see also Bern, Zvi, **91c:81095**; **91d:81096**; Bailin, David; et al., **91f:81139**; **91f:81140** and Bern, Zvi, (Not in MR)
- Dymnikis, Paul (with Zukauskaitė, Lolita) On the suppositional existence of fractal (super) p -branes. **91f:81146**
- Ellis, Jonathan Richard (with Mizrahi, Leah) Multiloop no-renormalization theorems for the ten-dimensional heterotic string. **91k:81127**

- Embacher, Franz Algebraic characterization of the Witten vertex. 91b:81102
 — Strings in the abelian picture. 91m:81200
- Englert, F. (with Orloff, Jean) Universality of the closed string phase transition. 91c:81099
- Evans, Mark (with Ovrut, Burt A.) Symmetry in string theory. 91c:81100
- Ezawa, Z. F. Generation of $OSP(9, 1|2) \times OSP(3, 3|6)$ affine superalgebra from the bosonic string. 91a:81160
- Farakos, K. see Diakonou, M.; et al., 91m:81198
- Feinberg, Joshua (with Moshe, Moshe) Quantization of the superparticle action in the FBF extended phase space. 91b:81120
- Ferrara, Sergio (with Kounnas, Costas) Extended supersymmetry in four-dimensional type II strings. 91k:81128
 — (with Lüst, D.; Theisen, S.) Target space modular invariance and low-energy couplings in orbifold compactifications. 91b:81103
 — (with Fré, Pietro) Type II superstrings on twisted group manifolds and their heterotic counterparts. 91g:81115
- Filippov, A. T. (with Isaev, A. P.) Gauge models of "discrete strings". 91d:81099
 — (with Isaev, A. P.) Gauge models of fermionic discrete "strings". 91g:81116
- Fink, Mark D. (with Srednicki, Mark) The Wilson equation for particles and p -branes. 91e:81076
- Floratos, E. G. (with Tracas, N. D.; Vlachos, N. D.) The Gross-Neveu chiral condensate in finite volume. (Not in MR)
- Font, Anamaría (with Ibáñez, Luis E.; Mondragón, M.; Quevedo, Fernando; Ross, Graham G.) (0, 2) heterotic string compactifications from $N = 2$ superconformal theories. 91a:81161
 — (with Ibáñez, Luis E.; Quevedo, Fernando; Sierra, Alejandro) The construction of "realistic" four-dimensional strings through orbifolds. 91c:81101
 — (with Ibáñez, Luis E.; Quevedo, Fernando; Sierra, Alejandro) Twisted $N = 2$ coset models: discrete torsion and asymmetric heterotic string compactifications. 91j:81061
- Forgács, P. see Balog, J.; et al., 91b:81108 and 91k:81120
- Frán, M. see Di Vecchia, P.; et al., 91c:81098
- Fré, Pietro (with Gliozzi, Ferdinando) Superstring theory on smooth manifolds with a nonabelian Lie group as covering space. 91b:81104
 — see also Ferrara, Sergio, 91g:81115 and Castellani, Leonardo; et al., 91m:81190
- Frolov, V. P. (with Sánchez, Norma) Instability of accelerated strings and the problem of limiting acceleration. 91j:81062
- Frydryszak, A. see de Azavedo, J. A.; et al., 91f:81138
- Fujisaki, Haruo (with Nakagawa, Koichi) The thermal stability of renormalization of open bosonic strings. 91b:81105
- Fujitsu, Akira (with Kitazoe, Tetsuro; Tabuse, Masayoshi; Nishimura, Haruhiko) Classification of symmetry breaking patterns in heterotic strings on Z_3 orbifold. 91g:81117
- Gamba, A. see Bonacina, G.; et al., (Not in MR)
- Gambini, R. (with Setaro, L.) Stringlike excitations with fractional spin in $3 + 1$ dimensions. 91k:81129
- Gambos, Jorge The tension as perturbative parameter in string theory. 91k:81121
 — (with Ramirez Romero, Cupatitzio; Ruiz-Altaba, M.) Null spinning strings. 91m:81201
- Gangopadhyaya, Asim see Chang, Darwin; et al., 91b:81115
- Gannon, Terry (with Lam, C. S.) Construction of four-dimensional strings. 91d:81100
- García-Bellido, J. (with Quiros, M.) On the closed bosonic string effective action. 91f:81147
- Gates, S. James, Jr. Strings, superstrings and two-dimensional Lagrangian field theory. 91j:81063
 — see also Bellucci, Stefano; et al., 91a:81157; 91c:81094; Depireux, Didier A.; et al., 91f:81145 and 91k:81125
- Gato, Beatriz Construction of vertex operators using operator formalism techniques. 91c:81102
- Gava, Edi see Bonini, Marisa; et al., (Not in MR)
- Gervais, Jean-Loup Liouville superstrings. 91a:81162
- Giddings, Steven B. Fundamental strings. (see 91k:81003)
- Girardi, G. (with Grimm, Richard) $N = 1$ supergravity. Topological classes and superspace geometry in four dimensions. (Not in MR)
- Givens, Amit (with Malkin, I.; Rabinovici, E.) The Riemann surface in the target space and vice versa. 91b:81106
 — (with Porrati, Massimo) A completely duality invariant effective action of $N = 4$ heterotic strings. 91m:81202
- Gliozzi, Ferdinando see Fré, Pietro, 91b:81104 and Castellani, Leonardo; et al., 91m:81190
- Goddard, Peter Symmetry and algebras in string theory. 91d:81101
- González, J. (with Vozmediano, María A. H.; Hueros, A. L.) Constraints on background fields from modular invariance. 91f:81148
 — (with Vozmediano, María A. H.) A supersymmetric model of random surfaces at $D = 1$. 91f:81149
- Govaerts, Jan The Nambu-Goto string: its phase-space path-integral. 91a:81163
- Govindarajan, T. R. see Bellucci, Stefano; et al., 91k:81112
- Gracey, J. A. On the β -function for σ models with $N = 1$ supersymmetry. 91g:81118
- Greene, Brian R. (with Lütken, C. A.; Ross, Graham G.) Couplings in the heterotic superconformal three generation model. 91b:81107
 — Superconformal compactifications in weighted projective space. 91j:81064
- Grimm, Richard see Girardi, G.; (Not in MR)
- de Groot, M. (with Mansfield, Paul) The Born-Infeld Lagrangian via string field theory. 91c:81103
- Gross, David J. (with Klebanov, Igor R.) One-dimensional string theory on a circle. 91k:81130
 — (with Miljković, Nikola) A nonperturbative solution of $D = 1$ string theory. 91d:81102
- Guadagnini, E. Interacting physical states of the bosonic string. I, II. 91m:81203
- Guo, Han Ying see Xu, Kai Wen, 91b:81119
- Harvey, Jeffrey A. Conformal field theory and string compactification. (see 91h:83001)
- (with Liu, James) Strings and statistics. 91d:81103
- Hata, Hiroyuki Construction of the quantum action for path-integral quantization of string field theory. 91f:81150
- Herzig, K. (with Weissgold, M.; Tataru-Mihai, P.) Conformal immersions, string effective Lagrangians and the c -theorem. 91e:81077
- Hloušek, Zvonimir see Distler, Jacques; et al., 91j:81059
- Heřava, Petr Strings on world-sheet orbifolds. 91c:81104
 — Background duality of open-string models. 91b:81108
- Hornfeck, K. see Di Vecchia, P.; et al., 91c:81098 and 91g:81113
- Horowitz, Gary T. Introduction to string field theory. 91a:81164a
 — Introduction to string field theory. 91a:81164b
- Horváth, Zoltán see Balog, J.; et al., 91k:81120
- Hu, Shi Ke see Yan, Jun; et al., 91b:81120 and 91m:81226
- Hua, Long (with Kaku, Michio) Shapiro-Virasoro amplitude and string field theory. 91m:81204
- Huang, Chao Shang see Dai, Yuan Ben; et al., 91b:81118
- Hübsch, Tristan Superstring phenomenology and cohomology on Calabi-Yau manifolds. 91m:81205
- Hueros, A. L. see González, J.; et al., 91f:81148
- Hwang, Stephen see Bachas, C., 91k:81119
- Ibáñez, Luis E. see Font, Anamaría; et al., 91a:81161; 91c:81101 and 91j:81061
- Iengo, Roberto see Bonini, Marisa; et al., (Not in MR)
- Intriligator, Kenneth (with Vafa, Cumrun) Landau-Ginzburg orbifolds. 91k:81131
- Iofa, M. Z. see Dèmichev, A. P., 91b:81101; 91g:81112 and 91m:81197
- Iroshnikov, G. S. Contribution of quantum fluctuations of the gauge field to the action of a chromoelectric string. 91a:81165
- Isaev, A. P. see Filippov, A. T., 91d:81099 and 91g:81116
- Ivanov, B. V. On the partition function of nonperturbative gravity. 91m:81206
- Jaroszkievicz, George (with Perry, Helen) The quantisation of nonrelativistic strings with arbitrary mass and charge densities. 91m:81207
- Jaskólski, Zbigniew The Polyakov path integral over bordered surfaces (the open string amplitudes). 91g:81119
- Jeong, Min Ho see Cho, Kyu Song; et al., 91c:81072
- Jevicki, Antal Three lectures on string field theory. (see 91k:81006)
- Construction of interacting string and superstring field theory. (see 91k:81003)
- (with Yoneya, Tamiaki) Action principle for strings in less than one dimension. 91k:81132
 — see also Das, Sumit R., 91m:81196
- Johnston, Desmond Alexander Putting Liouville into superstrings. 91b:81109
- Kaiser, Ralf Joachim see Marquard, U.; et al., 91c:81081
- Kaku, Michio Fun with strings. 91c:81078
 — Deriving the four-string and open-closed string interactions from geometric string field theory. 91d:81104
 — Nonpolynomial closed-string field theory. 91m:81208
 — see also Hua, Long, 91m:81204
- Kalara, S. (with Lopez, Jorge L.; Nanopoulos, D. V.) Calculable nonrenormalizable terms in string theory: a guide for the practitioner. (Not in MR)
- Kallosh, Renata see Bara, Itzhak, 91d:81095
- Kaplunovsky, Vadim S. see Dixon, Lance J.; et al., 91g:81114
- Kashaev, R. M. (with Osipov, A. A.) Extension of the constraint algebra for a closed string with a world surface of fixed topology. 91f:81151
- Katehou, E. K. see Casas, J. A.; et al., 91f:81142
- Kato, Akishi (with Kitazawa, Yoshihisa) E_7 type modular invariant Wess-Zumino theory and Gepner's string compactification. 91h:81122
- Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Ono, Yasuji; Tanioka, Kazutaka) Z_3 orbifold models. 91f:81152
- Kawai, Hikaru see Distler, Jacques; et al., 91j:81059
- Kawamura, Yoshiharu see Katsuki, Yasuhiko; et al., 91f:81152
- Kazakov, Vladimir Aleksandrovich¹ A simple solvable model of quantum field theory of open strings. 91c:81105
 — see also Ambjörn, Jan; et al., 91c:81091 and Brézin, Édouard; et al., 91m:81188
- Keter, S. V. (with Kuzenko, S. M.; Solov'ev, O. A.) Covariant calculation of the heterotic string effective action in a curved $(1, 0)$ superspace. 91m:81209
 — (with Kuzenko, S. M.; Solov'ev, O. A.) Cancellation of anomalies for four-dimensional heterotic strings in a Lagrangian approach. 91k:81133
- Khrennikov, A. Yu. Quantization of bosonic string field, and infinite-dimensional pseudo-differential operators. Fixed gauge. 91j:81058
 — Gaussian quantization of the Klein-Gordon equation in variational derivatives and second quantization of the bosonic string. 91f:81153
- Kim, Jae Kwan see Cho, Kyu Song; et al., 91c:81072; Chung, Won-Sang, 91c:81073 and 91g:81110
- Kim, T. W. (with Park, S. U.; Cho, Byung Ha) Riemann problem and operator formulation for fermionic theories on Riemann surfaces. 91g:81120
- Kiritais, Elias B. On null states in sub-critical strings. 91j:81065
- Kirschner, R. Dynamics on bordered Riemann surfaces and string Green functions. 91d:81105
- Kitazawa, Yoshihisa see Kato, Akishi, 91h:81122
- Kitazoe, Tetsuro see Fujitsu, Akira; et al., 91g:81117
- Klebanov, Igor R. see Gross, David J., 91k:81130
- Kleppe, Gary (with Ramond, P.; Viswanathan, R. Raju) Algebra of reparametrization-invariant and normal-ordered operators in open string field theory. 91a:81166
 — (with Viswanathan, R. Raju) Alternative ghost structures for superstring field theory. 91f:81059
 — (with Viswanathan, R. Raju) A comment on reparametrization invariance in Witten's open string field theory. 91c:81106
- Kluberg-Stern, H. see Cohen, Eyal; et al., (Not in MR)
- Kobayashi, Tatsuo see Katsuki, Yasuhiko; et al., 91f:81152
- Kogan, Ya. I. The off-shell closed strings as topological open membranes. Dynamical transmutation of world sheet dimension. 91b:81110
 — The $R \rightarrow \alpha'/R$ space-time duality from the $2 + 1$ point of view. 91m:81210
 — see also Carlip, Steven, 91c:81096
- Koehn, Ivan K. Exactly solvable field theory of $D = 0$ closed and open strings. 91c:81107
- Kounnas, Costas String and superstring solutions with or without spontaneously broken symmetries. (see 91k:81006)
- see also Ferrara, Sergio, 91k:81128 and Chamseddine, A. H.; et al., 91m:81192

- Koutsombas, G. *see* Diakonou, M.; et al., 91m:81198
- Kugo, Tachiro (with Suehiro, Kazuhiko) Nonpolynomial closed string field theory: action and its gauge invariance. 91g:81121
- Kumar, Alek² *see* Bellucci, Stefano; et al., 91h:81112; Chang, Darwin; et al., 91h:81114 and 91h:81115
- Kutasov, David String theory and the nonabelian Thirring model. 91a:81167
— *see also* Cvetič, Mirjam, 91h:81117
- Kuzenko, S. M. (with Solov'ev, O. A.) No Siegel anomaly for $D = 4$ heterotic σ -models on group manifolds. (Not in MR)
- *see also* Ketov, S. V.; et al., 91k:81133 and 91m:81209
- La, HoSeong (with Nelson, Philip) Effective field equations for fermionic strings. 91g:81122
- Lam, C. S. *see* Gannon, Terry, 91d:81100
- Larsen, A. L. *see* Djurhuus, J.; et al., 91j:81060
- Lauer, J. (with Zucchini, R.) Covariance properties of higher genus twist correlators under $R \leftrightarrow 1/R$ duality in orbifold conformal field theory. 91e:81079
- Lazarides, G. *see* Ananthanarayan, B.; et al., 91f:81135
- Lebedev, D. R. (with Morozov, A. Yu.) p -adic one-loop calculations. 91h:81111
- Lechner, Kurt Four-graviton scattering in $D = 4$ superstrings with broken space-time supersymmetry. 91h:81123
- Lechtenfeld, Olaf Superconformal ghost correlations on Riemann surfaces. 91d:81106
— (with Parkes, Andrew) On covariant multi-loop superstring amplitudes. 91h:81124
— Factorization and modular invariance of multi-loop superstring amplitudes in the unitary gauge. 91m:81211
- Lee, Jen-Chi (with Ovrut, Burt A.) Zero-norm states and enlarged gauge symmetries of the closed bosonic string with massive background fields. 91c:81108
- Lee, Jungjai *see* Cho, Kyu Song; et al., 91c:81072
- Leigh, R. G. *see* Dai, Jin²; et al., 91i:81057
- Lerda, A. *see* Di Vecchia, P.; et al., 91c:81098
- Lewellen, David C. Embedding higher-level Kac-Moody algebras in heterotic string models. 91m:81212
- Li, Jiang Nan *see* Yan, Jun²; et al., 91h:81120 and 91m:81236
- Lindström, U. (with Roček, M.; Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) Construction of the covariantly quantized heterotic superstring. 91d:81107
- Liu, James *see* Harvey, Jeffrey A., 91d:81103
- Liu, Yu Liang (with Ni, Guang Jiong) Holomorphic structure of the superstring on a genus- g Riemann surface. 91g:81123
- Longhi, G. *see* Colombo, F.; et al., 91g:81111 and 91m:81195
- Lopez, Jorge L. *see* Kalara, S.; et al., (Not in MR)
- Losev, A. S. The cutting and sewing method in string theory. 91m:81213
- Louis, Jan *see* Dixon, Lance J.; et al., 91g:81114
- Love, Alex *see* Bailin, David; et al., 91f:81139 and 91f:81140
- Luckock, H. C. (with Moss, Ian) The quantum geometry of random surfaces and spinning membranes. 91f:81154
- Lugo, Adrian R. (with Russo, Jorge G.) Multiloop (super) string amplitudes and other applications to CFT of the operator formalism on arbitrary genus Riemann surfaces. 91a:81168
— (with Russo, Jorge G.) Hamiltonian formulation of string theory and multiloop amplitudes in the operator context. 91j:81066
- Lukierski, Jerry *see* de Azavedo, J. A.; et al., 91f:81138
- Lusanna, Luca *see* Colombo, F.; et al., 91g:81111 and 91m:81195
- Lüst, D. (with Theisen, S.) ★ Lectures on string theory. 91g:81124
— *see also* Ferrara, Sergio; et al., 91h:81103
- Lütken, C. A. *see* Greene, Brian R.; et al., 91h:81107 and Aspinwall, P. S.; et al., 91g:81107
- Lykken, Joseph D. *see* Banks, Thomas, 91c:81093 and Chaudhuri, S.; et al., 91m:81193
- Lymer, Monika (with Schimmgik, Rolf) Landau-Ginzburg theories as orbifolds. 91m:81214
- Lyons, Alex Wormholes and effective actions in two dimensions. 91h:81125
- Madsen, Rune Angel *see* Di Vecchia, P.; et al., 91g:81113
- Maeno, Masahiro (with Takano, Hiroshi) Derivation of the cocycle factor of vertex in closed bosonic string field theory on torus. 91k:81134
- Maharana, Juanadeva Ward identities in string theory. 91k:81135
- Majumdar, Parthasarathi *see* Deshpande, Dileep A.; et al., 91k:81125
- Malkin, N. *see* Givson, Amit; et al., 91h:81106
- Mansfield, Paul *see* de Groot, M., 91c:81103
- Marinari, Enzo (with Parisi, Giorgio) The supersymmetric one-dimensional string. 91c:81080
— *see also* Brézin, Édouard; et al., 91i:81056
- Marquard, U. (with Kaiser, Ralf Joachim; Scholl, Marcus) Lorentz algebra and critical dimension for the supermembrane. 91e:81081
— (with Scholl, Marcus) Lorentz algebra and critical dimension for the bosonic membrane. 91h:81060
- Marshakov, A. V. (with Zabrodin, A. V.) New p -adic string amplitudes. 91a:81169
— *see also* Zabrodin, A. V., 91m:81227
- Martellini, M. *see* Bonacina, G.; et al., (Not in MR)
- Martin-Delgado, M. A. (with Ramirez Mittelbrunn, J.) String scattering amplitudes for external scalar states near the mass-shell. 91m:81215
- Masip, M. *see* del Aguila, F.; et al., (Not in MR)
- McCabe, John Francis (with Mehadid, Maged M. M. K.) Supersymmetrizing Siegel's chiral scalar theory. 91c:81109
- Medvedev, P. B. *see* Arefeva, I. Ya.; et al., 91c:81092 and 91f:81136
- Mehamid, Maged M. M. K. *see* McCabe, John Francis, 91c:81109
- Metsaev, R. R. *see* Andreev, O. D.; et al., 91m:81180
- Miković, A. R. Vanishing of the cosmological constant in the Green-Schwarz superstring theory. 91f:81155
- Miljković, Nikola *see* Gross, David J., 91d:81102
- Minahan, Joseph A. Calculation of the one-loop graviton mass shift in bosonic string theory. 91a:81170
- Mironov, A. D. *see* Chekhov, L. O.; et al., 91m:81194
- Mizuchi, Leah A multi-loop analysis of the anomaly cancelling terms in the heterotic string. 91g:81125
— *see also* Ellis, Jonathan Richard, 91h:81127
- Mohammed, Noureddine On the unitarity of string propagation on $SU(1,1)$. 91m:81216
- Molera, Juan M. (with Ovrut, Burt A.) Duality symmetry in orbifolds and effective low-energy Lagrangians. 91k:81136
— *see also* Cvetič, Mirjam; et al., 91c:81097
- Mondragón, M. *see* Font, Anamaría; et al., 91a:81161
- Morozov, A. Yu. (with Perelomov, A. M.) Complex geometry and string theory. (Russian) 91d:81108
— (with Rosly, A. A.) On multiloop calculations in the theory of open strings. 91a:81171
— *see also* Lebedev, D. R., 91h:81111
- Morris, Tim R. *see* Chaudhuri, S.; et al., 91m:81193
- Moshe, Moshe *see* Feinberg, Joshua, 91h:81120
- Moss, Ian *see* Luckock, H. C., 91f:81154
- Mueller, Mark Rolling radii and a time-dependent dilaton. 91h:81126
- Muñoz, C. *see* Casas, J. A.; et al., 91f:81142
- Murayama, Akihiro A new three generation model in $(2,0)$ heterotic string compactifications. 91m:81217a
— Errata: "A new three generation model in $(2,0)$ heterotic string compactifications". 91d:8117b
- Murphy, Philip (with Sen, Siddhartha¹) Genus g temperature string theory. 91h:81112
- Myers, Robert C. (with Perwal, Vipul) Exactly solvable self-dual strings. 91c:81110
- Naito, Seichi (with Nishimoto, Masahiro) Conformal mapping and vertex operators in the light-cone gauge. 91m:81218
- Nakagawa, Kōichi *see* Fujisaki, Haruo, 91h:81105
- Nakahara, Tsuyoshi (with Suematsu, Daijiro) Hidden sector structure and fractionally charged states in Calabi-Yau compactified string model. 91c:81111
- Nanopoulos, D. V. *see* Kalara, S.; et al., (Not in MR)
- Nappi, Chiara R. *see* Argyres, Philip C., 91f:81137
- Narain, K. S. Toroidal and orbifold compactification of heterotic string. 91f:81156
- Nath, Pran (with Arnowitt, R.) Predictions from three-generation Calabi-Yau string theory. (Not in MR)
- Navelet, H. *see* Cohen, Eyak; et al., (Not in MR)
- Ne'eman, Yuval (with Sijacki, Djordje) Double-covering of diffeomorphisms for superstrings in generic curved space. (see 91m:81007)
- Nelson, Philip *see* La, HoSeong, 91g:81122
- Nemeschansky, Dennis *see* Bars, Itzhak, 91k:81121
- Neuberger, H. *see* Brézin, Édouard, 91h:81113
- Ni, Guang Jiong *see* Liu, Yu Liang, 91g:81123
- Nielsen, N. K. *see* Djurhuus, J.; et al., 91j:81060
- van Nieuwenhuizen, Peter *see* Lindström, U.; et al., 91d:81107
- Nishimoto, Masahiro *see* Naito, Seichi, 91m:81218
- Nishimura, Haruhiko *see* Fujisaki, Akira; et al., 91g:81117
- Nissimov, E. (with Pacheva, S.) New superspace action for $D = 4$ superstrings. 91a:81172
- Nejiri, Shin'ichi A candidate of superstrings in less than one dimension. 91m:81219
- Nylander, E. Nonrenormalization theorem in bosonized N string formalism. 91c:81112
- Odinstov, S. D. (with Wiltshire, D. L.) The static potential for bosonic p -branes. 91d:81109
— Dual symmetry in a bosonic membrane at nonzero temperature? 91h:81127
— $SL(2, Z)$ invariance in a closed supermembrane. 91j:81067
— Vacuum energy for a noncritical closed string compactified on the torus. 91c:81113
— $SL(2, Z)$ invariance in string theory. 91m:81220
— *see also* Bytsenko, A. A., 91j:81058
- Oerter, R. N. *see* Bellucci, Stefano; et al., 91h:81112
- Ohtsuka, Noriyasu *see* Katsuki, Yasuhiko; et al., 91f:81152
- Oono, Yasuji *see* Katsuki, Yasuhiko; et al., 91f:81152
- Ooguri, Hiroshi (with Vafa, Cumrun) Self-duality and $N = 2$ string magic. 91g:81126
- O'Riartaigh, L. *see* Balog, J.; et al., 91g:81108
- Ordóñez, Carlos R. (with Rubin, Mark A.) String quantization via dual Peierls brackets. 91h:81068
- Oriolf, Jean *see* Englert, F., 91c:81099
- Osipov, A. A. *see* Kashaev, R. M., 91f:81151
- Osorio, M. A. R. A note on discrete symmetries in toroidal compactifications of strings. 91i:81061
- Ovrut, Burt A. *see* Cvetič, Mirjam; et al., 91c:81097; Evans, Mark, 91c:81100; Lee, Jen-Chi, 91c:81108 and Molera, Juan M., 91h:81136
- Pacheva, S. *see* Nissimov, E., 91a:81172
- Palla, László The E_8 string, level two E_8 representations and the Ising model. (see 91j:81003)
- Panagiotakopoulos, C. Superstring models from the second realization of Yau's three-generation manifold. 91a:81173
- Papanastopoulos, E. *see* Diakonou, M.; et al., 91m:81198
- Parisi, Giorgio String theory on the one-dimensional lattice. 91c:81082
— *see also* Marinari, Enzo, 91c:81080 and Brézin, Édouard; et al., 91i:81056
- Park, S. U. *see* Kim, T. W.; et al., 91g:81120
- Parkes, Andrew *see* Lechtenfeld, Olaf, 91h:81124
- Pavšič, Matej On the consistent derivation of rigid particles from strings. 91e:81083
- Paycha, Sylvie Bosonic strings and measures on infinite-dimensional manifolds. 91m:81221
- Peña, G. A. Covariant quantization of a relativistic string with nontrivial topology of the world sheet. (Russian. English summary) 91k:81137
- Perelomov, A. M. *see* Morozov, A. Yu., 91d:81108
- Perwal, Vipul *see* Myers, Robert C., 91c:81110
- Perry, Helen *see* Jaszakiewicz, George, 91m:81207
- Peschanski, R. *see* Cohen, Eyak; et al., (Not in MR)
- Petropoulos, P. M. S. Comments on $SU(1,1)$ string theory. 91f:81157
- Pezzella, F. *see* Di Vecchia, P.; et al., 91c:81098
- Phong, D. H. *see* Aoki, Kenichiro; et al., 91f:81056
- Piguet, O. (with Schwartz, Dominik; Schweda, M.) Extended global symmetries of the bosonic string. Their current algebra and anomalies. 91h:81128

- Pohlmeyer, K. Solution of the constraints for tensors generated by iterated integrals. 91d:81110
- Poichinski, Joseph *see* Dai, Jin²; et al., 91d:81057
- Pope, C. N. (with Sezgin, Ergin) A generalised Virasoro algebra for the type IIA superstring. 91f:81158
- Popov, A. D. Hyperbolic strings, bosonized ghosts, and fermions. (Not in MR)
- Vortices, strings and pseudo-instantons. 91d:81111
- Poratti, Massimo *see* Givson, Amit, 91m:81202
- Preitschopf, Christian R. (with Thorn, Charles B.; Yost, Scott A.) Superstring field theory. 91j:81069
- (with Thorn, Charles B.) Action principle for subcritical string fields. 91j:81070
- Quevedo, Fernando Heterotic strings in orbifold and Wilson-line backgrounds. (see 91k:81006)
- *see also* Font, Anamaria; et al., 91a:81161; 91c:81101 and 91j:81061
- Quirós, M. *see* García-Bellido, J., 91f:81147
- Rabinovici, E. *see* Givson, Amit; et al., 91b:81106
- Radak, B. *see* Bellucci, Stefano; et al., 91a:81157; Depireux, Didier A.; et al., 91f:81145 and 91k:81125
- Ramachandran, R. String theory—interactions of bosonic strings and Polyakov formalism. 91k:81138
- Ramirez Mittelbrunn, J. *see* Martín-Delgado, M. A., 91m:81215
- Ramirez Romero, Cupatitzio *see* Gamboa, Jorge; et al., 91m:81201
- Ramond, P. *see* Kleppe, Gary; et al., 91a:81166
- Rego Monteiro, M. A. *see* Castellani, Leonardo; et al., 91m:81190
- Restuccia, A. (with Taylor, John G.) Contact interactions for light-cone superstrings. (see 91m:00033)
- *see also* Bressloff, P. C.; et al., 91f:81141 and Taylor, John G., (91m:00033)
- Robertson, G. D. Torus knots are rigid string instantons. 91a:81174
- Roček, M. *see* Lindström, U.; et al., 91d:81107
- Rodrigues, João P. *see* de Beer, Willem; et al., 91m:81183 and 91m:81184
- Roland, K. O. A comparison of the path-integral and the oscillator approach to covariant loop calculus. 91d:81112
- *see also* Di Vecchia, P.; et al., 91g:81113
- de Roo, M. *see* Bergshoeff, E. A., 91m:81185
- Rosenhaus, V. On self-dual bosonic membranes in the 3-space. (Russian and Estonian summaries) 91b:81113
- Rouly, A. A. *see* Morozov, A. Ya., 91a:81171
- Ross, Graham G. Low energy models from the superstring. 91c:81114
- *see also* Font, Anamaria; et al., 91a:81161; Greene, Brian R.; et al., 91b:81107 and Aspinwall, P. S.; et al., 91g:81107
- Rostand, Bruno *see* Chang, Darwin; et al., 91b:81114
- Rozhanskii, L. V. One-loop string corrections to gauge charge. 91b:81114
- Rubin, Mark A. *see* Ordóñez, Carlos R., 91j:81068
- Ruiz-Altaba, M. *see* Gamboa, Jorge; et al., 91m:81201
- Russo, Jorge G. (with Tseytlin, A. A.) Leading tadpole divergences in string partition function. 91b:81129
- *see also* Lago, Adrian R., 91a:81168 and 91j:81066
- Saadi, Maha On closed string counterterms. 91f:81159
- Sagnotti, Augusto *see* Bianchi, Massimo, 91d:81097
- Saito, Satoru *see* Câteau, Hideo; et al., 91m:81191
- Saitoh, Yoshihiro (with Tanii, Yoshiaki) Lorentz symmetry in the light-cone field theory of open and closed strings. 91b:81115
- Sakai, Kenji Fock state representation of Wilson's equation. 91k:81139
- Sakamoto, Makoto Torus-orbifold equivalence in compactified string theories. 91f:81160
- Samuel, Stuart Introduction to string field theory. 91e:81084
- Off-shell string physics from conformal field theory. 91b:81116
- Solving the open bosonic string in perturbation theory. 91i:81062
- *see also* Blum, Robert, 91i:81055
- Sánchez, Norma *see* Frolov, V. P., 91j:81062
- Sato, Hikaru Lower-rank gauge groups in orbifold compactification with background gauge fields. 91j:81071
- Schellekens, A. N. Electric charge quantization in string theory. 91m:81222
- Schimmrigk, Rolf *see* Lynker, Monika, 91m:81214
- Scholl, Marcus *see* Marquard, U.; et al., 91c:81081 and 91i:81060
- Schwartz, Dominik *see* Piguet, O.; et al., 91b:81128
- Schwarz, John H. The quest for realistic superstring solutions. 91c:81115
- Superconformal symmetry and superstring compactification. 91g:81127
- Schweda, M. *see* Piguet, O.; et al., 91b:81128
- Scuto, S. *see* Di Vecchia, P.; et al., 91c:81098
- Semikhatov, A. M. Operator bosonization on Riemann surfaces: new vertex operators. 91k:81140
- Sen, Ashoke Exactly solvable string compactification on Calabi-Yau manifolds in the Green-Schwarz formalism. 91f:81161
- Open string field theory in a nontrivial background field. I. Gauge invariant action. 91e:81085
- Open string field theory in a nontrivial background field. II. Feynman rules and four-point amplitudes. 91e:81086
- Equations of motion in nonpolynomial closed string field theory and conformal invariance of two-dimensional field theories. 91m:81223
- Sen, Siddhartha¹ *see* Murphy, Philip, 91b:81112
- Sénéchal, David Search for four-dimensional string models. 91c:81116
- Setaro, L. *see* Gambini, R., 91k:81129
- Sezgin, Ergin *see* Pope, C. N., 91f:81158
- Shafi, Q. *see* Ananthanarayan, B.; et al., 91f:81135
- Shapiro, Alfred Modular invariance of field theories and string compactifications. 91f:81162
- Shapiro, J. A. (with Taylor, Cyrus Cooper) The spacetime supersymmetric formulation of the string. 91e:81087
- Shenker, Stephen H. *see* Douglas, Michael R., 91h:81119
- Short, K. M. Polyakov string in variable dimensions. 91m:81224
- Shvets, N. R. *see* Barbashov, B. M., (Not in MR)
- Siegel, Warren *see* Lindström, U.; et al., 91d:81107
- Sierra, Alejandro *see* Font, Anamaria; et al., 91c:81101 and 91j:81061
- Šijački, Djordje *see* Ne'eman, Yuval, (91m:81007)
- Slapins, George The cosmological constant in Witten's superstring field theory. 91f:81163
- Solodukhin, S. N. Strings and antisymmetric tensor fields. (German summary) 91a:81175
- Solov'ev, O. A. *see* Ketov, S. V.; et al., 91k:81133; 91m:81209 and Kuzenko, S. M., (Not in MR)
- Sonoda, Hidenori Hermiticity and CPT in string theory. 91d:81113
- (with Zwiebach, Barton) Closed string field theory loops with symmetric factorizable quadratic differentials. 91a:81176
- (with Zwiebach, Barton) Covariant closed string theory cannot be cubic. 91i:81063
- Spallinski, Michał A. *see* Budzyński, Robert J., 91k:81122
- Spokoiny, B. L. Quantum geometry of non-Archimedean particles and strings. (see 91j:81003)
- Srednicki, Mark *see* Fisk, Mark D., 91e:81076
- Stailov, M. N. (with Stoyanov, D. Ts.) A model of p -branes with closed-constraint algebra. (Not in MR)
- Stoyanov, D. Ts. *see* Stailov, M. N., (Not in MR)
- Strominger, Andrew Lectures on closed string field theory. 91k:81141
- Heterotic solitons. 91m:81225a
- Erratum: "Heterotic solitons". 91m:81225b
- Suehiro, Kazuhiko *see* Kugo, Taichiro, 91g:81121
- Suematsu, Daijiro *see* Nakahara, Tsuyoshi, 91c:81111
- Tabuse, Masayoshi *see* Fujitsu, Akira; et al., 91g:81117
- Takano, Hiroshi *see* Maeno, Masahiro, 91k:81134
- Talalov, S. V. The spinning string in four-dimensional space-time as a model of the $SL(2, C)$ chiral field with anomaly. I. 91d:81114
- The spinning string in four-dimensional space-time as a model of the $SL(2, C)$ chiral field with anomaly. II. 91j:81072
- Tanii, Yoshiaki *see* Saitoh, Yoshihiro, 91b:81115
- Tanioka, Kazutaka *see* Katsuki, Yasuhiko; et al., 91f:81152
- Tataru-Mihal, P. *see* Herzog, K.; et al., 91e:81077
- Taylor, Cyrus Cooper *see* Shapiro, J. A., 91e:81087
- Taylor, John G. (with Restuccia, A.) Towards a covariant closed string theory. (see 91m:00033)
- *see also* Bressloff, P. C.; et al., 91f:81141 and Restuccia, A., (91m:00033)
- Theisen, S. *see* Ferrara, Sergio; et al., 91b:81103 and Lüst, D., 91g:81124
- Thomas, Steven $C = 1$ models in the Thirring string formulation. 91f:81164
- Thorn, Charles B. Lectures on string theory. (see 91f:81004)
- Subcritical dual models as subcritical strings. 91f:81165
- *see also* Preitschopf, Christian R.; et al., 91j:81069 and 91j:81070
- van Tonder, André *see* de Beer, Willem; et al., 91m:81183
- Toon, A. A class of nonsupersymmetric orbifolds. 91j:81073
- Townsend, P. K. Three lectures on supermembranes. (see 91i:81004)
- Tracas, N. D. *see* Floratos, E. G.; et al., (Not in MR)
- Tseytlin, A. A. Sigma model approach to string theory. 91c:81117
- Duality symmetric formulation of string world sheet dynamics. 91f:81166
- On the "macroscopic string" approximation in string theory. (Not in MR)
- *see also* Russo, Jorge G., 91b:81129 and Andreev, O. D.; et al., 91m:81100
- Tye, S.-H. Henry New proposal for closed-string field theory: the free-string case. 91k:81142
- Tzani, Rodanthi Relation between the Parisi-Sourlas and "quartet" mechanism in the bosonic string. 91a:81177
- BRST light-cone quantization of the bosonic string Lagrangian. (Not in MR)
- Vafa, Cumrun String vacua and orbifoldized LG models. 91g:81128
- Quantum symmetries of string vacua. 91g:81129
- *see also* Ooguri, Hiroshi, 91g:81126 and Intriligator, Kenneth, 91k:81131
- Vashakidze, Sh. I. ★ IIA супергеометрия для σ -модели Грина-Илларупа. (Russian) [IIA supergeometry for the Green-Schwarz σ -model] 91k:81143
- *see also* Bellucci, Stefano; et al., 91a:81157 and Depireux, Didier A.; et al., 91k:81125
- Vecerný, P. *see* Balog, J.; et al., 91b:81120
- van de Ven, A. E. *see* Lindström, U.; et al., 91d:81107
- Veneziano, G. Strings and gravitation. 91c:81118
- Viswanathan, R. Raju *see* Kleppe, Gary; et al., 91a:81166; 91c:81106 and 91i:81059
- Vlachos, N. D. *see* Floratos, E. G.; et al., (Not in MR)
- Vladimirov, V. S. (with Volovich, I. V.) Boundary value problems for nonlinear equations of a relativistic string. (Russian) 91b:81117
- Vladimirov, V. V. A conformal-anomaly renormalization algorithm and quantization of a bosonic string. 91k:81144
- Volkov, D. V. (with Zhelezukhin, A. A.) Lagrangians for massless particles and strings with local and global supersymmetry. 91b:81118
- Volovich, I. V. *see* Vladimirov, V. S., 91b:81117
- Vozmediano, María A. H. *see* González, J.; et al., 91f:81148 and 91f:81149
- Wang, Jin *see* Chang, Darwin; et al., 91b:81115
- Weissgold, M. *see* Herzog, K.; et al., 91e:81077
- West, Peter C. A brief review of the group theoretic approach to string theory. 91a:81178
- Wiegmann, P. B. Extrinsic geometry of superstrings. 91h:81130
- Wiltshire, D. L. *see* Odintsov, S. D., 91d:81109
- Wipf, A. *see* Balog, J.; et al., 91g:81108
- Xu, Kai Wen (with Guo, Han Ying) BRST quantization and quasifree field theory for the Krichever-Novikov string. (Chinese. English summary) 91b:81119
- Yau, Jun² (with Li, Jiang Nan; Hu, Shi Ke) The loop cosmological constant in compact space S^1 and moduli space $F = C_2/SL(2, Z)$. 91b:81120
- (with Li, Jiang Nan; Hu, Shi Ke) The world sheet instanton on cosmic orbifold. 91m:81226
- Yoneya, Tamiaki *see* Jevicki, Antal, 91k:81132
- Yost, Scott A. Bosonized superstring boundary states and partition functions. 91c:81119
- *see also* Preitschopf, Christian R.; et al., 91j:81069
- Zabrodin, A. V. (with Marshakov, A. V.) New p -adic string amplitudes. 91m:81227

- see also Marshakov, A. V., 91a:81169 and Chekhov, L. O.; et al., 91m:81194
 Zamolodchikov, Aleksandr B. see Brézin, Édouard; et al., 91m:81188
 Zhao, Zhi Yong see Dai, Yuan Ben; et al., 91b:81118
 Zheleznikov, A. A. Hamiltonian formulation for an antisymmetric representation of the action of strings. 91a:81179
 — see also Bando, I. A., 91b:81099 and Volkov, D. V., 91b:81118
 Zinov'ev, Yu. M. see Chekhov, L. O., 91b:81116
 Zoglin, Paul Reexamination of four-generation heterotic string compactification as a superconformal field theory. 91c:81120
 — Radiative gauge symmetry breaking in an $N = 2$ superconformal string compactification. 91f:81167
 Zubarev, A. P. Free field action of the Ramond string and a general procedure for quantization of gauge theories with an open algebra. 91b:81131
 — see also Arefeva, I. Ya.; et al., 91c:81092 and 91f:81136
 Zucchini, R. see Lauer, J., 91c:81079
 Zykavskii, L. L. see Dyomin, Paul, 91f:81146
 Zwiebach, Barton Consistency of closed string polyhedra from minimal area. 91b:81132
 — see also Sonoda, Hidenori, 91a:81176 and 91b:81063
- Items with secondary classifications in 81T30
- Agshitsin, Michael E. (with Jacobs, Laurence; Migdal, Alexander A.; Richardson, John L.) Geometric characterization of states in two-dimensional quantum gravity. 91d:81004
 del Aguilá, F. (with Coughlan, G. D.; da Mota, L. A. C. P.) The role of gauge singlets in three-generation models. 91b:81193
 Alford, M. G. (with Benson, Katherine; Coleman, Sidney; March-Russell, John; Wilczek, Frank) Interactions and excitations of nonabelian vortices. 91a:81076
 Altschüler, Daniel (with Bérán, P.; Lacki, Jan; Roditi, L.) Twisted vertex operators and representations of finite Heisenberg groups. 91a:17028
 Alvarez, Orlando (with Killingback, T. P.; Mangano, Michelangelo; Windey, Paul) The Dirac-Ramond operator in string theory and loop space index theorems. 91a:58178
 Alvarez-Gaumé, L. Topics in conformal field theory and string theory. 91b:81146
 Amati, D. (with Klimčík, C.) Nonperturbative computation of the Weyl anomaly for a class of nontrivial backgrounds. 91b:81141
 Ambjørn, Jan (with Durhuus, Bergfinnur; Jónsson, Þórður) Summing over all genera for $d > 1$: a toy model. 91m:81178
 Antoniadis, I. (with Bachas, C.; Ellis, Jonathan Richard; Nanopoulos, D. V.) An expanding universe in string theory. 91a:83091
 Aoki, Kenichiro (with Perival, Vipul) Twisted nonabelian determinants on Riemann surfaces. 91d:58256
 Aratyn, Henrik BRS cohomology in string theory: geometry of abelization and the quartet mechanism. 91f:81212
 — (with Nissimov, E.; Pacheva, S.; Zimerman, A. H.) The Noether theorem for geometric actions and area preserving diffeomorphisms on the torus. 91j:58054
 Aspinwall, P. S. (2, 2)-superconformal field theories near orbifold points. 91c:14049
 Atiyah, Michael Francis see Physics and mathematics of strings, 91b:81004
 Babichev, L. F. (with Kuvshinov, V. I.; Fedorov, F. I.) Matrix realization of string algebra axioms and conditions of invariance. 91b:81052
 Bachas, C. see Antoniadis, I.; et al., 91a:83091
 Bailin, David (with Love, Alex) Quotients of irreducible $N = 2$ superconformal coset theories by discrete symmetries. 91m:81230
 Bailie, Clive F. (with Johnston, Desmond Alexander; Williams, Roy D.) Crumpling in dynamically triangulated random surfaces with extrinsic curvature. 91b:81152
 — (with Williams, Roy D.; Johnston, Desmond Alexander) Crumpling dynamically triangulated random surfaces in higher dimensions. 91b:81151
 Bakas, Ioannis The structure of the W_∞ algebra. 91j:17026
 Balog, J. see Forgács, P.; et al., 91b:81046
 Barbero, F. (with Julve, J.; Tiemblo, A.; Tregueres, R.) Coset group realizations and space-time local symmetries. (Italian and Russian summaries) 91a:81106
 Bars, Itzhak Differential geometry in loop space. 91b:58010
 — Membrane symmetries and anomalies. 91b:81182
 Baulieu, Laurent (with Bellon, M.; Grimm, Richard) Left-right asymmetric conformal anomalies. 91b:81142
 Bellon, M. see Baulieu, Laurent; et al., 91b:81142
 Benson, Katherine see Alford, M. G.; et al., 91a:81076
 Bérán, P. see Altschüler, Daniel; et al., 91a:17028
 Bergshoeff, E. A. (with Sezgin, Ergin) New spacetime superalgebras and their Kac-Moody extension. 91a:81062
 — (with Sezgin, Ergin; Tani, Yoshiaki; Townsend, P. K.) Super p -branes as gauge theories of volume preserving diffeomorphisms. 91b:83078
 — (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang) W_∞ gravity and super- W_∞ gravity. 91b:81148
 — (with Kallosh, Renata) BRST quantization of the Green-Schwarz superstring. 91f:81213
 — (with Kallosh, Renata; Van Proeyen, Antoine) The cohomology of the Brink-Schwarz superparticle. 91b:81190
 Bern, Zvi (with Kosower, David A.) Efficient computation of gauge theory loops using string theory. 91b:81160
 Bilal, Adel (with Gervais, Jean-Loup) Construction of constant curvature punctured Riemann surfaces with particle-scattering interpretation. 91a:81088
 Bleuler, Konrad Werner Heisenberg's ideas on particle physics in the light of recent achievements. (Not in MR)
 Bleyer, Ulrich (with Heinrich, O.; Nikolaenko, V. M.) Compactification and cosmic string phenomenology. 91g:81174
 Bodner, Mark (with Cadavid, Ana Cristina) Dimensional reduction of type IIB supergravity and exceptional quaternionic manifolds. 91d:83122
 — see also Ferrara, Sergio; et al., 91f:81179
 Bolte, J. (with Steiner, F.) Determinants of Laplace-like operators on Riemann surfaces. 91f:58099
 Bondi, Alessandro (with Curci, Giuseppe; Paffuti, Giampiero; Rossi, Paolo) Metric and central charge in the perturbative approach to two-dimensional fermionic models. 91b:81068
 Bordag, M. On the vacuum-interaction of two parallel cosmic strings. (German summary) 91d:83068
 Bordes, José (with Lizzi, Fedele) The space of string configurations in string field theory. 91g:58042
 Bos, Michiel (with Nair, V. P.) Coherent state quantization of Chern-Simons theory. 91a:81203
 Bott, Raoul H. On the fixed point formula and the rigidity theorems of Witten lectures at Cargèse 1987. 91c:58130
 Bouwknegt, Peter (with Ceresole, Anna) On a normal ordering ambiguity in the twisted WZW model. 91c:81125
 Bowick, Mark J. Axionic black holes and wormholes. 91b:83065
 Bressloff, P. C. (with Taylor, John G.; Nouri-Moghadam, M.) On the BFM quantisation of the particle. 91c:81159
 Brevik, I. (with Nielsen, Holger Bech) Casimir energy for a piecewise uniform string. 91b:81080
 Brézin, Édouard (with Kazakov, Vladimir Aleksandrovich) Exactly solvable field theories of closed strings. 91b:81116
 — see also Fields, strings and critical phenomena, 91b:81003
 Brooks, Roger Conformal field theories for the Green-Schwarz superstring. 91b:81123
 (Browder, Felix E.) see Witten, Edward, 91f:81004
 Bytensko, A. A. (with Kitorov, S. A.) Temperature induced Casimir effect in Kaluza-Klein supersymmetric theories compactified on torus. 91f:81122
 — Supersymmetric p -branes at a finite temperature. (Russian. English summary) 91d:81150
 Cadavid, Ana Cristina see Bodner, Mark, 91d:83122 and Ferrara, Sergio; et al., 91f:81179
 Candelas, Philip (with Green, Paul S.; Hübsch, Tristan) Rolling among Calabi-Yau vacua. 91j:32024
 — (with Hübsch, Tristan; Schimmrigk, Rolf) Relation between the Weil-Petersson and Zamolodchikov metrics. 91k:32021
 — (with Lynker, Monika; Schimmrigk, Rolf) Calabi-Yau manifolds in weighted P_4 . 91m:14062
 — (with de la Ossa, Xenia C.) Comments on conifolds. 91m:32018
 — see also He, Anning, 91j:14032
 Casas, J. A. (with de la Macorra, A.; Mondragón, M.; Muñoz, C.) Z_7 phenomenology. 91f:81241
 Castellani, Leonardo Infinite-dimensional free differential algebras and string field theory. 91a:81063
 Câteau, Hideyuki (with Saito, Satoru) Generalization of boson-fermion equivalence and Fay's addition theorem. 91b:14062
 — The stringy lattice models. 91m:82018
 Catenacci, Roberto (with Pirola, Gian Pietro) A geometrical description of local and global anomalies. 91a:81197
 — (with Reina, Cesare) Liftings of group actions and physical applications. (Italian. English summary) 91j:58014
 Cecotti, S. $N = 2$ supergravity, type IIB superstrings, and algebraic geometry. 91g:32023
 — Stringy cosmic strings and SUSY gauge theories. 91m:81282
 Candelas, L. (with Nieto, J. A.) Comments on super p -branes. 91b:83049
 Ceresole, Anna see Bouwknegt, Peter, 91c:81125
 Cicuta, Giovanni M. (with Montaldi, Emilio) Matrix models and marginal operators in the planar limit. 91g:81072
 Coleman, Sidney see Alford, M. G.; et al., 91a:81076
 Coughlan, G. D. see del Aguilá, F.; et al., 91b:81193
 Crnković, Cedomir (with Sotkov, G. M.) Strings on hyperelliptic supersurfaces. 91g:32026
 Curci, Giuseppe see Bondi, Alessandro; et al., 91b:81068
 Curtright, Thomas Extrinsic geometry of superimmersions. 91d:83118
 Dąbrowski, Ludwik (with Reina, Cesare) Some algebraic geometrical methods in string theory. 91j:14001
 Đào Văn Đức (with Nguyen Thi Hong) BRST cohomology operators on string superforms. 91b:81154
 Das, Sumit R. (with Dhar, Avinash; Wadia, Spenta R.) Critical behavior in two-dimensional quantum gravity and equations of motion of the string. 91c:81128
 D'Auria, R. (with Fré, Pietro; Gliozzi, Ferdinando; Pasquinucci, A.) 4D fermionic superstrings from thirteen dimensions: σ -model and superconformal properties. 91b:83074
 Davis, Richard Lynn Quantum turbulence. 91b:82067
 Delduc, F. (with Kalitzin, S.; Sokatchev, E.) Geometry of σ -models with heterotic supersymmetry. 91b:81185
 Delius, Gustav W. (with van Nieuwenhuizen, Peter; Rodgers, V. G. J.) The method of coadjoint orbits: an algorithm for the construction of invariant actions. 91b:17026
 Demetris, Kresimir (with Tan, Chung I) String equations from unitary matrix models. 91b:81117
 Deriglazov, A. A. see Ketov, S. V.; et al., 91j:81048
 Dhar, Avinash see Das, Sumit R.; et al., 91c:81128
 D'Hoker, Eric (with Phong, D. H.) Conformal scalar fields and chiral splitting on super Riemann surfaces. 91b:81125
 — (with Phong, D. H.) Functional determinants on Mandelstam diagrams. 91c:58142
 Djebbour, M. Y. Intermediate scale breaking for orbifold compactified models with tetrahedral point group. 91c:81093
 Dowker, J. S. Volume-preserving diffeomorphisms on the 3-sphere. 91b:58020
 Duff, M. J. (with Ferrara, Sergio; Pope, C. N.; Stelle, K. S. J.) Massive Kaluza-Klein modes and effective theories of superstring moduli. 91d:83123
 Durhuus, Bergfinnur see Ambjørn, Jan; et al., 91m:81178
 Eguchi, Tooru (with Taormina, Anne) Extended superconformal algebras and string compactifications. (see 91b:81004)
 Elitzur, Shmuel (with Malkin, N.) Fermionic Klein bottle. 91b:81050
 Elizalde, E. (with Romeo, A.) An integral involving the generalized zeta function. 91b:33017
 Ellis, Jonathan Richard see Antoniadis, I.; et al., 91a:83091 and Physics and mathematics of strings, 91b:81004
 Ellwanger, U. Exact renormalization group and string loop corrections for the NSR superstring. 91f:81114

- Embacher, Franz Abelianization by operator equivalence in string theory. 91b:81171
- Emmrich, C. (with Römer, H.) Orbifolds as configuration spaces of systems with gauge symmetries. 91g:58075
- Falqui, Gregorio (with Reina, Cesare) A note on the global structure of supermoduli spaces. 91k:14038
- Fedorov, F. I. see Babichev, L. F.; et al., 91k:81052
- Fehér, L. Gy. see Forgács, P.; et al., 91b:81046
- Fei, Shao Ming see Yu, Yue, 91b:81164
- Feinberg, Joshua (with Moshe, Moshe) Faddeev-Batalin-Fradkin extended phase space for superparticle quantization. 91m:81292
- Ferrara, Sergio (with Sabharwal, S.) Quaternionic manifolds for type II superstring vacua of Calabi-Yau spaces. 91g:53051
- (with Bodner, Mark; Cadavid, Ana Cristina) Calabi-Yau supermoduli space, field strength duality and mirror manifolds. 91f:81179
- (with Lüst, D.; Theisen, S.) Duality transformations for blown-up orbifolds. 91h:32017
- see also Duff, M. J.; et al., 91d:83123
- Figueras-O'Farrill, José M. (with Kimura, Takashi) The BRST cohomology of the NSR string: vanishing and "no-ghost" theorems. 91e:17015
- Forgács, P. (with Wipf, A.; Balog, J.; Fehér, L. Gy.; O'Raifeartaigh, L.) Liouville and Toda theories as conformally reduced WZNW theories. 91b:81046
- Foussats, A. (with Zandron, O.) Higher curvature supergravity and the massless sector of superstring theories. Hamiltonian formalism. 91b:83051
- Fradkin, E. S. (with Pal'chik, M. Ya.) Solution of a class of conformal quantum field theory models in D -dimensional space. 91h:81127
- (with Metsaev, R. R.) Quantum R -matrix in the relativistic string model in a space of constant curvature. 91j:81051
- Frè, Pietro see D'Auria, R.; et al., 91k:83074
- Freedman, Daniel Z. (with Pilch, Krzysztof) Partition functions of the superconformal ghost Thirring model. 91b:81063
- Frolow, V. P. (with Garfinkle, David) Interaction of cosmic strings with gravitational waves. 91j:83009
- Fubini, S. (with Lütken, C. A.) Vertex operators in the fractional quantum Hall effect. 91m:81334
- Fujii, Kazuyuki (with Otsuki, Shoichiro; Toyoda, Fumihiko) On classical configurations of $SU(2)_g$ gauge-Higgs system. 91d:81065
- Fujikawa, Kazuo (with Inagaki, Takeshi; Suzuki, Hiroshi) BRS current and related anomalies in two-dimensional gravity and string theories. 91f:81200
- (Furlan, G.) see Superstrings, unified theories and cosmology, 91k:81006
- Gal'te, J. A. The analytic renormalization setting for the string effective action. 91m:81158
- Garfinkle, David see Frolow, V. P., 91j:83009
- Garriga, Jaume (with Verdaguer, Enric) Quantum particles produced during cosmic string formation. (see 91h:83003)
- Garvan, Frank G. A number-theoretic crank associated with open bosonic strings. 91m:11086
- Gates, S. James, Jr. (with Hübsch, Tristan) Calabi-Yau heterotic strings and unidirectional σ -models. 91f:83070
- Gato, Beatriz Vertex operators, nonabelian orbifolds and the Riemann-Hilbert problem. 91i:81073
- Gaudin, M. (with Kostov, Ivan K.) $O(n)$ model on a fluctuating planar lattice. Some exact results. 91h:82009
- Gee, David L. (with Morris, Tim R.) From first to second quantized string theory. II. The dilaton and other fields. 91g:81097a
- (with Morris, Tim R.) From first to second quantized string theory. III. Gauge fixing and quantization. 91g:81097b
- Gervais, Jean-Loup Critical dimensions for noncritical strings. 91f:81057
- see also Bilal, Adel, 91f:81088
- Gibbons, Gary W. (with Ortiz, Miguel E.; Ruiz Ruiz, Fernando) Existence of global strings coupled to gravity. 91e:83039
- Vortex motion in the neighbourhood of a cosmic string. 91f:83076
- Giddings, Steven B. (with Strominger, Andrew) String wormholes. 91m:83085
- Glazebrook, James Strings, harmonic maps and hyperbolic systems. 91h:58046
- Gliozzi, Ferdinando see D'Auria, R.; et al., 91k:83074
- Gomis, J. (with Paris, Jordi; Roca, J.) BRST structures of the spinning string. 91m:81293
- González, J. Modular invariance of the partition function for the bosonic string in background fields. 91g:81095
- A new vacuum for the supersymmetric one-dimensional discretized string. 91k:81187
- Gracey, J. A. (with Versteegen, D.) The $O(N)$ Gross-Neveu and supersymmetric σ models on p -adic fields. 91g:81076
- Gravel, Pierre Discontinuous fields and multiconnected extended spacetimes. 91e:83036
- Green, Michael B. (with Hull, Christopher M.) Quantum mechanics of a twisted superparticle. 91h:81172
- see also Physics and mathematics of strings, 91b:81004 and Superstrings '88, 91i:81004
- Green, Paul S. see Candelas, Philip; et al., 91j:32024
- Greene, Brian R. (with Vafa, Cumrun; Warner, Nicholas P.) Calabi-Yau manifolds and renormalization group flows. 91c:14042
- (with Shapere, Alfred; Vafa, Cumrun; Yau, Shing-Tung) Stringy cosmic strings and noncompact Calabi-Yau manifolds. 91f:83057
- (with Plesser, M. R.) Duality in Calabi-Yau moduli space. 91h:32018
- Grimm, Richard see Baulein, Laurent; et al., 91b:81142
- (Grinaru, M.) see Superstrings '88, 91i:81004
- Groedelman, E. I. Duality, strings and inflation. 91m:83096
- Gumenchuk, A. I. (with Sorokin, D. P.) Relativistic dynamics of superparticles and the twistor correspondence. 91f:81217
- Guo, Han Ying see Yu, Yue, 91b:81163
- Güven, R. Supermembranes on black holes. 91a:83079
- Hamada, Ken-Ji (with Takao, Masaru) Functional integral methods for fermionic string and super Riemann surfaces. 91e:81105
- Hayashi, Nobuharu String field equation in curved spacetime from Weyl invariance. 91e:83088
- He, Auming (with Candelas, Philip) On the number of complete intersection Calabi-Yau manifolds. 91j:14032
- Heinrich, O. see Bleyer, Ulrich; et al., 91g:81174
- Helliwell, T. M. (with Konkowski, D. A.) The linearized spacetime of superconducting cosmic strings. 91f:83077
- Hirayama, Minoru (with Horikawa, Yoshihiro) Fermionized bosons and Szegő's theorem. 91j:81079
- 't Hooft, G. The black hole interpretation of string theory. 91e:83089
- Hoppe, Jens (with Schaller, Peter) Infinitely many versions of $SU_{(\infty)}$. 91j:17031
- Horikawa, Yoshihiro see Hirayama, Minoru, 91j:81079
- Hornfeck, K. Supersymmetrizing the W_4 algebra. 91k:81057
- Hübsch, Tristan see Candelas, Philip; et al., 91j:32024; Gates, S. James, Jr., 91j:83070 and Candelas, Philip; et al., 91k:32021
- Hull, Christopher M. see Green, Michael B., 91h:81172
- Hsu, M. Covariant quantization of Siegel's superparticle. 91b:81157
- Hwang, Stephen Abelianization of gauge algebras in the Hamiltonian formalism. 91k:81194
- Ichinose, Ikuro see Yamaguchi, Masahiro; et al., 91f:81203
- (Iengo, Roberto) see Superstrings '88, 91i:81004
- Inagaki, Takeshi see Fujikawa, Kazuo; et al., 91f:81200
- Isaev, A. P. see Ivanov, Evgenii Alekseevich; et al., 91b:81066
- Ivanov, Evgenii Alekseevich² (with Krivonos, S.; Leviant, V.) Geometric superfield approach to superconformal mechanics. 91d:81029
- (with Isaev, A. P.) The Green-Schwarz superstring as an asymmetric chiral field model. 91h:81066
- Jacobs, Laurence see Aglietti, Michael E.; et al., 91d:81004
- (Jevicki, Antal) see Particles, strings and supernovas, 91k:81003
- Johnston, Desmond Alexander see Bailie, Clive F.; et al., 91b:81151 and 91b:81152
- Jónsson, Thórhur see Ambjørn, Jan; et al., 91m:81178
- Julve, J. see Barbero, F.; et al., 91a:81106
- Kalitzin, S. see Delduc, F.; et al., 91k:81185
- Kallosh, Renata Super-Poincaré covariant quantized GS heterotic string as a free conformal theory. 91c:81096
- see also Bergshoeff, E. A., 91f:81213 and 91k:81190
- Kani, Iraj (with Vafa, Cumrun) Asymptotic mass degeneracies in conformal field theories. 91i:81080
- Karabali, Dimitra (with Park, Q-Han; Schnitzer, Howard J.) Thirring interactions, nonabelian Bose-Fermi equivalences and conformal invariance. 91d:81130
- Karanikas, A. I. (with Ktorides, C. N.) Surface self-intersections and instantons. 91i:81069
- Kastor, David (with Martinec, Emil J.; Shenker, Stephen H.) RG flow in $N = 1$ discrete series. 91a:81142
- Kazakov, Vladimir Aleksandrovich¹ see Brézin, Édouard, 91k:81116
- Kereselidze, A. R. see Volkov, G. G.; et al., 91d:81161
- Ketov, S. V. (with Deriglazov, A. A.; Prager, Ya. S.) Three-loop β -function for the two-dimensional nonlinear σ -model with a Wess-Zumino-Witten term. 91j:81048
- (with Kuzenko, S. M.; Solov'ev, O. A.) $(1,0)$ -covariant supergraphs. 91f:81207
- Kholodenko, Arkady L. Fermi-Bose transmutation from semiflexible polymers to superstrings. 91h:82053
- Killingback, T. P. see Alvarez, Orlando; et al., 91a:58178
- Kimura, Takashi see Figueras-O'Farrill, José M., 91e:17015
- Klemm, Albrecht (with Schmidt, Michael G.) Orbifolds by cyclic permutations of tensor product conformal field theories. 91m:81254
- Klimčík, C. see Amati, D., 91h:81141
- Kulshnik, V. G. Multiloop amplitudes in the theory of quantum strings and complex geometry. 91h:81211
- Koike, L. A. Gauge theory of strings and \mathcal{P} -algebra. 91e:17027
- Konishi, Kenichi (with Paffuti, Giampiero; Provero, Paolo) Minimum physical length and the generalized uncertainty principle in string theory. 91f:81095
- Konisi, Gaku (with Saito, Takeshi; Takahashi, Wataru) KN algebra derived from Virasoro algebra with vertex operators. 91f:17038
- (with Saito, Takeshi; Takahashi, Wataru) KN superalgebras with vertex operators. 91e:81036
- Konkowski, D. A. see Helliwell, T. M., 91f:83077
- Kosower, David A. see Bern, Zvi, 91d:81160
- Kostov, Ivan K. see Gaudin, M., 91h:82009
- Kravchenko, O. S. (with Semikhatov, A. M.) Operator formalism and tau function for supersymmetric ghosts in higher genus. 91b:81148a
- (with Semikhatov, A. M.) Erratum: "Operator formalism and tau function for supersymmetric ghosts in higher genus". 91b:81148b
- Krichever, Ios. M. (with Novikov, S. P.) Virasoro-Gelfand-Fuks type algebras, Riemann surfaces, operator's theory of closed strings. 91k:17036
- Krivonos, S. see Ivanov, Evgenii Alekseevich²; et al., 91d:81029
- Kitov, S. A. see Bytsenko, A. A., 91f:81122
- Ktorides, C. N. see Karanikas, A. I., 91b:81069
- Kutasov, David (with Seiberg, Nathan) Noncritical superstrings. 91j:81081
- Kuvshinov, V. I. see Babichev, L. F.; et al., 91k:81052
- Kuzenko, S. M. see Ketov, S. V.; et al., 91f:81207
- Laanait, Laboussine (with Messenger, Alain; Ruiz, Jean Francois Alexandre) Discontinuity of the Wilson string tension in the 4-dimensional lattice pure gauge Potts model. 91g:81105
- Lacki, Jan see Altschüler, Daniel; et al., 91a:17028
- Lebedev, D. R. (with Polikarpov, M. I.; Roslyi, A. A.) Gauge fields on the continuum and lattice tori. 91f:81100
- Lee, Taejin (with Viswanathan, K. S.) Krichever-Novikov bases for the bosonic string. 91g:17042
- Levi, A. R. BRST quantization of twisted Kac-Moody algebras. 91f:81218
- Leviant, V. see Ivanov, Evgenii Alekseevich²; et al., 91d:81029
- Lindström, U. (with Roček, M.; Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) Lorentz-covariant quantization of the superparticle. 91f:81219

- Lipartellani, A. G. *see* Volkov, G. G.; et al., 91k:81161
- Liu, Jun² Superconformal RG equation and the superstring theory. 91k:81102
- Lizzi, Fedele *see* Bordes, Joël, 91g:58042
- (Llewellyn-Smith, C. H.) *see* Physics and mathematics of strings, 91b:81004
- Love, Alex *see* Bailin, David, 91m:81230
- Lüst, D. *see* Ferrara, Sergio; et al., 91k:32017
- Lütken, C. A. *see* Fubini, S., 91m:81334
- Lynker, Monika *see* Candelas, Philip; et al., 91m:14062
- de la Macorra, A. *see* Casas, J. A.; et al., 91f:81241
- Maeno, Masahiro Canonical quantization of Witten's string field theory in the mid-point time formalism. 91c:81163
- Majumdar, Parthasarathi Covariantly quantized $D = 4$, $N = 1$ Green-Schwarz sigma models. (Not in MR)
- Malkin, N. *see* Elitzur, Shmuel, 91j:81050
- Mandal, Gautam Phase structure of unitary matrix models. 91c:81142
- Mangano, Michelangelo *see* Alvarez, Orlando; et al., 91a:58178
- Manin, Ya. I. Neveu-Schwarz sheaves and differential equations for Mumford superforms. 91b:32036
- Superalgebraic curves and quantum strings. (Russian) 91m:14084
- March-Russell, John *see* Alford, M. G.; et al., 91a:81076
- Marshakov, A. V. (with Morozov, A. Yu.) Landau-Ginsburg models with $N = 2$ supersymmetry as conventional conformal theories. 91k:81133
- Martinec, Emil J. String calculus: conformal field theory as a tool in string theory. 91c:81097
- *see also* Kaster, David; et al., 91a:81142
- McGuigan, Michael Constrained partition functions and the antisymmetric tensor field. 91j:81054
- Mende, Paul F. (with Ooguri, Hiroshi) Borel summation of string theory for Planck scale scattering. 91k:81100
- Messenger, Alain *see* Laanait, Lahoussine; et al., 91g:81105
- Metsaev, R. R. *see* Fradkin, E. S., 91j:81051
- Migdal, Alexander A. *see* Agishtein, Michael E.; et al., 91d:81004
- Miković, A. R. (with Siegel, Warren) Random superstrings. 91c:81070
- Mondaini, R. P. Towards a unified theory of strings and gravity via areal spaces. 91c:83030
- Mondragón, M. *see* Casas, J. A.; et al., 91f:81241
- Montaldi, Emilio *see* Cicuta, Giovanni M., 91g:81072
- Morozov, A. Yu. (with Rosly, A. A.) Some examples of the calculation of the scalar determinant in open string theory. 91d:58259
- Integrable systems and two-loop algebras in string theory. 91m:81260
- *see also* Marshakov, A. V., 91b:81133
- Morris, Tim R. *see* Gee, David L., 91g:81097a and 91g:81097b
- Moshe, Moshe *see* Feinberg, Joshua, 91m:81292
- da Mota, L. A. C. P. *see* del Aguila, F.; et al., 91k:81193
- Mulion, C. *see* Casas, J. A.; et al., 91f:81241
- Myers, Robert C. (with Perlmutter, Vipul) Exact solution of critical self-dual unitary-matrix models. 91f:82035
- Naculich, Stephen G. (with Schnitzer, Howard J.) Constructive methods for higher-genus correlation functions of level-one simply-laced WZW models. 91j:81082
- (with Schnitzer, Howard J.) Duality between $SU(N)_k$ and $SU(k)_N$ WZW models. 91k:81175
- Nag, Subhashis (with Verjovsky, Alberto) Diff(S^1) and the Teichmüller spaces. 91g:58037
- Nair, V. P. *see* Bos, Michel, 91a:81203
- Nanopoulos, D. V. *see* Antoniadis, I.; et al., 91c:83091
- Nelson, Philip Lectures on supermanifolds and strings. (see 91k:81003)
- Nguyen Thi Hong *see* Đào Văn Đu, 91b:81154
- Nielsen, Holger Bech *see* Brevik, L., 91b:81080
- Nieto, J. A. *see* Candelas, P., 91f:83049
- van Nieuwenhuizen, Peter *see* Lindström, U.; et al., 91f:81219 and Delius, Gustav W.; et al., 91h:17026
- Nikolaenko, V. M. *see* Beyer, Ulrich; et al., 91g:81174
- Nissimov, E. *see* Aratyn, Henrik; et al., 91j:58054
- Nouri-Maghdam, M. *see* Bressloff, P. C.; et al., 91c:81159
- Novikov, S. P. Complex analysis on Riemann surfaces motivated by the operatorial string theory. 91d:17036
- *see also* Krichever, Ios. M., 91k:17036
- Odake, Satoru $c = 3d$ conformal algebra with extended supersymmetry. 91i:81026
- Odintsov, S. D. Effective action in multidimensional gauged supergravities and spontaneous compactification. 91a:83086
- Onogi, Tetsuya *see* Yamaguchi, Masahiro; et al., 91f:81203
- Ooguri, Hiroshi Superconformal symmetry and geometry of Ricci-flat Kähler manifolds. 91m:83086
- *see also* Mende, Paul F., 91h:81100
- O'Riartaigh, L. *see* Forgács, P.; et al., 91b:81046
- Orland, Peter Testing the Bethe ansatz for straight strings in $(2 + 1)$ dimensions. 91h:81151
- Ortiz, Miguel E. *see* Gibbons, Gary W.; et al., 91c:83039
- Oshima, Kazuo Contributions of the discrete spectrum of the Maass Laplacians to super traces of Laplace operators on super Riemann surfaces. 91f:58161
- A complete set for the Maass Laplacians on the pseudosphere. 91j:58167
- de la Ossa, Xenia C. *see* Candelas, Philip, 91m:32018
- Otsuki, Shoichiro *see* Fujii, Kazuyuki; et al., 91d:81065
- Ovrut, Burt A. (with Rama, S. Kalyana) Heterotic string vertex operators and new minimal supergravity. 91j:83072
- Pacheva, S. *see* Aratyn, Henrik; et al., 91j:58054
- Paffuti, Giampiero *see* Konishi, Kenichi; et al., 91b:81095 and Bondi, Alessandro; et al., 91f:81048
- Pačhik, M. Ya. *see* Fradkin, E. S., 91b:81127
- Papadopoulos, George J. The path integral quantisation of the spinning particles with extended supersymmetries. 91c:81038
- París, Jordi *see* Gomis, J.; et al., 91m:81293
- Park, Q-Han *see* Karabali, Dimitris; et al., 91d:81130
- Pasquinucci, A. *see* D'Auria, R.; et al., 91k:83074
- Past, P. (with Tonin, M.; Wu, Ke) The curvature of line bundle over $\text{diff } S^1/S^1$ and superdiff S^1/S^1 . 91b:58266
- (with Tonin, M.) Covariant quantization of Green-Schwarz heterotic superstring in curved background. 91b:81160
- (Patl, J. C.) *see* Superstrings, unified theories and cosmology, 91k:81006
- Pelits, G. A. The static space and wave equation for a bosonic string with nontrivial world surface topology. 91c:81108
- Perlmutter, Vipul *see* Aoki, Kenichiro, 91d:58256 and Myers, Robert C., 91f:82035
- Perjés, Zoltán Twistor string models. 91m:81097
- Phong, D. H. *see* D'Hoker, Eric, 91b:81125 and 91c:81142
- Picken, R. F. The Duistermaat-Hoekman integration formula on flag manifolds. 91j:58067
- Pilch, Krzysztof *see* Freedman, Daniel Z., 91b:81063
- (Piran, Tsvi) *see* Strings and superstrings, 91i:81003
- Pirola, Gian Pietro *see* Catenacci, Roberto, 91a:81197
- Plesser, M. R. *see* Greene, Brian R., 91h:32018
- Polikarpov, M. I. *see* Lebedev, D. R.; et al., 91f:81100
- Poljakov, A. M. Two-dimensional quantum gravity. Superconductivity at high T_c . 91k:81177
- Pope, C. N. Quantization of super p -branes. (see 91k:81006)
- (with Stelle, K. S.) $SU(\infty)$, $SU_+(\infty)$ and area-preserving algebras. 91c:17016
- *see also* Duff, M. J.; et al., 91d:83123 and Bergshoeff, E. A.; et al., 91k:81148
- Popov, A. D. BRST-quantization of bosonic strings and hypertwistors. 91j:81093
- Strings and self-dual gauge fields. 91m:81149
- Geometric quantization of strings, and reparametrization invariance. 91f:81221
- Prager, Ya. S. *see* Ketov, S. V.; et al., 91j:81048
- Provero, Paolo *see* Konishi, Kenichi; et al., 91b:81095
- Rama, S. Kalyana *see* Ovrut, Burt A., 91j:83072
- Reina, Cesare *see* Dąbrowski, Ludwik, 91j:14001; Catenacci, Roberto, 91j:58014 and Falqui, Gregorio, 91k:14038
- Richardson, John L. *see* Agishtein, Michael E.; et al., 91d:81004
- Roca, J. *see* Gomis, J.; et al., 91m:81293
- Roček, M. *see* Lindström, U.; et al., 91f:81219
- Rodgers, V. G. J. *see* Delius, Gustav W.; et al., 91h:17026
- Roditi, I. *see* Altschüler, Daniel; et al., 91a:17028
- Romans, I. J. *see* Bergshoeff, E. A.; et al., 91k:81148
- Romeo, A. *see* Elizalde, E., 91k:33017
- Römer, H. *see* Emmerich, C., 91g:58075
- Rosly, A. A. *see* Morozov, A. Yu., 91d:58259 and Lebedev, D. R.; et al., 91f:81100
- Ross, Dennis K. Dimensional reduction in gauge theory. (Italian and Russian summaries) 91d:81073
- Ross, Graham G. Low-energy models from the superstring. 91c:81121
- Rossi, Paolo¹ *see* Bondi, Alessandro; et al., 91i:81068
- Roy, Shihaji Superconformal anomaly on the superhorizon. 91m:81270
- Ruiz, Jean Francois Alexandre *see* Laanait, Lahoussine; et al., 91g:81105
- Ruiz Ruiz, Fernando *see* Gibbons, Gary W.; et al., 91c:83039
- Russo, Jorge G. (with Tseytlin, A. A.) Renormalization of multiple infinities and the renormalization group in string loops. 91f:81117
- Sabharwal, S. *see* Ferrara, Sergio, 91g:53051
- Sabra, Waël A. (with Thomas, Steven) Perturbing induced quantum supergravity in $1 + 1$ dimensions. 91c:83042
- Saito, Satoru *see* Câteau, Hideyuki, 91b:14062
- Saito, Takeshi *see* Konishi, Kenichi; et al., 91a:17038 and 91c:81036
- Sakai, Kenji Handle operator and quantum string equation from Wilson's renormalization group. 91k:81076
- Sakamoto, Makoto Bosonization of bosons in vertex operator representations of affine Kac-Moody algebras. 91m:81088
- Sánchez, Norma *see* de Vega, H. J., (91m:00033)
- Schaller, Peter *see* Hoppe, Jens, 91j:17031
- Schimmrigk, Rolf Heterotic RG flow fixed points with nondiagonal affine invariants. 91k:81082
- *see also* Candelas, Philip; et al., 91k:32021 and 91m:14062
- Schlichenmaier, Martin Krichever-Novikov algebras for more than two points. 91a:17039
- Schmidt, Michael G. *see* Klemm, Albrecht, 91m:81254
- Schnitzer, Howard J. *see* Karabali, Dimitris; et al., 91d:81130; Naculich, Stephen G., 91j:81082 and 91k:81175
- Schwarz, John H. Superconformal symmetry in string theory. (see 91m:81005)
- (Sciama, D. W.) *see* Superstrings, unified theories and cosmology, 91k:81006
- Seiberg, Nathan *see* Kutasov, David, 91j:81081
- Semikhatov, A. M. Supersymmetric coset models in terms of free superfields. 91c:81157
- On the toroidal compactifications of bosonic strings in higher genus. 91b:81092
- *see also* Krawchenko, O. S., 91b:81148a and 91b:81148b
- Sergin, Ergin *see* Bergshoeff, E. A., 91a:81062; 91h:83078; 91k:81148; Superstrings '88, 91i:81004 and Superstrings, unified theories and cosmology, 91k:81006
- (Shaf, Q.) *see* Superstrings, unified theories and cosmology, 91k:81006
- Shapere, Alfred *see* Greene, Brian R.; et al., 91g:83057
- Sharatchandra, H. S. Some implications of string theories for classical gravity, quantum gravity and cosmology. 91h:83077
- Shen, Xiang *see* Bergshoeff, E. A.; et al., 91k:81148
- Shenker, Stephen H. *see* Kaster, David; et al., 91a:81142
- Shevitz, Daniel The global structure of a $c = 9$ type $(2, 2)$ moduli space. 91d:32030
- Siegel, Warren *see* Miković, A. R., 91e:81070 and Lindström, U.; et al., 91f:81219
- Stadkowski, J. The superstring-inspired generalizations of the Glashow-Weinberg-Salam model. 91k:81318
- Sekatchev, E. *see* Deligne, F.; et al., 91k:81185
- Selovev, O. A. *see* Ketov, S. V.; et al., 91f:81207
- Servant, Bent The problem of reconciling superstring theory with cosmology. 91c:83040
- Sorokin, D. P. *see* Gumenchuk, A. I., 91f:81217
- Sothov, G. M. *see* Crnković, Čedomir, 91g:32026
- Steiner, F. *see* Boltz, J., 91f:58099

- Stelle, K. S. *see* Pope, C. N., 91c:17016 and Duff, M. J.; et al., 91d:83123
- Strominger, Andrew *see* Giddings, Steven B., 91m:83085 and Superstrings '88, 91i:81004
- Suzuki, Hiroshi *see* Fujikawa, Kazuo; et al., 91f:81200
- Takahashi, Wataru *see* Konisi, Gaku; et al., 91a:17038 and 91c:81036
- Takao, Masaru *see* Hamada, Ken-Ji, 91c:81105
- Tan, Chung I *see* Demeterfi, Kresimir, 91k:81117 and Particles, strings and supernovae, 91k:81003
- Tang, P. (with Wilets, L.) The linearized gauge field propagator in an inhomogeneous medium. 91f:81112
- Tanli, Yoshiaki *see* Bergshoeff, E. A.; et al., 91h:83078
- Tasmin, Anne *see* Eguchi, Tetsu, (91i:81004)
- Taylor, John G. *see* Bressloff, P. C.; et al., 91c:81159
- Theisen, S. *see* Ferrara, Sergio; et al., 91h:32017
- Thomas, Steven *see* Sabra, Wafic A., 91c:83042
- Tiemblo, A. *see* Barbero, F.; et al., 91a:81106
- Tonin, M. Covariant quantization and anomalies of the G-S heterotic σ -model. 91m:81281 — *see also* Pasti, P.; et al., 91b:8266 and 91b:81160
- Townsend, P. K. *see* Bergshoeff, E. A.; et al., 91h:83078
- Toyoda, Fumihiko *see* Fujii, Kazuyuki; et al., 91d:81065
- Toyota, N. Integral dimension in the string theory based on a group manifold. 91f:17033
- Treguerres, R. *see* Barbero, F.; et al., 91a:81106
- Tseytlin, A. A. Two-dimensional quantum gravity and strings. 91c:81148 — Renormalization group and string loops. 91f:81119 — *see also* Russo, Jorge G., 91f:81117
- Vafa, Cumrun *see* Greene, Brian R.; et al., 91c:14042; 91g:83057 and Kani, Iraj, 91i:81080
- Van Proeyen, Antoine *see* Bergshoeff, E. A.; et al., 91k:81190 and de Wit, B., 91m:81274
- Vasiliev, D. V. A new class of compactification of the 11-dimensional supermembranes. 91d:83127
- Vayonakis, C. E. Constraints on higher Kac-Moody level standard-like models from renormalization group equations. 91m:81169
- de Vega, H. J. (with Sánchez, Norma) Strings and quantum gravity. (*see* 91m:00033)
- de Ven, A. E. *see* Lindström, U.; et al., 91f:81219
- Verdaguer, Eric *see* Garriga, Jaume, (91i:83003)
- Verjovsky, Alberto *see* Nag, Subhashis, 91g:58037
- Versteegen, D. *see* Gracey, J. A., 91g:81076
- Viswanathan, K. S. *see* Lee, Taejin, 91g:17042
- Volkov, G. G. (with Kerseeldize, A. R.; Liparteliani, A. G.) Left-right-symmetric, superstring-inspired models. 91d:81161
- Voronov, A. A. A unified approach to string scattering amplitudes. 91f:14024
- Wadia, Spenta R. *see* Das, Sumit R.; et al., 91c:81128
- Wang, Shi Kun (with Xu, Kai Wen) A superconformal algebra of meromorphic vector fields with three poles on the super Riemann sphere. 91g:17043 — (with Xu, Kai Wen) The superconformal algebra and central extension of meromorphic vector fields with multipoles on the super-Riemann sphere. 91f:17050
- Warner, Nicholas P. *see* Greene, Brian R.; et al., 91c:14042
- Weinberg, Steven *see* Strings and superstrings, 91i:81003
- West, Peter C. An introduction to string theory. 91a:81001
- Wilczek, Frank *see* Alford, M. G.; et al., 91a:81076
- Wilets, L. *see* Tang, P., 91f:81112
- Williams, Roy D. *see* Baillie, Clive F.; et al., 91b:81151 and 91b:81152
- Windey, Paul *see* Alvarez, Orlando; et al., 91a:81178
- Wipf, A. *see* Forgács, P.; et al., 91b:81046
- de Wit, B. (with Van Proeyen, Antoine) Symmetries of dual-quaternionic manifolds. 91m:81274
- Witten, Edward \odot String theory and geometry. 91f:81004
- Wu, Ke *see* Pasti, P.; et al., 91b:8266
- Wu, Siye Determinants of Dirac operators and Thirring model partition functions on Riemann surfaces with boundaries. 91c:8208
- Wu, Yong Shi¹ *see* Yu, Feng, 91f:81222
- Xu, Kai Wen *see* Wang, Shi Kun, 91g:17043 and 91f:17050
- Xu, Rui-Ming BRST quantization of the type II Green-Schwarz string. 91c:81165
- Yamaguchi, Masahiro (with Onogi, Tetsuya; Ichinose, Ikuro) Ambiguities and BRST anomalies in 4D heterotic string theories. 91f:81203
- Yau, Shing-Tung *see* Greene, Brian R.; et al., 91g:83057
- Yu, Feng (with Wu, Yong Shi¹) BRST superspace formulation for worldsheet topological gravity with gauged Lorentz and Weyl symmetries. 91f:81222
- Yu, Yue (with Guo, Han Ying) Geometric quantization for bosonic strings. II. (Chinese. English summary) 91b:81163 — (with Fei, Shao Ming) Symplectic structures, BKS kernels and path integrals of BRST bosonic strings. 91b:81164
- Yüan, Hsi Shih On Calabi-Yau orbifolds in weighted projective spaces. 91m:14064
- Yuriev, D. V. Cohomology of the Virasoro algebra with coefficients in string fields. 91m:81091
- Zaikov, R. P. Virasoro algebras in the theory of bosonic p -branes. 91k:81059
- Generalized self-dual bosonic p -branes and instanton-like solutions. 91g:81102
- Zandron, O. *see* Foussats, A., 91i:83051
- Zhang, De Hai Spin-4 extended conformal algebra. 91a:81196
- Zharinov, V. V. Symmetries and conservation laws of a string. 91g:58301
- Zheng, Bo Exact ground state and string tension in $(1+1)$ -dimensional lattice gauge theories. 91f:81053
- Zimmerman, A. H. *see* Aratyn, Henrik; et al., 91j:58054
- (Zinn-Justin, J.) *see* Fields, strings and critical phenomena, 91b:81003
- Zograf, P. G. Liouville action on moduli spaces and uniformization of degenerate Riemann surfaces. 91c:32015
- Zoller, D. Cocycles, the descent equations, and the Virasoro algebra. 91j:22015

Items listed otherwise than by author

Advanced Study Institute:

Elementary Particle Physics \star Particles, strings and supernovae. Vol. 1, 2. 91k:81003

- Champs, cordes et phénomènes critiques \star Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- Fields, strings and critical phenomena \star Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- Jerusalem \star Strings and superstrings. 91i:81003
- Les Houches \star Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- Particles, strings and supernovae \star Particles, strings and supernovae. Vol. 1, 2. 91k:81003
- Physics and mathematics of strings \star Physics and mathematics of strings. 91b:81004
- Providence, RI \star Particles, strings and supernovae. Vol. 1, 2. 91k:81003
- School:
- Superstrings \star Superstrings '88. 91i:81004
- Theoretical Physics \star Strings and superstrings. 91i:81003
- \star Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- Strings and superstrings \star Strings and superstrings. 91i:81003
- Superstrings '88 \star Superstrings '88. 91i:81004
- Superstrings, unified theories and cosmology \star Superstrings, unified theories and cosmology 1987. 91k:81006
- Trieste \star Superstrings, unified theories and cosmology 1987. 91k:81006
- \star Superstrings '88. 91i:81004
- Workshop:
- High Energy Physics and Cosmology \star Superstrings, unified theories and cosmology 1987. 91k:81006

81T40 Two-dimensional field theories, conformal field theories, etc.

- Ahn, Changrim (with Walton, Mark A.) Field identifications in coset conformal theories from projection matrices. 91c:81121
- Alekseev, A. Yu. (with Shatashvili, S. L.) From geometric quantization to conformal field theory. 91i:81064
- de Almeida da Silva, M. A. (with Barcelos-Neto, J.) Superconformal symmetry in the nonlinear σ -model. (Italian and Russian summaries) 91a:81180
- Altschüler, Daniel (with Bauer, Michel; Saleur, Hubert) Level-rank duality in nonunitary coset theories. 91k:81145
- Alvarez-Gaumé, L. Topics in conformal field theory and string theory. 91k:81146 — (with Gómez, César; Sierra, Germán) Duality and quantum groups. 91c:81122
- Ambjorn, Jan (with Makeenko, Yu. M.) Properties of loop equations for the Hermitian matrix model and for two-dimensional quantum gravity. 91i:81065 — (with Jurkiewicz, Jerzy; Windyslaw, Makeenko, Yu. M.) Multiloop correlators for two-dimensional quantum gravity. 91m:81228
- Aoki, Kenichiro Correlations of Z_N super twist fields on the sphere. 91a:81181 — Four-point function of the super-WZW model on the sphere. (Not in MR) — *see also* Montano, David; et al., 91m:81259
- Aoyama, S. 2D effective supergravity on the coadjoint orbit of the superconformal group. 91f:81168 — (with Julve, J.) Composition formula for 2D effective supergravity. 91h:81133
- Arefeva, I. Ya. (with Medvedev, P. B.) Oscillator representation of picture-changing operators. 91i:81182
- Awada, Moustafa A. (with Chamseddine, A. H.) The partition function of two-dimensional quantum gravity. 91d:81115 — (with Qiu, Zongan) 2D higher spin gravity and the multimatrix models. 91m:81229
- Babelon, O. (with Bonora, Lorian) Conformal affine sl_2 Toda field theory. 91f:81169 — Exchange formula and lattice deformation of the Virasoro algebra. 91b:81066
- Bagger, Jonathan Basic conformal field theory. (*see* 91m:81005)
- (with Goulian, Mark) Coulomb-gas representation on higher-genus surfaces. 91h:81134
- Bailin, David (with Love, Alex) Quotients of irreducible $N = 2$ superconformal coset theories by discrete symmetries. 91m:81230
- Balog, J. (with Dąbrowski, Ludwik; Fehér, L. Gy.) Classical r -matrix and exchange algebra in WZNW and Toda theories. 91f:81170
- Banks, Thomas (with Douglas, Michael R.; Seiberg, Nathan; Shenker, Stephen H.) Microscopic and macroscopic loops in nonperturbative two-dimensional gravity. 91c:81123
- Bántay, P. Orbifolds and Hopf algebras. 91k:81147
- Barcelos-Neto, J. *see* de Almeida da Silva, M. A., 91a:81180
- Bauer, Michel *see* Altschüler, Daniel; et al., 91k:81145
- Behera, N. *see* Kaul, Romesh K.; et al., 91a:81190
- Bergshoeff, E. A. (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang) W_∞ gravity and super- W_∞ gravity. 91k:81148 — (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang; Stelle, K. S.) w_∞ gravity. 91m:81231
- Bernard, Denis (with LeClair, André) The fractional supersymmetric sine-Gordon models. 91k:81149
- Bhattacharya, Gautam (with Ghosh, Sasanka) Algebraic Bethe ansatz scheme for relativistic integrable field theories in continuum: sine-Gordon model. 91b:81121 — *see also* Ghosh, Sabir, 91f:81183
- Bilal, Adel (with Gervais, Jean-Loup) Construction of constant curvature punctured Riemann surfaces with particle-scattering interpretation. 91a:81008 — (with Gervais, Jean-Loup) Conformal theories with non-linearly-extended Virasoro symmetries and Lie-algebra classification. 91a:81183 — (with Gervais, Jean-Loup) Systematic construction of conformal theories with higher-spin Virasoro symmetries. 91f:81067 — Fusion and braiding in W -algebra extended conformal theories. II. Generalization to chiral screened vertex operators labelled by arbitrary Young tableaux. 91d:81117 — Fusion and braiding in W -algebra extended conformal theories. 91d:81116
- Birmingham, Danny (with Rakowski, Mark T.) The β -function in topological sigma models. 91j:81074
- Blok, B. Classical exchange algebras in the Wess-Zumino-Witten model. 91c:81124

- Bhuhm, Robert** (with Samuel, Stuart) Off-shell conformal field theory at the one-loop level. **91b:81122**
- Bodner, Mark** see **Ferrara, Sergio**; et al., **91f:81179**
- Bondi, Alessandro** (with Curci, Giuseppe; Paffuti, Giampiero; Rossi, Paolo¹) Metric and central charge in the perturbative approach to two-dimensional fermionic models. **91i:81068**
- Bonora, Lorisano** (with Lugo, Adrian R.; Matone, Marco; Russo, Jorge G.) A global operator formalism on higher genus Riemann surfaces: b - c systems. **91a:81184**
— see also **Babelon, O.**, **91f:81169**
- Bouwknegt, Peter** (with Ceresole, Anna) On a normal ordering ambiguity in the twisted WZW model. **91c:81125**
- Boyakov, Daniel** (with Holman, R.) The Coulomb gas, vertex operators and the c -theorem. **91f:81171**
- Braden, Harry W.** (with Corrigan, E.; Dorey, P. E.; Sasaki, Ryu) Extended field theory and exact S -matrices. **91b:81135**
— (with Corrigan, E.; Dorey, P. E.; Sasaki, Ryu) Affine Toda field theory and exact S -matrices. **91b:81150**
- Brézin, Édouard** (with Douglas, Michael R.; Kazakov, Vladimir Aleksandrovich¹; Shenker, Stephen H.) The Ising model coupled to 2D gravity. A nonperturbative analysis. **91a:81185**
- Brooks, Roger** (with Kastor, David) Morphisms between supersymmetric and topological quantum field theories. **91m:81232**
— Conformal field theories for the Green-Schwarz superstring. **91b:81123**
- Burgess, Mark** (with Toms, David J.) Fractional statistics and the dynamical gauge symmetry of Yang-Mills-Chern-Simons theory. (Not in MR)
- Cahra, D.** (with Moreno, Enrique Francisco; von Reichenbach, Cecilia) Conformally invariant constrained fermion models. **91c:81126**
- Cadavid, Ana Cristina** (with Finkelstein, R. J.) Affine Higgs effect. **91a:81186**
— see also **Ferrara, Sergio**; et al., **91f:81179**
- Caldeira, A.** (with Maia, M. D.) A model for two-dimensional gravity. **91b:81124**
- Cappelli, Andrea** (with Latorre, José I.) Perturbation theory of higher-spin conserved currents off criticality. **91m:81233**
- Caracciolo, Sergio** (with Pelissetto, Andrea; Sokal, Alan D.) Universal distance ratios for two-dimensional self-avoiding walks: corrected conformal-invariance predictions. **91g:81130**
- Cardy, John L.** Boundary conditions in conformal field theory. **91k:81151**
— Boundary conditions, fusion rules and the Verlinde formula. **91d:81118**
— (with Mussardo, Giuseppe) Form factors of descendant operators in perturbed conformal field theories. **91k:81152**
- Carey, Alan L.** (with Hannabuss, K. C.) Simple examples of conformal field theories. **91k:81153**
- Carlip, Steven** (with Clements, Minot; Della Pietra, Stephen; Della Pietra, Vincent) Sewing Polyakov amplitudes. I. Sewing at a fixed conformal structure. **91k:81154**
- Caselle, M.** (with Ponzano, G.) Analyticity, modular invariance and the classification of three operator fusion algebras. **91d:81136**
— (with Ponzano, G.; Ravanini, F.) Orthogonal-polynomial structures and fusion algebras of rational conformal field theories. **91f:81069**
- Ceresole, Anna** (with Huang, Chao Shang) Extended KN algebras and extended conformal field theories over higher genus Riemann surfaces. **91k:81155**
— see also **Bouwknegt, Peter**, **91c:81125**
- Chair, Noureddine** An explicit computation for the Bose-Fermi equivalence on Riemann surfaces of genus g . **91c:81089**
— (with Zhu, Chuan Jie) Polynomial equations and modular transformations in topological field theory. **91m:81234**
- Chamseddine, A. H.** (with Wyler, D.) Topological gravity in $1+1$ dimensions. **91k:81156**
— see also **Awada, Moustafa A.**, **91d:81115**
- Choi, Jae Hoon** (with Kim, Jae Kwan) Higher-genus characters for the level-two SU(2) WZW model and GKO coset construction. **91a:81187**
— (with Kim, Jae Kwan) Higher-genus characters of the Ising model. **91d:81119**
- Choi, T. S.** (with Koh, In Gyu; Park, B. C.; Shin, H. J.) Dynamics of the coset conformal field theory. The BPZ equation from the KZ equation in the GKO construction. **91a:81188**
- Christe, P.** (with Mussardo, Giuseppe) Elastic S -matrices in $(1+1)$ dimensions and Toda field theories. **91m:81235**
— (with Mussardo, Giuseppe) Integrable systems away from criticality: the Toda field theory and S -matrix of the tricritical Ising model. **91c:81090**
- Chua, E. J.** (with Kim, Jihm E.) Shifted $Z_3 \times Z_3$ orbifold and the I^9 model. **91b:81070**
- Chung, Won-Sang** (with Kang, Sin Kyu; Lee, Jungjai; You, Chung-Ki; Kim, Jae Kwan) $N=2$ superconformal gravity and $OSp(2/2)$ Kac-Moody algebra in $(1+1)$ dimensions. **91b:81137**
— (with Kang, Sin Kyu; Lee, Jungjai; Kim, Jae Kwan) Induced W -supergravity in $1+1$ dimensions. (Not in MR)
— see also **Lee, Jungjai**; et al., **91f:81191**
- Clements, Minot** see **Carlip, Steven**; et al., **91k:81154**
- Cohn, J. D.** Nonunitarity in rational conformal field theory. **91c:81127**
- Constantinescu, F.** (with Flume, R.) Perturbation theory around two-dimensional critical systems through holomorphic decomposition. **91m:81236**
- Cordes, Stefan F.** (with Kikuchi, Yukio) Nonrenormalizable terms from a selection rule in the three-generation model. **91b:81138a**
— (with Kikuchi, Yukio) Erratum: "Nonrenormalizable terms from a selection rule in the three-generation model". **91b:81138b**
— (with Kikuchi, Yukio) Group theoretic identities for coset construction in $N=2$ superconformal field theory. **91f:81172**
- Corrigan, E.** see **Braden, Harry W.**; et al., **91b:81135** and **91b:81150**
- Cotta-Ramusino, P.** (with Guadagnini, E.; Martellini, M.; Mintchev, M.) Conformal quantum field theory on Riemann surfaces. **91d:81120**
— (with Guadagnini, E.; Martellini, M.; Mintchev, M.) Quantum field theory and link invariants. **91g:81131**
- Couture, Michel Josephat** see **Lee, Hoong Chien**; et al., **91d:81131**
- Cristofano, G.** (with Maiella, G.; Musto, R.; Nicodemi, F.) Tadpole operator for minimal models on arbitrary genus Riemann surfaces. **91d:81121**
- Crnković, Čedomir** (with Papanov, Roman; Sotkov, G. M.; Stanishkov, M.) Fusions of conformal models. **91f:81173**
- Curci, Giuseppe** see **Bondi, Alessandro**; et al., **91i:81068**
- Dąbrowski, Ludwik** see **Balog, J.**; et al., **91f:81170**
- Danielsson, Ulf** Three ways of doing 2D quantum gravity. **91m:81238**
- Das, Sumit R.** (with Dhar, Avinash; Wadia, Spenta R.) Critical behavior in two-dimensional quantum gravity and equations of motion of the string. **91c:81128**
— (with Dhar, Avinash; Sengupta, Anirvan M.; Wadia, Spenta R.) Critical behavior in some $D=1$ large- N matrix models. **91c:81129**
— Physical states, vacuum charges and exponents in two-dimensional quantum gravity and supergravity. **91c:81130**
- David, François Louis** Loop equations and nonperturbative effects in two-dimensional quantum gravity. **91m:81239**
— Phases of the large- N matrix model and nonperturbative effects in 2D gravity. **91k:81157**
- Degiovanni, P.** Z/NZ conformal field theories. **91c:81091**
— Z/NZ conformal field theories. **91m:81240**
- Della Pietra, Stephen** see **Carlip, Steven**; et al., **91k:81154**
- Della Pietra, Vincent** see **Carlip, Steven**; et al., **91k:81154**
- Deser, S.** (with McCarthy, James G.) Spin and statistics of gravitational anyons. **91i:81071**
- Destri, C.** (with de Vega, H. J.) The exact S -matrix of the affine E_3 Toda field theory. **91d:81122**
— (with de Vega, H. J.) Twisted boundary conditions in conformally invariant theories. **91c:81092**
- Dhar, Avinash** see **Das, Sumit R.**; et al., **91c:81128** and **91c:81129**
- D'Hoker, Eric** (with Phong, D. H.) Conformal scalar fields and chiral splitting on super Riemann surfaces. **91b:81125**
— Equivalence of Liouville theory and 2-D quantum gravity. **91m:81237**
- Di Francesco, P.** (with Distler, Jacques; Kutasov, David) Superdiscrete series coupled to 2D supergravity. **91k:81158**
— (with Kutasov, David) Unitary-minimal models coupled to 2D quantum gravity. **91k:81159**
— see also **Saleur, Hubert**, **91b:81136**
- Dijkgraaf, Robbert** (with Verlinde, Erik; Verlinde, Herman) On moduli spaces of conformal field theories with $c \geq 1$. **91c:81131**
— (with Vafa, Cumrun; Verlinde, Erik; Verlinde, Herman) The operator algebra of orbifold models. **91c:81132**
— (with Witten, Edward) Topological gauge theories and group cohomology. **91g:81133**
- Distler, Jacques** (with Hloutek, Zvonimir; Kawai, Hikaru) Super-Liouville theory as a two-dimensional, superconformal supergravity theory. **91d:81123**
— see also **Di Francesco, P.**; et al., **91k:81158**
- Djebbar, M. Y.** Intermediate scale breaking for orbifold compactified models with tetrahedral point group. **91c:81093**
- Dorey, P. E.** see **Braden, Harry W.**; et al., **91b:81135** and **91b:81150**
- Dorn, H.** (with Otto, H.-J.) On scaling dimensions of vertex operators in conformally gauged 2D quantum gravity. **91b:81126**
- Dotsenko, V. S.** The free field representation of the $su(2)$ conformal field theory. **91k:81139**
- Douglas, Michael R.** (with Seiberg, Nathan; Shenker, Stephen H.) Flow and instability in quantum gravity. **91k:81160**
— see also **Brézin, Édouard**; et al., **91a:81185** and **Banks, Thomas**; et al., **91c:81123**
- Duncan, Anthony** (with Nicolai, H.; Niedermaier, M.) On the Poisson bracket algebra of monodromy matrices. **91g:81134**
- Dunne, Gerald V.** (with Halliday, Ian; Suranyi, Peter) Bosonization of parafermionic conformal field theories. **91f:81174**
- Durganandini, P.** (with Panda, Sudhakar; Sen, Ashoke) Some properties of supercharacters in superconformal field theories. **91f:81175**
— Differential equations for correlators on the torus: two-point correlation function of isospin-1 primary fields in the $k=3$ SU(2) WZW theory. **91m:81241**
- Egorian, E. S.** (with Marvetyan, R. P.) Canonical formulation of 2D induced gravity. (Not in MR)
- Eguchi, Tohru** (with Yang, Sung-Kil) $N=2$ superconformal models as topological field theories. **91g:81135**
- Faddeev, L. D.** On the exchange matrix for WZNW model. **91j:81075**
- Falciati, Fernando** (with Scoppola, Benedetto) Friedan-Shenker bundle from Chern-Simons theory. **91m:81242**
- Fateev, V. A.** (with Zamolodchikov, Aleksandr B.) Conformal field theory and purely elastic S -matrices. **91d:81124**
— see also **Lukyanov, S. L.**, **91g:81143**
- Fehér, L. Gy.** see **Balog, J.**; et al., **91f:81170**
- Felder, Giovanni** (with Fröhlich, Jürg; Keller, Georg) On the structure of unitary conformal field theory. I. Existence of conformal blocks. **91f:81176**
— (with Fröhlich, Jürg; Keller, Georg) Braid matrices and structure constants for minimal conformal models. **91f:81178**
— (with Silvotti, R.) Free field representation of minimal models on a Riemann surface. **91d:81125**
— (with Fröhlich, Jürg; Keller, Georg) On the structure of unitary conformal field theory. II. Representation-theoretic approach. **91f:81177**
- Ferrara, Sergio** (with Bodner, Mark; Cadavid, Ana Cristina) Calabi-Yau supermoduli space, field strength duality and mirror manifolds. **91f:81179**
- Ferretti, G.** Fermions in the topological expansion of matrix models. (Not in MR)
- Finkelstein, R. J.** see **Cadavid, Ana Cristina**, **91a:81186**
- Flume, R.** Wess-Zumino-Witten models and other two-dimensional critical systems. **91c:81094**
— see also **Constantinescu, F.**, **91m:81236**
- Foda, Omar** The Coulomb gas representation of minimal models on Riemann surfaces. **91d:81126**
— Minimal models on Riemann surfaces: the partition functions. **91k:81161**
- Fradkin, E. S.** (with Pal'chik, M. Ya.) Solution of a class of conformal quantum field theory models in D -dimensional space. **91b:81127**

- (with Linetskiĭ, V. Ya.) Higher-spin symmetry in one and two dimensions. I, II. 91f:81072
- (with Linetskiĭ, V. Ya.) Cubic interaction in conformal theory of integer higher-spin fields in four-dimensional space-time. 91f:81100
- (with Linetskiĭ, V. Ya.) A superconformal theory of massless higher spin fields in $D = 2 + 1$. 91g:81136
- Frau, M. (with Lerda, A.; McCarthy, James G.; Sciuto, S.; Sidenius, J.) Free field representation for $SU(2)_k$ WZNW models on Riemann surfaces. 91h:81140
- Fröhlich, Jörg see Felder, Giovanni; et al., 91f:81176; 91f:81177 and 91f:81178
- Fuchs, Jürgen Operator algebra from fusion rules: the infinite number of Ising theories. 91f:81181
- (with Klemm, Albrecht; Scheich, Christoph) The operator algebra of the E_4 type $su(2)$ WZW theory. 91c:81095
- Fukuma, Masafumi (with Takebe, Takashi) The Toda lattice hierarchy and deformations of conformal field theories. 91d:81127
- Furlan, P. (with Ganchev, Alexander Ch.; Petkova, Valentina B.) Fusion matrices and $c < 1$ (quasi) local conformal theories. 91m:81243
- Ganchev, Alexander Ch. (with Petkova, Valentina B.) $U_q(sl(2))$ invariant operators and minimal theories fusion matrices. 91m:81128
- see also Furlan, P.; et al., 91m:81243
- Gato, Beatriz Vertex operators, nonabelian orbifolds and the Riemann-Hilbert problem. 91f:81073
- Gava, Edi (with Stanishkov, M.) On the renormalization group flow in $N = 2$ superconformal models. (Not in MR)
- Gawędzki, Krzysztof Constructive conformal field theory. 91f:81074
- Conformal field theory. 91g:81137
- (with Kupiainen, A.) Coset construction from functional integrals. 91f:81182
- Ge, Mo Lin (with Li, Yu Quan; Xue, Kang) Extended state expansions and the universality of Witten's version of link polynomial theory. 91h:81141
- see also Lee, Hoong Chien; et al., 91d:81131
- Gerasimov, A. A. (with Marshakov, A. V.; Morozov, A. Yu.) Free field representation of parafermions and related coset models. 91m:81244
- Degenerate conformal theories on higher-genus surfaces. 91h:81162
- (with Morozov, A. Yu.; Oshaneskiĭ, M. A.; Marshakov, A. V.; Shatashvili, S. L.) Wess-Zumino-Witten model as a theory of free fields. 91m:81245
- (with Marshakov, A. V.; Morozov, A. Yu.) Hamiltonian reduction of the Wess-Zumino-Witten theory from the point of view of bosonization. 91c:81133
- (with Marshakov, A. V.; Morozov, A. Yu.) On 2D gravity in conformal field theory. 91f:81075
- Gervais, Jean-Loup The quantum group structure of 2D gravity and minimal models. I. 91h:81142
- (with Rostand, Bruno) Two-dimensional gravity and its W_3 -extension: strongly coupled unitary theories. 91j:81076
- see also Bilal, Adel, 91a:81183; 91c:81088 and 91f:81067
- Ghosh, Sasanka A canonical approach to the dynamics of the Wess-Zumino-Witten model. 91j:81077
- see also Bhattacharya, Gautam, 91b:81121
- Ghosh, Subir (with Bhattacharya, Gautam) Systematic derivation of current-algebra structures in anomalous σ models. 91f:81183
- Ginsparg, Paul Applied conformal field theory. 91b:81129
- (with Zinn-Justin, J.) 2D gravity + 1D matter. 91c:81134
- Girardello, L. (with Pasquinucci, A.; Porrati, Massimo) $N = 2$ Morse-Liouville theory and nonminimal superconformal theories. 91m:81246
- Goddard, Peter Meromorphic conformal field theory. 91f:81184
- Gómez, César (with Sierra, Germán) Quantum group meaning of the Coulomb gas. 91f:81076
- (with Sierra, Germán) The quantum symmetry of rational conformal field theories. 91m:81247
- see also Alvarez-Gaumé, L.; et al., 91c:81122
- Goulian, Mark see Bagger, Jonathan, 91h:81134
- Gregory, Ruth Effective actions for bosonic topological defects. (Not in MR)
- Gross, David J. (with Migdal, Alexander A.) A nonperturbative treatment of two-dimensional quantum gravity. 91j:81078
- (with Klebanov, Igor R.) Vortices and the nonsinglet sector of the $c = 1$ matrix model. 91m:81248
- (with Klebanov, Igor R.) Fermionic string field theory of $c = 1$ two-dimensional quantum gravity. (Not in MR)
- Gudagnoli, E. (with Martellini, M.; Mintchev, M.) Wilson lines in Chern-Simons theory and link invariants. 91g:81132
- see also Cotta-Ramusino, P.; et al., 91d:81120 and 91g:81131
- Haba, Zbigniew Generating functional for WZW and related currents. 91d:81128
- Noncompact WZW models as massless (QCD) $_2$ at infinite coupling. 91h:81163
- Halliday, Ian see Dunne, Gerald V.; et al., 91f:81174
- Halpern, M. B. Erratum: "Direct approach to operator conformal constructions: from fermions to primary fields" [Ann. Physics 194 (1989), no. 2, 247–280; MR 90j:81201]. 91c:81135
- Hannabuss, K. C. see Carey, Alan L., 91h:81153
- Harris, Geoffrey R. (with Martinec, Emil J.) Unoriented strings and matrix ensembles. 91m:81249
- Helary-Neto, José A. (with Mokhtari, Susan; Smith, A. William) Quantum gravity in two dimensions and the $SL(2, \mathbb{R})$ current algebra. 91f:81185
- Hernández, Oscar F. Feigin-Fuchs bosonization of Lykken parafermions and $SU(1, 1)$ Kac-Moody algebras. 91c:81136
- Hirayama, Minoru (with Horikawa, Yoshihiro) Fermionized bosons and Szegő's theorem. 91f:81079
- Hloček, Zvonimir see Distler, Jacques; et al., 91d:81123
- Hollowood, Tim (with Mansfield, Paul) Quantum group structure of quantum Toda conformal field theories. I. 91f:81077
- Holman, R. see Boyanovsky, Daniel, 91f:81171
- Hori, Takayuki Lorentz p -brane, superalgebra and conformal invariance. 91h:81130
- Horikawa, Yoshihiro see Hirayama, Minoru, 91j:81079
- Horváth, Zoltán Induced two-dimensional supergravity as a theory of free fields. 91c:81137
- Hou, Bo Yu (with Li, Kang; Wang, Pei) General solutions to fundamental problems of $SU(2)_k$ WZW models. 91f:81078
- Howe, P. S. (with West, Peter C.) $N = 2$ superconformal models, Landau-Ginsburg Hamiltonians and the ϵ expansion. 91c:81138
- Huang, Chao Shang see Ceresole, Anna, 91h:81155
- Hübsch, Tristan Chameleonic σ -models. 91h:81143
- Hughes, James (with Montano, David) Topological gravity on surfaces with boundaries. 91h:81164
- Huhta, K. (with Nemeschansky, Dennis; Yankielowicz, S.) $N = 2$ supersymmetry, coset models and characters. 91g:81138
- Hull, Christopher M. Complex structures and isometries in the $(2, 0)$ supersymmetric nonlinear sigma model. 91f:81079
- (with Spence, B.) The $(2, 0)$ supersymmetric Wess-Zumino-Witten model. 91m:81250
- Gauging the Zamolodchikov \mathcal{W} -algebra. 91f:81186
- Ichinose, Shōichi Renormalization of Polyakov's two-dimensional quantum gravity. (Not in MR)
- Intriligator, Kenneth Bonus symmetry in conformal field theory. 91f:81187
- Ishibashi, Nobuyuki The boundary and crosscap states in conformal field theories. 91a:81189
- Iso, Satoshi (with Itoi, Chigaku; Mukaida, Hisamitsu) Necessity of a finite-size term in the WZW model. 91j:81080
- Ito, Katsushi $N = 2$ super Coulomb gas formalism. 91h:81131
- Itoi, Chigaku see Iso, Satoshi; et al., 91j:81080
- It's, A. R. (with Kitaev, A. V.) Mathematical aspects of the nonperturbative 2D quantum gravity. 91h:81144
- Jacques, Michel (with Saint-Aubin, Yvan) Construction of an infinite set of symmetry transformations acting on the solution space of the CP^{n-1} σ models. 91f:81188
- Jayaraman, T. (with Narain, K. S.) Correlation functions for minimal models on the torus. 91d:81129
- (with Namazie, M. A.; Narain, K. S.; Núñez, Carmen A.; Sarmadi, M. H.) Superconformal minimal models on the torus. 91h:81145
- Julve, J. see Aoyama, S., 91h:81133
- Jurkiewicz, Jerzy Władysław see Ambjørn, Jan; et al., 91m:81228
- Kallosh, Renata Super-Poincaré covariant quantized GS heterotic string as a free conformal theory. 91c:81096
- Kang, Sin Kyu see Lee, Jungja; et al., 91f:81191; Chung, Won-Sang; et al., 91h:81137 and (Not in MR)
- Kani, Iraj (with Vafa, Cumrun) Asymptotic mass degeneracies in conformal field theories. 91f:81080
- Kanie, Y. see Tsuchiya, Akihiro, 91h:81156 and Zamolodchikov, Aleksandr B., 91m:81276
- Kanno, Hiroaki (with Myung, Y. S.) Torsion constraints of $(2, 0)$ supergravity and line integrals on $N = 2$ super Riemann surfaces. 91f:81189
- Karabali, Dimitra (with Park, Q-Han; Schnitzer, Howard J.) Thirring interactions, nonabelian Bose-Fermi equivalences and conformal invariance. 91d:81130
- Karakhanian, D. R. (with Sedrakyan, A. G.) Geometric and current algebra structure of induced 2D gravity. 91f:81081
- Kastor, David see Brooks, Roger, 91m:81232
- Kato, Akishi (with Nakanishi, Tomoki) Differential equations in $g \geq 2$ conformal field theory. 91f:81190
- Kaul, Ramesh K. (with Rajaraman, R.) Path integral quantisation of topological field theories. 91h:81165
- (with Malik, R. P.; Behera, N.) Level-one $SU(3)$ Wess-Zumino model on higher-genus Riemann surfaces. 91a:81190
- Kawai, Hikaru see Distler, Jacques; et al., 91d:81123
- Kawamoto, Noboru (with Sacki, Yuji) Ward identities and differential equations of the $N = 1, 2$ superconformal algebra on the supertorus. 91g:81139
- Kazakov, Vladimir Aleksandrovich¹ External matrix field problem and new multicriticalities in (-2) -dimensional random surfaces. 91m:81251
- see also Brézin, Édouard; et al., 91d:81185
- Keller, Georg see Felder, Giovanni; et al., 91f:81176; 91f:81177 and 91f:81178
- Kikuchi, Yukio see Cordes, Stefan F., 91f:81172; 91h:81138a and 91h:81138b
- Kim, Jae Kwan see Choi, Jae Hoon, 91a:81187; 91d:81119; Lee, Jungja; et al., 91f:81191; Chung, Won-Sang; et al., 91h:81137 and (Not in MR)
- Kim, Jewan (with Lee, Taejin) Two-dimensional quantum gravity and anomalous gauge theory. 91m:81252
- Kim, Jih E. see Chun, E. J., 91f:81070
- Kiritis, Elias B. Analytic aspects of rational conformal field theories. 91g:81140
- Kitaev, A. V. see It's, A. R., 91h:81144
- Klassen, Timothy R. (with Melzer, Ezer) Purely elastic scattering theories and their ultraviolet limits. 91g:81141
- Klebanov, Igor R. (with Wilkinson, Richard B.) Critical potentials and correlation functions in the minus two-dimensional matrix model. 91m:81253
- see also Gross, David J., 91m:81248 and (Not in MR)
- Klemm, Albrecht (with Schmidt, Michael G.) Orbifolds by cyclic permutations of tensor product conformal field theories. 91m:81254
- see also Fuchs, Jürgen; et al., 91c:81095
- Kobayashi, Ken-ichiro (with Uematsu, Tsuneo) Higher integrals of motion in a perturbed $k = 1$ $SU(2)$ Wess-Zumino-Witten theory. 91c:81139
- Kodaira, Jiro (with Sasai, Yuji; Sato, Harutada) On the higher order corrections in the integrals of motion away from criticality. 91h:81132
- (with Sasai, Yuji; Sato, Harutada) Conservation laws away from criticality beyond the lowest order. 91g:81142
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) Two-particle scattering in the Chern-Simons-Witten theory of gravity in $2 + 1$ dimensions. 91f:81082
- Koh, In Gyu (with Ouvry, Stéphane; Todorov, Ivan T.) Quantum dimensions and modular forms in chiral conformal theory. 91h:81146
- see also Choi, T. S.; et al., 91a:81188
- Kubo, Reijiro (with Ojima, Shuichi; Paul, Samir K.; Yoshii, Hiashihiro) Quantum field theory

- on higher-genus Riemann surfaces. 91c:81140
- Kunimasa, Tetsuaki (with Saito, Takeshi) Schwarzian derivative and connection in Krichever-Novikov algebra. 91k:81166
- Kunitomo, Hiroshi (with Otake, Satoru) Nonperturbative analysis of the three matrix model. 91k:81167
- Kupershmidt, Boris A. (with Mathieu, Pierre) Quantum Korteweg-de Vries like equations and perturbed conformal field theories. 91a:81191
- Kuplaine, A. see Gawędziński, Krzysztof, 91f:81182
- Kuramoto, Tetsuji Two-dimensional supergravity in the super light-cone gauge coupling to a superconformal field theory. 91m:81255
- Kutasov, David (with Seiberg, Nathan) Noncritical superstrings. 91j:81081
- see also Di Francesco, P.; et al., 91k:81158 and 91k:81159
- Kuwahara, Masanori (with Ohta, Nobuyoshi; Suzuki, Hisao) Conformal field theories realized by free fields. 91k:81083
- La, HoSeong Method of orbits and Virasoro Ward identity. 91m:81256
- Lahastida, J. M. F. Morse theory interpretation of topological quantum field theories. 91a:81192
- Lacki, Jan Algèbres de dimension infinie, groupes des tresses et groupes quantiques dans les théories conformes à deux dimensions. [Infinite-dimensional algebras, braid groups and quantum groups in two-dimensional conformal theories] 91i:81084
- Latorre, José I. see Cappelli, Andrea, 91m:81233
- Leaf-Herrmann, W. A. Perturbation theory near $N = 2$ superconformal fixed points in two-dimensional field theory. (Not in MR)
- Leblanc, M. (with Madsen, P.; Mann, Robert B.; McKeon, D. G. C.) The bosonic sigma model on a compact surface. (Not in MR)
- LeClair, André Taming the integrable zoo. (see 91m:17024)
- see also Bernard, Denis, 91k:81149
- Lee, Hoeng Chien (with Ge, Mo Lin; Couture, Michel Josephat; Wu, Yong Shi) Strange statistics, braid group representations and multipoint functions in the N -component model. 91d:81131
- Lee, Jungjai (with Chung, Won-Sang; Kang, Sin Kyu; Kim, Jae Kwan) Two-dimensional quantum gravity and current algebra on a torus. 91f:81191
- see also Chung, Won-Sang; et al., 91k:81137 and (Not in MR)
- Lee, Taejin see Kim, Jeevan, 91m:81252
- Lerche, Wolfgang (with Vafa, Cumrun; Warner, Nicholas P.) Chiral rings in $N = 2$ superconformal theories. 91d:81132
- Lerda, A. see Frau, M.; et al., 91b:81140
- Li, Kang see Hou, Bo Yu; et al., 91k:81078
- Li, Keke Some Landau-Ginzburg models from conformal field theory. 91c:81141
- Construction of topological W gravity. 91k:81168
- Li, Miao (with Yu, Ming) Braiding matrices, modular transformations and topological field theories in $2 + 1$ dimensions. 91f:81192
- (with Yu, Ming) Duality ensures modular covariance. 91h:81147
- (with Yu, Ming) Modular transformations of conformal blocks in WZW models on Riemann surfaces of higher genus. 91k:81169
- Li, Yu Quan see Ge, Mo Lin; et al., 91h:81141
- Ljmitski, V. Ya. see Fradkin, E. S., 91f:81180; 91g:81136 and 91k:81072
- Love, Alex see Ballia, David, 91m:81230
- Lugo, Adrian R. Vertex operators for the closed bosonic string theory at arbitrary genus in the operator formalism. 91k:81170
- see also Bonora, Lorian; et al., 91a:81184
- Luk'yanov, S. L. (with Fateev, V. A.) Exactly soluble models of conformal quantum field theory associated with the simple Lie algebra D_n . 91g:81143
- Mack, Gerhard Introduction to conformal invariant quantum field theory in two and more dimensions. 91d:81133
- Madsen, P. see Leblanc, M.; et al., (Not in MR)
- Mala, M. D. see Caldeira, A., 91b:81124
- Mallea, G. see Cristofano, G.; et al., 91d:81121
- Makienko, Yu. M. Complex-matrix model and 2D quantum gravity. 91m:81257
- see also Ambjørn, Jan, 91k:81065 and 91m:81228
- Malik, R. P. see Kaul, Romesh K.; et al., 91a:81190
- Mandal, Gantam Phase structure of unitary matrix models. 91c:81142
- Mann, Robert B. see Leblanc, M.; et al., (Not in MR)
- Mansfield, Paul Conformally extended Toda theories. 91g:81144
- see also Hollowood, Tim, 91k:81077
- Mansouri, F. see Koehler, Kenneth Rowland; et al., 91k:81082
- Manvelyan, R. P. see Egorian, E. S., (Not in MR)
- Marinari, Enzo (with Parisi, Giorgio) A nonperturbative definition of 2D quantum gravity. 91h:81148
- Marshakov, A. V. (with Morozov, A. Yu.) Landau-Ginzburg models with $N = 2$ supersymmetry as conventional conformal theories. 91h:81133
- (with Morozov, A. Yu.) A note on W_3 algebra. 91k:81171
- see also Gerasimov, A. A.; et al., 91c:81133; 91k:81075; 91m:81244 and 91m:81245
- Martellini, M. see Cotta-Ramusino, P.; et al., 91d:81120; 91g:81131 and Guadagnini, E.; et al., 91g:81132
- Martinec, Emil J. String calculus: conformal field theory as a tool in string theory. 91c:81097
- see also Harris, Geoffrey R., 91m:81249
- Marzban, Caren Morse theory applied to $N = 1$ and 2 superconformal theories. 91h:81149
- Mathieu, Pierre Integrability of perturbed superconformal minimal models. 91k:81172
- see also Kupershmidt, Boris A., 91a:81191
- Matone, Marco see Bonora, Lorian; et al., 91a:81184
- Matsumoto, Yutaka Remarks on fractal W -gravity. 91c:81143
- Operator formalism in the light cone gauge and Green functions on the torus. 91k:81085
- McCarthy, James G. see Frau, M.; et al., 91k:81140 and Deser, S., 91k:81071
- McKeon, D. G. C. see Leblanc, M.; et al., (Not in MR)
- Medvedev, P. B. see Arefeva, I. Ya., 91a:81182
- Melzer, Ezer see Klassen, Timothy R., 91g:81141
- Migdal, Alexander A. see Gross, David J., 91j:81078
- Mintchev, M. see Cotta-Ramusino, P.; et al., 91d:81120; 91g:81131 and Guadagnini, E.; et al., 91g:81132
- Mironov, A. D. (with Zabrodin, A. V.) Finite size effects in conformal field theories and nonlocal operators in one-dimensional quantum systems. (see 91k:81002)
- (with Morozov, A. Yu.) On the origin of Virasoro constraints in matrix models: Lagrangian approach. 91m:81258
- Mohammed, Nouredine Equivalence of two-dimensional gravities. 91c:81144
- Mokhtari, Susan see Helayël-Neto, José A.; et al., 91f:81185
- Montano, David (with Aoki, Kenichiro; Sonnenschein, Jacob) Topological supergravity in two dimensions. 91m:81259
- see also Hughes, James, 91k:81164
- Moore, Gregory W. (with Reshetikhin, N. Yu.) A comment on quantum group symmetry in conformal field theory. 91c:81145
- Moreno, Enrique Francisco see Cabra, D.; et al., 91c:81126
- Morozov, A. Yu. (with Perelomov, A. M.; Roslyi, A. A.; Shifman, M. A.; Turbiner, A. V.) Quasi-exactly-solvable quantal problems: one-dimensional analogue of rational conformal field theories. 91d:81134
- (with Shifman, M. A.; Turbiner, A. V.) Continuous Sugawara-like realization of $c = 1$ conformal models. 91g:81145
- Integrable systems and two-loop algebras in string theory. 91m:81260
- see also Marshakov, A. V., 91k:81133; Gerasimov, A. A.; et al., 91c:81133; 91k:81075; Marshakov, A. V., 91k:81171; Gerasimov, A. A.; et al., 91m:81244; 91m:81245 and Mironov, A. D., 91m:81258
- Mukaida, Hisamitsu see Iso, Satoshi; et al., 91j:81080
- Musardo, Giuseppe see Christe, P., 91c:81090; Cardy, John L., 91k:81152 and Christe, P., 91m:81235
- Musto, R. see Cristofano, G.; et al., 91d:81121
- Myers, Robert C. New observables for topological gravity. 91k:81173
- (with Periwal, Vipul) Topological gravity and moduli space. 91m:81261
- (with Periwal, Vipul) Orientability of random surfaces. 91k:81174
- Myung, Y. S. Correlation function for $N = 1$ superconformal models on the super-torus. 91d:81135
- see also Kanno, Hiroaki, 91f:81189
- Naculich, Stephen G. (with Schnitzer, Howard J.) Constructive methods for higher-genus correlation functions of level-one simply-laced WZW models. 91j:81082
- (with Schnitzer, Howard J.) Duality between $SU(N)_k$ and $SU(k)_N$ WZW models. 91k:81175
- (with Schnitzer, Howard J.) Duality relations between $SU(N)_k$ and $SU(k)_N$ WZW models and their braid matrices. 91g:81146
- (with Riggs, H. A.; Schnitzer, Howard J.) Group-level duality in WZW models and Chern-Simons theory. 91h:81150
- Nakanishi, Tomoki see Kato, Akishi, 91f:81190
- Nam, Soonkeon Nonunitary supersymmetric conformal field theories and supersymmetric sine-Gordon equation. 91k:81176
- Perturbed $c > 1$ conformal field theories and generalized Toda field theories. 91g:81147
- Namazi, M. A. see Jayaraman, T.; et al., 91h:81145
- Nappi, Chiara R. Painlevé II and odd polynomials. 91m:81262
- Narain, K. S. see Jayaraman, T., 91d:81129 and 91h:81145
- Nemeschansky, Dennis see Hultin, K.; et al., 91g:81138
- Neveu, A. (with West, Peter C.) Vertex operator construction of unitary conformal theories. 91h:81134
- Nicodemi, F. see Cristofano, G.; et al., 91d:81121
- Nicolai, L. see Duncan, Anthony; et al., 91g:81134
- Niedermair, M. Quantum integrability of perturbed Virasoro-degenerate conformal models. 91f:81193
- see also Duncan, Anthony; et al., 91g:81134
- van Nieuwenhuizen, Peter see Schoutens, Kareljan; et al., (91m:17024)
- Nézet, Carmen A. see Jayaraman, T.; et al., 91h:81145
- Odake, Satoru see Kunitomo, Hiroshi, 91k:81167
- Ohta, Nobuyoshi (with Suzuki, Hisao) $N = 2$ superconformal models and their free field realization. 91m:81263
- see also Kuwahara, Masanori; et al., 91k:81083
- Ojima, Shuichi see Kubo, Reijiro; et al., 91c:81140
- Ofshanski, M. A. see Gerasimov, A. A.; et al., 91m:81245
- Oguri, Hiroshi Conformal field theory on a Riemann surface. 91k:81086
- Orland, Peter Testing the Bethe ansatz for straight strings in $(2 + 1)$ dimensions. 91h:81151
- Ortiz, T. A proof of BRST invariance. 91f:81194
- Otto, H.-J. see Dorn, H., 91h:81126
- Ouvry, Stéphane see Koh, In Gyu; et al., 91h:81146
- Paffuti, Giampiero see Bondi, Alessandro; et al., 91k:81068
- Pal'chik, M. Ya. see Fradkin, E. S., 91h:81127
- Palmer, John (with Tracy, Craig A.) Monodromy preserving deformation of the Dirac operator acting on the hyperbolic plane. 91m:81264
- Panda, Sudhakar Fractional level current algebras and spectrum of $C < 1$ minimal models coupled to gravity. 91j:81083
- see also Durganandini, P.; et al., 91f:81175
- Parisi, Giorgio see Marinari, Enzo, 91h:81148
- Park, B. C. see Choi, T. S.; et al., 91a:81188
- Park, Q-Han see Karabali, Dimitris; et al., 91d:81130
- Pasquier, V. (with Saleur, Hubert) Common structures between finite systems and conformal field theories through quantum groups. 91c:81146
- Pasquinucci, A. see Girardello, L.; et al., 91m:81246
- Paul, Samir K. see Kubo, Reijiro; et al., 91c:81140
- Pavlov, Roman (with Todorov, Ivan T.) Rational conformal field theories and Zamolodchikov-Fateev parafermions. (German summary) 91f:81195
- see also Crnković, Čedomir; et al., 91f:81173
- Pelissetto, Andrea see Caracciolo, Sergio; et al., 91g:81130
- Perelomov, A. M. see Morozov, A. Yu.; et al., 91d:81134
- Periwal, Vipul (with Shevitz, Daniel) Exactly solvable unitary matrix models: multicritical potentials and correlations. 91m:81265

- see also Myers, Robert C., 91k:81174 and 91m:81261
- Petkova, Valentina B. Structure constants of the (A, D) minimal $c < 1$ conformal models. 91b:81135
- see also Ganchev, Alexander Ch., 91b:81128 and Furlan, P.; et al., 91m:81243
- Phong, D. H. see D'Hoker, Eric, 91b:81125
- Piette, Bernard (with Zakrzewski, Wojciech J.) Finite energy solutions for $(1+1)$ -dimensional σ models. 91d:81136
- Poghossian, R. H. Operator algebra in two-dimensional conformal field theory containing spin $4/3$ "parafermionic" conserved currents. 91m:81266
- Polyakov, A. M. Two-dimensional quantum gravity. Superconductivity at high T_C . 91k:81177
- Self-tuning fields and resonant correlations in 2d-gravity. 91m:81267
- Ponzano, G. see Caselle, M., 91b:81136 and 91b:81069
- Pope, C. N. see Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Poratti, Massimo see Girardello, L.; et al., 91m:81246
- Qiu, Zangan see Awada, Moustafa A., 91m:81229
- Rai, Balram (with Rodgers, V. G. J.) From coadjoint orbits to scale invariant WZNW type actions and 2D quantum gravity action. 91b:81152
- Rajaraman, R. see Kaul, Ramesh K., 91k:81165
- Rakowski, Mark T. see Birmingham, Danny, 91j:81074
- Ramirez Romero, Cupatitzio (with Ruegg, H.; Ruiz-Altaba, M.) Explicit quantum symmetries of WZNW theories. 91b:81087
- Ravanini, F. see Caselle, M.; et al., 91b:81069
- von Reichenbach, Cecilia see Cabra, D.; et al., 91c:81126
- Reshetikhin, N. Yu. (with Smirnov, F. A.) Hidden quantum group symmetry and integrable perturbations of conformal field theories. 91b:81196
- see also Moore, Gregory W., 91c:81145
- Riggs, H. A. see Naculich, Stephen G.; et al., 91b:81150
- del Rio Gastelurrutia, T. The behaviour of the $O(3)$ sigma model at $\theta = \pi$. 91k:81153
- Rivlis, Gil Classification of 2- and 3-field rational conformal field theories. 91m:81268
- Roberts, Patrick Modular invariance of minimal models from self-dual lattices. 91j:81084
- Rodgers, V. G. J. see Rai, Balram, 91b:81152
- Romans, L. J. see Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Rosly, A. A. see Morozov, A. Yu.; et al., 91b:81134
- Rossi, Paolo¹ see Bondi, Alessandro; et al., 91b:81068
- Rostand, Bruno On multicritical lattice/orbifold models. 91m:81269
- see also Gervais, Jean-Loup, 91b:81076
- Roy, Shihaji Superconformal anomaly on the superhorizon. 91m:81270
- Ruegg, H. see Ramirez Romero, Cupatitzio; et al., 91b:81087
- Rühl, W. Irreducible automorphic functions and the n -point functions of conformal field theory. 91a:81193
- Ruiz-Altaba, M. see Ramirez Romero, Cupatitzio; et al., 91b:81087
- Russo, Jorge G. see Bonora, Lorian; et al., 91a:81184
- Saeki, Yuji see Kawamoto, Noboru, 91g:81139
- Saidi, E. H. (with Zakkari, M.) $N = 4$ SU(2) conformal invariance in harmonic superspace: the super-Schwarzian derivative. 91g:81148
- Saint-Aubin, Yvan see Jacques, Michel, 91f:81188
- Saito, Takeshi see Kunimasa, Tosaku, 91k:81166
- Saleur, Hubert (with Di Francesco, P.) Two-dimensional critical models on a torus. 91b:81136
- see also Pasquier, V., 91c:81146 and Altschüler, Daniel; et al., 91k:81145
- Samuel, Stuart see Blum, Robert, 91b:81122
- Sarmadi, M. H. see Jayaraman, T.; et al., 91b:81145
- Sasai, Yuji see Kodaira, Jiro; et al., 91b:81132 and 91g:81142
- Sasaki, Ryu see Braden, Harry W.; et al., 91k:81135 and 91k:81150
- Sato, Harutada Free q -bosonic representation of the energy-momentum tensor away from criticality. 91k:81178
- see also Kodaira, Jiro; et al., 91b:81132 and 91g:81142
- Scheich, Christoph see Fuchs, Jürgen; et al., 91b:81095
- Schellekens, A. N. (with Yankielowicz, S.) Extended chiral algebras and modular invariant partition functions. 91g:81149
- (with Yankielowicz, S.) Field identification fixed points in the coset construction. 91a:81194
- (with Yankielowicz, S.) New modular invariants for $N = 2$ tensor products and four-dimensional strings. 91g:81150
- (with Yankielowicz, S.) Exceptional modular invariants of $N = 2$ tensor products. 91f:81197
- Fusion rule automorphisms from integer spin simple currents. 91g:81151
- Schimmrigk, Rolf Geometric formulation of nonperturbative 2D quantum gravity. 91m:81271
- Schlösser, Frank The Knizhnik-Polyakov-Zamolodchikov equation in induced quantum (super)gravity. 91m:81272
- Schmidt, Michael G. see Klemm, Albrecht, 91m:81254
- Schnitzer, Howard J. A path integral construction of superconformal field theories from a gauged supersymmetric Wess-Zumino-Witten action. 91b:81154
- see also Karabali, Dimitris; et al., 91d:81130; Naculich, Stephen G., 91g:81146; 91b:81150; 91j:81082 and 91k:81175
- Schoutens, Kareljan Supersymmetry and factorizable scattering. 91b:81088
- (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Towards a theory of H_3 gravity. (see 91m:17024)
- Schwarz, John H. Superconformal symmetry in string theory. (see 91m:81005)
- Sciuto, S. see Fran, M.; et al., 91b:81140
- Scoppola, Benedetto see Falceto, Fernando, 91m:81242
- Sedrakyan, A. G. see Karakanyan, D. R., 91b:81081
- Seiberg, Nathan see Banks, Thomas; et al., 91c:81123; Kutasov, David, 91j:81081 and Douglas, Michael R.; et al., 91k:81160
- Semikhatov, A. M. An operator formalism for the $\beta\gamma$ systems on Riemann surfaces. 91k:81155a
- Errata: "An operator formalism for the $\beta\gamma$ systems on Riemann surfaces". 91k:81155b
- Operator bosonization on Riemann surfaces: genus-changing processes. 91m:81273
- The "supersymmetric" bosonization and phase II of the superghost system on Riemann surfaces. 91c:81147
- Sen, Ashoke see Durganandini, P.; et al., 91f:81175
- Sénéor, Roland On V. Pasquier $A-D-E$ models. 91d:81137
- Sengupta, Anirvan M. see Das, Samit R.; et al., 91c:81129
- Serrin, Alexander (with Theodoridis, Georgios) $N = 4$ superconformal coset theories. 91j:81085
- see also Schoutens, Kareljan; et al., (91m:17024)
- Sergin, Ergin see Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Shatashvili, S. L. see Alekseev, A. Yu., 91b:81064 and Gerasimov, A. A.; et al., 91m:81245
- Shen, Xiang see Bergshoeff, E. A.; et al., 91k:81148 and 91m:81231
- Shenker, Stephen H. see Brézin, Edouard; et al., 91a:81185; Banks, Thomas; et al., 91c:81123 and Douglas, Michael R.; et al., 91k:81160
- Shervitz, Daniel see Perlmutter, Vipul, 91m:81265
- Shifman, M. A. see Morozov, A. Yu.; et al., 91d:81134 and 91g:81145
- Shin, H. J. see Choi, T. S.; et al., 91a:81188
- Sidenius, J. see Fran, M.; et al., 91b:81140
- Sierra, Germán see Alvarez-Gaumé, L.; et al., 91c:81122; Gómez, César, 91b:81076 and 91m:81247
- Silvotti, R. see Felder, Giovanni, 91d:81125
- Smirnov, F. A. The perturbed $c < 1$ conformal field theories as reductions of sine-Gordon models. 91a:81195
- see also Reshetikhin, N. Yu., 91b:81196
- Smith, A. William see Helayir-Neto, José A.; et al., 91f:81185
- Sokal, Alan D. see Caracciolo, Sergio; et al., 91g:81130
- Sonnenschein, Jacob see Montano, David; et al., 91m:81259
- Sotkov, G. M. see Crnković, Čedomir; et al., 91f:81173
- Spence, B. see Hull, Christopher M., 91m:81250
- Stanishkov, M. see Crnković, Čedomir; et al., 91f:81173 and Gava, Edil, (Not in MR)
- Stelle, K. S. see Bergshoeff, E. A.; et al., 91m:81231
- Suranyi, Peter Modular invariance and bosonic constructions. 91b:81137
- see also Dunne, Gerald V.; et al., 91f:81174
- Suzuki, Hisao see Kawahara, Masanori; et al., 91b:81083 and Ohta, Nobuyoshi, 91m:81263
- Takebe, Takashi see Fukuma, Masafumi, 91d:81127
- Tanaka, Katsumi¹ Solvable two-dimensional supersymmetric models and the supersymmetric Virasoro algebra. 91k:81179
- Theodoridis, Georgios see Serrin, Alexander, 91j:81085
- Todorov, Ivan T. see Pannov, Roman, 91f:81195 and Koh, In Gyu; et al., 91b:81146
- Toms, David J. see Burgess, Mark, (Not in MR)
- Tracy, Craig A. see Palmer, John, 91m:81264
- Tseytlin, A. A. Two-dimensional quantum gravity and strings. 91c:81148
- Tsuchiya, Akihiro (with Kanie, Y.) Errata to: "Vertex operators in conformal field theory on P^1 and monodromy representations of braid group" [in *Conformal field theory and solvable lattice models* (Kyoto, 1986), 297–372, Academic Press, Boston, MA, 1988; MR 89m:81166]. 91k:81156
- Turbineer, A. V. see Morozov, A. Yu.; et al., 91d:81134 and 91g:81145
- Uematsu, Tsuneo see Kobayashi, Ken-ichiro, 91c:81139
- Vafa, Cumrun Conformal algebra of Riemann surfaces. (see 91k:81003)
- see also Dijkgraaf, Robbert; et al., 91c:81132; Lerche, Wolfgang; et al., 91d:81132 and Kani, Iraj, 91i:81080
- Valtancoli, Paolo Duality of RCFE and integrability. 91b:81089
- Van Proeyen, Antoine see de Wit, B., 91m:81274
- Vaz, Cenalo see Koehler, Kenneth Rowland; et al., 91b:81082
- de Vega, H. J. see Destri, C., 91d:81122 and 91c:81092
- Verlinde, Erik see Dijkgraaf, Robbert; et al., 91c:81131 and 91c:81132
- Verlinde, Herman Conformal field theory, two-dimensional quantum gravity and quantization of Teichmüller space. 91c:81149
- see also Dijkgraaf, Robbert; et al., 91c:81131 and 91c:81132
- Wadia, Spenta R. see Das, Samit R.; et al., 91c:81128 and 91c:81129
- Walton, Mark A. Fusion rules in Wess-Zumino-Witten models. 91g:81152
- Algorithm for WZW fusion rules: a proof. 91k:81180a
- Errata: "Algorithm for WZW fusion rules: a proof". 91k:81180b
- see also Ahn, Changrim, 91c:81121
- Wang, Pei see Hou, Bo Yu; et al., 91b:81078
- Warner, Nicholas P. see Lerche, Wolfgang; et al., 91d:81132
- West, Peter C. see Neves, A., 91b:81134 and Howe, P. S., 91c:81138
- Wilkinson, Richard B. see Klebanov, Igor R., 91m:81253
- de Wit, B. (with Van Proeyen, Antoine) Symmetries of dual-quaternionic manifolds. 91m:81274
- Witten, Edward see Dijkgraaf, Robbert, 91g:81133
- Witten, L. see Koehler, Kenneth Rowland; et al., 91b:81082
- Wu, Yong Shi¹ see Lee, Hoong Chien; et al., 91d:81131
- Wyller, D. see Chamseddine, A. H., 91k:81156
- Xu, Kai Wen (with Zhao, Zhi Yong) $N = 2$ superconformal algebra, Ward identities and differential equations for correlators on super-Riemann surfaces. 91m:81275
- Xue, Kang see Ge, Me Lin; et al., 91k:81141
- Yamaguchi, Masahiro Gauge deformations of conformal field theories and Zamolodchikov's c -function. 91k:81181
- Yang, Sung-Kil see Eguchi, Tohru, 91g:81135
- Yang, Zhu BRS analysis of 2D gravity models. 91b:81138
- Yankielowicz, S. see Schellekens, A. N., 91a:81194; 91f:81197; Hultin, K.; et al., 91g:81138; Schellekens, A. N., 91g:81149 and 91g:81150
- Yoshii, Hisahiro see Kuba, Reijiro; et al., 91b:81140
- Yau, Chung-Ki see Chung, Wen-Sang; et al., 91b:81137
- Yu, Ming see Li, Miao, 91f:81192; 91b:81147 and 91k:81169
- Zabrodin, A. V. Critical exponents of one-dimensional models in lattice field theory. 91b:81157
- see also Mironov, A. D., (91i:81002)
- Zakkari, M. see Saidi, E. H., 91g:81148
- Zakrzewski, Wojciech J. see Piette, Bernard, 91d:81136

- Zamolodchikov, Aleksandr B. Selected topics in conformal field theory. 91c:81150
 — Integrable field theory from conformal field theory. 91b:81139
 — Exact solutions of conformal field theory in two dimensions and critical phenomena. 91m:81276
 — Two-point correlation function in scaling Lee-Yang model. (Not in MR)
 — see also Fateev, V. A., 91d:81124
 Zen, Freddy Perna. Universality of the matrix model approach to two-dimensional quantum gravity. (Not in MR)
 Zhang, De Hai. Spin-4 extended conformal algebra. 91a:81196
 Zhao, Zhi Yong. see Xu, Kai Wen, 91m:81275
 Zhu, Chuan Jie. see Chair, Noureddine, 91m:81234
 Zinn-Justin, J. see Ginsparg, Paul, 91c:81134
 Zuber, J.-B. Conformal invariant theories on a torus and their modular invariance. 91c:81151
 — Conformal field theory and applications. (see 91k:81003)
 Zucchini, R. An operator formulation of orbifold conformal field theory. 91e:81098
- Items with secondary classifications in 81T40
- Affleck, Ian (with Gepner, Doron; Schulz, H. J.; Ziman, T.) Corrigendum: "Critical behaviour of spin- s Heisenberg antiferromagnetic chains: analytic and numerical results" [J. Phys. A 22 (1989), no. 5, 511–529; MR 90c:81147]. (Not in MR)
 Agstein, Michael E. (with Migdal, Alexander A.) Recursive sampling of planar graphs and fractal properties of a two-dimensional quantum gravity. 91g:81160
 — (with Migdal, Alexander A.) Geometry of a two-dimensional quantum gravity: numerical study. 91f:83034
 Ahn, Chang-Jun (with Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk; Kim, Won Tae; Cho, Byung Ha) Two-dimensional quantum gravity in the conformal gauge. 91e:83051
 Alcaraz, Francisco Castillo. Conformal invariance and the XXZ Hamiltonian. 91a:82011
 — (with Martins, Márcio José) The spin- S XXZ quantum chain with general toroidal boundary conditions. 91e:82011
 Alnawiser, Aziz. Supergravity with $N = 2$ in two dimensions. 91c:83041
 Altschüler, Daniel (with Bauer, Michel; Itzykson, Claude) The branching rules of conformal embeddings. 91j:17032
 Alvarez-Gaumé, L. Quantum groups and conformal field theories. (see 91m:00033)
 Ambjørn, Jan. 2D gravity and noncritical strings from random surfaces. (see 91j:81003)
 — (with Durhuus, Bergfinnur; Jónsson, Þórður) Summing over all genera for $d > 1$: a toy model. 91m:81178
 Aneziris, C. (with Balachandran, A. P.; Bourdeau, Michelle Hilda; Jo, S.-G.; Sorkin, R. D.; Ramadas, T. R.) Aspects of spin and statistics in generally covariant theories. 91e:81108
 Argyres, E. N. (with Papadopoulos, C. G.; Floratos, E. G.) A note on the connection between the $SL(2, \mathbb{R})$ current algebra and general covariance. 91g:81039
 Aspinwall, P. S. (2, 2)-superconformal field theories near orbifold points. 91e:14049
 — (with Lütken, C. A.; Ross, Graham G.) Construction and couplings of mirror manifolds. 91g:81107
 Awada, Moustafa A. (with Qiu, Zongang) Nonperturbative 2D quantum gravity and the generalized KdV hierarchy. 91g:58102
 Babelon, O. (with Viallet, C.-M.) Hamiltonian structures and Lax equations. 91m:58072
 Bachas, C. (with Petropoulos, P. M. S.) Doubling of equations and universality in matrix models of random surfaces. 91k:81115
 Bakas, Ioannis. Higher spin fields and the Gelfand-Dickey [Dikiĭ] algebra. 91g:58103
 — The structure of the W_∞ algebra. 91j:17026
 — (with Kiritsis, Elias B.) Bosonic realization of a universal W -algebra and Z_∞ parafermions. 91m:81082a
 — (with Kiritsis, Elias B.) Erratum: "Bosonic realization of a universal W -algebra and Z_∞ parafermions". 91m:81082b
 Balachandran, A. P. see Aneziris, C.; et al., 91e:81108
 Balog, J. see Forgács, P.; et al., 91b:81046
 Bandopadhyay, Pratul (with Hajra, Kohnur; Ghosh, Pradip) Stochastic field theory, holomorphic quantum mechanics, and supersymmetry. 91d:81047
 Banks, Thomas (with Lykken, Joseph D.) String theory and two-dimensional quantum gravity. 91c:81093
 Baranowski, D. (with Rittenberg, V.) The operator content of the ferromagnetic and antiferromagnetic spin-1 Zamolodchikov-Fateev quantum chain. 91e:82010
 Bars, Itzhak (with Nemeschansky, Dennis) String propagation in backgrounds with curved space-time. 91k:81121
 Barvinkii, A. O. (with Vilkovskii, G. A.) Covariant perturbation theory. II. Second order in the curvature. General algorithms. 91g:81092
 — (with Vilkovskii, G. A.) Covariant perturbation theory. III. Spectral representations of the third-order form factors. 91g:81093
 Bauer, Michel (with Itzykson, Claude) Modular transformations of $SU(N)$ affine characters and their commutants. 91k:17024
 — (with Itzykson, Claude) A case study in finite groups: $PSL_2(\mathbb{F}_7)$. 91h:20070
 — see also Altschüler, Daniel; et al., 91j:17032
 Bauleu, Laurent (with Singer, Isadore) The topological sigma model. 91b:81153
 — (with Bilal, Adel; Pico, Marco) Stochastic quantization of 2D gravity and its link with 3D gravity and topological 4D gravity. 91k:81073
 Bazhanov, V. V. (with Reshetikhin, N. Yu.) Critical RSOS models and conformal field theory. 91d:82007
 — (with Reshetikhin, N. Yu.) Restricted solid-on-solid models connected with simply laced algebras and conformal field theory. 91f:82012
 Belavin, A. A. KdV-type equations and W -algebras. 91j:58070
 — see also Problems of modern quantum field theory, 91e:81002
 Bern, Zvi (with Dunbar, David C.) Conformal field theory on surfaces with boundaries and nondiagonal modular invariants. 91j:32023
 Bernard, Denis (with Felder, Giovanni) Fock representations and BRST cohomology in $SL(2)$ current algebra. 91g:17022
 Beyer, Horst (with Nitsch, Jürgen) A note on a Casimir effect in a uniformly accelerated reference frame. 91d:81087
 Bilal, Adel. A note on super W -algebras. 91b:81045
 — What is W -geometry? 91k:81053
 — see also Bauleu, Laurent; et al., 91k:81073
 Birmingham, Danny (with Rakowski, Mark T.; Thompson, George) Renormalization of topological field theory. 91d:81075
 — (with Cho, Hing Tong; Kantowski, R.; Rakowski, Mark T.) Gauge dependence of the η function in Chern-Simons field theory and the Vilkovisky-DeWitt correction. 91m:81157
 Bian, Matthias (with Thompson, George) A new class of topological field theories and the Ray-Singer torsion. 91h:53089
 Bonora, Loris (with Matone, Marco) KdV equation on Riemann surfaces. 91g:58105
 — (with Matone, Marco; Toppan, Francesco; Wu, Ke) Real weight b - c systems and conformal field theory in higher genus. 91e:14035
 Bos, Michiel (with Nair, V. P.) Coherent state quantization of Chern-Simons theory. 91a:81203
 Botelho, Luiz C. L. Topological fermionic string representation for Chern-Simons nonabelian gauge theories. 91g:81109
 Bourdeau, Michelle Hilda. see Aneziris, C.; et al., 91e:81108
 Bouwknegt, Peter (with McCarthy, James G.; Pilch, Krzysztof) Free field realizations of WZNW models. The BRST complex and its quantum group structure. 91c:17017
 Boyanovsky, Daniel (with Naón, C. M.) An introduction to conformal invariance in quantum field theory and statistical mechanics. 91b:81001
 Brézin, Édouard (with Neuberger, H.) Multicritical points of unoriented random surfaces. 91m:81179
 (Brink, L.) see Physics and mathematics of strings, 91m:81006
 Buhkinder, I. L. (with Shapiro, I. L.; Yagunov, E. G.) Asymptotic conformal invariance of $SU(N)$ models of quantum field theory in curved space-time. 91c:81080
 (Bytsenko, A. A.) see West, Peter C., 91f:81003
 Candelas, Philip (with Lynker, Monika; Schimmrigk, Rolf) Calabi-Yau manifolds in weighted P_4 . 91m:14062
 Cardy, John L. Conformal invariance and statistical mechanics. 91f:81001
 Carey, Alan L. (with Eastwood, M. G.; Hannabuss, K. C.) Riemann surfaces, Clifford algebras and infinite-dimensional groups. 91e:17026
 Caselle, M. (with Ponzano, G.) Modular invariance and fusion rule algebras: classification of the three-operator case. 91m:81083
 Cateau, Hideyuki. l -reduction and twisted conformal field theory. 91f:58060
 Chaichian, M. (with Kulish, P. P.; Lukierski, Jerzy) q -deformed Jacobi identity, q -oscillators and q -deformed infinite-dimensional algebras. 91m:17014
 Chang, Darwin (with Kumar, Alok²; Wang, Jin) Search for extended conformal algebra. 91f:81055
 Chang, Zhe (with Guo, Han Ying; Shen, Jian Min; Wang, Shi Kun; Wu, Ke; Xu, Kai Wen) Operator formalism of the multi-pole Virasoro algebra on a Riemann sphere. 91f:17032
 Chen, Su Qing. see Lin, Yu Liang; et al., 91g:81045
 Cherednik, I. V. Generalized braid groups and local r -matrix systems. 91d:17016
 Cho, Byung Ha. see Ahn, Chang-Jun; et al., 91e:83051 and Kim, T. W.; et al., 91g:81120
 Cho, Hing Tong. see Birmingham, Danny; et al., 91m:81157
 Chung, Won-Sang (with Kang, Sin Kyu; Lee, Jungja; Kim, Jae Kwan) Extended $N = 2$ superconformal algebra. 91a:81080
 — (with Kim, Jae Kwan) BRS analysis of supersymmetrized Zamolodchikov's spin-3 algebra. 91g:81041
 Coqueret, R. (with Jadczyk, A.) Conformal theories, curved phase spaces, relativistic wavelets and the geometry of complex domains. 91k:32032
 Crnković, Čedomir (with Sotkov, G. M.) Strings on hyperelliptic supersurfaces. 91g:32026
 — (with Ginsparg, Paul; Moore, Gregory W.) The Ising model, the Yang-Lee edge singularity, and 2D quantum gravity. 91m:82019
 Cvetič, Mirjam (with Kutasov, David) Topology change in string theory. 91h:81117
 Dai, Yuan Ben (with Huang, Chao Shang; Zhao, Zhi Yong) Correlation functions on higher genus Riemann surfaces for string theories on group manifolds. 91h:81118
 Das, Sumit R. (with Mandal, Gautam; Wadia, Spenta R.) Stochastic differential equations on two-dimensional theory space and Morse theory. 91a:81141
 Date, G. (with Govindarajan, T. R.; Sankaran, Parameswaran; Shankar, Ramachandran) Inequivalent quantizations for nonlinear σ model. 91f:58049
 Deguchi, Tetsuo. Braids, link polynomials and transformations of solvable models. 91e:57010
 Delius, Gustav W. (with van Nieuwenhuizen, Peter; Rodgers, V. G. J.) The method of coadjoint orbits: an algorithm for the construction of invariant actions. 91h:17026
 Deriglazov, A. A. see Ketov, S. V.; et al., 91j:81048
 Deser, S. (with Yang, Zhu) Is topologically massive gravity renormalisable? 91h:83042
 Destré, C. (with de Vega, H. J.) Light-cone lattices and the exact solution of chiral fermion and sigma models. 91a:81155
 — (with de Vega, H. J.) On the continuous limit of the eight-vertex model. 91a:82016
 Devchand, C. $N = 3$ extended supersymmetric gauge theories and an explicit construction of higher conservation laws. 91a:81112
 Diaz, Alvaro H. (with Figueroa-O'Farrill, José M.) A new explicit construction of W_3 from the affine algebra $A_1^{(1)}$. 91f:17030
 Di Francesco, P. (with Zuber, J.-B.) $SU(N)$ lattice integrable models associated with graphs. 91f:82005
 Distler, Jacques (with Qiu, Zongang) BRS cohomology and a Feigin-Fuchs representation of Kac-Moody and parafermionic theories. 91f:17022
 Dixon, Lance J. (with Peskin, Michael E.; Lykken, Joseph D.) $N = 2$ superconformal symmetry and $SO(2, 1)$ current algebra. 91e:81035
 — (with Kaplunovsky, Vadim S.; Louis, Jan) On effective field theories describing $(2, 2)$ vacua of the heterotic string. 91g:81114
 Dolan, L. (with Goddard, Peter; Montague, Paul Stewart) Conformal field theory, triality and the Monster group. 91f:17019
 Douglas, Michael R. (with Trivedi, Sandip P.) Operator product coefficients in nonstandard $SU(2)$ Wess-Zumino-Witten models. 91d:81064
 — (with Shenker, Stephen H.) Strings in less than one dimension. 91h:81119
 van Driel, Peter. see Fuchs, Jürgen, 91m:17015
 Drinfel'd, V. G. Quasi-Hopf algebras. 91b:17016
 Dunbar, David C. Fermionic string models and Z_N orbifolds. 91d:81098
 — see also Bern, Zvi, 91j:32023
 Duplantier, Bertrand (with Kostov, Ivan K.) Geometrical critical phenomena on a random

- surface of arbitrary genus. 91m:82056
- Durhuus, Bergfinnur *see* Ambjørn, Jan; et al., 91m:81178
- Eastwood, M. G. *see* Carey, Alan L.; et al., 91e:17026
- Eguchi, Toku Character formulas for the $N = 4$ superconformal algebra. (see 91k:81006)
- Espriu, D. (with Mavromatos, N. E.) On the c -theorem in higher genus. 91c:81073
- Evans, David E. Operator algebras and critical phenomena: an overview of the session on operator algebras. 91d:46089
- Fehér, L. Gy. *see* Forgács, P.; et al., 91b:81046
- Feigin, B. L. (with Frenkel, Edward V.) Representations of affine Kac-Moody algebras, bosonization and resolutions. 91m:17037
- Felder, Giovanni *see* Bernard, Denis, 91g:17022
- Fendley, Paul New exactly solvable orbifold models. 91d:81092
- (with Mathur, Samir D.; Vafa, Cumrun; Warner, Nicholas P.) Integrable deformations and scattering matrices for the $N = 2$ supersymmetric discrete series. 91m:81284
- Ferrara, Sergio (with Fré, Pietro) Type II superstrings on twisted group manifolds and their heterotic counterparts. 91g:81115
- Figueras-O'Farrill, José M. On the homological construction of Casimir algebras. 91j:17047
- (with Schrans, Stany) The spin 6 extended conformal algebra. 91j:17028
- *see also* Diaz, Alvaro H., 91k:17030
- Fisk, Mark D. (with Srednicki, Mark) The Wilson equation for particles and p -branes. 91e:81076
- Floratos, E. G. *see* Argyres, E. N.; et al., 91g:81039
- Floreanini, Roberto (with Percacci, R.; Rajaraman, R.) Four-dimensional current algebra from Chern-Simons theory. 91c:81058
- (with Lina, Jean-Marie; Vinet, Luc; Winternitz, Pavel) Symmetries of semiclassical gravity in two dimensions. 91b:83046
- Fok, V. V. *see* Kogan, Ya. I., 91g:81044
- Font, Anamaría (with Ibáñez, Luis E.; Mondragón, M.; Quevedo, Fernando; Ross, Graham G.) (0, 2) heterotic string compactifications from $N = 2$ superconformal theories. 91a:81161
- Forgács, P. (with Wipf, A.; Balog, J.; Fehér, L. Gy.; O'Raifeartaigh, L.) Liouville and Toda theories as conformally reduced WZNW theories. 91b:81046
- Fradkin, E. S. (with Linetski, V. Ya.) Conformal superalgebras of higher spins. 91i:17031
- (with Linetski, V. Ya.) Conformal superalgebras of higher spins. 91e:17017
- (with Pal'chik, M. Ya.) Exactly solvable conformally invariant quantum field models in D dimensions. 91b:81080
- (with Linetski, V. Ya.) Infinite-dimensional generalizations of simple Lie algebras. 91b:17014
- Fradkin, Eduardo (with von Reichenbach, Cecilia; Schaposnik, Fidel A.) Conformal properties of the Kondo models. 91b:81196
- Fré, Pietro *see* Ferrara, Sergio, 91g:81115
- Freedman, Daniel Z. (with Pilch, Krzysztof) Thirring model on a Riemann surface. 91a:81147
- (with Pilch, Krzysztof) Partition functions of the superconformal ghost Thirring model. 91b:81063
- Frenkel, Edward V. *see* Feigin, B. L., 91m:17037
- (Friedan, D.) *see* Physics and mathematics of strings, 91m:81006
- Fröhlich, Jörg Statistics of fields, the Yang-Baxter equation, and the theory of knots and links. 91b:81079
- (with King, Christopher K.) The Chern-Simons theory and knot polynomials. 91e:57012
- (with King, Christopher K.) Two-dimensional conformal field theory and three-dimensional topology. 91d:57003
- Fuchs, Jürgen (with Klemm, Albrecht; Scheich, Christoph; Schmidt, Michael G.) Gepner models with arbitrary affine invariants and the associated Calabi-Yau spaces. 91a:14017
- (with van Driel, Peter) Some symmetries of quantum dimensions. 91m:17015
- Fucito, Francesco (with Lacki, Jan) Conformal field theories and twisted Kac-Moody algebras. 91k:81054
- Fujitsu, Akira Parafermionic current algebras of torus/orbifold models. 91c:81023
- Gaije, J. A. The analytic renormalization setting for the string effective action. 91m:81158
- Gazeau, Jean-Pierre (with Hans, Michel; Murenzi, Romain) Invariant bilinear forms on $3 + 2$ de Sitter space. 91b:81087
- Ge, Mo Lin *see* Yamagishi, Kenji; et al., 91e:57005
- Gepner, Doron *see* Affleck, Ian; et al., (Not in MR)
- Gerasimov, A. A. (with Marshakov, A. V.; Morozov, A. Yu.) Hamiltonian reduction of the Wess-Zumino-Witten model from the point of view of bosonization. 91d:81042
- (with Marshakov, A. V.; Morozov, A. Yu.) Representation of free fields for parafermions and other coset models. 91e:81056
- Gervais, Jean-Loup Critical dimensions for noncritical strings. 91e:81057
- Ghosh, Pradip *see* Bandyopadhyay, Pratib; et al., 91d:81047
- Gieres, François Beltrami differentials and 2d (super)gravity in the chiral gauge. 91j:83071
- Ginsparg, Paul *see* Crnković, Čedomir; et al., 91m:82019
- Goddard, Peter Conformal symmetry and its extensions. 91c:17020
- *see also* Dolan, L.; et al., 91f:17019
- Gómez, César Grassmannians and the operator formalism. 91e:32025
- Goncharov, Yu. P. Determinants of Laplacians in real line bundles over hyperbolic manifolds connected with quantum geometry of membranes. 91g:58296
- González, Gabriela (with Pullin, Jorge A.) BRST analysis of $2 + 1$ gravity. (Not in MR)
- Govindarajan, T. R. *see* Date, G.; et al., 91e:58049
- Gracey, J. A. On the β -function for σ models with $N = 1$ supersymmetry. 91g:81118
- Greene, Brian R. (with Lütken, C. A.; Ross, Graham G.) Couplings in the heterotic superconformal three generation model. 91b:81107
- (with Vafa, Cumrun; Warner, Nicholas P.) Calabi-Yau manifolds and renormalization group flows. 91c:14042
- Griffin, Paul Radial quantization of the Ising model in the scaling regime, and integrals of the motion. 91b:81047
- Gualdagni, E. (with Martellini, M.; Mintchev, M.) Deformations of complex structures and conformal field theories on Riemann surfaces. 91c:32023
- (with Martellini, M.; Mintchev, M.) Braids and quantum group symmetry in Chern-Simons theory. 91j:57006
- Günaydin, M. (with Petersen, J. L.; Taormina, Anne; Van Proeyen, Antoine) On the unitary representations of a class of $N = 4$ superconformal algebras. 91e:17018
- Guo, Han Ying (with Na, Ji Sheng; Shen, Jian Min; Wang, Shi Kun; Yu, Qi Huang) The algebras of meromorphic vector fields and their realisation on the spaces of meromorphic λ -differentials on Riemann surfaces. I. 91i:17041
- *see also* Xu, Kai Wen; et al., 91a:17004 and Chang, Zhe; et al., 91f:17032
- Haba, Zbigniew Representations of the $SL(2, \mathbb{C})$ Kac-Moody current algebra in the Fock space. 91m:17039
- Hajra, Kohinur *see* Bandyopadhyay, Pratib; et al., 91d:81047
- Hannabuss, K. C. *see* Carey, Alan L.; et al., 91e:17026
- Hans, Michel *see* Gazeau, Jean-Pierre; et al., 91b:81087
- Harvey, Jeffrey A. Conformal field theory and string compactification. (see 91b:83001)
- Heidenreich, Wolfgang (with Lukierski, Jerzy) Quantized super-twistors, higher spin superalgebras and supersingletons. 91k:81056
- Henkel, M. (with Saleur, Hubert) Remarks on the mass spectrum on noncritical coset models from Toda theories. 91b:82011
- Hill, C. T. *see* Reuter, M., 91f:81129
- Hodgkin, Luke Problems of fields on super Riemann surfaces. 91c:32005
- Ho-Kim, Q. *see* Zheng, Hai Bin, 91g:17035
- Horne, James H. Intersection theory and two-dimensional gravity at genus 3 and 4. 91m:32019
- Skein relations and Wilson loops in Chern-Simons gauge theory. 91e:57003
- Hornebeck, K. (with Ragoucy, E.) A coset construction for the super W_3 algebra. 91k:17015
- Supersymmetrizing the W_3 algebra. 91k:81057
- Horowitz, Gary T. (with Srednicki, Mark) A quantum field theoretic description of linking numbers and their generalization. 91e:58100
- Horváth, Zoltán (with Palla, László; Vecsernyés, P.) BRS cohomology and 2d gravity. 91c:81161
- Hou, Bo Yu (with Lie, Ding-Ping; Yue, Rui Hong) Quantum group structure in the unitary minimal model. 91a:81081
- (with Shi, Kang Jie; Wang, Pei; Yue, Rui Hong) The crossing matrices of WZW $SU(2)$ model and minimal models with the quantum $6j$ symbols. 91g:81043
- Howe, P. S. (with West, Peter C.) Multicritical points in two dimensions, the renormalization group and the ϵ expansion. 91c:81074
- Hu, Shi Ke *see* Yan, Jun; et al., 91m:81226
- Huang, Chao Shang *see* Dai, Yuan Ben; et al., 91b:81118
- Ibáñez, Luis E. *see* Font, Anamaría; et al., 91a:81161
- Inami, T. (with Matsuo, Yutaka; Yamanaka, Itaru) Extended conformal algebra with $N = 2$ supersymmetry. 91b:81049
- Intriligator, Kenneth (with Vafa, Cumrun) Landau-Ginzburg orbifolds. 91k:81131
- Ishibashi, Nobuyuki *see* Onogi, Tetsuya, 91b:81090a and 91b:81090b
- Iso, Satoshi (with Itoi, Chigaku; Mukaida, Hisamitsu) The spin factor in knots and a relativistic treatment of the Bose-Fermi transmutation in second-quantized theories. 91m:81128
- Ito, Kei Trajectories of renormalization group flows on the phase diagram of $N = 2$ superconformal field theories. 91d:81085
- Itoh, Katsumi BRST quantization of Polyakov's two-dimensional gravity. 91b:81175
- Itoi, Chigaku *see* Iso, Satoshi; et al., 91m:81128
- Itoyama, Hiroshi (with Moxhay, P.) Universal enveloping algebras of Toda field theories and the light-cone asymmetry parameter. 91m:81085
- Izykson, Claude *see* Bauer, Michel, 91b:17024; 91b:20070 and Altschüller, Daniel; et al., 91j:17032
- Ivanov, B. V. On the partition function of nonperturbative gravity. 91m:81206
- Jadczyk, A. *see* Coquereaux, R., 91c:32032
- Jaffe, Arthur M. (with Lesniewski, Andrzej; Wieczorkowski, Christian) A priori quantum field equations. 91c:81052
- (with Klemm, Sławomir; Lesniewski, Andrzej) Representations of the Heisenberg algebra on a Riemann surface. 91d:17045
- Jayaraman, T. (with Narain, K. S.; Sarmadi, M. H.) $SU(2)_k$ WZW and Z_k parafermion models on the torus. 91i:17046
- Jo, S.-G. *see* Aneziris, C.; et al., 91b:81108
- Jónsson, Thórdur *see* Ambjørn, Jan; et al., 91m:81178
- Joos, Hans The geometric Schwinger model on the torus. I. 91k:81086
- Jørgensen, Palle E. T. Unitary dilation of symplectic vector spaces. 91b:17022
- Kakuto, Akira Note on the perturbative conformal bootstrap. 91d:81077
- (Kamal, A. N.) *see* Particles and fields, 91m:81005
- Kang, Sin Kyu *see* Chung, Won-Sang; et al., 91a:81080
- Kantowski, R. *see* Birmingham, Danny; et al., 91m:81157
- Kaplunovsky, Vadim S. *see* Dixon, Lance J.; et al., 91g:81114
- Karabali, Dimitra (with Schnitzer, Howard J.) BRST quantization of the gauged WZW action and coset conformal field theories. 91e:81106
- Karanikas, A. I. (with Ktorides, C. N.) Curve geometry and field topology in two and three dimensions. 91b:81068
- (with Ktorides, C. N.) Surface self-intersections and instantons. 91b:81069
- Kaster, David (with Martinez, Emil J.; Shenker, Stephen H.) RG flow in $N = 1$ discrete series. 91a:81142
- Katansev, M. O. (with Volovich, I. V.) Two-dimensional gravity with dynamical torsion and strings. 91c:81085
- Kato, Akihi (with Kitazawa, Yoshihisa) E_7 type modular invariant Wess-Zumino theory and Gepner's string compactification. 91b:81122
- Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Tanioka, Kazutaka) Gauge groups of Z_N orbifold models. 91e:81058
- Katsura, Toshiyuki (with Shimizu, Yuji; Ueno, Kenji) Formal groups and conformal field theory over Z . 91d:14029
- (with Shimizu, Yuji; Ueno, Kenji) New bosonization and conformal field theory over Z . 91c:14030
- Kawakami, Norio (with Yang, Sung-Kil) Correlation functions in the one-dimensional t - J model. 91g:82024
- Kawamura, Yoshiharu *see* Katsuki, Yasuhiko; et al., 91e:81058

- Ketov, S. V. (with Deriglazov, A. A.; Prager, Ya. S.) Three-loop β -function for the two-dimensional nonlinear σ -model with a Wess-Zumino-Witten term. 91j:81048
- Keung, Wai-Yee see Wang, Qin Mou; et al., 91m:81090
- (Khan, F. C.) see Particles and fields, 91m:81005
- Kim, Jae Kwan see Chung, Won-Sang; et al., 91a:81089 and 91g:81041
- Kim, Kee Yong see Ahn, Chang-Jun; et al., 91e:83051
- Kim, T. W. (with Park, S. U.; Cho, Byung Ha) Riemann problem and operator formulation for fermionic theories on Riemann surfaces. 91g:81120
- Kim, Won Tae see Ahn, Chang-Jun; et al., 91e:83051
- Kim, Yong Duk see Ahn, Chang-Jun; et al., 91e:83051
- King, Christopher K. see Fröhlich, Jörg, 91d:57003 and 91e:57012
- Kiritis, Elias B. see Bakas, Ioannis, 91m:81082a and 91m:81082b
- Kitazawa, Yoshihisa see Kato, Akishi, 91h:81122
- Klein, Albrecht see Fuchs, Jürgen; et al., 91a:14017
- Klimek, Sławomir see Jaffe, Arthur M.; et al., 91d:17045
- (Klimyk, A. U.) see Problems of modern quantum field theory, 91i:81002
- (Knizhnik, V. G.) see Physics and mathematics of strings, 91m:81006
- Kobayashi, Tatsuo see Katsuki, Yoshihiko; et al., 91e:81058
- Koca, Mehmet Quaternionic and octonionic orbifolds. 91h:83050
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) de Sitter gravity and supergravity in three dimensions as Chern-Simons theories. 91h:83079
- Kogan, Ya. I. The off-shell closed strings as topological open membranes. Dynamical transmutation of world sheet dimension. 91h:81110
- (with Fok, V. V.) Generating correlation function in 2d conformal theory and the Sugawara construction of the $2+1$ Chern-Simons theory. 91g:81044
- Koh, In Gyu (with Ma, Zhong Qi) Exceptional quantum groups. 91h:17017
- Kosiński, Piotr A note on current algebra in QCD₂ and two-dimensional chiral theories. 91f:81090
- Kossmann-Schwarzbach, Yvette Quantum and classical Yang-Baxter equations. 91g:58117
- Koster, Ivan K. see Duplantier, Bertrand, 91m:82056
- Kowalski-Glikman, Jerzy On the Gupta-Bleuler quantization of anomalous theories. 91g:81154
- Kreuzer, Maximilian (with Schimmrigk, Rolf) Tricritical Ising model, generalized KdVs, and nonperturbative 2D quantum gravity. 91h:81111
- Krichever, Ios. M. (with Novikov, S. P.) Virasoro-Gelfand-Fuks type algebras, Riemann surfaces, operator's theory of closed strings. 91k:17036
- Ktoulas, C. N. see Karanikas, A. I., 91h:81068 and 91h:81069
- Kulish, P. P. see Chaichian, M.; et al., 91m:17014 and West, Peter C., 91f:81003
- Kumar, Alok² see Chang, Darwin; et al., 91f:81055
- Kuramoto, Tetsuji BRST quantization of conformal field theories on a random surface. 91h:81166
- Kutasov, David see Cvetic, Mirjam, 91h:81117
- Kuwahara, Masanori (with Suzuki, Hideo) Coset conformal models of the W -algebra and their Feigin-Fuchs construction. 91a:81066
- Lacki, Jan see Fucito, Francesco, 91k:81054
- Lässig, Michael Geometry of the renormalization group with an application in two dimensions. 91h:81111
- Lauer, J. (with Zucchini, R.) Covariance properties of higher genus twist correlators under $R \leftrightarrow 1/R$ duality in orbifold conformal field theory. 91e:83079
- Lawrence, R. J. A topological approach to representations of the Iwahori-Hecke algebra. 91j:32043
- Lechner, Kurt Four-graviton scattering in $D = 4$ superstrings with broken space-time supersymmetry. 91h:81123
- Lechtenfeld, Olaf Superconformal ghost correlations on Riemann surfaces. 91d:81106
- Lee, Jungjai see Chung, Won-Sang; et al., 91a:81080
- Lee, Taehin (with Viswanathan, K. S.) Krichever-Novikov bases for the bosonic string. 91g:17042
- Légaré, M. Symmetry reduction of the Wess-Zumino model and supersymmetric reduced systems. 91m:81289
- Lesniewski, Andrzej see Jaffe, Arthur M.; et al., 91c:81052 and 91d:17045
- Levin, A. (with Morozov, A. Ya.) On the foundations of the random lattice approach to quantum gravity. 91g:14018
- Lemon, A. N. (with Savelfev, M. V.) Supersymmetric nonlinear wave equations and classical Lie superalgebras. 91h:58278
- Lhallabi, T. (with Saidi, E. H.) Two-dimensional (4, 0) supergravity in harmonic superspace. The action and the matter couplings. 91h:83052
- Li, Jiang Nan see Yan, Jun²; et al., 91m:81226
- Lie, Ding-Ping see Hou, Bo Yu; et al., 91a:81081
- Lina, Jean-Marc see Floreanini, Roberto; et al., 91h:83046
- Linetskiĭ, V. Ya. see Fradkin, E. S., 91h:17017; 91h:17014 and 91h:17031
- Liu, Yu Liang (with Chen, Su Qing; Ni, Guang Jiong) Geometrical quantization of bosonic string with Wess-Zumino term on genus- g Riemann surface. 91g:81045
- Louis, Jan see Dixon, Lance J.; et al., 91g:81114
- Lukierski, Jerzy see Heidenreich, Wolfgang, 91k:81056 and Chaichian, M.; et al., 91m:17014
- Lüst, D. (with Theisen, S.) ★ Lectures on string theory. 91g:81124
- Lütken, C. A. see Greene, Brian R.; et al., 91h:81107 and Aspinwall, P. S.; et al., 91g:81107
- Lykken, Joseph D. see Banks, Thomas, 91c:81093 and Dixon, Lance J.; et al., 91e:81035
- Lyner, Monika (with Schimmrigk, Rolf) ADE quantum Calabi-Yau manifolds. 91m:32030
- see also Candela, Philip; et al., 91m:14062
- Ma, Zhong Qi see Koh, In Gyu, 91h:17017
- Mandal, Gautam see Das, Samit R.; et al., 91a:81141
- Mansouri, F. see Koehler, Kenneth Rowland; et al., 91h:83079
- Marino, E. C. Order, disorder duality in quantum field theory. 91d:81056a
- Order, disorder duality in quantum field theory. 91d:81056b
- Marshakov, A. V. (with Morozov, A. Ya.) A note on H_2 algebra. 91m:81086
- see also Gerasimov, A. A.; et al., 91d:81042 and 91e:81056
- Martellini, M. see Guadagnini, E.; et al., 91j:32023 and 91j:57006
- Martin, Paul P. Representations of graph Temperley-Lieb algebras. 91m:82039
- Martinec, Emil J. see Kaster, David; et al., 91a:81142
- Martins, Márcio José A connection between integrable $Z(N)$ models and off-critical nonunitary theories. 91e:81063
- Central charge for integrable $O(2N)$ models. 91e:82030
- see also Alcaraz, Francisco Castillo, 91f:82011
- Marzban, Caren Remarks on the Landau-Ginzburg potential and RG flow for $SU(2)$ -coset models. 91d:81086
- Mathur, Samir D. see Fendley, Paul; et al., 91m:81284
- Matone, Marco see Bonora, Liorio, 91g:58105 and 91h:14035
- Matsuda, Satoshi (with Uematsu, Tsuneo) Super Schwarzian derivatives in $N = 4$ $SU(2)$ -extended superconformal algebras. 91g:81046
- Matsumoto, Shuji (with Uehara, Shozo; Yasui, Yukinori) A superparticle on the super Riemann surface. 91j:58164
- Matsuue, Yutaka see Inami, T.; et al., 91h:81049
- Mavromatos, N. E. (with Miramontes, J. Luis) Finite size scaling, Zamolodchikov's c theorem and the S -matrix. 91e:81064
- see also Esprin, D., 91c:81073
- McCarthy, James G. see Bouwknegt, Peter; et al., 91c:17017
- Meurice, Yannick A path integral formulation of p -adic quantum mechanics. 91j:81023
- Mezincescu, Luca (with Nepomechie, Rafael L.) Unitarity and irrationality for the quantum algebra $U_q(SU(2))$. 91m:17020
- Migdal, Alexander A. see Agshstein, Michael E., 91g:81160 and 91h:83034
- Mikhailov, V. G. Complete integrability of the asymmetric chiral $O(3)$ -field equation in a class of rapidly decreasing functions. 91h:58099
- Miller, Jeffrey D. Moment of inertia of doubly connecting bonds in two-dimensional bond percolation. 91g:82031
- Mintchev, M. see Guadagnini, E.; et al., 91j:32023 and 91j:57006
- Miramontes, J. Luis (with Sánchez Guillén, Joaquín; Vozmediano, María A. H.) A quantum mechanical framework for pure two-dimensional gravity. 91j:83041
- see also Mavromatos, N. E., 91e:81064
- Mondragón, M. see Font, Anamaris; et al., 91a:81161
- Montagne, Paul Stewart see Dolan, L.; et al., 91f:17019
- Moore, Gregory W. see Crnković, Čedomir; et al., 91m:82019
- Morchio, G. (with Pierotti, D.; Strocchi, Franco) Infrared and vacuum structure in two-dimensional local quantum field theory models. The massless scalar field. 91f:81087
- Morozov, A. Ya. see Gerasimov, A. A.; et al., 91d:81042; 91f:81056; Levin, A., 91g:14018 and Marshakov, A. V., 91m:81086
- Morrison, Harry L. see Spelletopoulos, Achilles D., 91f:81262
- Moxhay, P. see Itoyama, Hiroshi, 91m:81085
- Mukaida, Hisamitsu see Iso, Satoshi; et al., 91m:81128
- Mukhi, Sunil (with Panda, Sudhakar) Fractional-level current algebras and the classification of characters. 91j:17037
- Murayama, Hitoshi Explicit quantization of the Chern-Simons action. 91h:81098
- Murenzi, Romain see Gazeau, Jean-Pierre; et al., 91h:81087
- Myers, Robert C. Gauge fixing topological Yang-Mills. 91d:81071
- Myung, Y. S. On $N = 3$, $SO(3)$ supermodular transformation on supertorus. 91d:14036
- Na, Ji Sheng see Guo, Han Ying; et al., 91h:17041
- Nair, V. P. (with Schiff, Jeremy) A Kähler-Chern-Simons theory and quantization of instanton moduli spaces. 91k:58045
- see also Bos, Michiel, 91a:81203
- Naito, Seichi (with Nishimoto, Masahiro) Conformal mapping and vertex operators in the light-cone gauge. 91m:81218
- Nam, Soonkeon On supersymmetric extended conformal algebras and super KP hierarchy. 91h:81012
- Namikawa, Yukihiko A geometric realization of conformal field theory on Riemann surfaces. 91h:81103
- A conformal field theory on Riemann surfaces realized as quantized moduli theory of Riemann surfaces. 91g:32027
- Nasín, C. M. see Boyanovsky, Daniel, 91h:81001
- Narain, K. S. see Jayaraman, T.; et al., 91h:17046
- Nelson, J. E. (with Regge, Tullio E.) Homotopy groups and $(2+1)$ -dimensional quantum gravity. 91h:81073
- Nemeschansky, Dennis see Bars, Itzhak, 91k:81121
- Nepomechie, Rafael I. see Mezincescu, Luca, 91m:17020
- Neuberger, H. see Brézin, Edouard, 91m:81179
- Ni, Guang Jiong see Liu, Yu Liang; et al., 91g:81045
- van Nieuwenhuizen, Peter see Delius, Gustav W.; et al., 91h:17026 and Schoutens, Kareljan; et al., 91h:81066
- Nishimoto, Masahiro see Naito, Seichi, 91m:81218
- Nitsch, Jürgen see Beyer, Horst, 91d:81087
- Nomura, Masao An alternative description of the quantum group $SU_q(2)$ and the q -analog Racah-Wigner algebra. 91m:17021
- Novikov, S. P. see Krichever, Ios. M., 91h:17036
- Obukhov, Yu. N. (with Solodukhin, S. N.) Dynamical gravity and conformal and Lorentz anomalies in two dimensions. 91m:81280
- Odake, Satoru $c = 3d$ conformal algebra with extended supersymmetry. 91h:81026
- Odintsov, S. D. $SL(2, Z)$ invariance in string theory. 91m:81220
- Ohtsubo, Noriyasu see Katsuki, Yoshihiko; et al., 91e:81058
- Ojima, Shuichi A note on Krichever-Novikov-Kac-Moody algebra on Riemann surfaces. 91j:17048
- Omori, Tetsuya (with Ishibashi, Nobuyuki) Conformal field theories on surfaces with boundaries and crosscaps. 91h:81090a
- (with Ishibashi, Nobuyuki) Erratum: "Conformal field theories on surfaces with boundaries and crosscaps". 91h:81090b
- O'Rourke, L. see Forgács, P.; et al., 91h:81046
- Ortiz, Miguel E. Homogeneous solutions to topologically massive gravity. 91f:83060
- Palla, László Perturbed W -algebras and affine Toda theories. 91h:81050
- see also Horváth, Zoltán; et al., 91c:81161
- Panda, Sudhakar see Mukhi, Sunil, 91j:17037
- Panigrahi, Prasanta K. see Wang, Qin Mou; et al., 91m:81090

- Papadopoulos, C. G. *see* Argyres, E. N.; et al., 91g:81039
- Park, Q-Han KdV type equations from gauged WZW models and conformal-like gauge of W -gravity. 91f:58066
- Extended conformal symmetries in real heavens. 91e:83049
- Self-dual gravity as a large- N limit of the 2D nonlinear sigma model. 91f:83029
- Park, S. U. *see* Kim, T. W.; et al., 91g:81120
- Park, Young-Jai *see* Ahn, Chang-Jun; et al., 91e:83051
- Pasunov, Roman (with Todorov, Ivan T.) Homogeneous space construction of modular invariant QFT models with a chiral $U(1)$ current. 91f:81058
- Percacci, R. *see* Floreanini, Roberto; et al., 91c:81058
- Periwal, Vipul (with Strominger, Andrew) Kähler geometry of the space of $N = 2$ superconformal field theories. 91g:32028
- Peskin, Michael E. *see* Dixon, Lance J.; et al., 91e:81035
- Petersen, J. L. (with Taormina, Anne) Characters of the $N = 4$ superconformal algebra with two central extensions. 91e:17022
- (with Taormina, Anne) Characters of the $N = 4$ superconformal algebra with two central extensions. II. Massless representations. 91e:17023
- *see also* Günaydin, M.; et al., 91e:17018
- Petropoulos, P. M. S. *see* Bachas, C., 91k:81115
- Picco, Marco *see* Baulieu, Laurent; et al., 91k:81073
- Pirotti, D. *see* Marchio, G.; et al., 91f:81087
- Piette, Bernard (with Zait, R. A.; Zakrzewski, Wojciech J.) Solutions of the supersymmetric $U(N)$ σ models with the Wess-Zumino-Witten term. 91h:81149
- Pilch, Krzysztof *see* Freedman, Daniel Z., 91a:81147; 91b:81063 and Bowknegt, Peter; et al., 91c:17017
- (Polyakov, A. M.) *see* Physics and mathematics of strings, 91m:81006
- Ponzano, G. *see* Caselle, M., 91m:81083
- Pope, C. N. (with Romans, L. J.) Local area-preserving algebras for two-dimensional surfaces. 91g:17026
- (with Romans, L. J.; Shen, Xiang) A new higher-spin algebra and the lone-star product. 91h:17017
- (with Romans, L. J.; Shen, Xiang) Ideals of Kac-Moody algebras and realisations of W_∞ . 91h:17027
- (with Shen, Xiang) Higher-spin theories, W_∞ algebras and their super-extensions. 91h:17031
- Prager, Ya. S. *see* Ketov, S. V.; et al., 91j:81048
- Pullin, Jorge A. *see* González, Gabriela, (Not in MR)
- Qiu, Zangan *see* Distler, Jacques, 91f:17022 and Awada, Moustafa A., 91g:58102
- Quackenbush, John Chiral anomalies in two-dimensional quantum field theory. 91c:81153
- Quevedo, Fernando *see* Font, Anamaría; et al., 91a:81161
- Raglandakos, C. N. A four-dimensional extended conformal model. 91h:83030
- Ragoucy, E. *see* Hornfeck, K., 91h:17015
- Rains, A. K. Fay's trisecant identity and Wick's theorem: an algebraic geometry viewpoint. 91j:14021
- Chiral fermions on a compact Riemann surface: a sheaf cohomology analysis. 91h:14032
- Rajaraman, R. *see* Floreanini, Roberto; et al., 91c:81058
- Rakowski, Mark T. *see* Birmingham, Danny; et al., 91d:81075 and 91m:81157
- Ramadas, T. R. *see* Aneziris, C.; et al., 91c:81108
- Rashkov, R. Ch. On the super Wess-Zumino-Novikov-Witten model and 2D supergravity. 91h:81167
- Regge, Tullio E. *see* Nelson, J. E., 91b:81073
- von Reichenbach, Cecilia *see* Fradkin, Eduardo; et al., 91h:81196
- Reshetikhin, N. Yu. *see* Bazhanov, V. V., 91d:82007 and 91f:82012
- Reuter, M. (with Hill, C. T.) Moving mirrors in Schrödinger picture. 91f:81129
- Rittenberg, V. *see* Baranowski, D., 91e:82010
- Rodgers, V. G. J. *see* Delius, Gustav W.; et al., 91h:17026
- Romans, L. J. *see* Pope, C. N., 91g:17026; 91h:17017 and 91h:17027
- Ross, Graham G. *see* Font, Anamaría; et al., 91a:81161; Greene, Brian R.; et al., 91h:81107 and Aspinwall, P. S.; et al., 91g:81107
- Ruelle, Ph. Dimension of the commutant for the $SU(N)$ affine algebras. 91g:17031
- Russo, Jorge G. Bosonization and fermion vertices on an arbitrary genus Riemann surface by using a global operator formalism. 91f:17049
- 2D induced quantum gravity and topological phase of the Thirring model. 91h:81088
- Sabra, Wafic A. (with Thomas, Steven) Perturbation in induced two-dimensional quantum gravity. 91b:81081
- Saidi, E. H. *see* Lhailali, T., 91e:83052
- Salew, Hubert Representations of $U_q(\mathfrak{sl}(2))$ for q a root of unity. 91h:17023
- *see also* Henkel, M., 91h:82011
- Samuel, Stuart Off-shell string physics from conformal field theory. 91h:81116
- Sánchez Guillén, Joaquín *see* Miramontes, J. Luis; et al., 91j:83041
- Sankaran, Parameswaran *see* Date, G.; et al., 91f:58049
- Sarmadi, M. H. *see* Jayaraman, T.; et al., 91h:17046
- Sasaki, Ryu (with Yamanaka, Itaru) An infinite set of quantum commuting operators related with soliton equations and the Virasoro algebra. 91h:58053
- Savelev, M. V. On some connections and extensions of W -algebras. 91f:17030
- *see also* Lefmow, A. N., 91h:58278
- Schaposnik, Fidel A. *see* Fradkin, Eduardo; et al., 91h:81196
- Scheich, Christoph *see* Fuchs, Jürgen; et al., 91a:14017
- Schellekens, A. N. (with Yankielowicz, S.) Simple currents, modular invariants and fixed points. 91h:17023
- Schiff, Jeremy *see* Nair, V. P., 91h:58045
- Schimmrigk, Rolf Heterotic RG flow fixed points with nondiagonal affine invariants. 91h:81082
- *see also* Kreuzer, Maximilian, 91h:81111; Candela, Philip; et al., 91m:14062 and Lynker, Monika, 91m:32030
- Schlichenmaier, Martin Krichever-Novikov algebras for more than two points. 91a:17039
- Krichever-Novikov algebras for more than two points: explicit generators. 91h:17034
- Schmidt, Michael G. *see* Fuchs, Jürgen; et al., 91a:14017
- Schnitzer, Howard J. *see* Karabali, Dimitra, 91h:81106
- Schoutens, Kareljan (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Covariant w_∞ gravity and its reduction to W_N gravity. 91k:81066
- Schrans, Stany (with Troost, Walter) Generalized Virasoro constructions for $SU(3)$. 91j:17044
- *see also* Figueroa-O'Farrill, José M., 91j:17028
- Schulz, H. J. *see* Affleck, Ian; et al., (Not in MR)
- Semikhatov, A. M. Soliton equations and the Virasoro algebra. 91g:58131
- Supersymmetric coset models in terms of free superfields. 91c:81157
- A note on the supersymmetric coset construction. 91e:81037
- Sewing $\beta\gamma$ theories on Riemann surfaces in the global operator formalism. 91g:81100
- Sen, Ashoke Open string field theory in a nontrivial background field. I. Gauge invariant action. 91e:81085
- Open string field theory in a nontrivial background field. II. Feynman rules and four-point amplitudes. 91e:81086
- Equations of motion in nonpolynomial closed string field theory and conformal invariance of two-dimensional field theories. 91m:81223
- Sevrin, Alexander *see* Schoutens, Kareljan; et al., 91k:81066
- Shankar, Ramachandran *see* Date, G.; et al., 91f:58049
- Shapiro, I. L. *see* Bukhbinder, I. L.; et al., 91c:81080
- Shen, Jian Min *see* Xu, Kai Wen; et al., 91a:17004; Chang, Zhe; et al., 91f:17032 and Guo, Han Ying; et al., 91h:17041
- Shen, Xiang *see* Pope, C. N.; et al., 91h:17017; 91h:17027 and 91h:17031
- Shenker, Stephen H. *see* Kastor, David; et al., 91a:81142 and Douglas, Michael R., 91h:81119
- Shevitz, Daniel The global structure of a $c = 9$ type (2, 2) moduli space. 91d:32030
- Shi, Kang Jie *see* Hsu, Bo Yu; et al., 91g:81043
- Shimizu, Yoji *see* Katsura, Toshiyuki; et al., 91c:14030 and 91d:14029
- Sin, Sang-Jin Coulomb gas and the determinants of the Laplacian on the Mandelstam diagram. 91c:58143
- Singer, Isadore *see* Baulieu, Laurent, 91b:81153
- Slodowy, Peter A new $A-D-E$ classification (after A. Capelli [Cappelli], C. Itzykson, J. B. Zuber). 91m:17008
- Smit, Dirk-Jan A quantum group structure in integrable conformal field theories. 91g:58132
- Smolin, Lee Invariants of links and critical points of the Chern-Simons [Simons] path integrals. 91e:57020
- Solodukhin, S. N. (with Tentyukov, M. N.) ★ Структура конформной Лоренцевой аномалии в двух измерениях. (Russian) [The structure of conformal and Lorentz anomalies in two dimensions] 91f:81202
- *see also* Obukhov, Yu. N., 91m:81280
- Sonnenschein, Jacob Topological quantum field theories, moduli spaces, and flat gauge connections. 91f:58015
- Sonoda, Hidenori Hermiticity and CPT in string theory. 91d:81113
- Sorkin, R. D. *see* Aneziris, C.; et al., 91e:81108
- Sotkov, G. M. *see* Crnković, Čedomir, 91g:32026
- Spiliopoulos, Achilles D. (with Morrison, Harry L.) The Hodge decomposition and the vortex Hamiltonian. 91f:81262
- Srednicki, Mark *see* Fisk, Mark D., 91e:81076 and Horowitz, Gary T., 91f:58100
- Staudacher, Matthias The Yang-Lee edge singularity on a dynamical planar random surface. 91e:82062
- Stern, Allen Bruce Pure Wess-Zumino actions in $(1+1)$ -dimensional nonlinear σ -models. 91h:81128
- Strocchi, Franco *see* Marchio, G.; et al., 91f:81087
- Strominger, Andrew *see* Periwal, Vipul, 91g:32028
- Sukhatme, Uday P. *see* Wang, Qin Mou; et al., 91m:81090
- Suzuki, Hisao *see* Kawahara, Masanori, 91a:81066
- Tanaka, Katsumi¹ Solvable two-dimensional models and the Virasoro algebra. 91b:58104
- Tanioka, Kazutaka *see* Katsuki, Yasuhiko; et al., 91c:81058
- Taormina, Anne *see* Günaydin, M.; et al., 91e:17018; Petersen, J. L., 91e:17022 and 91e:17023
- Tentyukov, M. N. *see* Solodukhin, S. N., 91f:81202
- Terao, Haruhiko The Coulomb gas representation for $SU(2)$ Wess-Zumino-Witten model in superspace. 91m:81089
- Theisen, S. *see* Lüst, D., 91g:81124
- Thomas, Steven $C = 1$ models in the Thirring string formulation. 91f:81164
- *see also* Sabra, Wafic A., 91b:81081
- Thompson, George *see* Blau, Matthias, 91b:53089 and Birmingham, Danny; et al., 91d:81075
- Todorov, Ivan T. Finite temperature 2-dimensional QFT models of conformal current algebra. 91a:81082
- *see also* Pasunov, Roman, 91f:81058
- Toppan, Francesco *see* Bonora, Loris; et al., 91h:14035
- Toyota, N. Integral dimension in the string theory based on a group manifold. 91f:17033
- Trivedi, Sandip P. *see* Douglas, Michael R., 91d:81064
- Troost, Walter *see* Schrans, Stany, 91j:17044
- Trytlin, A. A. On the structure of the renormalisation group beta functions in a class of 2D models. 91g:81096
- Errata: "On the structure of the renormalisation group beta functions in a class of 2D models". 91g:81096b
- Tsukada, Haruo String path integral realization of vertex operator algebras. 91m:17044
- Uehara, Shozo *see* Matsumoto, Shuji; et al., 91j:58164
- Uematsu, Tsuneo *see* Matsuda, Satoshi, 91g:81046
- Ueno, Kenji *see* Katsura, Toshiyuki; et al., 91c:14030 and 91d:14029
- Vafa, Cumrun String vacua and orbifoldized LG models. 91g:81128
- *see also* Greene, Brian R.; et al., 91c:14042; Intriligator, Kenneth, 91k:81131 and Fendley, Paul; et al., 91m:81284
- Van Proeyen, Antoine *see* Günaydin, M.; et al., 91e:17018
- Vaz, Cenalo *see* Koehler, Kenneth Rowland; et al., 91h:83079
- Vecsernyés, P. *see* Horváth, Zoltán; et al., 91c:81161
- de Vega, H. J. YBZF algebras, Kac-Moody algebras and integrable theories. 91h:58056

- Quantum groups (YBZF algebras), integrable field theories and statistical models. 91a:58093
- Yang-Baxter algebras, conformal invariant models and quantum groups. 91a:17048
- *see also* Destri, C., 91a:81155 and 91a:82016
- Verlinde, Erik (with Verlinde, Herman) A solution of two-dimensional topological quantum gravity. 91j:32025
- Verlinde, Herman *see* Verlinde, Erik, 91j:32025
- Viallet, C.-M. *see* Babelon, O., 91m:58072
- Vilkoviskii, G. A. *see* Barvinkskii, A. O., 91g:81092 and 91g:81093
- Vinet, Luc *see* Floreani, Roberto; et al., 91b:83046
- Viswanathan, K. S. *see* Lee, Taejin, 91g:17042
- Volovich, I. V. *see* Katanaev, M. O., 91c:81085
- Vorcediano, Maria A. H. *see* Miramontes, J. Luis; et al., 91j:83041
- Wadia, Spenta R. *see* Das, Sumit R.; et al., 91a:81141
- Wang, Jin *see* Chang, Darwin; et al., 91f:81055
- Wang, Pei *see* Hou, Bo Yu; et al., 91b:81043
- Wang, Qin Mou (with Panigrahi, Prasanta K.; Sukhatme, Uday P.; Keung, Wai-Yee) Covariant operators and higher-spin conformal algebras. 91m:81090
- Wang, Shi Kun *see* Chang, Zhe; et al., 91f:17032 and Gao, Han Ying; et al., 91f:17041
- Warner, Nicholas P. The supersymmetry index and the construction of modular invariants. 91c:17024
- *see also* Greene, Brian R.; et al., 91c:14042 and Fendley, Paul; et al., 91m:81284
- Watts, G. M. T. Determinant formulae for extended algebras in two-dimensional conformal field theory. 91d:17038
- *H*-algebras and coset models. 91m:17030
- Welch, Wolfgang Nonintegrability of the spherical supermembrane. 91b:70028
- West, Peter C. ★ Введение в суперсимметрию и супергравитацию. (Russian) [Introduction to supersymmetry and supergravity] 91f:81003
- *see also* Howe, P. S., 91c:81074
- Wieczorkowski, Christian *see* Jaffe, Arthur M.; et al., 91c:81052
- Wiegmann, P. B. Extrinsic geometry of superstrings. 91b:81130
- Winternitz, Pavel *see* Floreani, Roberto; et al., 91b:83046
- Wipf, A. *see* Forgács, P.; et al., 91b:81046
- Witten, Edward Some geometrical applications of quantum field theory. 91a:57007
- On the structure of the topological phase of two-dimensional gravity. 91m:32020
- Witten, L. *see* Koehler, Kenneth Rowland; et al., 91b:83079
- Wu, Ke *see* Chang, Zhe; et al., 91f:17032 and Bonora, Lorian; et al., 91f:14035
- Wu, Yong Shi¹ *see* Yamagishi, Kengo; et al., 91f:57005
- Xu, Kai Wen (with Shen, Jian Min; Guo, Han Ying) A super-Beltrami algebra of super-conformal transformations. (Chinese. English summary) 91a:17004
- *see also* Chang, Zhe; et al., 91f:17032
- Xu, Rui-Ming Two-dimensional quantum (0, 2) supergravity. 91g:81047
- Yagmur, E. G. *see* Buhkinder, I. L.; et al., 91c:81080
- Yamada, Atsushi Transition amplitudes in 2 + 1-dimensional quantum gravity. 91f:83032
- Yamagishi, Kengo (with Ge, Mo Lin; Wu, Yong Shi¹) New hierarchies of knot polynomials from topological Chern-Simons gauge theory. 91f:57005
- Yamanaka, Itaru *see* Sasaki, Ryu, 91h:50053 and Inami, T.; et al., 91h:81049
- Yan, Jun² (with Li, Jiang Nan; Hu, Shi Ke) The world sheet instanton on cosmic orbifold. 91m:81226
- Yang, Song-Kil *see* Kawakami, Norio, 91g:82024
- Yang, Zhu *see* Deser, S., 91b:83042
- Yankielowicz, S. *see* Schellekens, A. N., 91b:17023
- Yasui, Yukinori *see* Matsumoto, Shuji; et al., 91j:58164
- Yu, Qi Huang *see* Guo, Han Ying; et al., 91f:17041
- Yue, Rui Hong *see* Hou, Bo Yu; et al., 91a:81081 and 91g:81043
- Zait, R. A. *see* Piette, Bernard; et al., 91b:81149
- Zakrzewski, Wojciech J. Some classical solutions of U(N) chiral models. 91b:81077
- *see also* Piette, Bernard; et al., 91b:81149
- (Zamolodchikov, Aleksandr B.) *see* Problems of modern quantum field theory, 91i:81002
- Zhao, Zhi Yong *see* Dai, Yuan Ben; et al., 91b:81118
- Zheng, Hai Bin (with Ho-Kim, Q.) Twisted characters and partition functions in extended Virasoro algebras. 91g:17035
- Zimmer, T. *see* Affleck, Ian; et al., (Not in MR)
- Zuglin, Paul Reexamination of four-generation heterotic string compactification as a superconformal field theory. 91f:81120
- Radiative gauge symmetry breaking in an $N = 2$ superconformal string compactification. 91f:81167
- Zuber, J.-B. Conformal field theories, Coulomb gas picture and integrable models. 91c:82025
- *see also* Di Francesco, P., 91c:82005
- Zucchini, R. *see* Lauer, J., 91c:81079
- Items listed otherwise than by author
- Ahashta ★ Problems of modern quantum field theory. 91i:81002
- Banfi, AB ★ Particles and fields. 3. 91m:81005
- Institute:
- Particles and Fields ★ Particles and fields. 3. 91m:81005
- Obituary:
- Kaizhnik, V. G. ★ Physics and mathematics of strings. 91m:81006
- Particles and fields ★ Particles and fields. 3. 91m:81005
- Physics and mathematics of strings ★ Physics and mathematics of strings. 91m:81006
- Problems of modern quantum field theory ★ Problems of modern quantum field theory. 91i:81002
- School:
- Problems of Modern Quantum Field Theory ★ Problems of modern quantum field theory. 91i:81002
- 81T50 Anomalies
- Abud, Mario (with Ader, Jean Pierre; Gieres, François) Algebraic determination of covariant anomalies and Schwinger terms. 91f:81090
- Ader, Jean Pierre *see* Abud, Mario; et al., 91f:81090
- Alves, M. S. (with Barcelos-Neto, J.) Path integrals and the trace anomaly in a self-interacting scalar theory. 91b:81140
- (with Barcelos-Neto, J.) Trace anomaly in a theory with bosons and fermions. 91d:81138
- (with Farina de Souza, Carlos; Wotzasek, Clovis) Heat-kernel and negative-power-kernel regularization prescriptions in the computation of anomalies. (Not in MR)
- Amati, D. (with Klimčik, C.) Nonperturbative computation of the Weyl anomaly for a class of nontrivial backgrounds. 91b:81141
- Banerjee, H. (with Bhattacharya, Gautam; Banerjee, Rabin) Gauge theory of SU(2) Weyl fermion: is it consistent? 91f:81099
- Banerjee, Rabin Covariant anomalies and Schwinger terms in anomalous gauge theories. (Not in MR)
- *see also* Banerjee, H.; et al., 91f:81099
- Barcelos-Neto, J. *see* Alves, M. S., 91b:81140 and 91d:81138
- Bars, Itzhak Membrane symmetries and anomalies. 91b:81182
- Baulieu, Laurent (with Bellon, M.; Grimm, Richard) Left-right asymmetric conformal anomalies. 91b:81142
- Bellon, M. *see* Baulieu, Laurent; et al., 91b:81142
- Bhattacharya, Gautam *see* Banerjee, H.; et al., 91f:81099
- Brandt, Friedemann (with Dragon, Norbert; Kreuzer, Maximilian) Completeness and nontriviality of the solutions of the consistency conditions. 91j:81086
- (with Dragon, Norbert; Kreuzer, Maximilian) Lie algebra cohomology. 91j:81087
- (with Dragon, Norbert; Kreuzer, Maximilian) The gravitational anomalies. 91m:81277
- Bruce, S. A. A note on bosonic (spin-0) current algebras. 91f:81198
- Errata: "A note on bosonic (spin-0) current algebras" [Nuovo Cimento A (11) 103 (1990), no. 8, 1229–1232; MR 91f:81198]. (Not in MR)
- Bukhinder, I. L. (with Kuzenko, S. M.; Solov'ev, O. A.) Effective action and superconformal anomalies of (p, p) - σ -models in $(1, 1)$ -superspace. 91b:81143
- Catenacci, Roberto (with Pirola, Gian Pietro) A geometrical description of local and global anomalies. 91a:81197
- Cognola, Guido (with Giacconi, Paola) Consistent anomalies in the presence of torsion. 91f:81199
- (with Giacconi, Paola; Soldati, Roberto) Effective actions with vector-axial-vector couplings on Riemann-Cartan manifolds. 91b:81183
- Démichev, A. P. (with Iofa, M. Z.) BRST-quantization of one-dimensional gravity. 91b:81158
- Dragon, Norbert *see* Brandt, Friedemann; et al., 91j:81086; 91j:81087 and 91m:81277
- Elkhovskii, A. S. *see* Kolokolov, I. V., 91c:81152
- Farina de Souza, Carlos *see* Alves, M. S.; et al., (Not in MR)
- Fujikawa, Kazuo (with Inagaki, Takeshi; Suzuki, Hiroshi) BRS current and related anomalies in two-dimensional gravity and string theories. 91f:81200
- Giacconi, Paola *see* Cognola, Guido, 91f:81199 and 91b:81183
- Gieres, François *see* Abud, Mario; et al., 91f:81090
- Gozzi, E. (with Rohrich, Daniel; Thacker, W. D.) Classical adiabatic holonomy in field theory. 91j:81088
- Grimm, Richard *see* Baulieu, Laurent; et al., 91b:81142
- Ichinose, Ikao *see* Yamaguchi, Masahiro; et al., 91f:81203
- Inagaki, Takeshi *see* Fujikawa, Kazuo; et al., 91f:81200
- Iofa, M. Z. *see* Démichev, A. P., 91b:81158
- Itoh, Toshiharu (with Odaka, Kazuhiko) A particle-picture approach to integrated chiral U(1) anomaly in Minkowski space-time. 91m:81278
- Jing, Si Cong Berry's phase in coset pure gauge theories. (Not in MR)
- Ketov, S. V. Anomalies of Kaluza-Klein theories in six dimensions. 91g:81153
- Klimčik, C. *see* Amati, D., 91b:81141
- Kolokolov, I. V. (with Elkhovskii, A. S.) Schwinger terms as a source of gauge anomaly in the Hamiltonian approach. 91c:81152
- Kowalski-Glikman, Jerzy On the Gupta-Bleuler quantization of anomalous theories. 91b:81154
- Kreimer, Dirk The γ_5 -problem and anomalies—a Clifford algebra approach. 91e:81100
- Kreuzer, Maximilian *see* Brandt, Friedemann; et al., 91j:81086; 91j:81087 and 91m:81277
- Kuzenko, S. M. *see* Bukhinder, I. L.; et al., 91b:81143
- Li, Hao Ming *see* Reichl, L. E., 91b:81159
- Mickelsson, Jouko On the Hamiltonian approach to commutator anomalies in $(3 + 1)$ dimensions. 91m:81279
- Morita, Katsusada Note on the modified anomaly equation of Nielsen and Schroer in arbitrary even dimensions. 91d:81139a
- Errata: "Note on the modified anomaly equation of Nielsen and Schroer in arbitrary even dimensions". 91d:81139b
- Obukhov, Yu. N. (with Solodukhin, S. N.) Dynamical gravity and conformal and Lorentz anomalies in two dimensions. 91m:81280
- Odaka, Kazuhiko *see* Itoh, Toshiharu, 91m:81278
- Okubo, Susumu (with Tosa, Yasunari) Further study of global gauge anomalies of simple groups. 91d:81140a
- Onogi, Tetsuya *see* Yamaguchi, Masahiro; et al., 91f:81203
- Pirola, Gian Pietro *see* Catenacci, Roberto, 91a:81197
- Quackenbush, John Chiral anomalies in two-dimensional quantum field theory. 91c:81153
- Reichl, L. E. (with Li, Hao Ming) Self-similarity in quantum dynamics. 91b:81159
- Robertson, David G. Composite operator renormalization and the trace anomaly. (Not in MR)
- Rohrich, Daniel *see* Gozzi, E.; et al., 91j:81088
- Schaller, Peter (with Schwarz, Günter) Anomalies from geometric quantization of fermionic field theories. 91j:81089
- Schmid, Rudolf BRST cohomology and anomalies. 91b:81144
- Schwarz, Günter *see* Schaller, Peter, 91j:81089
- Schwiebert, Christian A simple algebraic derivation of Schwinger terms from chiral anomalies. 91e:81101
- Note on a field theoretical version of the descent equations. 91f:81201
- Sitenko, Yu. A. U(1) anomalies and zero modes in two-dimensional Euclidean quantum electrodynamics. (Russian) 91b:81160

- Soldati, Roberto *see* Cognola, Guido; et al., 91k:81183
- Solodukhin, S. N. The two-dimensional gauge anomaly as a curvature. 91h:81161
- (with Tentyukov, M. N.) ★ Структура конформной и Лоренцевой аномалий в двух измерениях. (Russian) [The structure of conformal and Lorentz anomalies in two dimensions] 91f:81202
- *see also* Obukhov, Yu. N., 91m:81280
- Solov'ev, O. A. *see* Bikkhinder, I. L.; et al., 91h:81143
- Suzuki, Hiroshi *see* Fujikawa, Kazuo; et al., 91f:81200
- Tentyukov, M. N. *see* Solodukhin, S. N., 91f:81202
- Thacker, W. D. *see* Gerz, E.; et al., 91j:81088
- Tonin, M. Covariant quantization and anomalies of the G-S heterotic σ -model. 91m:81281
- Tosa, Yasumari Global gauge anomalies for theories with the Green-Schwarz local-anomaly-cancellation mechanism. 91d:81140b
- *see also* Okubo, Susumu, 91d:81140a
- Tsutsui, Izumi Covariant anomalies in cohomology approach. 91h:81145
- Vladimirov, A. A. On the origin of the Schwinger anomaly. 91a:81198
- Wetzasek, Clovis The quantum rotor as an anomalous gauge theory. 91h:81162
- *see also* Alves, M. S.; et al., (Not in MR)
- Wu, Yong Shi¹ (with Zhao, Wei Dong) Suppression of local degrees of freedom of gauge fields by chiral anomalies. 91g:81155
- Yamaguchi, Masahiro (with Onogi, Tetsuya; Ichinose, Ikuro) Ambiguities and BRST anomalies in 4D heterotic string theories. 91f:81203
- Zhao, Wei Dong *see* Wu, Yong Shi¹, 91g:81155
- Items with secondary classifications in 81T50
- Abud, Mario (with Ader, Jean Pierre; Wallet, J.-C.) The gauged BRST symmetry. 91e:81091
- Ader, Jean Pierre *see* Abud, Mario; et al., 91i:81091
- Affleck, Ian A current algebra approach to the Kondo effect. 91c:81188
- Bandelloni, Giuseppe Diffeomorphism cohomology in quantum-field-theory models. 91d:81146
- Bar-Moshe, David (with Marinov, Michael; Oz, Yaron) Bosonized actions for anomalous gauge theories on coadjoint orbits. 91h:81072
- Bian, Matthias Group cocycles, line bundles, and anomalies. 91h:81265
- Braden, Harry W. (with Siegart, D. K.) $SU(n)$ anomaly generating functionals: a toolkit for model builders. 91c:22035
- Bressloff, P. C. (with Taylor, John G.; Restuccia, A.) Chiral partition functions and determinants by light cone gauge techniques. 91f:81141
- Casas, J. A. (with Katehou, E. K.; Muñoz, C.) $U(1)$ charges in orbifolds: anomaly cancellation and phenomenological consequences. 91f:81142
- Catenacci, Roberto (with Reina, Cesare) Liftings of group actions and physical applications. (Italian. English summary) 91j:58014
- Démichev, A. P. (with Iofa, M. Z.) Anomalous BRST Ward identity in string theory. 91g:81112
- (with Iofa, M. Z.) BRST anomaly in string theory. 91h:81101
- Deng, Kai (with Liang, Can Bin) The topological anomaly in the spacetime of two Schwarzschild black holes. (Chinese. English summary) 91d:83080
- Goodagnini, E. Interacting physical states of the bosonic string. I, II. 91m:81203
- Gao, Han Ying *see* Yu, Yue, 91b:81163
- Harvey, Jeffrey A. (with Liu, James) Strings and statistics. 91d:81103
- He, Xiao-Gang (with Joshi, Girish C.) Anomaly in even dimensions with an arbitrary signature and the finite-temperature effect. 91h:81091
- Heil, Alios Anton (with Kersch, A.; Papadopoulos, N. A.; Reichenhauer, B.; Scheck, Florian) Anomalies from nonfree action of the gauge group. 91d:58257
- Howe, P. S. (with Townsend, P. K.) Chern-Simons quantum mechanics. 91k:81097
- (with Lindström, U.; White, P.) Anomalies and renormalisation in the BRST-BV framework. 91h:81174
- Iofa, M. Z. *see* Démichev, A. P., 91h:81101 and 91g:81112
- Joshi, Girish C. *see* He, Xiao-Gang, 91h:81091
- Kamling, Yasuhito "Trace anomaly approach" to black hole evaporation—a critique. 91b:83055
- Kanno, Hiroaki Observables in topological Yang-Mills theory and the Gribov problem. 91m:81298
- Katehou, E. K. *see* Casas, J. A.; et al., 91f:81142
- Kersch, A. *see* Heil, Alios Anton; et al., 91d:58257
- Ketov, S. V. On the topological value of anomalies in Kaluza-Klein field theories. 91a:83081
- Kim, Jewan (with Lee, Taejin) Two-dimensional quantum gravity and anomalous gauge theory. 91m:81252
- Kim, Kee Yong *see* I'Yi, W. S.; et al., 91m:81300
- Kim, Yong Duk *see* I'Yi, W. S.; et al., 91m:81300
- Kuramoto, Tetsuji Two-dimensional supergravity in the super light-cone gauge coupling to a superconformal field theory. 91m:81255
- La, HoSeong Method of orbits and Virasoro Ward identity. 91m:81256
- Lee, Taejin *see* Kim, Jewan, 91m:81252
- Leutwyler, H. Dirac operator and Chern-Simons action. 91m:58165
- Liang, Can Bin *see* Deng, Kai, 91d:83080
- Lindström, U. *see* Howe, P. S.; et al., 91h:81174
- Liu, James *see* Harvey, Jeffrey A., 91d:81103
- Maillet, Jean-Michel (with Niemi, Antti J.) Topological Yang-Mills theory is abelian chiral anomaly in superspace. 91h:81072
- Marinov, Michael *see* Bar-Moshe, David; et al., 91k:81072
- McCabe, John Francis Hamiltonian quantization of bosonic Schwinger models. 91m:81131
- Meissner, Krzysztof A. (with Pawelczyk, Jacek) Some perturbative results for two-dimensional gravity. 91d:81080
- Morozov, A. Yu. (with Perelomov, A. M.) Complex geometry and string theory. (Russian) 91d:81108
- Muñoz, C. *see* Casas, J. A.; et al., 91f:81142
- Niemi, Antti J. *see* Maillet, Jean-Michel, 91h:81072
- Oz, Yaron *see* Bar-Moshe, David; et al., 91k:81072
- Papadopoulos, George J. Anomaly cancellation in the path integral quantisation of the $N = 1$ chiral spinning particle. 91d:81144
- Topology, charged particles and anomalies in quantum mechanics. 91m:81105
- Papadopoulos, N. A. *see* Heil, Alios Anton; et al., 91d:58257
- Park, Young-Jai *see* I'Yi, W. S.; et al., 91m:81300
- Pawelczyk, Jacek *see* Meissner, Krzysztof A., 91d:81080
- Perelomov, A. M. *see* Morozov, A. Yu., 91d:81108
- Petropoulos, P. M. S. Comments on $SU(1,1)$ string theory. 91f:81157
- Reichenhauer, B. *see* Heil, Alios Anton; et al., 91d:58257
- Reina, Cesare *see* Catenacci, Roberto, 91j:58014
- Restuccia, A. *see* Bressloff, P. C.; et al., 91f:81141
- Ruijsenaars, S. N. M. Index theorems and anomalies: a common playground for mathematicians and physicists. 91f:58091
- Scheck, Florian *see* Heil, Alios Anton; et al., 91d:58257
- Siegart, D. K. *see* Braden, Harry W., 91c:22035
- Talalov, S. V. The spinning string in four-dimensional space-time as a model of the $SL(2, \mathbb{C})$ chiral field with anomaly. I. 91d:81114
- Taylor, John G. *see* Bressloff, P. C.; et al., 91f:81141
- Townsend, P. K. *see* Howe, P. S., 91k:81097
- Tseytlin, A. A. Sigma model approach to string theory. 91c:81117
- On the structure of the renormalisation group beta functions in a class of 2D models. 91g:81096a
- Errata: "On the structure of the renormalisation group beta functions in a class of 2D models". 91g:81096b
- Vladimirov, V. V. A conformal-anomaly renormalization algorithm and quantization of a bosonic string. 91k:81144
- Wallet, J.-C. *see* Abud, Mario; et al., 91e:81091
- White, P. *see* Howe, P. S.; et al., 91h:81174
- Xu, Rui-Ming BRST quantization of the type II Green-Schwarz string. 91c:81165
- Yajima, Satoshi Index theorem and chiral anomaly in $D = 4$, $N = 1$ supergravity. 91c:83090
- I'Yi, W. S. (with Kim, Kee Yong; Park, Young-Jai; Kim, Yong Duk) Gravitational anomaly and gauged BRST symmetry. 91m:81300
- Yu, Yue (with Guo, Han Ying) Geometric quantization for bosonic strings. II. (Chinese. English summary) 91h:81163

81T60 Supersymmetric field theories

- Abe, Mitsuo (with Nakanishi, Noboru) Supersymmetric extension of local Lorentz symmetry. 91m:81288
- Ader, Jean Pierre (with Gieres, François) Topological super YM and super Donaldson polynomials. 91d:81141
- Bandos, I. A. (with Zheltukhin, A. A.) Twistors, harmonics, and zero-super-p-branes. 91h:81163
- Bartocci, Claudio (with Bruzzo, Ugo; Landi, Giovanni) Geometry of standard constraints and Weil triviality in supersymmetric gauge theories. 91f:81204
- Baulieu, Laurent Chern-Simons three-dimensional and Yang-Mills-Higgs two-dimensional systems as four-dimensional topological quantum field theories. 91g:81156
- Bechi, C. (with Piguet, O.) Superconformal invariance of the $N = (4, 0)$ supersymmetric sigma-models. 91h:81164
- Bellucci, Stefano (with González, J.) Superfield formulation of anti-de Sitter supersymmetry. 91a:81199
- Bergshoeff, E. A. (with van Holten, J. W.) The spectrum of spinning superparticles. 91d:81142
- Bezerra de Mello, E. R. Classical vortex solutions in three-dimensional supersymmetric abelian-Higgs model. 91f:81205
- Bollini, C. G. (with Giambiagi, J. J.) Gauge transformations for six-dimensional superfields. (Not in MR)
- Bruzzo, Ugo *see* Bartocci, Claudio; et al., 91f:81204
- Casahorran, Javier A new version of the Witten index. 91k:81184
- Cecotti, S. Stringy cosmic strings and SUSY gauge theories. 91m:81282
- Delduc, F. (with Kalitzin, S.; Skatchev, E.) Geometry of σ -models with heterotic supersymmetry. 91k:81185
- Dixon, John A. Supersymmetry is full of holes. 91m:81283
- Doria, Mauro M. (with Yu, Li Fa) Extended Parisi-Sourlas supersymmetry and the lowering of the critical dimension from D to $D - 4$. 91c:81154
- Duplii, S. A. Superconformal $N = 2$ transformations and Riemann surfaces. (Russian. English summary) 91k:81186
- Fendley, Paul (with Mathur, Samir D.; Vafa, Cumrun; Warner, Nicholas P.) Integrable deformations and scattering matrices for the $N = 2$ supersymmetric discrete series. 91m:81284
- Fronsdal, C. (with Galindo, A.) Unconstrained supersymmetry. 91m:81285
- Galindo, A. *see* Fronsdal, C., 91m:81285
- Gauntlett, J. P. (with Yastremiz, C. F.) Massive superparticle in $d = 2 + 1$ and sigma model solitons. 91j:81090
- Giambiagi, J. J. *see* Bollini, C. G., (Not in MR)
- Gieres, François *see* Ader, Jean Pierre, 91d:81141
- González, J. A new vacuum for the supersymmetric one-dimensional discretized string. 91k:81187
- *see also* Bellucci, Stefano, 91a:81199
- Gracey, J. A. Critical exponents for the supersymmetric σ -model. 91f:81206
- Helayel-Neto, José A. (with Mokhtari, Susan; Smith, A. William) Torsion-induced gauge superfield mass generation for gauge-invariant nonlinear σ -models. 91e:81102
- (with Smith, A. William) A higher-order analysis of the effects of breaking supersymmetry for nonlinear σ -models. 91h:81146
- Houšek, Zvonimir (with Spector, Donald) Supersymmetric anyons. 91h:81165
- van Holten, J. W. *see* Bergshoeff, E. A., 91d:81142
- Hull, Christopher M. (with Spence, B.; Vázquez-Bello, J. L.) The geometry of quantum gauge theories: a superspace formulation of BRST symmetry. 91m:81286

- Itoyama, Hiroshi (with Razzaghe-Ashrafi, B.) Ground-state structure of supersymmetric Yang-Mills theory. (Not in MR)
- Kalitzin, S. see Delduc, F.; et al., 91h:81185
- Kanno, Hiroaki Nonlinear realization of supersymmetry based on the frame matrix representation of the Grassmann manifold—geometrical meaning of the ξ -field in a supersymmetric extension of local Lorentz symmetry. 91m:81287
- Ketov, S. V. A new finite $N = 2$ supersymmetric sigma-model with higher derivatives in dimension four. 91h:81166
- (with Kuzenko, S. M.; Solov'ev, O. A.) (1,0)-covariant supergraphs. 91f:81207
- Kotcheff, A. C. W. (with Shore, G. M.) Kähler sigma models from supersymmetric gauge theories. 91h:81147
- (with Shore, G. M.) Phenomenological Kähler sigma models. I. 91a:81200
- (with Shore, G. M.) Phenomenological Kähler sigma models. II. Four-Fermi interactions in a realistic composite model. 91g:81157
- Kravchenko, O. S. (with Semikhatov, A. M.) Operator formalism and tau function for supersymmetric ghosts in higher genus. 91h:81148a
- (with Semikhatov, A. M.) Erratum: "Operator formalism and tau function for supersymmetric ghosts in higher genus". 91h:81148b
- Kuzenko, S. M. see Ketov, S. V.; et al., 91f:81207
- Kuznetsov, A. N. Topological field theory and local supersymmetry. 91d:81143
- Landi, Giovanni see Bartocci, Claudio; et al., 91f:81284
- Légaré, M. Symmetry reduction of the Wess-Zumino model and supersymmetric reduced systems. 91m:81289
- Lindström, U. (with Roček, M.) $N = 2$ super Yang-Mills theory in projective superspace. 91f:81208
- Mathur, Samir D. see Fendley, Paul; et al., 91m:81284
- Mokhtari, Susan see Helayir-Neto, José A.; et al., 91e:81102
- Moroianu, A. Ya. (with Rosly, A. A.) Torons, projections, Riemann surfaces, and fermion condensates in supersymmetric sigma models. 91c:81155
- Miezys, M. New class of nonlinear realizations of extended graded anti-de-Sitter supersymmetry $OSp(N,4)$, $N \geq 2$. 91h:81156
- Nakanishi, Noboru see Abe, Mitsuo, 91m:81288
- Papadopoulos, George J. Anomaly cancellation in the path integral quantisation of the $N = 1$ chiral spinning particle. 91d:81144
- Piette, Bernard (with Zait, R. A.; Zakrzewski, Wojciech J.) Solutions of the supersymmetric $U(N)$ σ models with the Wess-Zumino-Witten term. 91h:81149
- Pignat, O. see Becchi, C., 91h:81164
- Pilot, Christopher (with Rajpoot, Subhash) The construction of left- and right-handed chiral superfields in $(1, \frac{1}{2}) + (\frac{1}{2}, 1)$ supersymmetry. (Not in MR)
- Plyushchay, M. S. Supersymmetric massless particle with rigidity. 91f:81209
- Pope, C. N. Quantization of super p -branes. (See 91k:81006)
- Rajpoot, Subhash see Pilot, Christopher, (Not in MR)
- Rashkov, R. Ch. On the super Wess-Zumino-Novikov-Witten model and 2D supergravity. 91h:81167
- Razzaghe-Ashrafi, B. see Itoyama, Hiroshi, (Not in MR)
- Roček, M. see Lindström, U., 91f:81208
- Rosly, A. A. see Moroianu, A. Ya., 91c:81155
- Roy, Pinaki (with Varshni, Y. P.) On quasi-exactly solvable problems and supersymmetry. (Not in MR)
- Saidi, E. H. New classes of $D = 4$, $N = 2$ supersymmetric nonlinear σ models. 91f:81210
- Semikhatov, A. M. Supersymmetric coset models in terms of free superfields. 91c:81157
- see also Kravchenko, O. S., 91h:81148a and 91h:81148b
- Shore, G. M. see Kotcheff, A. C. W., 91a:81200; 91h:81147 and 91g:81157
- Siegel, Warren 1D bosonization, 3D extended superparticles, Chern-Simons, and twistors. (Not in MR)
- Smith, A. William see Helayir-Neto, José A., 91h:81146 and 91e:81102
- Sokatchev, E. see Delduc, F.; et al., 91h:81185
- Solov'ev, O. A. see Ketov, S. V.; et al., 91f:81207
- Spector, Donald see Hlousek, Zvonimir, 91h:81165
- Spence, B. see Hull, Christopher M.; et al., 91m:81286
- Toller, M. Supersymmetry and maximal acceleration. (Not in MR)
- Vafa, Cumrun see Fendley, Paul; et al., 91m:81284
- Varshni, Y. P. see Roy, Pinaki, (Not in MR)
- Vázquez-Bello, J. L. see Hull, Christopher M.; et al., 91m:81286
- Warner, Nicholas P. see Fendley, Paul; et al., 91m:81284
- Yastremiz, C. F. see Gauntlett, J. P., 91j:81090
- Yu, Li Fa see Doris, Mauro M., 91c:81154
- Zait, R. A. see Piette, Bernard; et al., 91h:81149
- Zakrzewski, Wojciech J. see Piette, Bernard; et al., 91h:81149
- Zhelukhin, A. A. see Bando, I. A., 91h:81163
- Items with secondary classifications in 81T60
- Abe, Mitsuo Supersymmetric extension of local Lorentz symmetry in the vierbein formalism of Einstein gravity. 91m:83041
- Alvarez, Orlando (with Singer, Isadore; Windey, Paul) Quantum mechanics and the geometry of the Weyl character formula. 91f:22021
- Alves, M. S. (with Barcelos-Neto, J.) Trace anomaly in a theory with bosons and fermions. 91d:81138
- Aoki, Kenichiro see Montano, David; et al., 91m:81259
- Aoyama, S. 2D effective supergravity on the coadjoint orbit of the superconformal group. 91f:81168
- (with Julve, J.) Composition formula for 2D effective supergravity. 91h:81133
- Barcelos-Neto, J. see Alves, M. S., 91d:81138
- Bellucci, Stefano (with Govindarajan, T. R.; Kumar, Alok²; Oerter, R. N.) On the nonperturbative solution of the $d = 1$ superstring. 91h:81112
- (with Depireux, Didier A.; Gates, S. James, Jr.) Consistent and universal inclusion of the Lorentz Chern-Simons form in $D = 10$, $N = 1$ supergravity theories. 91m:83087
- Bernard, Denis (with LeClair, André) The fractional supersymmetric sine-Gordon models. 91k:81149
- Bollé, D. (with Dupont, Patrick Jean) Stochastic identities on manifolds. 91b:81084
- Brooks, Roger (with Kastor, David) Morphisms between supersymmetric and topological quantum field theories. 91m:81232
- Bryant, Peter R. Graded Riemann surfaces and Krichever-Novikov algebras. 91m:14083
- Bytsenko, A. A. (with Kitorov, S. A.) Temperature induced Casimir effect in Kaluza-Klein supersymmetric theories compactified on torus. 91f:81122
- see also West, Peter C., 91f:81003
- Cabra, D. (with Moreno, Enrique Francisco; von Reichenbach, Cecilia) Conformally invariant constrained fermion models. 91c:81126
- Damgaard, Poul H. (with Rivelles, V. O.) Symmetries of Chern-Simons theory in Landau gauge. 91h:81089
- Depireux, Didier A. Fermionic realization of $W_{1+\infty}$. 91m:81084
- see also Bellucci, Stefano; et al., 91m:83087
- Di Francesco, P. (with Distler, Jacques; Kutasov, David) Superdiscrete series coupled to 2D supergravity. 91k:81158
- Distler, Jacques (with Hlousek, Zvonimir; Kawai, Hikaru) Super-Liouville theory as a two-dimensional, superconformal supergravity theory. 91d:81123
- see also Di Francesco, P.; et al., 91k:81158
- Di Vecchia, P. (with Madsen, Rune Asger; Hornfeck, K.; Roland, K. O.) A vertex including emission of spin fields. 91g:81113
- Dupont, Patrick Jean see Bollé, D., 91b:81084
- Eguchi, Tohru (with Yang, Sung-Kil) $N = 2$ superconformal models as topological field theories. 91g:81135
- Fujikawa, Kazuo (with Inagaki, Takeshi; Suzuki, Hiroshi) BRS current and related anomalies in two-dimensional gravity and string theories. 91f:81200
- Gal'perin, A. S. (with Ogievetskii, O. V.) Extended supersymmetries in topological Yang-Mills theory. 91c:57035
- Gates, S. James, Jr. see Bellucci, Stefano; et al., 91m:83087
- Gauthier, Claude (with Gravel, Pierre) Complément sur les constantes de couplage et les masses dans les théories de Kaluza-Klein avec un espace supérieur multiconnexe. (English, Italian and Russian summaries) [Complement on coupling constants and masses in Kaluza-Klein theories with a multiply connected higher space] 91c:83035
- Girardello, L. (with Pasquinucci, A.; Porrati, Massimo) $N = 2$ Morse-Liouville theory and nonminimal superconformal theories. 91m:81246
- Govindarajan, T. R. see Bellucci, Stefano; et al., 91h:81112
- Gravel, Pierre see Gauthier, Claude, 91c:83035
- Grigoryan, R. P. (with Tyutin, I. V.) Multiplicative renormalization of $N = 1$ supersymmetric Yang-Mills theories: the $SU(2)$ group. 91m:81160
- Grimm, Richard Supergravity, Kähler superspace and gauged supersymmetric sigma models. 91g:83058
- Häufling, R. (with Papadopoulos, N. A.; Schreck, Florian) $SU(2|1)$ symmetry, algebraic superconnections and a generalized theory of electroweak interactions. (Not in MR)
- Hegazi, A. S. Representations of Heisenberg Lie super algebras. 91g:17037
- Hietamäki, A. (with Niemi, Antti J.; Tirkkonen, O.) Four-dimensional topological Yang-Mills theory. Symmetries, local observables, Wilson loops and confinement. 91h:81092
- Hlousek, Zvonimir see Distler, Jacques; et al., 91d:81123
- Hori, Takayuki Lorentz p -brane, superalgebra and conformal invariance. 91b:81130
- Hornfeck, K. see Di Vecchia, P.; et al., 91g:81113
- Howe, P. S. (with Townsend, P. K.) Chern-Simons quantum mechanics. 91k:81097
- Hull, Christopher M. (with Spence, B.) The $(2,0)$ supersymmetric Wess-Zumino-Witten model. 91m:81250
- Inagaki, Takeshi see Fujikawa, Kazuo; et al., 91f:81200
- Julve, J. see Aoyama, S., 91h:81133
- Kastor, David see Brooks, Roger, 91m:81232
- Kawai, Hikaru see Distler, Jacques; et al., 91d:81123
- Kawamoto, Noboru (with Sacki, Yuji) Ward identities and differential equations of the $N = 1$, 2 superconformal algebra on the super-torus. 91g:81139
- Ketov, S. V. (with Prager, Ya. S.) On the "square root" of the Dirac equation within extended supersymmetry. 91k:81061
- Klein, Abel (with Lacroix, Jean; Speis, Athanasios) Regularity of the density of states in the Anderson model on a strip for potentials with singular continuous distributions. 91g:82033
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) Wilson loop observables in $(2+1)$ -dimensional Chern-Simons supergravity. 91h:81095
- Kitorov, S. A. see Bytsenko, A. A., 91f:81122
- (Kalish, P. P.) see West, Peter C., 91f:81003
- Kumar, Alok² see Bellucci, Stefano; et al., 91h:81112
- Kuramoto, Tetsuji Two-dimensional supergravity in the super light-cone gauge coupling to a superconformal field theory. 91m:81255
- Kutasov, David (with Seiberg, Nathan) Noncritical superstrings. 91j:81081
- see also Di Francesco, P.; et al., 91k:81158
- Lacroix, Jean see Klein, Abel; et al., 91g:82033
- LeClair, André see Bernard, Denis, 91h:81149
- Lee, Choonkyu (with Lee, Kimyeong; Weinberg, Erick J.) Supersymmetry and self-dual Chern-Simons systems. 91d:81067
- Lee, Kimyeong see Lee, Choonkyu; et al., 91d:81067
- Liao, H. C. (with Mansfield, Paul) Light-cone quantization of the super-Liouville theory. 91h:81176
- Madsen, Rune Asger see Di Vecchia, P.; et al., 91g:81113
- Mansfield, Paul see Liao, H. C., 91h:81176
- Mansouri, F. see Koehler, Kenneth Rowland; et al., 91h:81095
- Marinari, Enzo (with Parisi, Giorgio) The supersymmetric one-dimensional string. 91c:81080
- Mathies, Pierre Super Miura transformations, super Schwarzian derivatives and super Hill operators. 91m:58076
- Integrability of perturbed superconformal minimal models. 91k:81172
- Matsui, Tetsuo Supersymmetry and its breaking in lattice gauge theories. (See 91j:81003)
- Merkulov, S. A. Geometry of $N = 1$ supergravity in $(m|n + n)$ -dimensional superspace. 91k:83088
- Montano, David (with Aoki, Kenichiro; Sonnenschein, Jacob) Topological supergravity in two dimensions. 91m:81259

- Muñoz, Enrique Francisco *see* Cabra, D.; et al., 91c:81126
- Nakahara, Tsuyoshi (with Suematsu, Daijirō) Hidden sector structure and fractionally charged states in Calabi-Yau compactified string model. 91c:81111
- Nam, Soonkeon Nonunitary supersymmetric conformal field theories and supersymmetric sine-Gordon equation. 91k:81176
- Nicolai, H. Noncompact symmetries, extended supergravities and the Wheeler-DeWitt equation. 91h:83096
- Niederle, Jiri From twistors to super-twistors. 91m:32033
- Niemi, Antti J. *see* Hietamäki, A.; et al., 91h:81092
- Nissimov, E. (with Pacheva, S.; Solomon, Sorin) Action principle for overdetermined systems of nonlinear field equations. 91g:81158
- Nojiri, Shin'ichi A candidate of superstrings in less than one dimension. 91m:81219
- Oerter, R. N. *see* Bellucci, Stefano; et al., 91h:81112
- Ogievetskiĭ, O. V. *see* Gal'perin, A. S., 91c:7035
- Ohta, Nobuyoshi (with Suzuki, Hisao) $N = 2$ superconformal models and their free field realization. 91m:81263
- Pacheva, S. *see* Nissimov, E.; et al., 91g:81158
- Papadopoulos, N. A. *see* Hänßling, R.; et al., (Not in MR)
- Parisi, Giorgio *see* Marinari, Enzo, 91c:81080
- Pasquinucci, A. *see* Girardello, L.; et al., 91m:81246
- Pilot, Christopher (with Rajpoot, Subhash) A superspace of $(1, 1/2) + (1/2, 1)$ fermionic coordinates. 91h:17006
- Physuchai, M. S. Lagrangian formulation for the massless (super)particles in (super)twistor approach. 91g:81048
- Poratti, Massimo *see* Girardello, L.; et al., 91m:81246
- Prager, Ya. S. *see* Ketov, S. V., 91k:81061
- Rajpoot, Subhash *see* Pilot, Christopher, 91h:17006
- von Reichenbach, Cecilia *see* Cabra, D.; et al., 91c:81126
- Rivelles, V. O. *see* Damgaard, Poul H., 91h:81089
- Robertson, David G. Composite operator renormalization and the trace anomaly. (Not in MR)
- Roland, K. O. *see* Di Vecchia, P.; et al., 91g:81113
- Saeki, Yuji *see* Kawamoto, Noboru, 91g:81139
- Scheck, Florian *see* Hänßling, R.; et al., (Not in MR)
- Schlimmer, Frank The Knizhnik-Polyakov-Zamolodchikov equation in induced quantum (super)gravity. 91m:81272
- Schoutens, Kareljan Supersymmetry and factorizable scattering. 91i:81088
- Schwarz, John H. Superconformal symmetry in string theory. (see 91m:81005)
- Seiberg, Nathan *see* Kutasov, David, 91j:81081
- Shore, G. M. Geometry of supersymmetric sigma models. II. Fermions, connections and currents. 91h:53067
- Singer, Isadore *see* Alvarez, Orlando; et al., 91f:22021
- Solomon, Sorin *see* Nissimov, E.; et al., 91g:81158
- Sonnenschein, Jacob *see* Montano, David; et al., 91m:81259
- Sorokin, D. P. (with Tkach, V. I.; Volkov, D. V.) Superparticles, twistors and Siegel symmetry. 91g:81049
- Speis, Athanasios *see* Klein, Abel; et al., 91g:82033
- Spence, B. *see* Hull, Christopher M., 91m:81250
- Strominger, Andrew Heterotic solitons. 91m:8125a
- Erratum: "Heterotic solitons". 91m:8125b
- Suematsu, Daijirō *see* Nakahara, Tsuyoshi, 91c:81111
- Suzuki, Hiroshi *see* Fujikawa, Kazuo; et al., 91f:81200
- Suzuki, Hisao *see* Ohta, Nobuyoshi, 91m:81263
- Tanaka, Katsumi¹ Solvable two-dimensional supersymmetric models and the supersymmetric Virasoro algebra. 91k:81179
- Tirkkonen, O. *see* Hietamäki, A.; et al., 91h:81092
- Tkach, V. I. *see* Sorokin, D. P.; et al., 91g:81049
- Townsend, P. K. *see* Howe, P. S., 91k:81097
- Tyutin, I. V. *see* Grigoryan, R. P., 91m:81160
- Vafa, Cumrun Quantum symmetries of string vacua. 91g:81129
- Van Proeyen, A. *see* De Wit, B., 91m:81274
- Vashakidze, Sh. I. ★ ИА супергеометрия для σ -моделей Грина-Шварца. (Russian) [IA supergeometry for the Green-Schwarz σ -model] 91k:81143
- Vaz, Crenato *see* Koehler, Kenneth Rowland; et al., 91h:81095
- Vladimirov, V. S. (with Volovich, I. V.) Construction of local and nonlocal conservation laws for nonlinear field equations. (German summary) 91m:81096
- Volkov, D. V. (with Zheltukhin, A. A.) Lagrangians for massless particles and strings with local and global supersymmetry. 91h:81118
- *see also* Sorokin, D. P.; et al., 91g:81049
- Volovich, I. V. *see* Vladimirov, V. S., 91m:81096
- Wang, Shi Kun (with Xu, Kai Wen) Superconformal algebra of meromorphic vector fields with multipoles on a super Riemann sphere. 91k:17025
- Weinberg, Erick J. *see* Lee, Choonkyu; et al., 91d:81067
- West, Peter C. ★ Введение в суперсимметрию и супергравитацию. (Russian) [Introduction to supersymmetry and supergravity] 91f:81003
- Witney, Paul *see* Alvarez, Orlando; et al., 91f:22021
- de Wit, B. (with Van Proeyen, Antoine) Symmetries of dual-quaternionic manifolds. 91m:81274
- Witten, L. *see* Koehler, Kenneth Rowland; et al., 91h:81095
- Xu, Kai Wen *see* Wang, Shi Kun, 91k:17025
- Yang, Sung-Kil *see* Eguchi, Tohru, 91g:81135
- Zheltukhin, A. A. *see* Volkov, D. V., 91h:81118
- Abud, Mario (with Ader, Jean Pierre; Wallet, J.-C.) The gauged BRST symmetry. 91c:81091
- Ader, Jean Pierre *see* Abud, Mario; et al., 91c:81091
- Aldaya, Víctor (with Loll, R.; Navarro-Salas, José) BRST supergroups and quantization. 91h:81150
- (with Loll, R.; Navarro-Salas, José) The electromagnetic group: bosonic BRST charge. 91h:81168
- Alessandrini, V. Hamiltonian BRST quantisation and semiclassical perturbation theory. (see 91j:81003)
- Alfaro, Jorge (with Damgaard, Poul H.) Field transformations, collective coordinates and BRST invariance. 91k:81188
- Aratyn, Henrik BRS cohomology in string theory: geometry of abelization and the quartet mechanism. 91f:81212
- Bailie, Clive F. (with Johnston, Desmond Alexander; Williams, Roy D.) Crumpling in dynamically triangulated random surfaces with extrinsic curvature. 91h:81152
- (with Williams, Roy D.; Johnston, Desmond Alexander) Crumpling dynamically triangulated random surfaces in higher dimensions. 91h:81151
- Baleanu, D. (with Tatar, L.) BRST quantization of the anti-symmetric tensor gauge theories. (Not in MR)
- Bandeloni, Giuseppe Diffeomorphism cohomology in quantum-field-theory models. 91d:81146
- Bandos, I. A. Multivalued action functionals, Lorentz harmonics, and spin. 91k:81189
- Bastianelli, Fiorenzo (with Delius, Gustav W.; Laenen, Eric) Free quantum action and BRST charge for the superparticle. 91d:81147
- Batalin, I. A. (with Lavrov, P. M.; Tyutin, I. V.) Extended BRST quantization of gauge theories in the generalized canonical formalism. 91a:81201
- (with Lavrov, P. M.; Tyutin, I. V.) Covariant quantization of gauge theories in the framework of extended BRST symmetry. 91c:81103
- Baulieu, Laurent (with Singer, Isadore) The topological sigma model. 91h:81153
- Bergshoeff, E. A. (with Kallosh, Renata) BRST₁ quantization of the Green-Schwarz superstring. 91f:81213
- (with Kallosh, Renata) Unconstrained BRST for superparticles. 91a:81202
- (with Kallosh, Renata; Van Proeyen, Antoine) The cohomology of the Brink-Schwarz superparticle. 91k:81190
- Blasi, Alberto (with Collina, R.) Basic cohomology of topological quantum field theories. 91f:81214
- Bos, Michiel (with Nair, V. P.) Coherent state quantization of Chern-Simons theory. 91i:81203
- Boya, Luis J. (with Casahorran, Javier) General scalar bidimensional models including kinks. 91c:81158
- Bressloff, P. C. (with Taylor, John G.; Nouri-Moghadem, M.) On the BFV quantisation of the particle. 91c:81159
- Brooks, Roger The spectrum of topological quantum field theories on N -manifolds. 91d:81148
- Cabo, Alejandro (with Chaichian, M.; Louis-Martinez, Domingo; Prekajder, P.) An alternative derivation of the Faddeev-Popov path integral. 91m:81290
- Casahorran, Javier *see* Boya, Luis J., 91c:81158
- Castellani, Leonardo A geometric interpretation of BRST symmetry. 91h:81169
- Chaichian, M. *see* Cabo, Alejandro; et al., 91m:81290
- Chen, Wei BRST quantization of topological field theory. 91k:81191
- Clarke, C. J. S. Quantization by nonabelian promeasures. 91k:81192
- Collina, R. *see* Blasi, Alberto, 91f:81214
- Cugliandolo, Leticia F. (with Lozano, Gustavo; Montani, H.; Schaposnik, Fidel A.) A comment on topological field theory quantization and stochastic processes. 91h:81170
- Damgaard, Poul H. *see* Alfaro, Jorge, 91k:81188
- Dao Vung Da'e (with Nguyen Thi Hong) BRST cohomology operators on string superforms. 91h:81154
- Darkhosh, Teymour Dirac quantization of massive spin-one particles in an external symmetrical tensor field. 91f:81215
- Das, Ashok The origin of Q_{BRST} in integrable models. (Not in MR)
- Delius, Gustav W. *see* Bastianelli, Fiorenzo; et al., 91d:81147
- Dinariev, O. Yu. Quantization of an exactly solvable model with dissipation. 91k:81193
- Ditt, Joseph Star-product approach to quantum field theory: the free scalar field. 91m:81291
- Elitzur, Shmuel (with Moore, Gregory W.; Schwimmer, Adam; Seiberg, Nathan) Remarks on the canonical quantization of the Chern-Simons-Witten theory. 91c:81104
- Embacher, Franz Abelianization by operator equivalence in string theory. 91h:81171
- Evans, Jonathan M. Canonical quantisation of massless superparticles. 91a:81204
- Fei, S. M. *see* Yu, Yue, 91h:81164
- Feinberg, Joshua (with Moshe, Moshe) Faddeev-Batalin-Fradkin extended phase space for superparticle quantization. 91m:81292
- Fisch, Jean M. L. (with Henneaux, Marc) Antibracket-antifield formalism for constrained Hamiltonian systems. 91h:81155
- Foerster, A. (with Girotti, H. O.) Anyons and singular gauge transformations. 91a:81205
- Girotti, H. O. *see* Foerster, A., 91a:81205
- Gomis, J. (with Paris, Jordi; Roca, J.) BRST structures of the spinning string. 91m:81293
- González, Gabriela (with Pullin, Jorge A.) BRST analysis of $2+1$ gravity. (Not in MR)
- Gozzi, E. (with Reuter, M.) BRST quantization, $IOSp(D, 2|2)$ invariance and the PCT theorem. 91f:81216
- (with Reuter, M.) BRST quantization, $IOSp(D, 2|2)$ invariance and the PCT theorem. II. 91m:81294
- Green, Michael B. (with Hull, Christopher M.) The quantum mechanics of an $N = 1$ superparticle in an extended superspace. 91c:81160
- (with Hull, Christopher M.) Quantum mechanics of a twisted superparticle. 91h:81172
- Gumuchuk, A. I. (with Sorokin, D. P.) Relativistic dynamics of superparticles and the twistor correspondence. 91f:81217
- Guo, Han Ying *see* Yu, Yue, 91h:81163
- Hamada, Ken-Ji (with Takao, Masaru) Functional integral methods for fermionic string and super Riemann surfaces. 91c:81105
- Henneaux, Marc Elimination of the auxiliary fields in the antifield formalism. 91m:81295

81T70 Quantization in field theory; cohomological methods [see also 58F06]

- Abe, Mitsuo (with Nakanishi, Noboru) BRS transformation as a nonlinear realization of the BRS algebra and its extended one. 91f:81211
- Abramov, Viktor Anatol'evich Geometry of BRST-formalism. 91d:81145

- see also Fisch, Jean M. L., 91b:81155
 van Holten, J. W. Aspects of BRST-quantization. 91b:81156
 — The BRST complex and the cohomology of compact Lie algebras. 91b:81173
 — Becchi-Rouet-Stora-Tyutin cohomology of compact gauge algebras. 91b:81092
 Horváth, Zoltán (with Palla, László; Vecsernyés, P.) BRS cohomology and 2d gravity. 91c:81161
 Howe, P. S. (with Lindström, U.; White, P.) Anomalies and renormalisation in the BRST-BV framework. 91b:81174
 Hull, Christopher M. The BRST and anti-BRST invariant quantization of general gauge theories. 91m:81296
 — see also Green, Michael B., 91c:81160 and 91b:81172
 Huq, M. Covariant quantization of Siegel's superparticle. 91b:81157
 Hwang, Stephen Abelianization of gauge algebras in the Hamiltonian formalism. 91b:81194
 Igarashi, Yuki (with Imai, Hiroshi; Kitakado, S.; Kubo, J.; So, Hiroto) Hamiltonian BRST quantization of Chern-Simons gauge theory. 91m:81297
 Imai, Hiroshi see Igarashi, Yuki; et al., 91m:81297
 Itoh, Katsumi BRST quantization of Polyakov's two-dimensional gravity. 91b:81175
 Johnston, Desmond Alexander see Baillie, Clive F.; et al., 91b:81151 and 91b:81152
 Jona-Lasinio, G. (with Mitter, P. K.) Large deviation estimates in the stochastic quantization of ϕ_4^4 . 91b:81094
 Kallosh, Rema see Berghoeff, E. A., 91a:81202; 91b:81213 and 91b:81190
 Kanno, Hiroaki Observables in topological Yang-Mills theory and the Gribov problem. 91m:81298
 Karahali, Dimitra (with Schnitzer, Howard J.) BRST quantization of the gauged WZW action and coset conformal field theories. 91a:81106
 Kase, Hiromi see Morita, Katsunada, 91b:81220
 Kim, Kee Yong see FYI, W. S.; et al., 91m:81300
 Kim, Yong Duk see FYI, W. S.; et al., 91m:81300
 Kitakado, S. see Igarashi, Yuki; et al., 91m:81297
 Kraus, Elisabeth A new characterization of BRS-invariant theories with a simple nonabelian gauge group. (Not in MR)
 — The β -functions of a general nonsymmetric model involving vector fields. (Not in MR)
 Kreuzer, Maximilian Gauge theory of volume preserving diffeomorphisms. 91m:81299
 Kubo, J. see Igarashi, Yuki; et al., 91m:81297
 Laenen, Eric see Bastianelli, Florenzo; et al., 91b:81147
 Lavrov, P. M. see Batalin, I. A.; et al., 91a:81201 and 91a:81103
 Lazzizzera, I. Hamiltonian formulation of Yang-Mills theories in general homogeneous axial gauges. (Italian and Russian summaries) 91b:81158
 Levi, A. R. BRST quantization of twisted Kac-Moody algebras. 91b:81218
 Liao, H. C. (with Mansfield, Paul) Light-cone quantization of the super-Liouville theory. 91b:81176
 Lin, Qiong Gui (with Ni, Guang Jiong) Dirac quantisation of Chern-Simons theories in $(2+1)$ dimensions. 91c:81162
 Lindström, U. (with Roček, M.; Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) Lorentz-covariant quantization of the superparticle. 91b:81219
 — (with Roček, M.; Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) On the covariant quantization of a first-class superparticle. 91j:81091
 — see also Howe, P. S.; et al., 91b:81174
 Loll, R. see Aldaya, Víctor; et al., 91b:81150 and 91b:81168
 Louis-Martinez, Domingo see Cabo, Alejandro; et al., 91m:81290
 Lozano, Gustavo see Cugliandolo, Leticia F.; et al., 91b:81170
 Luanna, Luca Lagrangian and Hamiltonian many-time equations. 91b:81195
 Maeno, Masahiro Canonical quantization of Witten's string field theory in the mid-point time formalism. 91c:81163
 Majumdar, Parthasarathi Covariantly quantized $D=4$, $N=1$ Green-Schwarz sigma models. (Not in MR)
 Mansfield, Paul see Liao, H. C., 91b:81176
 Margolin, A. E. (with Strazhev, V. L.) Noncompact symmetry groups in quantum field theory. (Russian. English summary) 91b:81159
 McCabe, John Francis Problems with quantizing some actions for chiral bosons. 91b:81196
 McClain, Bruce (with Wu, Yong Shi; Yu, Feng) Covariant quantization of chiral bosons and $OSp(1,1|2)$ symmetry. 91b:81177
 Mickelsson, Jouko On the quantization of a Yang-Mills system with fermions in $(1+1)$ dimensions. 91c:81107
 Mitter, P. K. see Jona-Lasinio, G., 91b:81094
 Montaul, H. see Cugliandolo, Leticia F.; et al., 91b:81170
 Moore, Gregory W. see Elitzur, Shmuel; et al., 91c:81104
 Morita, Katsunada (with Kase, Hiromi) Anomalies from stochastic quantization and their path-integral interpretation. 91b:81220
 Moshe, Moshe see Feinberg, Joshua, 91m:81292
 Nair, V. P. see Bos, Michel, 91a:81203
 Nakanishi, Noboru see Abe, Mitsuo, 91b:81211
 Navarro-Salas, José see Aldaya, Víctor; et al., 91b:81150 and 91b:81168
 Ne'eman, Yuval (with Sternberg, Shlomo) Superconnections and internal supersymmetry dynamics. 91j:81092
 Nguyen Thi Hong see Đào Vọng Đức, 91b:81154
 Ni, Guang Jiong see Lin, Qiong Gui, 91c:81162
 van Nieuwenhuizen, Peter see Roček, M.; et al., 91a:81206; Lindström, U.; et al., 91b:81219 and 91j:81091
 Nissimov, E. (with Pacheva, S.; Solomon, Sorin) Action principle for overdetermined systems of nonlinear field equations. 91g:81158
 Nouri-Moghaddam, M. see Bressloff, P. C.; et al., 91c:81159
 Olczyk, T. L. (with Panigrahi, Prasanta K.; Ramaswamy, Sriram) Canonical structure of the $O(3)$ nonlinear sigma model with a topological term. 91c:81164
 Pacheva, S. see Nissimov, E.; et al., 91g:81158
 Palla, László see Horváth, Zoltán; et al., 91c:81161
 Panigrahi, Prasanta K. see Olczyk, T. L.; et al., 91c:81164
 Paris, Jordi see Gomis, J.; et al., 91m:81293
 Park, Young-Jai see FYI, W. S.; et al., 91m:81300
 Pasti, P. (with Tonin, M.) Covariant quantization of Green-Schwarz heterotic superstring in curved background. 91b:81160
 Pells, G. A. The state space and wave equation for a bosonic string with nontrivial world surface topology. 91c:81108
 Popov, A. D. BRST-quantization of bosonic strings and hypertwistors. 91j:81093
 — Geometric quantization of strings, and reparametrization invariance. 91b:81221
 Preinajder, P. see Cabo, Alejandro; et al., 91m:81290
 Pullin, Jorge A. see González, Gabriela, (Not in MR)
 Ramaswamy, Sriram see Olczyk, T. L.; et al., 91c:81164
 Razumov, A. V. (with Rybkin, G. N.) State space in BRST-quantization of gauge-invariant systems. 91b:81093
 Reuter, M. see Gozzi, E., 91b:81216 and 91m:81294
 Roca, J. see Gomis, J.; et al., 91m:81293
 Roček, M. (with Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) Covariant superparticle quantization in a super Maxwell background. 91a:81206
 — see also Lindström, U.; et al., 91b:81219 and 91j:81091
 Rybkin, G. N. see Razumov, A. V., 91b:81093
 Schaposnik, Fidel A. see Cugliandolo, Leticia F.; et al., 91b:81170
 Schnitzer, Howard J. see Karahali, Dimitra, 91c:81106
 Schwimmer, Adam see Elitzur, Shmuel; et al., 91c:81104
 Seiberg, Nathan see Elitzur, Shmuel; et al., 91c:81104
 Shvarts, A. S. Lefschetz trace formula and BRST. 91g:81159
 Shvartsman, Sh. M. On the Lagrangian of a relativistic spinning particle. 91b:81161
 Siegel, Warren see Roček, M.; et al., 91a:81206; Lindström, U.; et al., 91b:81219 and 91j:81091
 Singer, Isadore see Baulieu, Laurent, 91b:81153
 So, Hiroto see Igarashi, Yuki; et al., 91m:81297
 Solomon, Sorin see Nissimov, E.; et al., 91g:81158
 Sorokin, D. P. see Gumenchuk, A. I., 91b:81217
 Srivastava, Prem P. BRST-BFV quantization of the chiral Schwinger model. 91b:81149
 Sternberg, Shlomo see Ne'eman, Yuval, 91j:81092
 Strazhev, V. L. see Margolin, A. E., 91b:81159
 Takao, Masaru see Hamada, Ken-Ji, 91b:81105
 Tatar, L. see Balleau, D., (Not in MR)
 Taylor, John G. see Bressloff, P. C.; et al., 91c:81159
 Thierry-Mieg, Jean BRS structure of the antisymmetric tensor gauge theories. 91j:81094
 Tonin, M. see Pasti, P., 91b:81160
 Tyutin, I. V. see Batalin, I. A.; et al., 91a:81201 and 91a:81103
 Van Proeyen, Antoine see Berghoeff, E. A.; et al., 91b:81190
 Vecsernyés, P. see Horváth, Zoltán; et al., 91c:81161
 van de Ven, A. E. see Roček, M.; et al., 91a:81206; Lindström, U.; et al., 91b:81219 and 91j:81091
 Vergeles, S. N. Dirac commutation relations and quantization of two-dimensional gauge chiral models. 91b:81162
 Wallet, J.-C. see Abud, Mario; et al., 91b:81091
 White, P. see Howe, P. S.; et al., 91b:81174
 Williams, Roy D. see Baillie, Clive F.; et al., 91b:81151 and 91b:81152
 Witten, Edward A note on the antibracket formalism. 91b:81178
 Wu, Yong Shi see Yu, Feng, 91b:81222 and McClain, Bruce; et al., 91b:81177
 Xu, Rui-Ming BRST quantization of the type II Green-Schwarz string. 91b:81165
 FYI, W. S. (with Kim, Kee Yong; Park, Young-Jai; Kim, Yong Duk) Gravitational anomaly and gauged BRST symmetry. 91m:81300
 Yu, Feng (with Wu, Yong Shi) BRST superspace formulation for worldsheet topological gravity with gauged Lorentz and Weyl symmetries. 91b:81222
 — see also McClain, Bruce; et al., 91b:81177
 Yu, Yue (with Guo, Han Ying) Geometric quantization for bosonic strings. II. (Chinese. English summary) 91b:81163
 — (with Fei, S. M.) Symplectic structures, BKS kernels and path integrals of BRST bosonic strings. 91b:81164
 Zwaniger, Daniel Quantization of gauge fields, classical gauge invariance and gluon confinement. 91b:81095

Items with secondary classifications in 81T70

- Abud, Mario (with Ader, Jean Pierre; Gieres, François) Algebraic determination of covariant anomalies and Schwinger terms. 91b:81090
 Ader, Jean Pierre (with Gieres, François) Topological super YM and super Donaldson polynomials. 91d:81141
 — see also Abud, Mario; et al., 91b:81090
 Bando, I. A. (with Zheltukhin, A. A.) Hamiltonian mechanics and absence of critical dimensions for null membranes. 91b:81099
 — (with Zheltukhin, A. A.) Twistors, harmonics, and zero-super-p-branes. 91b:81163
 Bars, Itzhak Membrane symmetries and anomalies. 91b:81182
 Bartocci, Claudio (with Bruzzo, Ugo; Landi, Giovanni) Geometry of standard constraints and Weil triviality in supersymmetric gauge theories. 91b:81204
 Batlle, C. (with Gomis, J.; Paris, Jordi; Roca, J.) Field-antifield formalism and Hamiltonian BRST approach. 91a:81107
 Baulieu, Laurent BRS construction of supergravity and field theory applications. 91a:83084
 — Stochastic and topological gauge theories. 91g:81074
 — (with Bilal, Adel; Pico, Marco) Stochastic quantization of 2D gravity and its link with 3D gravity and topological 4D gravity. 91b:81073
 Bengtsson, Anders K. H. BRST quantization in anti-de Sitter space and gauge fields. 91a:81144
 Bes, D. R. (with Cruz Barrios, S.; Kurchan, Jorge) An algebraic method for the treatment of broken symmetries in many-body problems: a simple example. 91b:81189
 Bilal, Adel see Baulieu, Laurent; et al., 91b:81073
 Birmingham, Danny (with Rakowski, Mark T.; Thompson, George) Renormalization of topological field theory. 91d:81075
 Bian, Matthias (with Keski-Vakkuri, Esko; Niemi, Antti J.) Path integrals and geometry of trajectories. 91m:81116
 Blencowe, M. P. The Hamiltonian constraint in quantum gravity. 91m:83043

- Boukraa, Salah** (with Nijhoff, F. W.; Maillet, Jean-Michel) On a generalization of BRS and gauge transformations. 91c:17011
- Brandt, Friedemann** (with Dragon, Norbert; Kreuzer, Maximilian) Lie algebra cohomology. 91j:81087
- Brooks, Roger** Conformal field theories for the Green-Schwarz superstring. 91b:81123
- Bruzzo, Ugo** see Bartocci, Claudio; et al. 91f:81204
- Cabo, Alejandro** (with Shabad, A. E.) Effective action for a nonabelian field with a nonvanishing source. 91a:8109a
- (with Shabad, A. E.) Quantum theory of a gauge field with a nonvanishing external source. I. Canonical formalism and Furry picture. 91a:8109b
- (with Shabad, A. E.) Quantum theory of a gauge field with a nonvanishing external source. II. Propagators and spectra in a nonabelian external field. 91a:8109c
- Chen, Yi Xin** (with Ni, Guang Jiong) Dirac-Bergmann formalism of the Fermi-Bose transmutation in $(2+1)$ dimensions. 91k:81092
- Cho, Hing Tong** (with Diek, Adel; Kantowski, R.) A Clifford algebra quantization of Dirac's electron positron field. 91g:81063
- Cruz Barrios, S.** see Bes, D. R.; et al. 91c:81189
- Dam Than Shon** (with Khlebnikov, S. Yu.) Quantization of 3D particle with twisting: toward a relativistic theory of an anyon. 91m:81106
- Das, Sumit R.** (with Dhar, Avinash; Wadia, Spenta R.) Critical behavior in two-dimensional quantum gravity and equations of motion of the string. 91c:81128
- Physical states, vacuum charges and exponents in two-dimensional quantum gravity and supergravity. 91c:81130
- Démichev, A. P.** (with Iofa, M. Z.) Gupta-Bleuler operator quantization in superstring theory. 91m:81197
- (with Iofa, M. Z.) Anomalous BRST Ward identity in string theory. 91g:81112
- (with Iofa, M. Z.) BRST anomaly in string theory. 91b:81101
- (with Iofa, M. Z.) BRST-quantization of one-dimensional gravity. 91h:81158
- Depireux, Didier A.** (with Gates, S. James, Jr.; Majumdar, Parthasarathi; Radak, B.; Vashakidze, Sh. L.) Towards covariantly quantized $D = 10$ type-II Green-Schwarz σ -models. 91k:81125
- (with Gates, S. James, Jr.; Radak, B.) Yes, leftons for heterotic superstrings! 91f:81145
- Dhar, Avinash** see Das, Sumit R.; et al. 91c:81128
- Diakonou, M.** (with Farakos, K.; Koutsoumbas, G.; Papantonopoulos, E.) Hamiltonian formulation and quantum constraint algebra for a closed string moving in a curved background. 91m:81198
- Diaz, Alvaro H.** (with Figueroa-O'Farrill, José M.) A new explicit construction of W_3 from the affine algebra $A_1^{(1)}$. 91i:17030
- Diek, Adel** see Cho, Hing Tong; et al. 91g:81063
- Dijkgraaf, Robbert** (with Witten, Edward) Topological gauge theories and group cohomology. 91g:81133
- Dineikhan, M.** (with Namsrai, Kh.) Ward identity for gauge field in stochastic quantization with nonlocal form factors. 91c:81072
- Dixon, John A.** Supersymmetry is full of holes. 91m:81283
- Dolan, B. P.** A Hamiltonian formalism for bosonic membranes. 91a:81159
- Dragon, Norbert** see Brandt, Friedemann; et al. 91j:81087
- Duval, C.** (with Elhadad, J.; Teynman, Gijs M.) The BRS method and geometric quantization: some examples. 91b:81054
- Elhadad, J.** see Duval, C.; et al. 91b:81054
- Elliecott, P.** (with Kunstatter, G.; Toms, David J.) Geometrical derivation of the Faddeev-Popov ansatz. 91f:81094
- Embacher, Franz** Strings in the abelian picture. 91m:81200
- Farakos, K.** see Diakonou, M.; et al. 91m:81198
- Feinberg, Joshua** (with Moshe, Moshe) Quantization of the superparticle action in the BBF extended phase space. 91k:81120
- Figueroa-O'Farrill, José M.** (with Kimura, Takashi) The BRST cohomology of the NSR string: vanishing and "no-ghost" theorems. 91f:7015
- A topological characterization of classical BRST cohomology. 91b:17020
- see also Diaz, Alvaro H. 91i:17030
- Filippov, A. T.** (with Isaev, A. P.) Gauge models of "discrete strings". 91d:81099
- Flato, M.** (with Fronsdal, C.) Composite electrodynamics. 91f:81105
- Floresani, Roberto** (with Percacci, R.; Rajaraman, R.) Four-dimensional current algebra from Chern-Simons theory. 91c:81058
- Fronsdal, C.** see Flato, M. 91f:81105
- Gambao, Jorge** (with Ramirez Romero, Cupatitzio; Ruiz-Altamir, M.) Null spinning strings. 91m:81201
- Gates, S. James, Jr.** see Depireux, Didier A.; et al. 91f:81145 and 91k:81125
- Gerasimov, A. A.** (with Marshakov, A. V.; Morozov, A. Yu.) Hamiltonian reduction of the Wess-Zumino-Witten theory from the point of view of bosonization. 91c:81133
- Geyer, Bodo** (with Mülsch, D.) A direct proof of Slavnov's identity in pure Yang-Mills theory. (German summary) 91j:81044
- Gieres, François** see Ader, Jean Pierre. 91d:81141 and Abud, Mario; et al. 91f:81090
- Gomis, J. P.** see Batlle, C.; et al. 91a:81107
- Gozzi, E.** (with Reuter, M.) Classical mechanics as a topological field theory. 91m:58062
- Griffin, Paul** Radial quantization of the Ising model in the scaling regime, and integrals of the motion. 91b:81047
- Guadagnini, E.** Interacting physical states of the bosonic string. I, II. 91m:81203
- Guo, Han Ying** see Xu, Kai Wen. 91b:81119
- Hacyan, S.** Quantization of the Dirac field in de Sitter space. (Spanish summary) 91a:81149
- Hasiewicz, Zbigniew** On the classical BRST complex. 91g:58080
- Hata, Hiroyuki** Construction of the quantum action for path-integral quantization of string field theory. 91f:81150
- Henneaux, Marc** (with Teitelboim, Claudio; Zanelli, Jorge) Gauge invariance and degree of freedom count. 91f:81096
- Homma, Takahiro** (with Inamoto, Tadashi; Miyazaki, Tadashi) Schrödinger equation for the nonrelativistic particle constrained on a hypersurface in a curved space. 91j:81052
- Howe, P. S.** (with West, Peter C.) $N = 2$ superconformal models, Landau-Ginsburg Hamiltonians and the ϵ expansion. 91c:81138
- Höbisch, Tristan** Superstring phenomenology and cohomology on Calabi-Yau manifolds. 91m:81205
- Hull, Christopher M.** (with Spence, B.; Vázquez-Bello, J. L.) The geometry of quantum gauge theories: a superspace formulation of BRST symmetry. 91m:81286
- Ichinohe, Ikuro** see Yamaguchi, Masahiro; et al. 91f:81203
- Inamoto, Tadashi** see Homma, Takahiro; et al. 91j:81052
- Iofa, M. Z.** see Démichev, A. P. 91b:81112; 91b:81158 and 91m:81197
- Isaev, A. P.** see Filippov, A. T. 91d:81099
- Isham, Christopher J.** (with Klauder, John R.) Affine fields and operator representations for the nonlinear σ model. 91c:81048
- Jaroszkievicz, George** (with Perry, Helen) The quantisation of nonrelativistic strings with arbitrary mass and charge densities. 91m:81207
- Joishi, P. S.** Conformal quantisation in singular spacetimes. (see 91k:83003)
- Kantowski, R.** see Cho, Hing Tong; et al. 91g:81063
- Kashaev, R. M.** (with Osipov, A. A.) Extension of the constraint algebra for a closed string with a world surface of fixed topology. 91f:81151
- Keski-Vakkuri, Esko** see Blas, Matthias; et al. 91m:81116
- Khlebnikov, S. Yu.** see Dam Than Shon. 91m:81106
- Khrennikov, A. Yu.** Quantization of bosonic string field, and infinite-dimensional pseudo-differential operators. Fixed gauge. 91f:81058
- Mathematical methods in non-Archimedean physics. 91h:46128
- Gaussian quantization of the Klein-Gordon equation in variational derivatives and second quantization of the bosonic string. 91f:81153
- Kimura, Takashi** see Figueroa-O'Farrill, José M. 91f:17015
- Klauder, John R.** see Isham, Christopher J. 91c:81048
- Koutsoumbas, G.** see Diakonou, M.; et al. 91m:81198
- Kowalski-Glikman, Jerzy** On the Gupta-Bleuler quantization of anomalous theories. 91g:81154
- Kraus, Elisabeth** (with Sibold, Klaus) Yang-Mills theories in a nonlinear gauge: quantization and gauge independence. 91d:81066
- How abelian BRS-symmetry emerges in noninvariant surroundings. (Not in MR)
- Kreuzer, Maximilian** see Brandt, Friedemann; et al. 91j:81087
- Kugo, Tachiro** (with Mitchard, M. G.) On the superfield formulation of stochastic quantisation. 91g:81064
- Kunstatter, G.** see Elliecott, P.; et al. 91f:81094
- Kurchan, Jorge** see Bes, D. R.; et al. 91c:81189
- Kuznetsov, A. N.** Topological field theory and local supersymmetry. 91d:81143
- Landi, Giovanni** see Bartocci, Claudio; et al. 91f:81204
- Larsson, T. A.** p -cell gauge theories, manifold space, and multi-dimensional integrability. 91c:81069
- Lavrov, P. M.** (with Tyutin, I. V.) Lagrangian quantization of gauge theories and unitarity of the physical S -matrix. 91f:81046
- Lian, Bong H.** (with Zuckerman, Gregg J.) BRST cohomology of the super-*Virasoro* algebras. 91g:17023
- Lindström, U.** (with Roček, M.; Siegel, Warren; van Nieuwenhuizen, Peter; van de Ven, A. E.) Construction of the covariantly quantized heterotic superstring. 91d:81107
- Maillet, Jean-Michel** see Boukraa, Salah; et al. 91c:17011
- Majumdar, Parthasarathi** see Depireux, Didier A.; et al. 91k:81125
- Mal'cev, A. M.** see Zar'yalov, O. L. 91m:81167
- Margolin, A. E.** (with Strazhev, V. I.) Quantum theory of a nonabelian gauge field with a noncompact group of internal symmetry. (Russian. English summary) 91f:81102
- Marshakov, A. V.** see Gerasimov, A. A.; et al. 91c:81133
- McCabe, John Francis** Hamiltonian quantization of bosonic Schwinger models. 91m:81131
- Mitchard, M. G.** see Kugo, Tachiro. 91g:81064
- Miyazaki, Tadashi** see Homma, Takahiro; et al. 91j:81052
- Morozov, A. Yu.** see Gerasimov, A. A.; et al. 91c:81133
- Moshe, Moshe** see Feinberg, Joshua. 91k:81120
- Mülsch, D.** see Geyer, Bodo. 91j:81044
- Murayama, Hitoshi** Explicit quantization of the Chern-Simons action. 91h:81098
- Namsrai, Kh.** see Dineikhan, M. 91c:81072
- Ni, Guang Jiong** see Chen, Yi Xin. 91k:81092
- Niederle, Jiri** Relativistic field equations based on indecomposable representations of $sl(2, \mathbb{C})$. 91h:81052
- Niemi, Antti J.** see Blas, Matthias; et al. 91m:81116
- van Nieuwenhuizen, Peter** see Schoutens, Kareljan; et al. 91a:81124 and Lindström, U.; et al. 91d:81107
- Nijhoff, F. W.** see Boukraa, Salah; et al. 91c:17011
- Oda, Ichiro** (with Yahikozawa, Shigeaki) Linking numbers and variational method. 91h:58034
- Oehme, Reinhard** Renormalization group, BRST cohomology, and the problem of confinement. 91m:81168
- Okubo, Susumu** The Nijenhuis tensor, BRST cohomology, and related algebras. 91f:17016
- Onogi, Tetsuya** see Yamaguchi, Masahiro; et al. 91f:81203
- Ordóñez, Carlos R.** (with Rubin, Mark A.) String quantization via dual Peierls brackets. 91j:81068
- Osipov, A. A.** see Kashaev, R. M. 91f:81151
- Oz, Yaron** BFV-BRST quantization of anomalous $d = 2$ nonabelian chiral theory. 91f:81183
- Pak, Namik K.** Canonical structure of the CP^N sigma model in $1+2$ dimensions. (Not in MR)
- Papadopoulos, George J.** The path integral quantisation of the spinning particles with extended supersymmetries. 91c:81038
- Anomaly cancellation in the path integral quantisation of the $N = 1$ chiral spinning particle. 91d:81144
- Papantonopoulos, E.** see Diakonou, M.; et al. 91m:81198
- Paris, Jordi** see Batlle, C.; et al. 91a:81107
- Percacci, R.** see Floresani, Roberto; et al. 91c:81058
- Perry, Helen** see Jaroszkievicz, George. 91m:81207
- Picco, Marco** see Baillies, Laurent; et al. 91k:81073
- Piguet, O.** (with Schwartz, Dominik; Schweda, M.) Extended global symmetries of the bosonic string. Their current algebra and anomalies. 91h:81128
- Pope, C. N.** Quantization of super p -branes. (see 91k:81006)

- Prugovečki, Edvard Generally covariant geometro-stochastic quantum gravity. (Italian and Russian summaries) 91c:83621
- Radak, B. *see* Depireux, Didier A.; et al., 91f:81145 and 91k:81125
- Rajaraman, R. *see* Floreani, Roberto; et al., 91c:81058
- Rakowski, Mark T. *see* Birmingham, Danny; et al., 91d:81075
- Ramirez Romero, Capatitelo *see* Gamboa, Jorge; et al., 91m:81201
- Reuter, M. *see* Gozzi, E., 91m:58062
- Roca, J. *see* Batlle, C.; et al., 91a:81107
- Roček, M. *see* Lindström, U.; et al., 91d:81107
- Rubin, Mark A. *see* Ordóñez, Carlos R., 91j:81068
- Ruiz-Altaba, M. *see* Gamboa, Jorge; et al., 91m:81201
- Schmid, Rudolf BRST cohomology and anomalies. 91b:81144
- The geometry of BRS transformations. 91a:81123
- Schoutens, Kareljan (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Quantum BRST charge for quadratically nonlinear Lie algebras. 91a:81124
- Schwartz, Dominik *see* Piguet, O.; et al., 91b:81128
- Schweda, M. *see* Piguet, O.; et al., 91b:81128
- Sevrin, Alexander *see* Schoutens, Kareljan; et al., 91a:81124
- Shahad, A. E. *see* Cabo, Alejandro, 91a:81109; 91a:81109b and 91a:81109c
- Sibeld, Klaus *see* Kraus, Elisabeth, 91d:81066
- Siegel, Warren *see* Lindström, U.; et al., 91d:81107
- Skiyanis, E. K. Exact quantization of the sinh-Gordon model. 91e:81117
- Sonnenschein, Jacob Topological quantum field theories, moduli spaces, and flat gauge connections. 91f:81015
- Spallinski, Michal A. Observables in the topological quantum field theory of monopoles. 91f:81106
- Spehler, D. Effective interactions involving massive and massless particles of spin $\frac{1}{2}$, 1, $\frac{3}{2}$, and 2. 91h:81049
- Spence, B. *see* Hull, Christopher M.; et al., 91m:81286
- Strazhev, V. I. *see* Margolin, A. E., 91f:81102
- Teitelboim, Claudio *see* Henneaux, Marc; et al., 91f:81096
- Thompson, George *see* Birmingham, Danny; et al., 91d:81075
- Toms, David J. *see* Elliott, P.; et al., 91f:81094
- Tsutsui, Izumi Covariant anomalies in cohomology approach. 91b:81145
- Tuyman, Gijb M. *see* Duval, C.; et al., 91b:81054
- Tyutin, I. V. *see* Lavrov, P. M., 91i:81046
- Tzani, Rodanthi BRST light-cone quantization of the bosonic string Lagrangian. (Not in MR)
- Vashakidze, Sh. I. *see* Depireux, Didier A.; et al., 91k:81125
- Vázquez-Bello, J. L. *see* Hull, Christopher M.; et al., 91m:81286
- van de Ven, A. E. *see* Lindström, U.; et al., 91d:81107
- Wadia, Spenta R. *see* Das, Sumit R.; et al., 91c:81128
- Wallet, J.-C. Algebraic set-up for the gauge-fixing of BF and super BF systems. 91f:81108
- West, Peter C. *see* Howe, P. S., 91c:81138
- Witten, Edward *see* Dijkgraaf, Robbert, 91g:81133
- Wotzasek, Clovis Equivalence of Dirac quantization and Schwinger's action principle in the two-dimensional massless electrodynamics. 91f:81091
- Wu, Yong Shi¹ (with Zhao, Wei Dong) Suppression of local degrees of freedom of gauge fields by chiral anomalies. 91g:81155
- Xu, Kai Wen (with Guo, Han Ying) BRST quantization and quasifree field theory for the Krichever-Novikov string. (Chinese. English summary) 91h:81119
- Yahikozawa, Shigeki *see* Oda, Ichiro, 91h:58034
- Yamaguchi, Masahiro (with Onogi, Tetsuya; Ichinose, Ikao) Ambiguities and BRST anomalies in 4D heterotic string theories. 91f:81283
- Yu, Yue Topological Yang-Mills field theory as the stochastic quantization of Chern-Simons gauge theory. 91c:81069
- Zanelli, Jorge *see* Henneaux, Marc; et al., 91f:81096
- Zav'yalov, O. I. (with Malokostov, A. M.) Universal regularizations. III. Lagrangian symmetry and a "natural" ghost system in Yang-Mills theory. 91m:81167
- Zhao, Wei Dong *see* Wu, Yong Shi¹, 91g:81155
- Zhelukhin, A. A. *see* Bando, I. A., 91b:81099 and 91h:81163
- Zubarev, A. P. Free field action of the Ramond string and a general procedure for quantization of gauge theories with an open algebra. 91h:81131
- Zuckerman, Gregg J. *see* Lian, Bong H., 91g:17023

81T80 Simulation and numerical modeling

- Agishtein, Michael E. (with Migdal, Alexander A.) Recursive sampling of planar graphs and fractal properties of a two-dimensional quantum gravity. 91g:81160
- Ambjørn, Jan (with Varsted, S.) Dynamical triangulated fermionic surfaces. 91m:81301
- Brower, Richard C. (with Rebbi, Claudio; Vicari, Ettore) Nonabelian projective multigrad for lattice gauge theory. (Not in MR)
- Drummond, I. T. (with Horgan, R. R.) Continuum approximation to functional integrals. 91h:81165
- Horgan, R. R. *see* Drummond, I. T., 91h:81165
- Kuramoto, Tetsuji BRST quantization of conformal field theories on a random surface. 91h:81166
- Migdal, Alexander A. *see* Agishtein, Michael E., 91g:81160
- Qin, Meng Zhao (with Zhang, Mei Qing) Explicit Runge-Kutta-like schemes to solve certain quantum operator equations of motion. (Not in MR)
- Rebbi, Claudio *see* Brower, Richard C.; et al., (Not in MR)
- Varsted, S. *see* Ambjørn, Jan, 91m:81301
- Vicari, Ettore *see* Brower, Richard C.; et al., (Not in MR)
- Zhang, Mei Qing *see* Qin, Meng Zhao, (Not in MR)

Items with secondary classifications in 81T80

- Agishtein, Michael E. (with Jacobs, Laurence; Migdal, Alexander A.; Richardson, John L.) Geometric characterization of states in two-dimensional quantum gravity. 91d:81004
- (with Migdal, Alexander A.) Geometry of a two-dimensional quantum gravity: numerical study. 91k:83034

- Alberty, J. M. Monte Carlo simulations on and of two-dimensional dynamical lattices: a theoretical overview. (Not in MR)
- Baillie, Clive F. *see* Brickner, Ralph G.; et al., (Not in MR)
- Bhanot, Gyan (with Bitar, K.; Heller, U. M.; Neuberger, H.) ϕ^4 on F_4 : analytical results. 91f:81132
- Bitar, K. *see* Bhanot, Gyan; et al., 91f:81132
- Brickner, Ralph G. (with Baillie, Clive F.; Johnson, S. Lennart) QCD on the connection machine: beyond "LISP". (Not in MR)
- DeGrand, Thomas A. (with Loft, Richard D.) Wave-function tests for lattice QCD spectroscopy. (Not in MR)
- Gong, Di *see* Liu, Jin Ming¹, 91d:81093
- Grossman, Bernard (with Kephart, Thomas W.) Lattice instantons in the large dimension limit. 91f:81133
- Heller, U. M. *see* Bhanot, Gyan; et al., 91f:81132
- Jacobs, Laurence *see* Agishtein, Michael E.; et al., 91d:81004
- Johnson, S. Lennart *see* Brickner, Ralph G.; et al., (Not in MR)
- Kalos, M. H. Methods in quantum Monte Carlo. (see 91j:60004)
- Kephart, Thomas W. *see* Grossman, Bernard, 91f:81133
- Kobuchi, Hiroshi Crumpling phase transition of random surfaces with extrinsic curvature. 91b:81094
- Konishi, Kenichi (with Paffuti, Giampiero; Provero, Paolo) Minimum physical length and the generalized uncertainty principle in string theory. 91b:81095
- Lebedev, D. R. (with Polikarpov, M. I.; Rosly, A. A.) Gauge fields on the continuum and lattice tori. 91f:81100
- Leese, Robert A. (with Peyrard, Michel; Zakrzewski, Wojciech J.) Soliton scatterings in some relativistic models in $(2+1)$ dimensions. 91e:81059
- Lia, Jin Ming¹ (with Gong, Di) SU(3) one-link integrals in second-order variational-cumulant expansions. (Chinese. English summary) 91d:81093
- Loft, Richard D. *see* DeGrand, Thomas A., (Not in MR)
- Lüscher, Martin (with Wolff, Ulli) How to calculate the elastic scattering matrix in two-dimensional quantum field theories by numerical simulation. 91b:81096
- Migdal, Alexander A. *see* Agishtein, Michael E.; et al., 91d:81004 and 91k:83034
- Neuberger, H. *see* Bhanot, Gyan; et al., 91f:81132
- Paffuti, Giampiero *see* Konishi, Kenichi; et al., 91b:81095
- Peyrard, Michel *see* Leese, Robert A.; et al., 91e:81059
- Polikarpov, M. I. *see* Lebedev, D. R.; et al., 91f:81100
- Provero, Paolo *see* Konishi, Kenichi; et al., 91b:81095
- Richardson, John L. *see* Agishtein, Michael E.; et al., 91d:81004
- Rosly, A. A. *see* Lebedev, D. R.; et al., 91f:81100
- Rozhanski, L. V. One-loop string corrections to gauge charge. 91b:81114
- Wan, L. D. *see* Yang, Jin Min; et al., 91d:81094
- Wolff, Ulli *see* Lüscher, Martin, 91b:81096
- Wu, Chi Min *see* Yang, Jin Min; et al., 91d:81094
- Yang, Jin Min (with Wu, Chi Min; Wan, L. D.) Phase structure of lattice Z(2) gauge-Higgs theory by variational cumulant expansion. 91d:81094
- Zakrzewski, Wojciech J. *see* Leese, Robert A.; et al., 91e:81059

81T99 None of the above, but in this section

- Alfaro, Jorge (with Damgaard, Poul H.; Latorre, José I.; Montano, David) On the BRST invariance of field deformations. 91a:81207
- Amigó, J. M. (with Reeh, H.) Additive constants of motion in relativistic quantum field theories. 91f:81096
- Blood, F. A., Jr. Interaction-mediating vector bosons as collective oscillations of the vacuum. (Italian and Russian summaries) 91a:81208
- Bytsenko, A. A. Supersymmetric p -branes at a finite temperature. (Russian. English summary) 91d:81150
- Cal, Y. Q. (with Papini, G.) Applying Berry's phase to problems involving weak gravitational and inertial fields. 91j:81095
- Casalboni, R. Unification of BRST, Parisi-Sourlas and space-time symmetries. 91b:81167
- Chapline, George Map coloring and Calabi-Yau vacua. 91b:81168
- Damgaard, Poul H. *see* Alfaro, Jorge; et al., 91a:81207
- Davies, K. T. R. (with Davies, R. W.; White, G. D.) Dispersion relations for causal Green's functions: derivations using the Poincaré-Bertrand theorem and its generalizations. 91h:81179
- (with Davies, R. W.; White, G. D.) Erratum: "Dispersion relations for causal Green's functions: derivations using the Poincaré-Bertrand theorem and its generalizations" [J. Math. Phys. 31 (1990), no. 6, 1356–1373; MR 91h:81179]. (Not in MR)
- Davies, R. W. *see* Davies, K. T. R.; et al., 91h:81179 and (Not in MR)
- Eisenberg, Yeshayahu (with Solomon, Sorin) (Super-) field theories from (super-) twistors. 91a:81209
- Infinite-dimensional algebra for all the (super-) field theories in four dimensions. 91h:81097
- Falkenstein, P. (with Grosse, H.) On the relation between the geometric phase and the Schwinger term. (Not in MR)
- Fehér, L. Gy. Dynamical $O(4)$ symmetry in long range monopole-test particle and monopole-monopole interactions. 91c:81166
- Grosse, H. *see* Falkenstein, P., (Not in MR)
- Gusynin, V. P. Functional determinants: expansion in powers of derivatives. (Russian) 91h:81180
- Haba, Zbigniew Correlation functions of σ fields with values in a hyperbolic space. 91a:81210
- Iagolnitzer, D. (with Iagolnitzer, L.) Nonholonomicity of the S matrix and Green functions in quantum field theory: a direct algebraic proof in some simple situations. 91g:81161
- Iagolnitzer, L. *see* Iagolnitzer, D., 91g:81161
- Isham, Christopher J. (with Kubyshin, Yu. A.; Renteln, Paul) Quantum norm theory and the quantization of metric topology. 91k:81197
- Kobayashi, Masanori (with Takahashi, Yasushi) The Rarita-Schwinger paradoxes in the theory with an auxiliary field. (Italian and Russian summaries) 91h:81098
- Kubyshin, Yu. A. *see* Isham, Christopher J.; et al., 91k:81197

- Latorre, José I. *see* Alfaro, Jorge; et al., 91a:81207
- Lavrov, P. M. (with Tyutin, I. V.) Symmetry generators in singular theories. 91c:81167
- Manin, Yu. I. Strings. 91c:81168
- Montano, David *see* Alfaro, Jorge; et al., 91a:81207
- Pang, Gen Di (with Pu, Fu Ke; Zhao, Bao Heng) Norms of Bethe wave functions for the nonlinear Schrödinger model of spin- $\frac{1}{2}$ particles. 91f:81223
- Papini, G. *see* Cal, Y. Q., 91j:81095
- Pu, Fu Ke *see* Pang, Gen Di; et al., 91f:81223
- Reeh, H. *see* Amigó, J. M., 91h:81096
- Renteln, Paul *see* Isham, Christopher J.; et al., 91k:81197
- Rindani, S. D. (with Sahdev, D.; Sivakumar, M.) Dimensional reduction of symmetric higher spin actions. I. Bosons. 91b:81169a
- (with Sahdev, D.; Sivakumar, M.) Dimensional reduction of symmetric higher spin actions. II. Fermions. 91b:81169b
- Rüger, Alexander Complementarity meets general relativity: a study in ontological commitments and theory unification. 91e:81109
- Sahdev, D. *see* Rindani, S. D.; et al., 91b:81169a and 91b:81169b
- Shvarts, A. S. Statistics of skyrmions. 91b:81170
- Sivakumar, M. *see* Rindani, S. D.; et al., 91b:81169a and 91b:81169b
- Solomon, Sorin *see* Eisenberg, Yeshayahu, 91a:81209
- Sveshnikov, K. A. Finite-difference effects in quantum field theory and quantization of classical solutions. 91a:81211
- Takahashi, Yasushi *see* Kobayashi, Masanori, 91h:81098
- Tyutin, I. V. *see* Lavrov, P. M., 91c:81167
- Ubricco, Marcelo R. Fermions on the field of p -adic numbers. 91a:81212
- White, G. D. *see* Davies, K. T. R.; et al., 91h:81179 and (Not in MR)
- Yahikozawa, Shigeaki A model of membrane with fractional spin and unusual statistics. (Not in MR)
- Yun, Guo Hong *see* Zhou, Yu Kui, 91b:81172
- Zemba, Guillermo An interpretation of the abelian Chern-Simons vacuum holonomy. 91b:81171
- Zhao, Bao Heng *see* Pang, Gen Di; et al., 91f:81223
- Zhou, Yu Kui (with Yun, Guo Hong) Construction of the eigenstates for the quantum nonlinear Schrödinger model with the most general supermatrices. 91b:81172
- Items with secondary classifications in 81T99
- Albeverio, Sergio (with Holden, Helge; Høegh-Krohn, Raphael J.; Kolarud, Torbjörn) Representation and construction of multiplicative noise. 91b:60040
- Askey, Richard (with Richards, Donald St. P.) Selberg's second beta integral and an integral of Mehta. 91f:33006
- Bailey, T. N. (with Singer, Michael A.) On the twistor description of sourced fields. 91f:81063
- Bass, Sujit K. (with Kuryshkin, V. V.) The probability operator in quantum theory and quantization of a system of free fields. 91a:81086
- Blanchard, Philippe (with Stubbe, Joachim) Stability of ground states for nonlinear classical field theories. 91a:81025
- Bogolyubov, N. N., Jr. (with Samoilenko, V. Gr.; Suyarov, U. S.) Classical and quantum complete integrability of a nonlinear modified Schrödinger model. (Russian) 91a:58071
- Boiti, M. (with Kulish, P. P.; Pempinelli, F.) Scattering of wall solitons in $2+1$ dimensions. 91h:35275
- Burgess, Mark (with Toms, David J.) One loop flux breaking by massive fields. 91c:81030
- Chan, Hong-Mo (with Tsou, Sheung Tsun) Towards a "pointless" generalisation of Yang-Mills theory. 91a:81111
- Dineikhan, M. (with Efimov, G. V.; Namsrai, Kh.) Green functions of scalar particles in stochastic fields. 91f:81080
- Díaz, L. Relativistic theory for continuous measurement of quantum fields. 91m:81022
- Duplantier, Bertrand (with Ludwig, Andreas W. W.) Multifractals, operator product expansion, and field theory. 91m:82050
- Efimov, G. V. *see* Dineikhan, M.; et al., 91f:81080
- Fröhlich, Jürg (with Struwe, Michael) Variational problems on vector bundles. 91g:58067
- Høegh-Krohn, Raphael J. *see* Albeverio, Sergio; et al., 91b:60040
- Holden, Helge *see* Albeverio, Sergio; et al., 91b:60040
- Inoue, Atsushi On Hopf type functional derivative equations for $\square u + cu + bu^2 + au^3 = 0$ on $\Omega \times \mathbb{R}$. I. Existence of solutions. 91h:35319
- Jaunt, Marcel (with Manna, Miguel A.; Martínez Alonso, Luis) Fermionic analysis of Davy-Stewartson dromions. 91k:35241
- Kolarud, Torbjörn *see* Albeverio, Sergio; et al., 91b:60040
- Kulish, P. P. *see* Boiti, M.; et al., 91h:35275
- Kuryshkin, V. V. *see* Bass, Sujit K., 91a:81086
- Lerner, I. V. (with Wegner, Franz) High-gradient operators of the unitary matrix-model. 91f:82028
- Ludwig, Andreas W. W. *see* Duplantier, Bertrand, 91m:82050
- Madore, John Modification of Kaluza-Klein theory. 91g:58015
- Manna, Miguel A. *see* Jaunt, Marcel; et al., 91k:35241
- Manton, N. S. Dynamics of monopoles. 91h:58032
- Martínez Alonso, Luis *see* Jaunt, Marcel; et al., 91k:35241
- Nakawaki, Yuji Quantum Gelfand-Levitan equations for Jost functions associated with bound states of the nonlinear Schrödinger model. 91k:81206
- Namsrai, Kh. *see* Dineikhan, M.; et al., 91f:81080
- Pempinelli, F. *see* Boiti, M.; et al., 91h:35275
- Pu, Fu Ke (with Sattinger, D. H.) The Yang-Baxter equations and differential identities. 91a:58087
- Richards, Donald St. P. *see* Askey, Richard, 91f:33006
- Saitoh, Yoshihiro (with Sakai, Norisuke; Yugami, Nobuhiro) Bosonic constructions of \mathcal{W}_3 algebra. 91k:81058
- Sakai, Norisuke *see* Saitoh, Yoshihiro; et al., 91k:81058
- Samoilenko, V. Gr. *see* Bogolyubov, N. N., Jr.; et al., 91a:58071
- Sattinger, D. H. *see* Pu, Fu Ke, 91a:58087
- Shahad, A. E. Polarization of a vacuum and a quantum relativistic gas in an external field. (Russian) 91a:81232

- Singer, Michael A. *see* Bailey, T. N., 91f:81063
- Struwe, Michael *see* Fröhlich, Jürg, 91g:58067
- Stubbe, Joachim *see* Blanchard, Philippe, 91a:81025
- Summers, Stephen J. Bell's inequalities and quantum field theory. (see 91i:00023)
- Suyarov, U. S. *see* Bogolyubov, N. N., Jr.; et al., 91a:58071
- Tapia, V. A novel method to solve functional-differential equations. Application to quantum field theory. 91h:58033
- Toms, David J. *see* Burgess, Mark, 91c:81030
- Tsou, Sheung Tsun *see* Chan, Hong-Mo, 91a:81111
- Vasil'ev, M. A. Triangle identity and free differential algebra of massless higher spins. 91a:81067
- Ward, R. S. Scattering of classical lumps: some recent results. 91a:35160
- Wegner, Franz *see* Lerner, I. V., 91j:82028
- Yugami, Nobuhiro *see* Saitoh, Yoshihiro; et al., 91k:81058

81Uxx Scattering theory [see also 47A40]

Pearson, D. B. ★ Quantum scattering and spectral theory. 91k:81198

81U05 2-body potential scattering theory [see also 34E20 for WKB methods]

- Al-Jalal, A. M. *see* Mavromatis, Harry A., 91f:81225
- Avishai, Y. (with Berend, Daniel) Transmission through a one-dimensional Fibonacci sequence of δ -function potentials. 91h:81181
- Bacchi, Bijan Kumar Supersymmetry, reflectionless symmetric potentials and the inverse method. 91a:81213
- Baumgartner, B. Relations between ground state properties and level spacing. 91k:81199
- Belov, A. A. (with Lozovik, Yu. E.) Bound states in potential without central symmetry: e -expansion and Riemannian geometry. 91b:81173
- Berend, Daniel *see* Avishai, Y., 91h:81181
- Buslaev, V. S. (with Dmitrieva, L. A.) A Bloch electron in an external field. 91g:81162
- Cheremshantsev, S. E. Asymptotic completeness and the absence of bound states in the quantum problem of scattering by a Brownian particle. 91d:81151
- Common, A. K. Moment inequalities and a Martin conjecture. (see 91k:81005)
- Dmitrieva, L. A. *see* Buslaev, V. S., 91g:81162
- Ess, Volker Long-range scattering of two- and three-body quantum systems. 91a:81214
- Farina, J. E. G. (with Mosley, S. N.) The asymptotic localization of position probability in quantum mechanics. 91g:81163
- Faris, William G. (with Tsay, Woody J.) Scattering of a wave packet by an interval of random medium. 91b:81174
- Gérard, Christian (with Martínez, André) Prolongement méromorphe de la matrice de scattering pour des problèmes à deux corps à longue portée. (English summary) [Meromorphic extension of the scattering matrix for long-range two-body problems] 91f:81224
- Graf, Gian Michele Asymptotic completeness for N -body short-range quantum systems. (see 91f:35004)
- Grigoryan, L. M. (with Malev, A. V.; Rudakov, V. S.) The Levinson theorem for a zero-range potential system. (Russian. English summary) 91d:81152
- Henzler, Walter Asymptotic perturbation theory for Schrödinger eigenvalue problems. 91k:81215
- Resonances, metastable states and exponential decay laws in perturbation theory. 91k:81200
- Klein, Markus (with Robert, Didier; Wang, Xue Ping) Breit-Wigner formula for the scattering phase in the Stark effect. 91h:81182
- Korobov, V. I. Analysis of the Schrödinger equation in the Breit-Hylleraas symmetry representation. 91h:81183
- Kostykin, V. V. *see* Kvitinskii, A. A., 91j:81096
- Kuryl'ev, Ya. V. Scattering on a curve. I. The existence of wave operators and asymptotic completeness in the periodic case. (Russian. English summary) 91m:81302
- Kvitinskii, A. A. (with Kostykin, V. V.) S -matrix and Jost functions of Schrödinger Hamiltonian related to the Stark effect. 91j:81096
- Léval, G. A class of exactly solvable potentials related to the Jacobi polynomials. 91m:81303
- Lozovik, Yu. E. *see* Belov, A. A., 91b:81173
- Labenets, E. Upper estimates of underbarrier penetration in potential scattering. (Italian and Russian summaries) 91h:81184
- On one approach to defining the quasi-stationary-state energy in potential scattering. (Italian and Russian summaries) 91h:81099
- Maass, Reinhard *see* Zielke, Andreas; et al., 91g:81164
- Mainland, G. Bruce (with Parson, L. A.) Derivation of the coordinate system that separates the Bethe-Salpeter equation for the Wick-Cutkosky model. 91m:81304
- Malev, A. V. *see* Grigoryan, L. M.; et al., 91d:81152
- Martin, André A new proof of the log-concavity property of the wave function for a potential with Laplacian of a given sign. 91e:81110
- Martínez, André *see* Gérard, Christian, 91f:81224
- Mavromatis, Harry A. (with Al-Jalal, A. M.) On obtaining the scattering potential and its moments in the partial wave Born approximation. 91f:81225
- Mosley, S. N. *see* Farina, J. E. G., 91g:81163
- Muthuramalingam, P. I. (with Sinha, Kalyan B.) Existence and completeness of wave operators for the Dirac operator in an electromagnetic field with long range potentials. 91a:81216
- Newton, Roger G. ★ Inverse Schrödinger scattering in three dimensions. 91a:81217
- Eigenvalues of the S matrix. 91f:81226a
- Errata: "Eigenvalues of the S matrix". 91f:81226b
- Erratum: "The spectrum of the Schrödinger S matrix: low energies and a new Levinson theorem" [Ann. Physics 194 (1989), no. 1, 173–196; MR 90j:81266]. 91f:81227
- A note on trace-class scattering amplitudes. 91m:81305
- Parson, L. A. *see* Mainland, G. Bruce, 91m:81304

- Robert, Didier *see* Klein, Markus; et al., 91b:81182
- Roberts, Thomas M. Scattering for step-periodic potentials in one dimension. 91m:81306
- Rodakov, V. S. *see* Grigoryan, L. M.; et al., 91d:81152
- Scheid, Werner *see* Ziehlke, Andreas; et al., 91g:81164
- Sinha, Kalyan B. *see* Muthuramalingam, P., 91a:81216
- Skibsted, Erik Time-dependent approach to radiation conditions. 91k:81201
- Sobolev, Aleksandr Vladimirovich The quasi-classical limit of the total scattering cross section for asymptotically homogeneous potentials. 91m:81307
- Sölter, Geert-Ulrich Generalization of Müller's variational principle. 91c:81169
- Tsuy, Woody J. *see* Faris, William G., 91b:81174
- Wang, Xue Ping *see* Klein, Markus; et al., 91b:81182
- Weaver, Oliver L. *see* Ziehlke, Andreas; et al., 91g:81164
- Yafaev, D. R. On resonant scattering for time-periodic perturbations. 91j:81097
- Ziehlke, Andreas (with Maass, Reinhard; Scheid, Werner; Weaver, Oliver L.) Potentials in algebraic scattering theory. 91g:81164
- Items with secondary classifications in 81U05
- Ashbaugh, Mark S. (with Benguria, Rafael D.) Optimal bounds for ratios of eigenvalues of one-dimensional Schrödinger operators with Dirichlet boundary conditions and positive potentials. 91c:34114
- Badynkov, V. F. Uniqueness of a solution of boundary value problems of scattering with complex periodic potentials. 91i:35053
- Balslev, Erik Asymptotic properties of resonance functions and generalized eigenfunctions. 91h:35239
- (with Skibsted, Erik) Resonances and poles of the S -matrix. (see 91m:35005)
- (with Skibsted, Erik) Resonance theory of two-body Schrödinger operators. (French summary) 91d:35161
- (with Skibsted, Erik) Asymptotic and analytic properties of resonance functions. (French summary) 91h:35230
- Benguria, Rafael D. *see* Ashbaugh, Mark S., 91c:34114
- Birman, M. Sh. (with Yafaev, D. R.) On the trace-class method in potential scattering theory. (Russian. English summary) 91g:35198
- Cheremshantsev, S. E. *see* Makarov, K. A., 91h:35244
- Clemence, Dominic P. Low-energy scattering and Levinson's theorem for a one-dimensional Dirac equation. 91c:34115
- Dattoli, G. (with Giannessi, L.; Mezi, L.; Torre, Amalia) Theory of generalized Bessel functions. (Italian and Russian summaries) 91c:33002
- Fabes, Eugene B. (with Garofalo, Nicola; Lin, Fang-Hua) A partial answer to a conjecture of B. Simon concerning unique continuation. 91m:35074
- Fernández, Claudio (with Lavine, Richard) Lower bounds for resonance widths in potential and obstacle scattering. 91h:35094
- Fiedeldey, H. *see* Leeb, H.; et al., 91b:81178
- Garofalo, Nicola *see* Fabes, Eugene B.; et al., 91m:35074
- Georgiev, Vladimir S. *see* Petkov, Vesselin M., 91h:35245
- Gérard, Christian Semiclassical resolvent estimates for two- and three-body Schrödinger operators. 91m:81043
- Resonance theory in atom-surface scattering. 91a:81222
- Semiclassical resolvent estimates for two and three-body Schrödinger operators. 91h:35096
- Gestria, G. N. On the application of continual integrals to the solution of certain inverse problems for the three-dimensional Schrödinger equation. 91m:35237
- Giannessi, L. *see* Dattoli, G.; et al., 91c:33002
- Heffer, B. (with Robert, Didier) Riesz means of bound states and semiclassical limit connected with a Lieb-Thirring's conjecture. 91h:35241
- Hinton, D. B. (with Klaus, Martin; Shaw, J. K.) High-energy asymptotics for the scattering matrix on the line. 91f:34107
- Imbo, Tom D. *see* Wang, Qin Mou; et al., 91b:81034
- Journé, J.-L. (with Soffer, A.; Sogge, Christopher D.) $L^p \rightarrow L^q$ estimates for time-dependent Schrödinger operators. 91g:35000
- Keung, Wai-Yee *see* Wang, Qin Mou; et al., 91b:81034
- Klaus, Martin On the Levinson theorem for Dirac operators. 91i:81019
- *see also* Hinton, D. B.; et al., 91f:34107
- Lavine, Richard *see* Fernández, Claudio, 91h:35094
- Leeb, H. (with Schnizer, W. A.; Fiedeldey, H.; Sofianos, S. A.; Lipperheide, R.) Inverse scattering problem at fixed energy for a solvable class of potentials. 91b:81178
- Lia, Fang-Hua *see* Fabes, Eugene B.; et al., 91m:35074
- Lipperheide, R. *see* Leeb, H.; et al., 91b:81178
- Makarov, K. A. (with Cheremshantsev, S. E.) Point interactions with internal structure as a limit of separable potentials. (Russian. English summary) 91h:35244
- Matsui, Taku The index of scattering operators of Dirac equations. II. 91j:58152
- Melin, Anders The Lippman-Schwinger equation treated as a characteristic Cauchy problem. 91g:35081
- Mezi, L. *see* Dattoli, G.; et al., 91c:33002
- Nakamura, Shu¹ Distortion analyticity for two-body Schrödinger operators. (French summary) 91h:35064
- Onawa, Tohru New L^p -estimates for solutions to the Schrödinger equations and time asymptotic behavior of observables. 91m:35182
- Lower L^p -bounds for scattering solutions of the Schrödinger equations. 91m:35183
- Parise, Bernard Résonances paires pour l'opérateur de Dirac. (English summary) [Even resonances for the Dirac operator] 91a:81037
- Petkov, Vesselin M. (with Georgiev, Vladimir S.) RAGE theorem for power bounded operators and decay of local energy for moving obstacles. (French summary) 91h:35245
- Robert, Didier (with Tamura, Hideo) Asymptotic behaviour of scattering amplitude in semi-classical limit. (see 91m:35005)
- (with Tamura, Hideo) Asymptotic behavior of scattering amplitudes in semi-classical and low energy limits. (French summary) 91c:35116
- Asymptotique à grande énergie de la phase de diffusion pour un potentiel. (English summary) [High-energy asymptotics of the scattering phase for a potential] 91m:35179
- *see also* Heffer, B., 91h:35241
- Schnizer, W. A. *see* Leeb, H.; et al., 91b:81178
- Shaw, J. K. *see* Hinton, D. B.; et al., 91f:34107
- Sigal, I. M. On long-range scattering. 91h:35246
- Skibsted, Erik *see* Balslev, Erik, 91d:35161; 91h:35230 and (91m:35005)
- Sobolev, Aleksandr Vladimirovich On the total scattering cross section for a finite potential. 91d:35163
- Soffer, A. *see* Journé, J.-L.; et al., 91g:35000
- Sofianos, S. A. *see* Leeb, H.; et al., 91b:81178
- Sogge, Christopher D. *see* Journé, J.-L.; et al., 91g:35000
- Stubbe, Joachim Bounds on the number of bound states for potentials with critical decay at infinity. 91a:35129
- Sukhatme, Uday P. *see* Wang, Qin Mou; et al., 91b:81034
- Tamura, Hideo *see* Robert, Didier, 91c:35116 and (91m:35005)
- Torre, Amalia *see* Dattoli, G.; et al., 91c:33002
- Wang, Qin Mou (with Sukhatme, Uday P.; Keung, Wai-Yee; Imbo, Tom D.) Solitons from supersymmetry. 91b:81034
- Wang, Xue Ping Bounds on widths of resonances for Stark Hamiltonians. 91k:81036
- Yafaev, D. R. On the quasi-classical asymptotics of the forward scattering amplitude and of the total scattering cross-section. 91a:35132
- *see also* Birman, M. Sh., 91g:35198
- ### 81U10 n -body potential scattering theory
- Abou-Zied, Mostafa Mohamed N -particles Hamiltonian operator. (Arabic summary) 91g:81165
- Bakker, B. L. G. *see* Huizinga, A. J., 91g:81166
- Basdevant, J.-L. (with Martin, André; Richard, J. M.) Improved bounds on many-body Hamiltonians. I. Self-gravitating bosons. 91k:81202a
- (with Martin, André; Richard, J. M.) Improved bounds on many-body Hamiltonians. II. Baryons from mesons in the quark model. 91k:81202b
- Belyaev, V. B. ★ Lectures on the theory of few-body systems. 91m:81308
- Bonfeld, G. D. *see* Schellingerhout, N. W.; et al., 91e:81113
- Botvich, D. D. (with Malyshev, V. A.) Proof of asymptotic completeness uniformly with respect to the number of particles. 91k:81203
- Derezinski, Jan A new proof of the propagation theorem for N -body quantum systems. 91a:81218
- Ess, Volker Two- and three-body quantum scattering: completeness revisited. (see 91m:35005)
- Glöckle, Walter *see* Polyzou, W. N., 91m:81312
- Graf, Gian Michele Asymptotic completeness for N -body short-range quantum systems: a new proof. 91i:81100
- Phase space analysis of the charge transfer model. 91e:81111
- Hagedorn, George A. Analysis of a nontrivial, explicitly solvable multichannel scattering system. (French summary) 91c:81170
- Hou, Xin-Jun *see* Liu, Fu Qing; et al., 91f:81228
- Huizinga, A. J. (with Bakker, B. L. G.) The solution of Faddeev integral equations for three-body scattering by means of B -splines. 91g:81166
- Kadomtsev, M. B. *see* Vinititskii, S. I.; et al., 91h:81185
- Karner, Georg Many-body systems and the Efimov effect. 91e:81112
- Klemm, Anthony D. (with Larsen, Sigurd Y.) Behaviour of adiabatic potentials in the scattering of three particles. 91m:81309
- Kok, L. P. *see* Schellingerhout, N. W.; et al., 91e:81113
- Kostrykin, V. V. (with Kvitsinskii, A. A.; Merkur'ev, S. P.) Faddeev approach to the three-body problem in total-angular-momentum representation. 91k:81204
- (with Merkur'ev, S. P.) A trace formula for a three-particle system in an external electric field. 91a:81219
- Kuperin, Yu. A. (with Makarov, K. A.; Merkur'ev, S. P.; Motovilov, A. K.; Pavlov, B. S.) Extended Hilbert space approach to few-body problems. 91m:81310
- (with Merkur'ev, S. P.; Yarevskii, E. A.) Three-body quantum system on a line: wave function asymptotics for increasing interactions. 91j:81098
- Kurasov, P. B. Three one-dimensional bosons with an internal structure. 91m:81311
- Kvitsinskii, A. A. *see* Kostrykin, V. V.; et al., 91k:81204
- Larsen, Sigurd Y. *see* Klemm, Anthony D., 91m:81309
- Lim, Teck-kah *see* Liu, Fu Qing, 91a:81220 and 91f:81228
- Liu, Fu Qing (with Lim, Teck-kah) The hyperspherical-harmonics expansion method and the integral-equation approach to solving the few-body problem in momentum space. 91a:81220
- (with Hou, Xin-Jun; Lim, Teck-kah) Faddeev-Yakubovsky theory for four-body systems with three-body forces and its one-dimensional integral equations from the hyperspherical-harmonics expansion in momentum space. 91f:81228
- Makarov, K. A. *see* Kuperin, Yu. A.; et al., 91m:81310
- Malyshev, V. A. *see* Botvich, D. D., 91k:81203
- Martin, André *see* Basdevant, J.-L.; et al., 91k:81202a and 91k:81202b
- McKellar, Bruce H. J. *see* Pisani, Carmelo, 91f:81229
- Merkur'ev, S. P. *see* Kostrykin, V. V., 91a:81219; Vinititskii, S. I.; et al., 91i:81101; Kuperin, Yu. A.; et al., 91j:81098; Kostrykin, V. V.; et al., 91k:81204 and Kuperin, Yu. A.; et al., 91m:81310
- Miyagawa, Kazuya *see* Sawada, Tatsuhiro; et al., 91g:81167 and 91k:81205
- Motovilov, A. K. *see* Kuperin, Yu. A.; et al., 91m:81310
- Pavlov, B. S. *see* Kuperin, Yu. A.; et al., 91m:81310
- Pisani, Carmelo (with McKellar, Bruce H. J.) Virtual coefficients in the presence of an infinite number of bound states and strongly repulsive potentials: application to the Efimov point. 91f:81229
- Polyzou, W. N. (with Glöckle, Walter) Three-body interactions and on-shell equivalent two-body interactions. 91m:81312
- (Pontecorvo, G. B.) *see* Belyaev, V. B., 91m:81308
- Popyshin, V. V. Asymptotic expansions of wave functions of three identical particles for small hyperradii and S -wave potentials. 91f:81230
- Puzynin, I. V. *see* Vinititskii, S. I.; et al., 91i:81101
- Richard, J. M. *see* Basdevant, J.-L.; et al., 91k:81202a and 91k:81202b

- Sawada, Tatsuhiro (with Thushima, Kathuhide; Miyagawa, Kazuya) On the triad of three-body Lippmann-Schwinger equations. **91g:81167**
- (with Miyagawa, Kazuya; Thushima, Kathuhide) Noncompactness of the kernel of a 3-body Lippmann-Schwinger equation in the absence of rearrangement channels. **91h:81205**
- Schellingerhout, N. W. (with Kok, L. P.; Bosveld, G. D.) Configuration-space Faddeev calculations: supercomputer accuracy on a personal computer. **91e:81113**
- Sigal, I. M. Many-body scattering problem. **91f:81231**
- (with Soffer, A.) Long-range many-body scattering. Asymptotic clustering for Coulomb-type potentials. **91e:81114**
- Soffer, A. see Sigal, I. M., **91e:81114**
- Suslov, V. M. see Vinitskii, S. I.; et al., **91h:81101**
- Suz'ko, A. A. see Vinitskii, S. I.; et al., **91h:81185**
- Thushima, Kathuhide see Sawada, Tatsuhiro; et al., **91g:81167** and **91h:81205**
- Vinitskii, S. I. (with Kadomtsev, M. B.; Suz'ko, A. A.) Adiabatic representation of the three-body problem in hyperspherical coordinates. Scattering amplitude. **91h:81185**
- (with Merkur'ev, S. P.; Puzynin, I. V.; Suslov, V. M.) Matrix structure of the Faddeev equations in the coordinate space. **91e:81101**
- Wang, Xue Ping Resonances of N -body Schrödinger operators with Stark effect. (French summary) **91g:81168**
- Yakovlev, S. L. Coordinate asymptotics of a wave function for a system of four particles that are free in the initial state. **91h:81102**
- Yarevskii, E. A. see Kuperin, Yu. A.; et al., **91j:81096**
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- Ess, Volker Long-range scattering of two- and three-body quantum systems. **91a:81214**
- Evans, W. D. (with Lewis, Roger T.) N -body Schrödinger operators with finitely many bound states. **91c:35111**
- Gérard, Christian Semiclassical resolvent estimates for two and three-body Schrödinger operators. **91h:35096**
- Hanziker, Walter Introduction to N -body Schrödinger operators. **91h:35097**
- Iao, Taketoshi see Munakata, Yasuo; et al., **91e:81016**
- Kuperin, Yu. A. (with Makarov, K. A.; Mel'nikov, Yu. B.) The operator method for excluding forbidden states. (Russian. English summary) **91d:81022**
- Lewis, Roger T. see Evans, W. D., **91c:35111**
- Makarov, K. A. see Kuperin, Yu. A.; et al., **91d:81022**
- Mel'nikov, Yu. B. see Kuperin, Yu. A.; et al., **91d:81022**
- Munakata, Yasuo (with Sakamoto, Jiro; Iao, Taketoshi; Nakamae, Takuji; Yamamoto, Fujio) Exact solutions of a relativistic three-body bound state in $1 + 1$ dimensions. **91e:81016**
- Nakamae, Takuji see Munakata, Yasuo; et al., **91e:81016**
- Raiz, E. Approximate relativistic quantum Hamiltonians for N interacting particle systems. **91h:81022**
- Sakamoto, Jiro see Munakata, Yasuo; et al., **91e:81016**
- Yamamoto, Fujio see Munakata, Yasuo; et al., **91e:81016**
- Zakhar'ev, B. N. Three-body inverse scattering problem. **91b:81179**

81U20 S -matrix theory, etc.

- Barut, Asim O. (with Inomata, Akira; Wilson, Raj) Algebraic scattering theory of relativistic composite particles. **91b:81175**
- Bera, P. K. see Das, U.; et al., **91f:81232**
- Das, U. (with Talukdar, B.; Bera, P. K.) Integral representation for off-shell Jost functions. **91f:81232**
- Fujiwara, Yoshikazu (with Tsue, Y.) Two-cluster S -matrix in the multicomponent nonlinear Schrödinger model. **91e:81115**
- Inomata, Akira see Barut, Asim O.; et al., **91b:81175**
- Kobylinski, N. A. (with Stepanov, S. S.; Tutik, R. S.) The \hbar -expansion for Regge trajectories. I. The Schrödinger equation. **91g:81169**
- Kuperin, Yu. A. (with Makarov, K. A.; Pavlov, B. S.) An extensions theory setting for scattering by breathing bag. **91b:81176**
- Makarov, K. A. see Kuperin, Yu. A.; et al., **91b:81176**
- Manoukian, Edward B. Scattering theory in quantum field theory in configuration space. **91h:81177**
- Nicolai, H. see de Vega, H. J., **91g:81170**
- Pavlov, B. S. see Kuperin, Yu. A.; et al., **91b:81176**
- Stepanov, S. S. see Kobylinski, N. A.; et al., **91g:81169**
- Talukdar, B. see Das, U.; et al., **91f:81232**
- Tsue, Y. see Fujiwara, Yoshikazu, **91e:81115**
- Tutik, R. S. see Kobylinski, N. A.; et al., **91g:81169**
- de Vega, H. J. (with Nicolai, H.) The octonionic S -matrix. **91g:81170**
- Wilson, Raj see Barut, Asim O.; et al., **91b:81175**

Items with secondary classifications in 81U20

- Bellout, Hamid (with Friedman, Avner) Scattering by stripe grating. **91g:35197**
- Bijsterveld, J. The scattering of a separable relativistic bound state by an external perturbative potential. (Italian and Russian summaries) **91a:81226**
- Destri, C. (with de Vega, H. J.) The exact S -matrix of the affine E_3 Toda field theory. **91d:81122**
- Friedman, Avner see Bellout, Hamid, **91g:35197**
- Huggett, S. A. (with Singer, Michael A.) Relative cohomology and projective twistor diagrams. **91f:32034**
- Iagolnitzer, D. (with Iagolnitzer, L.) Nonholonomicity of the S matrix and Green functions in quantum field theory: a direct algebraic proof in some simple situations. **91g:81161**
- Iagolnitzer, L. see Iagolnitzer, D., **91g:81161**
- Kamran, Niky (with Oliver, Peter J.) Lie algebras of differential operators and Lie-algebraic potentials. **91b:34145**

- Kobylinski, N. A. (with Stepanov, S. S.; Tutik, R. S.) Semiclassical approach to ground states within the Klein-Gordon equation. **91b:81187**
- Kostykin, V. V. see Kvitsinskii, A. A., **91j:81096**
- Kuryl'ev, Ya. V. Scattering on a curve. I. The existence of wave operators and asymptotic completeness in the periodic case. (Russian. English summary) **91m:81302**
- Kvitsinskii, A. A. (with Kostykin, V. V.) S -matrix and Jost functions of Schrödinger Hamiltonian related to the Stark effect. **91j:81096**
- Naculich, Stephen G. (with Schnitzer, Howard J.) Constructive methods for higher-genus correlation functions of level-one simply-laced WZW models. **91j:81082**
- Olver, Peter J. see Kamran, Niky, **91b:34145**
- Schnitzer, Howard J. see Naculich, Stephen G., **91j:81082**
- Schoutens, Karellan Supersymmetry and factorizable scattering. **91h:81088**
- Singer, Michael A. see Huggett, S. A., **91f:32034**
- Smirnov, F. A. The perturbed $c < 1$ conformal field theories as reductions of sine-Gordon model. **91a:81195**
- Stepanov, S. S. see Kobylinski, N. A.; et al., **91b:81187**
- Tutik, R. S. see Kobylinski, N. A.; et al., **91b:81187**
- de Vega, H. J. see Destri, C., **91d:81122**

81U30 Dispersion theory, dispersion relations

- Antón, J. (with Cruz, A.) Orthogonal polynomials and cut extrapolations. (Spanish summary) (see **91m:00037**)
- Cruz, A. see Antón, J., **(91m:00037)**
- Krasnikov, S. V. On sister trajectories. **91d:81153**
- Items with secondary classifications in 81U30
- Ginibre, J. (with Velo, G.) Conformal invariance and time decay for nonlinear wave equations. **91c:35094**
- Velo, G. see Ginibre, J., **91c:35094**

81U40 Inverse scattering problems [see also 58F07, 58F19]

- Amirkhanov, I. V. (with Puzynina, T. P.) * Численное решение прямой и обратной задач квантовой механики в рамках R -матричного подхода и Баргмановского формализма. (Russian) [Numerical solution of direct and inverse problems in quantum mechanics in the framework of the R -matrix approach and Bargmann formalism] **91e:81116**
- (with Puzynin, I. V.; Puzynina, T. P.; Zakhar'ev, B. N.) About the three-body inverse problem. **91m:81313**
- Amos, K. A. see Kirst, Th.; et al., **91g:81171**
- Fiedeldey, H. see Leeb, H.; et al., **91b:81178**
- von Geramb, H. V. see Kirst, Th.; et al., **91g:81171**
- Kachalov, A. P. (with Kuryl'ev, Ya. V.) Inverse scattering problem for a one-dimensional Stark-effect Hamiltonian. **91j:81099**
- Kirst, Th. (with von Geramb, H. V.; Amos, K. A.) A relationship between Gelfand-Levitan and Marchenko kernels. **91g:81171**
- Konotop, V. V. Nonlinear Schrödinger equation with random initial conditions at small correlation radius. **91d:81154**
- Kuryl'ev, Ya. V. see Kachalov, A. P., **91j:81099**
- Leeb, H. (with Schnitzer, W. A.; Fiedeldey, H.; Sofianos, S. A.; Lipperheide, R.) Inverse scattering problem at fixed energy for a solvable class of potentials. **91b:81178**
- Lipperheide, R. see Leeb, H.; et al., **91b:81178**
- Nakawaki, Yaji Quantum Gelfand-Levitan equations for Jost functions associated with bound states of the nonlinear Schrödinger model. **91h:81206**
- Pil'vrinta, Lassi (with Somersalo, Erkki) Inversion of discontinuities for the Schrödinger equation in three dimensions. **91m:81314**
- Puzynina, I. V. see Amirkhanov, I. V.; et al., **91m:81313**
- Puzynina, T. P. see Amirkhanov, I. V., **91e:81116** and **91m:81313**
- Sabatier, Pierre C. On modeling discontinuous media. Three-dimensional scattering. **91a:81221**
- Schnitzer, W. A. see Leeb, H.; et al., **91b:81178**
- Sklyanin, E. K. Exact quantization of the sinh-Gordon model. **91e:81117**
- Sofianos, S. A. see Leeb, H.; et al., **91b:81178**
- Somersalo, Erkki see Pil'vrinta, Lassi, **91m:81314**
- Weder, Ricardo Multidimensional inverse scattering: the reconstruction problem. **91f:81233**
- Zakhar'ev, B. N. Three-body inverse scattering problem. **91b:81179**
- see also Amirkhanov, I. V.; et al., **91m:81313**

Items with secondary classifications in 81U40

- Basharov, A. M. Relation between exactly integrable models in resonance optics. **91m:81336**
- Cao, Ce Wen (with Geng, Xian Guo) C. Neumann and Bargmann systems associated with the coupled KdV soliton hierarchy. **91h:58051**
- Fung, P. C. W. see Kong, O. C. W., **91h:58230** and **91h:58231**
- Geng, Xian Guo see Cao, Ce Wen, **91h:58051**
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- Grünbaum, F. Alberto Soliton mathematics in signal processing. **91g:78015**
- Hasenfeld, Andrew Selective "complex" reflectionless potentials. **91g:78016**
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- Kuryl'ev, Ya. V. see Kachalov, A. P., **91d:34089**
- Melin, Anders On the general inversion problem. **91a:35130**
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- Polya, W. N. (with Glöckle, Walter) Three-body interactions and on-shell equivalent two-body interactions. **91m:81312**

- Ramm, Alexander G. Is the Born approximation good for solving the inverse problem when the potential is small? **91d:35233**
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- Sklyanin, E. K. Quantization of integrable models in infinite volume. The nonlinear Schrödinger equation. **91c:58052**
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- Trlifaj, Ladislav The Darboux and Abraham-Moses transformations of the one-dimensional periodic Schrödinger equation and inverse problems. **91a:34060**

81U99 None of the above, but in this section

- Alhassid, Y. The algebraic approach to scattering and the "Euclidean connection". (see **91m:81007**)
- Alvarez-Estrada, R. F. Quantum diffractive reflection by a periodic nonpenetrable surface: a multiple scattering approach. **91m:81315**
- Antoine, Michel (with Comtet, Alain; Ouvry, Stéphane) Scattering on a hyperbolic torus in a constant magnetic field. **91m:81316**
- von Brentano, P. On the generalization of the level repulsion theorem to resonances. **91h:81180**
- Comtet, Alain see Antoine, Michel; et al., **91m:81316**
- Deb, A. K. (with Saha, S. K.) Study of scattering theory in the harmonic oscillator representation. (Bengali summary) (Not in MR)
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- Gibbons, Gary W. (with Ruiz Ruiz, Fernando; Vachaspati, Tanmay) The nonrelativistic Coulomb problem on a cone. **91d:81155**
- Hwa, Rudolph C. Intermittency in the ϕ^3 branching model. **91f:81236**
- Jung, Christof Fractal properties in the semiclassical scattering cross section of a classically chaotic system. **91b:81181**
- Komarov, I. V. see Kvitsinskii, A. A.; et al., **91a:81223**
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- Lay, W. see Sliyanov, S., **91i:81103**
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- Menyuk, Curtis R. Transient solitons in stimulated Raman scattering. **91h:81186**
- Merkur'ev, S. P. see Kvitsinskii, A. A.; et al., **91a:81223**
- Molchanov, S. A. see Maslov, V. P., **91a:81224**
- Nassar, António B. Scattering via invariants of quantum hydrodynamics. **91h:81187**
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- Ouvry, Stéphane see Antoine, Michel; et al., **91m:81316**
- Paxtor-Kraus, J. Scattering theory in external fields slowly decaying in time. **91h:81182**
- Rice, Stuart A. see Gaspard, Pierre, **91f:81234** and **91f:81235**
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., **91d:81155**
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- Šeba, Petr see Exner, Pavel, (**91m:35005**)
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- Cordani, B. (with Fehér, L. Gy.; Horváthy, Peter A.) Kepler-type dynamical symmetries of long-range monopole interactions. **91d:83012**
- Ding, Ming Zhou (with Grebogi, Celso; Ott, Edward; Yorke, James A.) Transition to chaotic scattering. **91m:81063**
- Exner, Pavel One more theorem on the short-time regeneration rate. **91a:81035**
- Fehér, L. Gy. see Cordani, B.; et al., **91d:83012**
- Gaspard, Pierre (with Rice, Stuart A.) Erratum: "Semiclassical quantization of the scattering from a classically chaotic repeller" [J. Chem. Phys. **90** (1989), no. 4, 2242–2254; MR **90i:81168**]. **91f:81027**
- Grebogi, Celso see Ding, Ming Zhou; et al., **91m:81063**
- Grignani, G. (with Nardelli, G.) Scattering of low-energy fermions by a Chern-Simons vortex. **91m:81140**
- Horváthy, Peter A. see Cordani, B.; et al., **91d:83012**
- Korotkyan, E. L. On scattering in an exterior homogeneous and time-periodic magnetic field. **91h:47021**
- Kouri, Donald J. see Sun, Yan; et al., (Not in MR)
- Kuznetsov, V. B. Generalized polyperiodic functions and the quantum inverse scattering method. **91g:33015**
- Leese, Robert A. Low-energy scattering of solitons in the CP^1 model. **91h:81082**
- Mijatović, Mijat (with Trenčevski, Kostadin) Caustics of classical particle scattering. **91h:70011**
- Nardelli, G. see Grignani, G., **91m:81140**
- Ott, Edward see Ding, Ming Zhou; et al., **91m:81063**
- Rice, Stuart A. see Gaspard, Pierre, **91f:81027**
- Sagoyan, V. G. On the completeness of a system of eigenfunctions of the Regge problem for the Dirac operator. (Russian. English and Armenian summaries) **91c:34113**

- Schwenke, David W. see Sun, Yan; et al., (Not in MR)
- Šeba, Petr Wave chaos in singular quantum billiard. **91h:81028**
- Soffer, A. (with Weinstein, M. I.) Multichannel nonlinear scattering for nonintegrable equations. **91h:35303**
- Sun, Yan (with Kouri, Donald J.; Schwenke, David W.; Truhlar, Donald G.) Time-dependent wavepacket algorithm for inelastic molecule-molecule scattering. (Not in MR)
- Trenčevski, Kostadin see Mijatović, Mijat, **91h:70011**
- Truhlar, Donald G. see Sun, Yan; et al., (Not in MR)
- Ward, R. S. Scattering of classical lumps: some recent results. **91a:35160**
- Weinstein, M. I. see Soffer, A., **91h:35303**
- Yorke, James A. see Ding, Ming Zhou; et al., **91m:81063**
- Zhou, Zheng-Fang see Baez, John C., **91i:35144**

81Vxx Applications to specific physical systems

81V05 Strong interaction, including quantum chromodynamics

- Amado, R. D. see Hosaka, A.; et al., **91k:81208**
- Atkinson, D. Bifurcation theory applied to chiral symmetry breaking. (see **91k:81005**)
- Bang, Henrik Peter see Wirzba, A., **91e:81119**
- Bijtebier, J. The scattering of a separable relativistic bound state by an external perturbative potential. (Italian and Russian summaries) **91a:81226**
- Braun, V. M. (with Filyanov, I. E.) On the pion wave functions of nonleading twist. **91k:81207**
- Ferretti, G. (with Rajeev, S. G.) Universal Dirac-Yang-Mills theory. **91h:81188**
- Filyanov, I. E. see Braun, V. M., **91k:81207**
- Frenkel, J. (with Taylor, John Clayton) High-temperature limit of thermal QCD. **91a:81227**
- Griffies, S. M. see Hosaka, A.; et al., **91k:81208**
- Hosaka, A. (with Griffies, S. M.; Oka, Makoto; Amado, R. D.) Two skyrmion interaction for the Atiyah-Manton ansatz. **91k:81208**
- Hussain, Faheem (with Körner, J. G.; Thompson, George) Relativistic SU(6) wave functions as the basis of modern approaches to hadronic wave functions. (Not in MR)
- Iachello, F. (with Mukhopadhyay, Nimal C.; Zhang, Lizeng) Spectrum generating algebra for string-like hadrons. Mass formula for mesons. **91m:81317**
- Körner, J. G. see Hussain, Faheem; et al., (Not in MR)
- Kuznetsov, Dimitri The U(16) algebraic lattice. **91c:81171**
- Mukhopadhyay, Nimal C. see Iachello, F.; et al., **91m:81317**
- Oka, Makoto see Hosaka, A.; et al., **91k:81208**
- Rajeev, S. G. see Ferretti, G., **91h:81188**
- Rossi, Gian Carlo (with Yoshida, Kensuke) Fermionic functional integration and the temporal gauge of QCD. (Italian and Russian summaries) **91d:81156**
- Taylor, John Clayton see Frenkel, J., **91a:81227**
- Thompson, George see Hussain, Faheem; et al., (Not in MR)
- Wirzba, A. (with Bang, Henrik Peter) The mode spectrum and the stability analysis of skyrmions on a 3-sphere. **91e:81119**
- Yang, Yisong On the global behaviour of symmetric skyrmions. **91f:81237**
- Yoshida, Kensuke see Rossi, Gian Carlo, **91d:81156**
- Zhang, Lizeng see Iachello, F.; et al., **91m:81317**
- Zhitnitskii, A. R. Torons, chiral symmetry breaking and the U(1) problem in the σ -model and in gauge theories. **91j:81101**
- Zhou, Xiao Fang Some soliton solutions for the Skyrme model in the three-flavor case. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 81V05

- del Aguila, F. (with Coughlan, G. D.; Masip, M.) Revising a class of three-generation models: mass spectrum, renormalisation-group and proton-decay constraints. (Not in MR)
- Alford, M. G. (with Benson, Katherine; Coleman, Sidney; March-Russell, John; Wilczek, Frank) Interactions and excitations of nonabelian vortices. **91a:81076**
- Ananthanarayan, B. (with Shafi, Q.; Lazarides, G.) Three-generation superstring models with discrete R symmetries. **91f:81135**
- Baillie, Clive F. see Brickner, Ralph G.; et al., (Not in MR)
- Bambah, B. A. (with Mukku, C.) Effective actions for gauge theories with Chern-Simons terms. I. **91d:81061a**
- (with Mukku, C.) Erratum: "Effective actions for gauge theories with Chern-Simons terms. I". **91d:81061b**
- Bandyopadhyay, Pratul Holomorphic quantum mechanics, conformal reflection and the internal symmetry of hadrons. **91g:81027**
- (with Ghosh, Pradip) Twistor geometry, spinor structure and nature of superspace. **91i:81028**
- Bars, Itzhak Strings from reduced large- N gauge theory via area preserving diffeomorphisms. **91m:81182**
- Benson, Katherine see Alford, M. G.; et al., **91a:81076**
- Brickner, Ralph G. (with Baillie, Clive F.; Johnsson, S. Lennart) QCD on the connection machine: beyond LISP. (Not in MR)
- Casaliello, Eduardo R. (with Feoli, A.; Gasperini, M.; Scarpetta, G.) Quantum corrections to the spacetime metric from geometric phase space quantization. **91e:81047**
- Chen, Qing Yi A class of nonlinear Dirac systems of equations. (Chinese. English summary) **91i:35165**
- Coleman, Sidney see Alford, M. G.; et al., **91a:81076**
- Coughlan, G. D. see del Aguila, F.; et al., (Not in MR)
- DeGrand, Thomas A. (with Loft, Richard D.) Wave-function tests for lattice QCD spectroscopy. (Not in MR)
- Feoli, A. see Casaliello, Eduardo R.; et al., **91e:81047**
- Flato, M. (with Fronsdal, C.) Parastatistics, highest weight $osp(N, \infty)$ modules, singleton statistics and confinement. **91a:81065**
- Fronsdal, C. see Flato, M., **91a:81065**

- Gasperini, M. *see* Caianiello, Eduardo R.; et al., 91e:81047
- Gandini, M. (with Kostov, Ivan K.) $O(n)$ model on a fluctuating planar lattice. Some exact results. 91b:82009
- Ghosh, Pradip *see* Bandyopadhyay, Pratul, 91i:81028
- Haba, Zbigniew Noncompact WZW models as massless (QCD)₂ at infinite coupling. 91k:81163
- Hansen, F. C. Finite-size effects in spontaneously broken $SU(N) \times SU(N)$ theories. (Not in MR)
- Johnsson, S. Lennart *see* Brickner, Ralph G.; et al., (Not in MR)
- Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Ono, Yasuji; Tanioka, Kazutaka) Z_N orbifold models. 91f:81152
- Kawamura, Yoshiharu *see* Katsuki, Yasuhiko; et al., 91f:81152
- Kobayashi, Tatsuo *see* Katsuki, Yasuhiko; et al., 91f:81152
- Kostov, Ivan K. *see* Gandini, M., 91b:82009
- Kotcheff, A. C. W. (with Shore, G. M.) Phenomenological Kähler sigma models. I. 91a:81200
- Lazarides, G. *see* Ananthanarayan, B.; et al., 91f:81135
- Loft, Richard D. *see* DeGrand, Thomas A., (Not in MR)
- Lucha, Wolfgang (with Schöberl, Franz F.) Relativistic virial theorem. 91d:81035
- March-Russell, John *see* Alford, M. G.; et al., 91a:81076
- Masip, M. *see* del Aguila, F.; et al., (Not in MR)
- Mekku, C. *see* Bambah, B. A., 91d:81061a and 91d:81061b
- Mur, V. D. (with Popov, V. S.; Sergeev, A. V.) The $1/N$ expansion in quantum mechanics. 91m:81052
- Oehme, Reinhard Renormalization group, BRST cohomology, and the problem of confinement. 91m:81168
- Ohtsubo, Noriyasu *see* Katsuki, Yasuhiko; et al., 91f:81152
- Ono, Yasuji *see* Katsuki, Yasuhiko; et al., 91f:81152
- Popov, V. S. *see* Mur, V. D.; et al., 91m:81052
- Scarpetta, G. *see* Caianiello, Eduardo R.; et al., 91e:81047
- Schöberl, Franz F. *see* Lucha, Wolfgang, 91d:81035
- Sen, Diptiman Extended supersymmetry in the space-time $R \times S^3$. 91d:81088
- Sergeev, A. V. *see* Mur, V. D.; et al., 91m:81052
- Shafi, Q. *see* Ananthanarayan, B.; et al., 91f:81135
- Shirkov, D. V. Nonlocal renormalization "stopping" the running gauge. 91a:81134
- Shore, G. M. *see* Kotcheff, A. C. W., 91a:81200
- Tanimura, N. (with Tanimura, O.) New Bessel-type function associated with $SU(3)$ representation. 91m:81176
- Tanimura, O. *see* Tanimura, N., 91m:81176
- Tanioka, Kazutaka *see* Katsuki, Yasuhiko; et al., 91f:81152
- Wakamatsu, M. The Nambu-Jona-Lasinio model and the chiral anomaly. 91e:81062
- Wilczek, Frank *see* Alford, M. G.; et al., 91a:81076
- Zeglin, Paul Reexamination of four-generation heterotic string compactification as a superconformal field theory. 91c:81120
- Zwanziger, Daniel Quantization of gauge fields, classical gauge invariance and gluon confinement. 91f:81095

81V10 Electromagnetic interaction; quantum electrodynamics

- Anandan, Jeeva Interaction of a dipole with the electromagnetic field: quantum interference, classical limit and field equations. (see 91m:81004)
- Bagrov, V. G. (with Belov, V. V.; Maslov, V. P.) The method of quasiclassical trajectory-coherent states in the theory of spontaneous electron radiation. 91h:81189
- Barashev, V. P. (with Gitman, D. M.; Fradkin, E. S.; Shvartsman, Sh. M.) Problems in quantum electrodynamics with an unstable vacuum. Reduction formulas. A matrix of the density of particles that are generated on an external field. (Russian) 91h:81104
- Barut, Asim O. (with Grant, Aaron) Quantum particle-like configurations of the electromagnetic field. 91g:81172
- Renormalization and elimination of preacceleration and runaway solutions of the Lorentz-Dirac equation. 91c:81172
- Belov, V. V. *see* Bagrov, V. G.; et al., 91h:81189
- Bogdanov, E. I. (with Deryugin, I. A.; Nagibarov, I. A.; Sinyuk, A. I.) The Maxwell-Lagrange system in solid state theory. (Russian. English summary) 91a:81228
- Cai, Y. Q. (with Papini, G.; Wood, W. R.) Berry's phase for photons and topology in Maxwell's theory. 91j:81102
- Campolattaro, Alfonso A. Generalized Maxwell equations and quantum mechanics. I. Dirac equation for the free electron. 91f:81238
- Capri, A. Z. (with Kobayashi, Masanori; Takahashi, Yasushi) Lorentz invariance of the vacuum for external field problems. 91b:81183
- Caruso, F. (with Neto, N. P.; Svalter, B. F.; Svalter, N. F.) Attractive or repulsive nature of Casimir force in D -dimensional Minkowski spacetime. (Not in MR)
- Chepilko, N. M. *see* Kobushkin, A. P., 91a:81230
- Davidson, Aharon (with Guendelman, E. I.) Electric monopole with internal magnetic-monopole-like structure. 91k:81209
- Deryugin, I. A. *see* Bogdanov, E. I.; et al., 91a:81228
- Dietz, Klaus P. (with Römer, H.) Avoided level crossings and pair production in strong Coulomb fields. 91b:81184
- Dowling, Jonathan P. The mathematics of the Casimir effect. 91a:81229
- Duthell, Regis (with Steyaert, Jacques J.) The Dirac equation in two rectilinear dimensions and in general relativistic dimensions leading to magnetic monopoles in the light cone coordinates. (see 91h:83003)
- Ellis, James Robert Dirac magnetic monopole and the Aharonov-Bohm solenoid in the Poincaré gauge. 91k:81210
- Exner, Pavel A model of resonance scattering on curved quantum wires. (German summary) 91f:81239
- Flato, M. (with Fronsdal, C.) Composite electrodynamics. 91e:81105
- Ford, G. W. (with O'Connell, R. F.) Canonical commutator and mass renormalization. 91k:81211
- Fradkin, E. S. (with Gitman, D. M.; Shvartsman, Sh. M.) Optical theorem in quantum electrodynamics with unstable vacuum. 91e:81120
- *see also* Gitman, D. M.; et al., 91h:81190; Gavrilov, S. P.; et al., 91h:81191 and Barashev, V. P.; et al., 91i:81104
- Fronsdal, C. *see* Flato, M., 91e:81105
- (Fryberger, David) *see* Rodrigues, Waldyr A., Jr., 91i:81106
- Furuya, Kenji (with Gondo, Yasuhiko) Geometrical representation of the equations for solving quantum beat problems. 91c:81173
- Gavrilov, S. P. (with Gitman, D. M.; Fradkin, E. S.) Quantum electrodynamics with unstable vacuum. (Russian) 91h:81191
- Gitman, D. M. (with Fradkin, E. S.; Shvartsman, Sh. M.) Quantum electrodynamics with an external field that disrupts the stability of a vacuum. (Russian) 91h:81190
- *see also* Fradkin, E. S.; et al., 91e:81120; Gavrilov, S. P.; et al., 91h:81191 and Barashev, V. P.; et al., 91i:81104
- Gondo, Yasuhiko *see* Furuya, Kenji, 91c:81173
- Grant, Aaron *see* Barut, Asim O., 91g:81172
- Guendelman, E. I. *see* Davidson, Aharon, 91k:81209
- Hacyan, S. (with Jáuregui, R.; Soto-Eguibar, Francisco; Villarreal, C.) Spectrum of electromagnetic fluctuations in the Casimir effect. 91d:81157
- Henneberger, Walter C. *see* Zhu, Xingshu, 91k:81213
- Jackiw, R. Dynamical symmetry of the magnetic vortex. 91g:81173
- Jáuregui, R. *see* Hacyan, S.; et al., 91d:81157
- Kobayashi, Masanori *see* Capri, A. Z.; et al., 91b:81183
- Kobe, Donald H. (with Qian, Shang Wu) Adiabatic switching of electromagnetic fields and the energy operator. (Chinese summary) (Not in MR)
- Kobushkin, A. P. (with Chepilko, N. M.) A soliton model of an elementary electric charge. 91a:81230
- Lavenda, B. H. Underlying probability distributions of Planck's radiation law. (Not in MR)
- Laville, Guy Lagrangian for the so-called nonpotential systems: the case of magnetic monopoles. 91a:81231
- Maia, Adolfo, Jr. (with Recami, Erasmo; Rodrigues, Waldyr A., Jr.; Rosa, Marcio A. F.) Magnetic monopoles without string in the Kähler-Clifford algebra bundle: a geometrical interpretation. 91d:81158
- *see also* Rodrigues, Waldyr A., Jr.; et al., 91f:81240
- Maslov, V. P. *see* Bagrov, V. G.; et al., 91h:81189
- Nagibarov, I. A. *see* Bogdanov, E. I.; et al., 91a:81228
- Narnhofer, Heide (with Thirring, W.) A model for a dielectric. (see 91k:81005)
- Neto, N. P. *see* Caruso, F.; et al., (Not in MR)
- O'Connell, R. F. *see* Ford, G. W., 91k:81211
- Önem, Coskun The generalized Lorentz-Dirac equation for classical spinning two-body system. (Italian and Russian summaries) 91b:81185
- Papini, G. *see* Cai, Y. Q.; et al., 91j:81102
- Qi, Yong Chang *see* Zhang, Jian Za, 91h:81192
- Qian, Shang Wu *see* Kobe, Donald H., (Not in MR)
- Recami, Erasmo *see* Maia, Adolfo, Jr.; et al., 91d:81158 and Rodrigues, Waldyr A., Jr.; et al., 91f:81240
- Rodrigues, Waldyr A., Jr. (with Rosa, Marcio A. F.; Maia, Adolfo, Jr.; Recami, Erasmo) Physico-mathematical approach to generalized monopoles without string. 91f:81240
- A comment: "On generalized electromagnetism and Dirac algebra" [Found. Phys. 19 (1989), no. 2, 125-159; MR 90f:78003] by David Fryberger. 91i:81106
- *see also* Maia, Adolfo, Jr.; et al., 91d:81158
- Römer, H. *see* Dietz, Klaus P., 91b:81184
- Rosa, Marcio A. F. *see* Maia, Adolfo, Jr.; et al., 91d:81158 and Rodrigues, Waldyr A., Jr.; et al., 91f:81240
- Shabad, A. E. Polarization of a vacuum and a quantum relativistic gas in an external field. (Russian) 91a:81232
- Shvartsman, Sh. M. *see* Fradkin, E. S.; et al., 91e:81120; Gitman, D. M.; et al., 91h:81190 and Barashev, V. P.; et al., 91i:81104
- Sinyuk, A. I. *see* Bogdanov, E. I.; et al., 91a:81228
- Sitenko, Yu. A. Electron-charge fractionization on surfaces of various geometry in an external magnetic field. 91k:81212
- Soto-Eguibar, Francisco *see* Hacyan, S.; et al., 91d:81157
- Stanev, Y. S. (with Todorov, Ivan T.) Indecomposable representations in conformal quantum electrodynamics. 91i:81107
- Steyaert, Jacques J. *see* Duthell, Regis, (91h:83003)
- Svalter, B. F. *see* Caruso, F.; et al., (Not in MR)
- Svalter, N. F. *see* Caruso, F.; et al., (Not in MR)
- Takahashi, Yasushi *see* Capri, A. Z.; et al., 91b:81183
- Thirring, W. *see* Narnhofer, Heide, (91k:81005)
- Todorov, Ivan T. *see* Stanev, Y. S., 91i:81107
- Villarreal, C. *see* Hacyan, S.; et al., 91d:81157
- Wood, W. R. *see* Cai, Y. Q.; et al., 91j:81102
- Zhang, Jian Za (with Qi, Yong Chang) Wave functions of bound states of a fermion and a Dirac dyon and matrix elements in an external electromagnetic field. 91h:81192
- Zhu, Xingshu (with Henneberger, Walter C.) Some observations on the dynamics of the Aharonov-Bohm effect. 91k:81213

Items with secondary classifications in 81V10

- Aldaya, Victor (with Loll, R.; Navarro-Salas, José) The electromagnetic group: bosonic BRST charge. 91h:81168
- Anghel, N. The two-dimensional magnetic field problem revisited. 91g:58272
- Arai, Asao An asymptotic analysis and its application to the nonrelativistic limit of the Pauli-Fierz and a spin-boson model. 91j:81017
- Argyres, Philip C. (with Nappi, Chiara R.) Massive spin-2 bosonic string states in an electromagnetic background. 91f:81137
- Atkinson, D. Bifurcation theory applied to chiral symmetry breaking. (see 91k:81005)
- Banks, Thomas (with Lykken, Joseph D.) Landau-Ginzburg description of anyonic superconductors. 91c:82079
- Barut, Asim O. Three lectures on the foundations of quantum theory and quantum electrodynamics. (see 91m:82002)
- (with Önem, Coskun; Ünal, Nuri) The classical relativistic two-body problem with spin and self-interactions. 91a:78016

- Beyer, Horst (with Nitsch, Jürgen) A note on a Casimir effect in a uniformly accelerated reference frame. 91d:81087
- Biech, T. see Das, Anadijiban; et al., 91i:35192
- Bukhbinder, I. L. (with Gitterman, D. M.; Fradkin, E. S.) Quantum electrodynamics in curved space-time. (Russian) 91j:81049
- Cataldo, Horacio M. Holomorphy of the Fourier transformed memory kernel in the quantum Langevin equation. 91e:82049
- Clemence, Dominic P. Levinson's theorem for a Dirac system. 91a:81029
- Cox, W. On the Lagrangian and Hamiltonian constraint algorithms for the Rarita-Schwinger field coupled to an external electromagnetic field. 91f:81060
- Crater, H. W. (with Van Alstine, P.) Extension of two-body Dirac equations to general covariant interactions through a hyperbolic transformation. 91k:81060
- Das, Anadijiban (with Kay, Daniel) A class of exact plane wave solutions of the Maxwell-Dirac equations. 91a:35141
- (with Biech, T.; Kay, Daniel) Exact plane-wave solutions of the coupled Maxwell-Klein-Gordon equations. 91i:35192
- (Dirac, P. A. M.) see Kozhevnikov, A. B., (91i:01131) and Monastyrskii, M. I., (91i:01131)
- Doebner, H.-D. (with Tolar, J.) Symmetry and topology of the configuration space and quantization. (see 91m:81007)
- Dorman, I. V. Dirac's theory and the experimental discovery of the positron. (Russian) (see 91i:01131)
- Dowker, H. F. Electromagnetic wormhole vertex. 91e:83053
- Dubois-Violette, Michel (with Kerner, Richard; Madore, John) Noncommutative differential geometry of matrix algebras. 91a:46067
- Elizalde, E. (with Romeo, A.) Heat-kernel approach to the zeta-function regularization of the Casimir energy for domains with curved boundaries. 91d:81076
- Farina de Souza, Carlos see Vaidya, Arvind Narayan, 91m:78006
- Fradkin, E. S. see Bukhbinder, I. L.; et al., 91j:81049
- Fronsdal, C. (with Galindo, A.) Unconstrained supersymmetry. 91m:81285
- Fryberger, David A reply to: "A comment on generalized electromagnetism and Dirac algebra" [Found. Phys. Lett. 3 (1990), no. 1, 95–99; MR 91i:81106] by W. A. Rodrigues. 91m:78005
- Galindo, A. see Fronsdal, C., 91m:81285
- Garcia de Andrade, L. C. Nonlinear electrodynamics in space-times with torsion. 91d:83102
- Gitterman, D. M. see Bukhbinder, I. L.; et al., 91j:81049
- González-Martín, Gustavo Physical geometry: a unified theory of gravitation, electromagnetism and other interactions. 91m:81319
- Good, R. H., Jr. Relativistic wave equations for particles in electromagnetic fields. 91b:81048
- Gorringe, V. M. see Leach, P. G. L., 91h:34070
- Hagen, C. R. Exact equivalence of spin- $\frac{1}{2}$ Aharonov-Bohm and Aharonov-Casher effects. 91e:81011
- Haller, Kurt Gauge theories in the light-cone gauge. 91j:81045
- Higuchi, Atsushi (with Parker, Leonard) Quantum soliton in QED in $S^1 \times \mathbb{R}^2$ spacetime. 91c:81062
- Hurd, T. R. Soft breaking of gauge invariance in regularized quantum electrodynamics. 91b:81078
- Hurst, C. A. Quantum theory of the free electromagnetic field. (see 91m:81007)
- Jeziński, Jacek (with Kijowski, Jerzy) On the local canonical formalism in gauge field theories. 91e:81098
- Katz, Mikhail see Matravers, D. R., 91b:81089
- Kay, Daniel see Das, Anadijiban, 91a:35141 and 91i:35192
- Kerner, Richard Geometry of the Kaluza-Klein theories. 91f:83068
- see also Dubois-Violette, Michel; et al., 91a:46067
- Kijowski, Jerzy see Jeziński, Jacek, 91f:81098
- Kobayashi, Masanori (with Takahashi, Yasushi) The Rarita-Schwinger paradoxes in the theory with an auxiliary field. (Italian and Russian summaries) 91i:81098
- Komarov, L. I. see Le Van Hoang; et al., 91f:81025
- Kondrinski, Piotr A note on current algebra in QCD₂ and two-dimensional chiral theories. 91f:81090
- Kozhevnikov, A. B. Dirac's quantum electrodynamics. (Russian) (see 91i:01131)
- Leach, P. G. L. (with Gorringe, V. M.) The relationship between the symmetries of and the existence of conserved vectors for the equation $F + f(r)L + g(r)r = 0$. 91h:34070
- Lee, C. R. The Feynman-Dyson proof of the gauge field equations. 91g:81082
- Le Van Hoang (with Komarov, L. I.; Romanova, T. S.) On the Coulomb Green function. 91f:81025
- Löff, R. see Aldaya, Víctor; et al., 91h:81168
- Lüscher, Martin Charge screening and an upper bound on the renormalized charge in lattice QED. 91m:81162
- Lykken, Joseph D. see Banks, Thomas, 91c:82079
- Madore, John see Dubois-Violette, Michel; et al., 91a:46067
- Maia, Adolfo, Jr. (with Rocami, Erasmo; Rodrigues, Waldyr A., Jr.; Rosa, Marcio A. F.) Magnetic monopoles without strings by Kähler-Clifford algebra: geometrical interpretation of a satisfactory formalism. 91i:80006
- Majid, Shahin Fourier transforms on \mathcal{A}/\mathcal{I} and knot invariants. 91g:58282
- Matravers, D. R. (with Katz, Mikhail) The Wu and Yang monopole solution in curved spacetime. 91b:81089
- Molzahn, F. H. see Sakseena, A.; et al., 91m:81061
- Monastyrskii, M. I. The Dirac monopole and the Hopf fibration. (Russian) (see 91i:01131)
- Muthuramalingam, P. (with Sinha, Kalyan B.) Existence and completeness of wave operators for the Dirac operator in an electromagnetic field with long range potentials. 91a:81216
- Nappi, Chiara R. see Argyres, Philip C., 91f:81137
- Navarro-Salas, José see Aldaya, Víctor; et al., 91h:81168
- Neu, John C. Vortex dynamics of the nonlinear wave equation. 91i:35189
- Nitsch, Jürgen see Beyer, Horst, 91d:81087
- Odintsov, S. D. (with Shil'nov, Yu. I.) Schwinger-Dyson equations and effective potential for composite fields in quantum electrodynamics in curved spacetime. 91a:81151
- Önem, Coskun see Barut, Asim O.; et al., 91a:78016
- Osborn, T. A. see Sakseena, A.; et al., 91m:81061
- Papiez, Lech S. Remarks on functional integral representations of quantum evolutions for systems with electromagnetic fields. 91f:81084
- Parker, Leonard see Higuchi, Atsushi, 91c:81062
- Recami, Erasmo see Maia, Adolfo, Jr.; et al., 91i:58006
- Rodrigues, Waldyr A., Jr. see Maia, Adolfo, Jr.; et al., 91i:58006 and Fryberger, David, 91m:78005
- Romanova, T. S. see Le Van Hoang; et al., 91f:81025
- Romeo, A. see Elizalde, E., 91d:81076
- Rosa, Marcio A. F. see Maia, Adolfo, Jr.; et al., 91i:58006
- Sakseena, A. (with Osborn, T. A.; Molzahn, F. H.) An asymptotic analysis of quantum evolution with electromagnetic fields. 91m:81061
- Schatten, Kenneth H. Evanescent radiation, quantum mechanics and the Casimir effect. 91a:81022
- Shil'nov, Yu. I. see Odintsov, S. D., 91a:81151
- Sinha, Kalyan B. see Muthuramalingam, P., 91a:81216
- Spehler, D. Effective interactions involving massive and massless particles of spin $\frac{1}{2}$, 1, $\frac{3}{2}$, and 2. 91b:81049
- Takahashi, Yasushi see Kobayashi, Masanori, 91i:81098
- Tang, P. (with Wilets, L.) The linearized gauge field propagator in an inhomogeneous medium. 91f:81112
- Tolar, J. see Doebner, H.-D., (91m:81007)
- Ünal, Nuri see Barut, Asim O.; et al., 91a:78016
- Vaidya, Arvind Narayan (with Farina de Souza, Carlos) Can Galilean mechanics and full Maxwell equations coexist peacefully? 91m:78006
- Van Alstine, P. see Crater, H. W., 91k:81060
- Wilets, L. see Tang, P., 91f:81112

81V15 Weak interaction

- Chen, Peter The ρ parameter in an $Sp(2N) \times U(1)$ model. 91c:81174
- Hübsch, R. (with Papadopoulos, N. A.; Scheck, Florian) SU(2)₁ symmetry, algebraic superconnections and a generalized theory of electroweak interactions. (Not in MR)
- Klinkhamer, F. R. Sphalerons, deformed sphalerons and configuration space. 91c:81175
- Papadopoulos, N. A. see Hübsch, R.; et al., (Not in MR)
- Scheck, Florian see Hübsch, R.; et al., (Not in MR)
- Shadkowski, J. The superstring-inspired generalizations of the Glashow-Weinberg-Salam model. 91m:81318
- Items with secondary classifications in 81V15
- Bautista Ramos, Raymundo see Rosenbaum, M.; et al., 91c:81176
- Beshotoev, Kh. M. ★ On realization of the space of dynamic SU(3) group symmetry in V_4 . 91b:81186
- Böhm, Manfred see Köhlbeck, J.; et al., 91f:81111
- Denner, A. see Köhlbeck, J.; et al., 91f:81111
- D'Olive, J. C. see Rosenbaum, M.; et al., 91c:81176
- Faessler, Amand see Viollier, R. D.; et al., 91a:81069
- Fursaev, D. V. see Kadyshchevskii, V. G., 91a:81237
- Kadyshchevskii, V. G. (with Fursaev, D. V.) Chiral fermion fields at high energies. 91a:81237
- Kerner, Richard Geometry of the Kaluza-Klein theories. 91f:83068
- Klinkhamer, F. R. A new sphaleron in the Weinberg-Salam theory. 91m:81143
- Köhlbeck, J. (with Böhm, Manfred; Denner, A.) Feyn Arts—computer-algebraic generation of Feynman graphs and amplitudes. 91f:81111
- Mucio, J. see Rosenbaum, M.; et al., 91c:81176
- Nahmad-Achar, E. see Rosenbaum, M.; et al., 91c:81176
- Rosenbaum, M. (with D'Olive, J. C.; Nahmad-Achar, E.; Bautista Ramos, Raymundo; Mucio, J.) Kaluza-Klein model for the unification of the bosonic sector of the electroweak model with gravitation. 91c:81176
- Scholtz, F. G. see Viollier, R. D.; et al., 91a:81069
- Schöcker, Thomas The gravitational cross section of massless particles. 91a:83047
- Viollier, R. D. (with Faessler, Amand; Scholtz, F. G.) Chiral particles in $d = 3 + 1$ dimensions from Majorana-Weyl spinors in $d = 4 + 4$ dimensions. 91a:81069

81V17 Gravitational interaction

- Aneziris, C. (with Balachandran, A. P.; Bourdeau, Michelle Hilda; Jo, S.-G.; Sorkin, R. D.; Ramadas, T. R.) Aspects of spin and statistics in generally covariant theories. 91i:81108
- Balachandran, A. P. see Aneziris, C.; et al., 91i:81108
- Bautista Ramos, Raymundo see Rosenbaum, M.; et al., 91c:81176
- Bleyer, Ulrich (with Heinrich, O.; Nikolaenko, V. M.) Compactification and cosmic string phenomenology. 91g:81174
- Bourdeau, Michelle Hilda see Aneziris, C.; et al., 91i:81108
- Demaret, Jacques (with De Rop, Yves; Henneaux, Marc) Are Kaluza-Klein models of the universe chaotic? 91i:81109
- De Rop, Yves see Demaret, Jacques; et al., 91i:81109
- Deser, S. (with Yang, Zhu) Inconsistency of spin 4-spin 2 gauge field couplings. 91i:81110
- D'Olive, J. C. see Rosenbaum, M.; et al., 91c:81176
- Floreanini, Roberto (with Percacci, R.) Topological pregeometry. 91k:81214
- Heinrich, O. see Bleyer, Ulrich; et al., 91g:81174
- Henneaux, Marc see Demaret, Jacques; et al., 91i:81109
- Jo, S.-G. see Aneziris, C.; et al., 91i:81108
- Mucio, J. see Rosenbaum, M.; et al., 91c:81176
- Nahmad-Achar, E. see Rosenbaum, M.; et al., 91c:81176
- Nikolaenko, V. M. see Bleyer, Ulrich; et al., 91g:81174
- Percacci, R. see Floreanini, Roberto, 91k:81214
- Ramadas, T. R. see Aneziris, C.; et al., 91i:81108
- Rosenbaum, M. (with D'Olive, J. C.; Nahmad-Achar, E.; Bautista Ramos, Raymundo; Mucio, J.) Kaluza-Klein model for the unification of the bosonic sector of the electroweak model with gravitation. 91c:81176
- Sorkin, R. D. see Aneziris, C.; et al., 91i:81108
- Yang, Zhu see Deser, S., 91i:81110

Items with secondary classifications in 81V17

- Abbott, L. F. (with Farhi, Edward) Wormholes with a past. 91i:83022
- Abe, Mitsuo (with Nakanishi, Noboru) Supersymmetric extension of local Lorentz symmetry. 91m:81288
- Abud, Mario (with Ader, Jean Pierre; Gieres, François) Algebraic determination of covariant anomalies and Schwinger terms. 91i:81090
- Ader, Jean Pierre see Abud, Mario; et al., 91i:81090
- Ahmed, Mainuddin (with Ansary, Abdullah) Matter fields in the Plebański-Demiański space-time. 91b:83036
- Ahn, Chang-Jun (with Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk; Kim, Won Tae; Cho, Byung Ha) Two-dimensional quantum gravity in the conformal gauge. 91e:83051
- Almawaisir, Aziz Supergravity with $N = 2$ in two dimensions. 91e:83041
- Alvarez, Enrique Low energy effects of quantum gravity. 91k:83038
- de Alwis, S. P. see Carlip, Steven, 91j:83037
- Ansary, Abdullah see Ahmed, Mainuddin, 91b:83036
- Antoniadis, I. (with Bachas, C.; Ellis, Jonathan Richard; Nanopoulos, D. V.) An expanding universe in string theory. 91a:83091
- Aoyama, S. (with Julve, J.) Composition formula for 2D effective supergravity. 91h:81133
- Argyres, Philip C. (with Nappi, Chiara R.) Massive spin-2 bosonic string states in an electromagnetic background. 91f:81137
- Ashtekar, Abhay (with Romano, Joseph D.; Tate, Ranjeet S.) New variables for gravity: inclusion of matter. 91d:83091
- Bachas, C. see Antoniadis, I.; et al., 91a:83091
- Balbosonov, M. B. (with Gurovich, V. T.; Imanaliev, U. M.) The early Universe with quantum nonconformal fields. 91h:83052
- Balbinot, Roberto (with Fabris, Júlio C.; Kerner, Richard) A singularity-free cosmological solution of $N = 2$, $D = 5$ supergravity. 91a:83083
- Bandyopadhyay, Pratol Quantum gravity, supergravity and torsion. 91d:83057
- Banerjee, Rabin (with Chatterjee, D.) Chern-Simons term in curved space-time. 91c:81077
- Barvinskii, A. O. (with Vilkovskii, G. A.) Effective equations for expectation values. 91c:81078
- (with Kamenshchik, A. Yu.) 1-loop quantum cosmology: the normalisability of the Hartle-Hawking wavefunction and the probability of inflation. 91d:83058
- Batakis, Nikolaos A. (with Kehagias, Alexandros A.) Generic $SU(2)$ multidimensional sigma-model vacuum. 91a:83071
- Bautista Ramos, Raymundo see Nahmad-Achar, E.; et al., 91f:81243
- Berezin, V. A. (with Kuz'min, V. A.; Tkachev, I. I.) $O(3)$ -invariant processes at false vacuum decay in general relativity. 91m:83042
- On a quantum mechanical model of a black hole. 91k:83056
- Binétruy, Pierre (with Gaillard, Mary K.) A modular invariant formulation of gaugino condensation with a positive semi-definite potential. 91j:83069
- Blescove, M. P. The Hamiltonian constraint in quantum gravity. 91m:83043
- Brandt, Friedemann (with Dragon, Norbert; Kreuzer, Maximilian) The gravitational anomalies. 91m:81277
- Bukhbinder, L. L. (with Odintsov, S. D.; Fonarev, O. A.) Two-loop effective action in quantum gravity. 91i:83023
- Cadoni, M. Superstring-inspired supergravity models. 91e:83067
- Campbell, Bruce A. (with Duncan, M. J.; Kaloper, Nemanja; Olive, Keith A.) Axion hair for Kerr black holes. 91h:83060
- Capovilla, Riccardo (with Jacobson, Ted; Dell, John) General relativity without the metric. 91e:83072
- Carlip, Steven (with de Alwis, S. P.) Wormholes in $2 + 1$ dimensions. 91j:83037
- Observables, gauge invariance, and time in $(2 + 1)$ -dimensional quantum gravity. 91m:83044
- (with Kogan, Ya. I.) Quantum geometrodynamics of the open topological membrane and string moduli space. 91c:81096
- Chamseddine, A. H. (with Wyler, D.) Topological gravity in $1 + 1$ dimensions. 91k:81156
- Chatterjee, D. see Banerjee, Rabin, 91c:81077
- Chimento, Luis P. Exact solutions of the Einstein equations including quantum effects and cosmological constant. 91d:83069
- Cho, Byung Ha see Ahn, Chang-Jun; et al., 91e:83051
- Choquet-Bruhat, Yvonne High frequency waves for stringy gravity. 91d:83117
- Chung, Won-Sang (with Kang, Sin Kyu; Lee, Jungja; You, Chung-Ki; Kim, Jae Kwan) $N = 2$ superconformal gravity and $OSp(2/2)$ Kac-Moody algebra in $(1 + 1)$ dimensions. 91h:81137
- CIAR Cosmology Program see Urrut, W. G.; et al., 91m:81119
- Clément, Gérard Rotating string sources in three-dimensional gravity. 91f:83012
- Coquereaux, R. (with Esposito-Farese, G.) The theory of Kaluza-Klein-Jordan-Thiry revisited. (French summary) 91d:83099
- van Dam, H. see Ng, Y. Jack, 91f:83033
- Dell, John see Capovilla, Riccardo; et al., 91e:83072
- Démichev, A. P. (with Iofa, M. Z.) BRST-quantization of one-dimensional gravity. 91h:81158
- Deser, S. (with Yang, Zhu) Is topologically massive gravity renormalizable? 91h:83042
- (with McCarthy, James G.) Spin and statistics of gravitational anyons. 91i:81071
- (with McCarthy, James G.) Self-dual formulations of $D = 3$ gravity theories. 91k:83061a
- (with McCarthy, James G.) Addendum: "Self-dual formulations of $D = 3$ gravity theories". 91k:83061b
- Gravitational anyons. 91h:83071
- Douglas, Michael R. (with Seiberg, Nathan; Shenker, Stephen H.) Flow and instability in quantum gravity. 91k:81160
- Dowker, H. F. Electromagnetic wormhole vertex. 91e:83053
- Dragon, Norbert see Brandt, Friedemann; et al., 91m:81277
- Duff, M. J. (with Ferrara, Sergio; Pope, C. N.; Stelle, K. S.) Massive Kaluza-Klein modes and effective theories of superstring moduli. 91d:83123
- Duncan, M. J. see Campbell, Bruce A.; et al., 91h:83060
- Ellis, Jonathan Richard see Antoniadis, I.; et al., 91a:83091
- Ershov, A. A. see Gal'tsov, D. V., 91b:81086
- Esposito-Farese, G. see Coquereaux, R., 91d:83099
- Essén, Hanno General relativity as a conformally invariant scalar gauge field theory. 91b:83076
- Fabris, Júlio C. see Balbinot, Roberto; et al., 91a:83083
- Farhi, Edward see Abbott, L. F., 91i:83022
- Ferrara, Sergio see Duff, M. J.; et al., 91d:83123
- Fonarev, O. A. see Bukhbinder, L. L.; et al., 91i:83023
- Ford, L. H. (with Roman, Thomas A.) Moving mirrors, black holes, and cosmic censorship. 91d:83093
- Foussats, A. (with Zandron, O.) Matter supermultiplet coupled to supergravity in the second order canonical formalism. 91j:83075
- Freder, V. P. (with Thorne, Kip S.) Equivalence principle in the quantum domain and quantum effects near a black hole. 91f:83039
- see also Novikov, I. D., 91d:83084
- Gaillard, Mary K. see Binétruy, Pierre, 91j:83069
- Gal'tsov, D. V. (with Ershov, A. A.) Nonabelian baldness of colored black holes. 91b:81086
- see also Volkov, M. S., 91d:83088
- García-Bellido, J. (with Quiros, M.) On the closed bosonic string effective action. 91f:81147
- Gell-Mann, Murray (with Hartle, James B.) Quantum mechanics in the light of quantum cosmology. (see 91m:81004)
- Gibbons, Gary W. (with Ortiz, Miguel E.; Ruiz Ruiz, Fernando) Existence of global strings coupled to gravity. 91c:83039
- (with Ortiz, Miguel E.; Ruiz Ruiz, Fernando) Stringy cosmic strings with horizons. 91c:83078
- (with Hartle, James B.) Real tunneling geometries and the large-scale topology of the universe. 91j:83038
- Gieres, François see Abud, Mario; et al., 91i:81090
- González, Gabriela (with Pullin, Jorge A.) BRST analysis of $2 + 1$ gravity. (Not in MR)
- González, J. (with Vozmediano, María A. H.; Hueros, A. L.) Constraints on background fields from modular invariance. 91f:81148
- González-Díaz, P. F. What is really being lost in wormholes? 91i:83024
- Graham, Robert (with Szépfalusi, Péter) Quantum creation of a generic universe. 91h:83053
- Greensite, J. Ehrenfest's principle in quantum gravity. 91m:83046
- Grishchuk, L. P. (with Sidorov, Yuri Vladimirovich) Squeezed quantum states of relic gravitons and primordial density fluctuations. 91j:83043
- Guelandman, E. I. Duality, strings and inflation. 91m:83096
- Gurovich, V. T. see Balbosonov, M. B.; et al., 91h:83052
- Habib, Salman (with Laflamme, Raymond) Wigner function and decoherence in quantum cosmology. 91i:83025
- Hartle, James B. see Gibbons, Gary W., 91j:83038 and Gell-Mann, Murray, (91m:81004)
- Helliwell, T. M. (with Konkowski, D. A.) The linearized spacetime of superconducting cosmic strings. 91f:83077
- 't Hooft, G. The black hole interpretation of string theory. 91e:83089
- Horowitz, Gary T. Exactly soluble diffeomorphism invariant theories. 91b:83090
- Hueros, A. L. see González, J.; et al., 91f:81148
- Ilieva, N. (with Litov, L.; Pervushin, V. N.) ★ Minimal quantization of linearized gravity. 91j:83039
- Imanaliev, U. M. see Balbosonov, M. B.; et al., 91h:83052
- Iofa, M. Z. see Démichev, A. P., 91h:81158
- Iyer, Balasubramanian Ramakrishna Quantum field theory in black hole spacetimes. 91c:81084
- Jacobson, Ted see Capovilla, Riccardo; et al., 91e:83072
- Joshi, D. C. (with Prasad, Rakesh) Dipole solutions in the $SU(2)$ and $SU(3)$ gauge theory with electric and magnetic sources. 91g:81079
- Julve, J. see Aoyama, S., 91h:81133
- Kalinowski, Marek Wojciech ★ Nonsymmetric fields theory and its applications. 91m:83082
- Kaloper, Nemanja see Campbell, Bruce A.; et al., 91h:83060
- Kalyana Rama, S. see Ovrut, Burt A., 91h:83075
- Kamenshchik, A. Yu. see Barvinskii, A. O., 91c:81078
- Kamlinova, Yashilto A dynamical model of an evaporating charged black hole and quantum instability of Cauchy horizons. 91e:83068
- Kandrup, Henry E. (with Mazur, Pawel O.) A topological Hawking effect. 91h:83056
- Kang, Sin Kyu see Chung, Won-Sang; et al., 91h:81137
- Kanno, Hiroaki Nonlinear realization of supersymmetry based on the frame matrix representation of the Grassmann manifold—geometrical meaning of the ζ -field in a supersymmetric extension of local Lorentz symmetry. 91m:81287
- Kay, Bernard S. (with Wald, Robert M.) Some recent developments related to the Hawking effect. 91c:81086
- Kehagias, Alexandros A. see Batakis, Nikolaos A., 91a:83071
- Kerner, Richard see Balbinot, Roberto; et al., 91a:83083
- Ketov, S. V. On the topological value of anomalies in Kaluza-Klein field theories. 91a:83081
- Cancelling gravitational anomalies in $d = 6$ supergravities. 91a:83085
- Kim, Jae Kwan see Chung, Won-Sang; et al., 91h:81137
- Kim, Kee Yong see Ahn, Chang-Jun; et al., 91e:83051
- Kim, Won Tae see Ahn, Chang-Jun; et al., 91e:83051
- Kim, Yong Duk see Ahn, Chang-Jun; et al., 91e:83051
- Kiritis, Elias B. On null states in sub-critical strings. 91j:81065
- (Klin, V. I.) see Novikov, I. D., 91d:83084
- Klander, John R. see Navarro-Salas, José, 91k:83043
- Kodama, Hideo Holomorphic wave function of the Universe. 91i:83027
- Kogan, Ya. I. see Carlip, Steven, 91j:83037
- Konkowski, D. A. see Helliwell, T. M., 91f:83077
- Kramers, Lawrence M. Nonclassical hair on black holes. 91a:83040
- Kreuzer, Maximilian see Brandt, Friedemann; et al., 91m:81277
- Kuz'min, V. A. see Berezin, V. A.; et al., 91h:83056
- Laflamme, Raymond see Habib, Salman, 91i:83025
- Lechner, Kurt Four-graviton scattering in $D = 4$ superstrings with broken space-time supersymmetry. 91h:81123

- Lee, Bum-Hoon (with Nishino, Hitoshi) Wormhole effects on masses of vector and gravitino fields. 91a:83041
- Lee, Chang-Young (with Ne'eman, Yuval) Renormalization of gauge-affine gravity. 91d:83065
- Lee, Jungjai see Chung, Won-Sang; et al., 91h:81137
- Lhallabi, T. (with Saidi, E. H.) Two-dimensional (4, 0) supergravity in harmonic superspace. The action and the matter couplings. 91d:83052
- Li, Xin Zhou see Liu, Qi; et al., 91h:83089
- Linde, A. D. ★ Физика элементарных частиц и инфляционная космология. (Russian) [Elementary particle physics and inflationary cosmology] 91j:83078
- Linet, Bernard Abelian Higgs model with a Chern-Simons term in 3-dimensional gravitation. 91g:81084
- Stationary, cylindrically symmetric sources in the linearized limit of topologically massive gravity. 91j:83045
- Litov, L. see Ilieva, N.; et al., 91j:83039
- Liu, Qi (with Xu, Jian Jun; Li, Xin Zhou) An eight-dimensional Kaluza-Klein cosmological model. (Chinese. English summary) 91h:83089
- Liu, Zheng Ren (with Shao, Chang Gui) Gravity and gauge theories of gravitation. (Chinese. English summary) (Not in MR)
- Lohiya, Daksh On general "spin" connections, gravitation and electrodynamics. 91a:53110
- Matsuo, Naoki Einstein gravity as spontaneously broken Weyl gravity. 91d:83066
- Matsuo, Yutaka Remarks on fractal W -gravity. 91c:81143
- Mazur, Pawel O. (with Mottola, Emil) The path integral measure, conformal factor problem and stability of the ground state of quantum gravity. 91h:83028
- see also Kandrup, Henry E., 91h:83056
- McCarthy, James G. see Deser, S., 91h:81071; 91k:83061a and 91k:83061b
- Mellor, Felicity (with Moss, Ian) Black holes and gravitational instantons. 91e:83059
- (with Moss, Ian) Black holes and quantum wormholes. 91e:83058
- Merkulov, S. A. Geometry of $N = 1$ supergravity in $(m|m+n)$ -dimensional superspace. 91m:83068
- Mészáros, A. Cartan's contortion as a system of spin-2 and spin-0 fields. 91d:83105
- Mohanty, Ganeshwar (with Panigrahi, U. K.) Axially symmetric Einstein-Maxwell and scalar fields with self gravitating stiff fluid. 91e:83040
- Moss, Ian see Mellor, Felicity, 91e:83058 and 91e:83059
- Mottola, Emil see Mazur, Pawel O., 91h:83028
- Muciño, J. see Nahmad-Achar, E.; et al., 91f:81243
- Müller-Hoissen, Folkert Nonminimal coupling from higher dimensions and four-dimensional black holes. 91a:83021
- Nahmad-Achar, E. (with Rosenbaum, M.; Bautista Ramos, Raymundo; Muciño, J.) Spontaneous compactification and coupling constants in a geometric model for $SU(2) \times U(1)$ with gravity. 91f:81243
- Nakanishi, Noboru see Abe, Mitsun, 91m:81288
- Nanopoulos, D. V. see Antoniadis, I.; et al., 91a:83091
- Nappi, Chiara R. see Argyres, Philip C., 91f:81137
- Navarro-Salas, José (with Klauder, John R.) The affine group model for gravity, revisited. 91e:83043
- Ne'eman, Yuval see Lee, Chang-Young, 91d:83065
- Ng, Y. Jack (with van Dam, H.) Possible solution to the cosmological-constant problem. 91f:83033
- van Nieuwenhuizen, Peter see Schoutens, Kareljan; et al., 91k:81066 and (91m:17024)
- Nishino, Hitoshi see Lee, Bum-Hoon, 91a:83041
- Norikov, I. D. (with Frolov, V. P.) ★ Physics of black holes. 91d:83084
- Odintsov, S. D. Vilkoviskii effective action in quantum gravity with matter. 91h:83057
- see also Bukhbinder, I. L.; et al., 91c:83023
- Olive, Keith A. see Campbell, Bruce A.; et al., 91h:83060
- Ooguri, Hiroshi (with Vafa, Cumrun) Self-duality and $N = 2$ string magic. 91g:81126
- Ortiz, Miguel E. Homogeneous spacetimes with isotropy in $2 + 1$ dimensions as solutions to topologically massive gravity. 91g:83028
- see also Gibbons, Gary W.; et al., 91c:83039 and 91k:83078
- Ovrut, Burt A. (with Kalyana Rama, S.) Lorentz and $U(1)$ Chern-Simons terms in new minimal supergravity. 91k:83075
- Panigrahi, U. K. see Mohanty, Ganeshwar, 91e:83040
- Park, Young-Jai see Ahn, Chang-Jun; et al., 91e:83051
- Parisi, M. see García-Bellido, J., 91f:81147
- Peldán, Peter Gravity coupled to matter without the metric. 91j:83001
- Pervushin, V. N. see Ilieva, N.; et al., 91j:83039
- Pope, C. N. see Duff, M. J.; et al., 91d:83123
- Pogova, A. D. Nonlinear quantum mechanics with nonclassical gravitational self-interaction. 91a:81153
- Quantum mechanics with higher time derivatives: some mathematical facts and the inclusion of gravitational self-interaction. 91m:81172
- Prasad, Rakesh see Joshi, D. C., 91g:81079
- Pullin, Jorge A. see González, Gabriela, (Not in MR)
- Quirós, M. see García-Bellido, J., 91f:81147
- Rey, Soo-Jong Space-time wormholes with Yang-Mills fields. 91f:81130
- Roman, Thomas A. see Ford, L. H., 91d:83093
- Romano, Joseph D. see Ashtekar, Abhay; et al., 91d:83091
- Rosenbaum, M. see Nahmad-Achar, E.; et al., 91f:81243
- Rovelli, Carlo (with Smolin, Lee) Loop space representation of quantum general relativity. 91h:83031
- Time in quantum gravity: an hypothesis. 91j:83042
- Rüger, Alexander Complementarity meets general relativity: a study in ontological commitments and theory unification. 91e:81109
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., 91c:83039 and 91k:83078
- Russo, Jorge G. 2D induced quantum gravity and topological phase of the Thirring model. 91k:81088
- Saidi, E. H. (with Zakkari, M.) $N = 4$ $SU(2)$ conformal invariance in harmonic superspace: the super-Schwarzian derivative. 91g:81148
- see also Lhallabi, T., 91f:83052
- Sardanashvili, G. A. see Zakharov, O. A., 91c:83028
- Schoutens, Kareljan (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Covariant w_∞ gravity and its reduction to W_3 gravity. 91k:81066
- (with Sevrin, Alexander; van Nieuwenhuizen, Peter) Towards a theory of W_3 gravity. (see 91m:17024)
- Seiberg, Nathan see Douglas, Michael R.; et al., 91k:81160
- Sevrin, Alexander see Schoutens, Kareljan; et al., 91k:81066 and (91m:17024)
- Shao, Chang Gui see Liu, Zheng Ren, (Not in MR)
- Shenker, Stephen H. see Douglas, Michael R.; et al., 91k:81160
- Sidorov, Yuri Vladimirovich see Grishchuk, L. P., 91j:83043
- Smolin, Lee see Rovelli, Carlo, 91h:83031
- Stelle, K. S. see Duff, M. J.; et al., 91d:83123
- Székely, Péter see Graham, Robert, 91h:83053
- Tartaglia, A. Gravity without Lorentz symmetry? 91e:83050
- Tate, Ranjeet S. see Ashtekar, Abhay; et al., 91d:83091
- Thorne, Kip S. see Frolov, V. P., 91f:83039
- Thacker, I. L. see Berezin, V. A.; et al., 91m:83042
- Tomozawa, Yukio Exact solution of the quantum Einstein equation and the nature of singularity. 91h:83060
- Tuyn, Michael The graviton propagator in maximally symmetric spaces. 91k:81113
- Unruh, W. G. (with Weiss, Nathan) Relationship between the usual formulation of a massless scalar field theory and its formulation in terms of a two-form potential. 91h:81083
- (with CIAR Cosmology Program; Weiss, Nathan) Momentum boundary conditions and Euclidean field theory. 91m:81119
- Vafa, Cumrun see Ooguri, Hiroshi, 91g:81126
- Vasiliev, M. A. Dynamics of massless higher spins in the second order in curvatures. 91f:81131
- Veneziano, G. Strings and gravitation. 91c:81118
- Vilkoviskii, G. A. see Barvinskii, A. O., 91c:81078
- Volkov, M. S. (with Gal'tsov, D. V.) Black holes in Einstein-Yang-Mills theory. 91d:83088
- Vozmediano, María A. H. see González, J.; et al., 91f:81148
- Waelbroeck, Henri $2 + 1$ lattice gravity. 91e:83042
- Wald, Robert M. see Kay, Bernard S., 91c:81086
- Weiss, Nathan see Unruh, W. G., 91h:81083 and 91m:81119
- Wen, Jia Ru (with Zheng, Han Qing) Wormholes made with $SU_L(n) \times SU_R(n)$ or $O(n)$ nonlinear σ models. 91k:81107
- Whiting, Bernard F. Black holes and gravitational thermodynamics. 91f:83042
- Wyller, D. see Chamseddine, A. H., 91k:81156
- Xu, Jian Jun see Liu, Qi; et al., 91h:83089
- Yamada, Atsushi Transition amplitudes in $2 + 1$ -dimensional quantum gravity. 91h:83032
- Yang, Zhu see Deser, S., 91h:83042
- (Yankovskii, E. M.) see Norikov, I. D., 91d:83084
- Yen, Chung-Ki see Chung, Won-Sang; et al., 91h:81137
- Yu, Hong Wei Gravitational force of a family of $SU(5)$ dyons. 91k:83020
- Zakharov, O. A. (with Sardanashvili, G. A.) The Higgs property of a gravitational field. 91c:83028
- Zakkari, M. see Saidi, E. H., 91g:81148
- Zandron, O. see Foussats, A., 91j:83075
- Zheng, Han Qing see Wen, Jia Ru, 91k:81107

81V19 Other fundamental interactions

Items with secondary classifications in 81V19

- Cho, Y. M. (with Park, D. H.) Higher-dimensional unification and fifth force. (Not in MR)
- Park, D. H. see Cho, Y. M., (Not in MR)
- Toller, M. Maximal acceleration, maximal angular velocity, and causal influence. 91g:83036

81V22 Unified theories

- del Aguila, F. (with Coughlan, G. D.; da Mota, L. A. C. P.) The role of gauge singlets in three-generation models. 91h:81193
- Bautista Ramos, Raymundo see Nahmad-Achar, E.; et al., 91f:81243
- Beshotoev, Kh. M. ★ On realization of the space of dynamic $SU(3)$ group symmetry in V_4 . 91h:81186
- Casas, J. A. (with de la Macorra, A.; Mondragón, M.; Muñoz, C.) Z_7 phenomenology. 91f:81241
- Coughlan, G. D. see del Aguila, F.; et al., 91h:81193
- Djemai, A. E. F. (with Tahiri, M.) Cohomology and elementary particle generations. 91g:81175
- Ellis, Jonathan Richard (with Lopez, Jorge L.; Nanopoulos, D. V.) Constraints on grand unified superstring theories. 91f:81242
- González-Martín, Gustavo Physical geometry: a unified theory of gravitation, electromagnetism and other interactions. 91m:81319
- Grech, Darluz K. Construction of grand unified theories. 91k:81215
- Jarvis, P. D. Unified models from gauged supergroups. I. Dimensional reduction formalism. Unitary and orthosymplectic series. 91m:81320
- Kapetanakis, D. (with Zoupanos, G.) A unified theory in higher dimensions. (Not in MR)
- (with Zoupanos, G.) Fermion masses from dimensional reduction. (Not in MR)
- Kuusk, P. Geometry of the covariant Brink-Schwarz superparticle in a curved superspace. 91d:81159
- Lopez, Jorge L. see Ellis, Jonathan Richard; et al., 91f:81242
- de la Macorra, A. see Casas, J. A.; et al., 91f:81241
- Mondragón, M. see Casas, J. A.; et al., 91f:81241
- da Mota, L. A. C. P. see del Aguila, F.; et al., 91h:81193
- Muciño, J. see Nahmad-Achar, E.; et al., 91f:81243
- Muñoz, C. see Casas, J. A.; et al., 91f:81241
- Nahmad-Achar, E. (with Rosenbaum, M.; Bautista Ramos, Raymundo; Muciño, J.) Spontaneous compactification and coupling constants in a geometric model for $SU(2) \times$

- U(1) with gravity. 91f81243
- Nanopoulos, D. V. *see* Ellis, Jonathan Richard; et al., 91f81242
- Papali, G. Quantum mechanics and the geometry of spacetime. 91h81194
- Rosenbaum, M. *see* Nahmed-Achar, E.; et al., 91f81243
- Tahiri, M. *see* Djemal, A. E. F., 91g81175
- Zoupanos, G. *see* Kapetanakis, D., (Not in MR) and (Not in MR)
- Items with secondary classifications in 81V22
- Actor, Alfred Topological symmetry breaking in ϕ^4 theories on toroidal spacetime. 91f81120
- Arnowitz, R. *see* Nath, Pran, (Not in MR)
- Asanov, G. S. Jet extension of Finslerian gauge approach. 91k83063
- Barroso, Augusto *see* Moniz, P.; et al., 91c81088
- Barua, Madhumita *see* Krüri, K. D.; et al., 91f83036
- Baulieu, Laurent BRS construction of supergravity and field theory applications. 91a83084
- Borghain, P. *see* Krüri, K. D.; et al., 91f83036
- Bytsenko, A. A. (with Kitorov, S. A.) Temperature induced Casimir effect in Kaluza-Klein supersymmetric theories compactified on torus. 91f81122
- Cho, Y. M. (with Park, D. H.) Higher-dimensional unification and fifth force. (Not in MR)
- Coquerreux, R. (with Esposito-Farese, G.) 1-loop divergences in quantum gravity: the Einstein-Maxwell-Kaluza-Klein system. 91d83060
- Crawford, P. *see* Moniz, P.; et al., 91c81088
- Das, Kanika *see* Krüri, K. D.; et al., 91f83036
- Esposito-Farese, G. *see* Coquerreux, R., 91d83060
- Fukuyama, Takeshi (with Kamimura, Kiyoshi) Complex action and quantum gravity. 91h81060
- Gauthier, Claude (with Gravel, Pierre) Complément sur les constantes de couplage et les masses dans les théories de Kaluza-Klein avec un espace supérieur multiconnexe. (English, Italian and Russian summaries) [Complement on coupling constants and masses in Kaluza-Klein theories with a multiply connected higher space] 91c83035
- Gravel, Pierre *see* Gauthier, Claude, 91c83035
- Kaku, Michio Fun with strings. 91e81078
- Kamimura, Kiyoshi *see* Fukuyama, Takeshi, 91h81060
- Keller, Jaime Spinors and multivectors as a unified tool for spacetime geometry and for elementary particle physics. 91m83058
- Klimenko, K. G. Gaussian effective potential method and Higgs sector of some models of grand unification. 91k81108
- Krüri, K. D. (with Borghain, P.; Barua, Madhumita; Das, Kanika) Quantum-interference effects in some fields. (French summary) 91f83036
- Kitorov, S. A. *see* Bytsenko, A. A., 91f81122
- Linde, A. D. ★ Физика элементарных частиц и инфляционная космология. (Russian) [Elementary particle physics and inflationary cosmology] 91j83078
- Lin, Zheng Ren (with Shao, Chang Gui) Gravity and gauge theories of gravitation. (Chinese. English summary) (Not in MR)
- Moniz, P. (with Crawford, P.; Barroso, Augusto) Spontaneous symmetry breaking in curved spacetime. 91c81088
- Nakanishi, Noboru Local supersymmetry of gravity different from supergravity. 91d83126
- Nath, Pran (with Arnowitz, R.) Predictions from three-generation Calabi-Yau string theory. (Not in MR)
- Park, D. H. *see* Cho, Y. M., (Not in MR)
- Ross, Graham G. Low energy models from the superstring. 91c81114
- Shao, Chang Gui *see* Lin, Zheng Ren, (Not in MR)
- Takagi, Shin On the detachment of an isolated closed universe by Hawking evaporation. 91d83073
- Tauber, G. E. A geometrical foundation of a unified field theory: an alternative to Kaluza Klein. 91f83121
- Vladimirov, Yu. S. Theory of physical structures and multidimensional unified field theories. 91h83048
- Yu, Shen A nonlocalistic unified field theory of gravitation, electromagnetism and spin. 91h83080

81V25 Other elementary particle theory

- Auberson, G. (with Mennessier, G.; Martin, André) Do the moduli of the Kobayashi-Maskawa matrix determine the phases? 91m81321
- Balachandran, A. P. West-Zumino terms and quantum symmetries. 91f81244
- Bern, Zvi (with Kosower, David A.) Efficient computation of gauge theory loops using string theory. 91d81160
- Chen, Sheng Hua *see* Yu, Yang Zheng; et al., 91d81162
- Chen, Xiong Xiong *see* Yu, Yang Zheng; et al., 91d81162
- Delbourgo, R. (with White, Martin James) Internal Grassmann coordinates and actions. 91a81233
- Dixon, Geoffrey Adjoint division algebras and SU(3). 91f81245a
- Derivation of the standard model. (Italian and Russian summaries) 91f81245b
- Goldstein, Ervin A bifurcation model of the quantum field. 91j81103
- van Holten, J. W. *see* Rietdijk, R. H., 91h81188
- Kereselidze, A. R. *see* Volkov, G. G.; et al., 91d81161
- Kim, Y. S. (with Wigner, Eugene P.) Space-time geometry of relativistic particles. 91h81111
- Kobylinski, N. A. (with Stepanov, S. S.; Tutik, R. S.) Semiclassical approach to ground states within the Klein-Gordon equation. 91h81187
- Kosower, David A. *see* Bern, Zvi, 91d81160
- (Lahee, A.) *see* Nachtmann, Otto, 91f81104
- Liparteliani, A. G. *see* Volkov, G. G.; et al., 91d81161
- Liu, Keh-Fei *see* Wu, Guo Wei; et al., 91j81105
- Loewe, M. $osp(1,4)$ as a relativistic spectrum-generating superalgebra: the simplest representation. 91g81176
- Martin, André *see* Auberson, G.; et al., 91m81321
- Mennessier, G. *see* Auberson, G.; et al., 91m81321
- Mojumder, M. A. Quartic coupling on the Calabi-Yau manifold and the number of light lepton generations. 91k81216a
- Errata: "Quartic coupling on the Calabi-Yau manifold and the number of light lepton generations". 91k81216b
- Nachtmann, Otto ★ Elementary particle physics. 91j81104
- Pfister, W. (with Rosa, Marcio A. F.; Stumpf, Harald) Vector boson states as solutions of generalized Bargmann-Wigner equations. (Italian and Russian summaries) 91a81234
- Rietdijk, R. H. (with van Holten, J. W.) Generalised Killing equations and the symmetries of spinning space. 91b81188
- Rosa, Marcio A. F. *see* Pfister, W.; et al., 91a81234
- Ross, Graham G. Low-energy models from the superstring. 91c81121
- Stepanov, S. S. *see* Kobylinski, N. A.; et al., 91h81187
- Stumpf, Harald *see* Pfister, W.; et al., 91a81234
- Tutik, R. S. *see* Kobylinski, N. A.; et al., 91h81187
- Volkov, G. G. (with Kereselidze, A. R.; Liparteliani, A. G.) Left-right-symmetric, superstring-inspired models. 91d81161
- (Wetzel, W.) *see* Nachtmann, Otto, 91j81104
- White, Martin James *see* Delbourgo, R., 91a81233
- Wigner, Eugene P. *see* Kim, Y. S., 91h81111
- Wu, Guo Wei (with Yan, Mu Lin; Liu, Keh-Fei) Flavor symmetry and mass-splitting formulas for the sub-SU(3) skyrmion in SU(N). 91j81105
- Yan, Mu Lin *see* Wu, Guo Wei; et al., 91j81105
- Yu, Yang Zheng (with Chen, Sheng Hua; Chen, Xiong Xiong) Breaking mechanisms in three-dimensional $O(N)$ supersymmetric theory. (Chinese. English summary) 91d81162
- Items with secondary classifications in 81V25
- Antolín, J. Maximum entropy formalism and analytic extrapolation. 91a81056
- Banerjee, Rabin (with Rothe, H. J.; Rothe, K. D.) BJL definition of double commutators and the Jacobi identity. (Not in MR)
- Belvedere, L. V. (with Marino, E. C.) Exact solution of the $O(2)$ symmetric Thirring model with dynamical generation of a superconducting gap. 91a81099
- Bertrand, Christine (with Kerner, Richard) Geometrical construction of a generalized Skyrme Lagrangian. 91a81145
- Besleris, Ioannis M. *see* Shaarawi, Amr M.; et al., 91h81016
- Blood, F. A., Jr. Interaction-mediating vector bosons as collective oscillations of the vacuum. (Italian and Russian summaries) 91a81208
- (Brandenberger, Robert) *see* Linde, A. D., 91g83060
- Bressloff, P. C. (with Taylor, John G.; Nouri-Moghadem, M.) On the BFV quantisation of the particle. 91c81159
- Brhaye, Yves (with Kunz, Jutta) Normal modes around the SU(2) sphalerons. 91m81134
- Cho, Peter The p parameter in an $Sp(2N) \times U(1)$ model. 91c81174
- Cordes, Stefan F. (with Kikuchi, Yukio) Nonrenormalizable terms from a selection rule in the three-generation model. 91h81138a
- (with Kikuchi, Yukio) Erratum: "Nonrenormalizable terms from a selection rule in the three-generation model". 91h81138b
- Costantini, D. (with Garibaldi, U.) A unified theory for elementary-particle statistics. 91d81006
- Crater, H. W. (with Van Alstine, P.) Extension of two-body Dirac equations to general covariant interactions through a hyperbolic transformation. 91k81060
- Dixon, Lance J. (with Kaplunovsky, Vadim S.; Louis, Jan) On effective field theories describing $(2,2)$ vacua of the heterotic string. 91g81114
- Fröhlich, Jörg (with Marchetti, P. A.) Quantum skyrmions. 91k81084
- Fujii, Kazuyuki A classical solution of scalar-spinor interaction models with higher derivatives on even-dimensional spaces. 91h81089
- Fujimoto, Yasushi *see* Soga, Kiyoshi, 91a81126
- Fujitsu, Akira (with Kitazoe, Tetsuro; Tabuse, Masayoshi; Nishimura, Haruhiko) Classification of symmetry breaking patterns in heterotic strings on Z_3 orbifold. 91g81117
- Garibaldi, U. *see* Costantini, D., 91d81006
- Gavrilik, A. M. (with Klimyk, A. U.) Indecomposable and irreducible representations of the group $U(n,1)$ and dynamical symmetry. 91k81048
- Han, Daesoo (with Kim, Y. S.; Noz, Marilyn E.) Linear canonical transformations of coherent and squeezed states in the Wigner phase space. III. Two-mode states. 91k81063
- Hwa, Rudolph C. Intermittency in the ϕ^3 branching model. 91f81236
- Kaplunovsky, Vadim S. *see* Dixon, Lance J.; et al., 91g81114
- Karabali, Dimitra (with Park, Q-Han; Schnitzer, Howard J.) Thirring interactions, nonabelian Bose-Fermi equivalences and conformal invariance. 91d81130
- Kerner, Richard *see* Bertrand, Christine, 91a81145
- Khoromskii, B. N. *see* Zhidkov, E. P.; et al., 91h45001
- Kikuchi, Yukio *see* Cordes, Stefan F., 91h81138a and 91h81138b
- Kim, Y. S. *see* Han, Daesoo; et al., 91k81063
- Kitazoe, Tetsuro *see* Fujitsu, Akira; et al., 91g81117
- Klimyk, A. U. *see* Gavrilik, A. M., 91k81048
- Korchemskii, G. P. Quantum geometry of Dirac fermions. 91b81070
- Kotcheff, A. C. W. (with Shore, G. M.) Kähler sigma models from supersymmetric gauge theories. 91h81147
- (with Shore, G. M.) Phenomenological Kähler sigma models. II. Four-Fermi interactions in a realistic composite model. 91g81157
- Królkowski, Wojciech Dirac equation with hidden extra spins: a generalization of Kähler equation. 91e81039
- Dirac equation with hidden extra spins: a generalization of Kähler equation. II. 91h81027
- Kunz, Jutta *see* Brhaye, Yves, 91m81134
- Laanait, Lahoussine (with Messenger, Alain; Ruiz, Jean Francois Alexandre) Discontinuity of the Wilson string tension in the 4-dimensional lattice pure gauge Potts models. 91h81105
- Leznov, A. N. (with Savel'ev, M. V.) Supersymmetric nonlinear wave equations and classical Lie superalgebras. 91b8278
- Linde, A. D. ★ Inflation and quantum cosmology. 91g83060
- Louis, Jan *see* Dixon, Lance J.; et al., 91g81114
- Marchetti, P. A. *see* Fröhlich, Jörg, 91k81084
- Marino, E. C. *see* Belvedere, L. V., 91a81099

- Messenger, Alain. *see* Laanait, Lahoussine; et al., 91g:81105
 Michelson, Daniel. Elementary particles as solutions of the Sivashinsky equation. 91h:81015
 Mikaelian, Karnig O. Rayleigh-Taylor and Richtmyer-Meshkov instabilities and mixing in stratified spherical shells. 91g:76046
 Mohapatra, Rabindra N. Infinite statistics and a possible small violation of the Pauli principle. 91f:81069
 Nakamura, Akira. General cylindrical soliton solutions of the Toda molecule. 91h:35277
 Ne'eman, Yuval (with Sternberg, Shlomo). Superconnections and internal supersymmetry dynamics. 91j:81092
 Nikonor, E. G. *see* Zhdakov, E. P.; et al., 91a:45001
 Nishimura, Haruhiko. *see* Fujitsu, Akira; et al., 91g:81117
 Nouri-Moghadam, M. *see* Bressloff, P. C.; et al., 91c:81159
 Noz, Marilyn E. *see* Han, Daesoo; et al., 91h:81063
 Park, Q-Han. *see* Karabali, Dimitra; et al., 91d:81130
 Rothe, H. J. *see* Banerjee, Rabind; et al., (Not in MR)
 Rothe, K. D. *see* Banerjee, Rabind; et al., (Not in MR)
 Ruiz, Jean Francois Alexandre. *see* Laanait, Lahoussine; et al., 91g:81105
 (Salam, Abdus). *see* Supergravities in diverse dimensions, 91i:83053
 Sartori, G. Universality in orbit spaces of symmetry groups and in spontaneous symmetry breaking. 91h:81050
 Savelyev, M. V. *see* Lenzov, A. N., 91h:58278
 Schultze, Howard J. *see* Karabali, Dimitra; et al., 91d:81130
 Schücker, Thomas. The gravitational cross section of massless particles. 91a:83047
 (Sezgin, Ergin). *see* Supergravities in diverse dimensions, 91i:83053
 Shaarawi, Amr M. (with Besicic, Ioannis M.; Ziolkowski, Richard W.) A novel approach to the synthesis of nondispersive wave packet solutions to the Klein-Gordon and Dirac equations. 91h:81016
 Shore, G. M. *see* Kitcher, A. C. W., 91h:81147 and 91g:81157
 Soga, Kiyoshi (with Fujimoto, Yasushi). Sphaleron in a nonlinear sigma model. 91a:81126
 Sternberg, Shlomo. *see* Ne'eman, Yuval, 91j:81092
 Tabuse, Masayoshi. *see* Fujitsu, Akira; et al., 91g:81117
 Talabov, S. V. The spinning string in four-dimensional space-time as a model of the SL(2, C) chiral field with anomaly. II. 91j:81072
 Taylor, John G. *see* Bressloff, P. C.; et al., 91c:81159
 Teun, A. A class of nonsupersymmetric orbifolds. 91j:81073
 Vafa, Cumrun. String vacua and orbifolded LG models. 91g:81128
 Van Alstine, P. *see* Crater, H. W., 91h:81060
 Zhdakov, E. P. (with Nikonor, E. G.; Khoroskii, B. N.) Solution of the eigenvalue problem for a class of hypersingular quasipotential integral equations. (Russian) 91a:45001
 Ziolkowski, Richard W. *see* Shaarawi, Amr M.; et al., 91h:81016
 Zoglin, Paul. Radiative gauge symmetry breaking in an $N = 2$ superconformal string compactification. 91f:81167
 Zapnik, B. M. Nilpotent algebras of the generalized differential forms and the geometry of superfield theories. 91m:83090
- Items listed otherwise than by author
 Supergravities in diverse dimensions ★ Supergravities in diverse dimensions. Vol. 1, 2. 91i:83053
- ### 81V35 Nuclear physics
- Argyres, E. N. *see* Bonatsos, Dennis; et al., 91j:81106
 Bolsterli, M. Canonical transformation method for static-source meson Hamiltonians. 91m:81322
 Bonatsos, Dennis (with Argyres, E. N.; Drenka, S. B.; Raichev, P. P.; Roussev, R. P.; Smirnov, Yu. F.) $SU_3(2)$ description of rotational spectra and its relation to the variable moment of the inertia model. 91j:81106
 Chen, Jin Quan. *see* Hecht, K. T., 91c:81178
 Dorey, N. (with Kenway, R. D.) The Schwinger-Dyson equation and dynamical mass generation in two-dimensional field theories. 91a:81235
 Dranyer, J. P. (with Leschber, Yorck) Algebraic realization of the rotor. (see 91m:81007)
 Drenka, S. B. *see* Bonatsos, Dennis; et al., 91j:81106
 Filippov, G. F. *see* Katō, Kiyoshi, (Not in MR)
 Frisk, Hans. Shell structure in terms of periodic orbits. 91c:81177
 Fursaev, D. V. *see* Kadyshchuk, V. G., 91a:81237
 Han, Qi Zhi. *see* Sun, Hong Zhou; et al., 91d:81164
 He, Hui Yong. *see* Li, Guang Hua; et al., 91g:81178
 Hecht, K. T. (with Chen, Jin Quan) Matrix elements in the $Sp(6) \supset U(3)$ branch of the S, D fermion pair model. 91c:81178
 Iwan, Syreil. Knot and conformal field theory approach in molecular and nuclear physics. 91g:81177
 Jibuti, R. I. (with Krupennikova, N. B.; Sarkisyan, L. L.) Construction scheme of four-body wave functions in a hyperspherical basis. 91a:81236
 Kadyshchuk, V. G. (with Fursaev, D. V.) Chiral fermion fields at high energies. 91a:81237
 Karlukovski, V. I. (with Michailova, Miloslava M.) On the symmetries of the dynamical systems with two degrees of freedom. (Russian summary) 91d:81163
 Katō, Kiyoshi (with Filippov, G. F.) Symplectic basis for constructing intrinsic wave functions of the three-body system. (Not in MR)
 Kenway, R. D. *see* Dorey, N., 91a:81235
 Klein, Abraham. *see* Walet, Niels R., 91j:81179
 Krupennikova, N. B. *see* Jibuti, R. I.; et al., 91a:81236
 Kaywak, S. (with Morrison, Iain) Shapes and phase transitions in generalized boson models. 91m:81323
 Lehoucq, P. (with Saraceno, M.) Structure of eigenfunctions in terms of classical trajectories in an $SU(3)$ schematic shell model. 91c:81122
 Leschber, Yorck. *see* Dranyer, J. P., (91m:81007)
 Levitan, Amiram (with Shao, Bin) General quadrupole nuclear shapes: an algebraic perspective. 91h:81189
 Li, Guang Hua (with He, Hui Yong) The $U(90)$ dynamical symmetry in light nuclei. (Chinese. English summary) 91g:81178
 Long, Gui Lu. *see* Sun, Hong Zhou; et al., 91d:81164
 Marshalek, E. R. *see* Nikam, R. S.; et al., 91f:81247
 Marumori, Toshio. *see* Sakata, Fumihiko; et al., 91h:81190
 Matsuo, Masayuki. *see* Sakata, Fumihiko; et al., 91h:81190
 Michailova, Miloslava M. *see* Karlukovski, V. I., 91d:81163
 Morrison, Iain. *see* Kaywak, S., 91m:81323
 Mukerjee, Madhusree. Compact to noncompact transition with application to nuclear collective levels. 91h:81217
 Nadzhakov, E. G. Models of dynamical symmetries of the nucleus. 91f:81246
 Nikam, R. S. (with Ring, P.; Sun, Y.; Marshalek, E. R.) Berry's phase on a quantized path. An example from nuclear physics. 91f:81247
 Pan, Feng. The matrix representation of SO_7 in an $(SU_2)^3$ basis. 91m:81324
 Raichev, P. P. *see* Bonatsos, Dennis; et al., 91j:81106
 Ring, P. *see* Nikam, R. S.; et al., 91f:81247
 Roussev, R. P. *see* Bonatsos, Dennis; et al., 91j:81106
 Sakata, Fumihiko (with Matsuo, Masayuki; Marumori, Toshio; Zhuo, Yi Zhong) Master equations in the microscopic theory of nuclear collective dynamics. 91h:81190
 Saraceno, M. *see* Lehoucq, P., 91c:81122
 Sarkisyan, L. L. *see* Jibuti, R. I.; et al., 91a:81236
 Shao, Bin. *see* Levitan, Amiram, 91h:81189
 Smirnov, Yu. F. *see* Bonatsos, Dennis; et al., 91j:81106
 Sun, Hong Zhou (with Zhang, Mei; Han, Qi Zhi; Long, Gui Lu) Coefficients of fractional parentage for a double- f boson system. 91d:81164
 Sun, Y. *see* Nikam, R. S.; et al., 91f:81247
 Suzuki, Noboru. Simple calculation of Löwdin's alpha function. III. Procedure for calculating $h_{2n-1}(LM)/[(2n-i)!]$ successively. 91k:81218
 Walet, Niels R. (with Klein, Abraham) Thermal boson expansions and dynamical symmetry. 91g:81179
 Zhang, Mei. *see* Sun, Hong Zhou; et al., 91d:81164
 Zhuo, Yi Zhong. *see* Sakata, Fumihiko; et al., 91h:81190
- Items with secondary classifications in 81V35
 Aral, Asao. Existence of infinitely many zero-energy states in a model of supersymmetric quantum mechanics. 91c:81017
 Belyaev, V. B. ★ Lectures on the theory of few-body systems. 91m:81308
 Berej, W. *see* Szpikowski, S., 91m:81001
 Budzinski, J. (with Firsirot, M.; Woźnicki, W.) Application of Laguerre polynomials for evaluation of two-center, two-, three- and four-electron integrals in the basis of Slater-type orbitals. (Not in MR)
 Carvalho, Juliana Temes Oliveira. Symmetrized Kronecker products of the fundamental representation of $Sp(n, R)$. 91g:22020
 Dittrich, J. (with Exner, Pavel; Šeba, Petr) Dirac Hamiltonian with contact interaction on a sphere. (see 91j:81005)
 Exner, Pavel. *see* Dittrich, J.; et al., (91j:81005)
 Firsirot, M. *see* Budzinski, J.; et al., (Not in MR)
 Guhr, Thomas. Dyson's correlation functions and graded symmetry. 91m:82010
 Hecht, K. T. ★ The vector coherent state method and its application to problems of higher symmetries. 91c:81028
 — Wigner coefficients for the proton-neutron quasispin group: an application of vector coherent state techniques. 91a:81073
 Huang, Ke Lei. *see* Li, De Ming, 91i:58098
 Iwan, Syreil. Spectroscopy in Witten's quantum universal enveloping algebra of SU_2 and strength of deformation of its representation space. 91c:81031
 Kramer, Peter. *see* Papadopoulos, Z.; et al., 91a:81075
 Kitarev, D. V. Errata: "Functional integral and the Feynman-Kac formula in superspace" [Lett. Math. Phys. 18 (1989), no. 4, 325-331; MR 90j:58018]. (Not in MR)
 Le Blanc, Richard (with Rowe, D. J.) Highest weight representations for $gl(m/n)$ and $gl(m+n)$. 91c:17021
 Li, De Ming (with Huang, Ke Lei) Hopf bifurcation in a three-dimensional system. 91i:58098
 Li, Xiang Zhu (with Paldus, Josef) Unitary group tensor operator algebras for many-electron systems. I. Clebsch-Gordan and Racah coefficients. 91k:22039
 Mohapatra, Rabindra N. Infinite statistics and a possible small violation of the Pauli principle. 91f:81069
 Paldus, Josef. *see* Li, Xiang Zhu, 91k:22039
 Papadopoulos, Z. (with Kramer, Peter; Schweizer, W.) On the coherent-state representation for the homogeneous spaces of $Sp(6, R)$. 91a:81075
 (Pontecorvo, G. B.) *see* Belyaev, V. B., 91m:81308
 Rowe, D. J. *see* Le Blanc, Richard, 91c:17021
 Schweizer, W. *see* Papadopoulos, Z.; et al., 91a:81075
 Šeba, Petr. *see* Dittrich, J.; et al., (91j:81005)
 Szpikowski, S. (with Berej, W.) A new physical basis for the irreducible representations of the orthogonal group $SO(5)$ in the quasi-spin formalism. 91m:81001
 Woźnicki, W. *see* Budzinski, J.; et al., (Not in MR)
- ### 81V45 Atomic physics
- Atrapetian, V. G. *see* Komarov, V. V.; et al., 91c:81181
 Barut, Asim O. (with Inomata, Akira; Junker, Georg) Path integral treatment of the hydrogen atom in a curved space of constant curvature. II. Hyperbolic space. 91c:81179
 Bunge, Carlos F. *see* Ley Koo, E., (Not in MR)
 Cahill, E. The Kustaanheimo-Stiefel transformation applied to the hydrogen atom: using the constraint equation and resolving a wavefunction discrepancy. 91a:81238
 Chen, Jin Quan. *see* Novoselsky, Akiva; et al., (Not in MR)
 Chen, Xue Jun. Expressions for fermion operators in interacting boson-fermion models. (Chinese. English summary) 91f:81248
 Englert, Berthold-Georg (with Schwinger, Julian) Thomas-Fermi quantization, classical orbits, and the systematics of the periodic table. (see 91j:81002)

- Fefferman, Charles L. (with Seco, Luis A.) Asymptotic neutrality of large ions. 91F81249
- Florescu, Viorica (with Patrascu, Suzana) On the modification of the Stark states of hydrogen by a weak ac electric field. 91M81325
- Gilmore, Robert see Novoselsky, Akira; et al., (Not in MR)
- Hammer, C. L. see Weber, T. A., 91b:81192
- Hughes, Webster An atomic energy lower bound that agrees with Scott's corrections. 91c:81180
- Inomata, Akira see Barut, Asim O.; et al., 91c:81179
- Iwao, Syurei Atomic energy levels and gyromagnetic ratios in SU_2 quantum universal enveloping algebra. (Not in MR)
- Junker, Georg see Barut, Asim O.; et al., 91c:81179
- Komarov, V. V. (with Popova, A. M.; Alrapetyan, V. G.) Description of the resonance states of helium-like ions. 91c:81181
- Levinger, J. S. see Valk, H. S., 91c:81182
- Ley Koo, E. (with Bunge, Carlos F.) New method to evaluate atomic electron-repulsion integrals. (Not in MR)
- Lia, Cheng Bu (with Zeng, Zong Hao; Sun, Jia Zhong) Investigation of a class of n -electron wave functions with symplectic group symmetry. (Chinese) (Not in MR)
- Mardoyan, L. G. (with Pogoyan, G. S.; Sisakyan, A. N.; Ter-Antonyan, V. M.) KS-transformation and Coulomb-oscillator interbasis expansions. 91M81326
- Novoselsky, Akira (with Vallières, M.; Gilmore, Robert; Chen, Jin Quan) Generalized creation and annihilation operators: physical interpretation and reordering properties. (Not in MR)
- Orlov, N. Yu. The effect of boundary conditions on the energy spectrum of bound electrons. (Russian) (Not in MR)
- Patrascu, Suzana see Florescu, Viorica, 91M81325
- Parlachenkov, I. M. Bifurcations in spectra of high-spin states of atomic nuclei. 91G81180
- Pogoyan, G. S. see Mardoyan, L. G.; et al., 91M81326
- Popova, A. M. see Komarov, V. V.; et al., 91c:81181
- Schwinger, Julian see Englert, Berthold-Georg, (91J:81002)
- Seco, Luis A. (with Sigal, I. M.; Solovej, Jan Philip) Bound on the ionization energy of large atoms. 91M81327
- see also Fefferman, Charles L., 91F81249
- Siedentop, Heinz (with Weikard, Rudi) The Scott conjecture in atomic physics. 91A81239
- Sigal, I. M. see Seco, Luis A.; et al., 91M81327
- Sisakyan, A. N. see Mardoyan, L. G.; et al., 91M81326
- Solovej, Jan Philip Universality in the Thomas-Fermi-von Weizsäcker model of atoms and molecules. 91b:81191
- Asymptotics for bosonic atoms. 91M81328
- see also Seco, Luis A.; et al., 91M81327
- Storchak, S. N. A remark on hydrogen atom quantization by the path integral method. 91A81240
- Sun, Jia Zhong see Lia, Cheng Bu; et al., (Not in MR)
- Ter-Antonyan, V. M. see Mardoyan, L. G.; et al., 91M81326
- Valk, H. S. (with Levinger, J. S.) Hyperspherical harmonics applied to an exactly solvable three-body problem: a simple illustration of current techniques. 91c:81182
- Vallières, M. see Novoselsky, Akira; et al., (Not in MR)
- Weber, T. A. (with Hammer, C. L.) The one-dimensional Coulomb potential as a generalized function and the hidden $O(2)$ symmetry. 91b:81192
- Weikard, Rudi see Siedentop, Heinz, 91A81239
- Zeng, Zong Hao The p -body rank of an n -electron state. 91d:81165
- see also Lia, Cheng Bu; et al., (Not in MR)
- Items with secondary classifications in 81V45
- Arai, Asao Existence of infinitely many zero-energy states in a model of supersymmetric quantum mechanics. 91c:81017
- Broeckhove, J. (with Lathouwers, L.; Van Leuven, P.) Time-dependent variational principles and conservation laws in wavepacket dynamics. 91A81241
- Dietz, Barbara (with Haake, Fritz) Taylor and Padé analysis of the level spacing distributions of random-matrix ensembles. 91b:82028
- Drake, G. W. F. see Swainson, Robin A., 91M:33015
- Englisch, Harald see Englisch, R., 91g:81181
- Englisch, R. (with Englisch, Harald) Monotonicity and concavity in Coulomb systems. 91g:81181
- Fee, G. J. see Scott, T. C.; et al., 91b:81025
- Fineschi, S. (with Landi Degl'Innocenti, E.) A triangular property of the associated Legendre functions. 91a:33007
- Haake, Fritz see Dietz, Barbara, 91b:82028
- Hacyan, S. (with Jáuregui, R.; Soto-Eguibar, Francisco; Villarreal, C.) Spectrum of electromagnetic fluctuations in the Casimir effect. 91d:81157
- Hegerfeldt, Gerhard C. (with Henneberg, Ralph) Quantum chaos in hydrogen: dynamical group approach and a resonance anomaly in the Brody parameter. 91A81047
- Henneberg, Ralph see Hegerfeldt, Gerhard C., 91A81047
- Holas, A. (with March, N. H.) A generalisation of the Runge-Lenz constant of classical motion in a central potential. 91c:70006
- Iwao, Syurei Spectroscopy in Witten's quantum universal enveloping algebra of SU_2 and strength of deformation of its representation space. 91c:81031
- Jáuregui, R. see Hacyan, S.; et al., 91d:81157
- Judd, B. R. (with Leavitt, R. C.; Lister, G. M. S.) 6- j symbols for $SO(2l+1)$ and a structural analysis in terms of atomic quasiparticles. 91b:81042
- Komarov, I. V. see Kvitsinskii, A. A.; et al., 91a:81223
- Komarov, L. I. see Le Van Hoang; et al., 91b:81025
- Kostykin, V. V. see Kvitsinskii, A. A., 91J:81096
- Kvitsinskii, A. A. (with Komarov, I. V.; Merkur'ev, S. P.) S -matrix singularities in scattering of charged particles on hydrogen-like targets. 91a:81223
- (with Kostykin, V. V.) S -matrix and Jost functions of Schrödinger Hamiltonian related to the Stark effect. 91J:81096
- Landi Degl'Innocenti, E. see Fineschi, S., 91a:33007
- Lathouwers, L. see Broeckhove, J.; et al., 91A81241
- Leavitt, R. C. see Judd, B. R.; et al., 91b:81042
- Le Van Hoang (with Komarov, L. I.; Romanova, T. S.) On the Coulomb Green function. 91F81025
- Lieb, Elliott H. The stability of matter: from atoms to stars. 91F81002
- Lia, Hai Lan Evaluation of the $U(n)$ generator matrix elements in the noncanonical basis adapted to $U(n_1 + n_2) \supset U(n_1) \otimes U(n_2)$. (Chinese. English summary) 91b:81049
- Lister, G. M. S. see Judd, B. R.; et al., 91b:81042
- Lyudkovskii, S. V. Tensor operators of the Lie algebras $u(n)$ and $o(n)$. 91F17005
- March, N. H. see Holas, A., 91c:70006
- Merkur'ev, S. P. see Kvitsinskii, A. A.; et al., 91a:81223
- Monagan, M. B. see Scott, T. C.; et al., 91b:81025
- Moore, R. A. see Scott, T. C.; et al., 91b:81025
- Pan, Feng The matrix representation of SO_7 in an $(SU_2)^3$ basis. 91M81324
- de Prunelé, E. $O(4, 2)$ coherent states and hydrogenic atoms. 91g:81054
- Romanova, T. S. see Le Van Hoang; et al., 91F81025
- Roy, Prodyot Kumar Remarks on supersymmetric quantum mechanics and the radial Schrödinger equation. 91b:81032
- Scott, T. C. (with Moore, R. A.; Monagan, M. B.; Fee, G. J.; Vrcay, Edward R.) Perturbative solutions of quantum mechanical problems by symbolic computation. 91b:81025
- Seike, J. Self-consistent projection-operator method for describing the non-Markovian time-evolution of subsystems. 91A82049
- Siedentop, Heinz (with Weikard, Rudi) Proof of Scott's conjecture. (see 91M:35005)
- Soto-Eguibar, Francisco see Hacyan, S.; et al., 91d:81157
- Swainson, Robin A. (with Drake, G. W. F.) An alternative proof of some relations between hydrogenic matrix elements. 91M:33015
- Van Leuven, P. see Broeckhove, J.; et al., 91A81241
- Villarreal, C. see Hacyan, S.; et al., 91d:81157
- Vrcay, Edward R. see Scott, T. C.; et al., 91b:81025
- Vugafter, S. A. (with Zhislin, G. M.) On the discrete spectrum of atoms and molecules. (see 91J:81005)
- Wang, Xue Ping Resonances of N -body Schrödinger operators with Stark effect. (French summary) 91g:81168
- Weikard, Rudi see Siedentop, Heinz, (91M:35005)
- Zhislin, G. M. see Vugafter, S. A., (91J:81005)

81V55 Molecular physics [see also 92E10]

- Ahlrichs, Reinhart Numerische Methoden der Quantenchemie. [Numerical methods of quantum chemistry] (see 91k:00033)
- Bach, Volker Ionization energies of bosonic Coulomb systems. 91M81329
- Bechler, Adam see Florescu, Viorica; et al., 91F81250
- Billing, Gert Due see Jollicard, Georges, 91J:81107
- Boyd, Russell J. see Ugalde, Jesus M.; et al., (Not in MR)
- Broeckhove, J. (with Lathouwers, L.; Van Leuven, P.) Time-dependent variational principles and conservation laws in wavepacket dynamics. 91A81241
- Ceulemans, A. (with Fowler, P. W.) The Jahn-Teller instability of fivefold degenerate states in icosahedral molecules. 91c:81183
- Chiu, Ying Nan see Lai, Shan Tao, 91b:81193
- (Davydov, A. S.) see Physics of multiparticle systems, 91A81243
- Domaguez, L. see Ugalde, Jesus M.; et al., (Not in MR)
- Florescu, Viorica (with Presecan, M.; Bechler, Adam; Pratt, R. H.) Existence of zeros in the Coulomb multipole matrix element with retardation. 91F81250
- Fowler, P. W. see Ceulemans, A., 91c:81183
- Frank, Alejandro see Lemus, R., 91M:81331
- Gao, Ying-Duo (with Hosoya, Haruo) Analysis of the π -electronic structure of infinitely large networks. 91M81330
- Godrèche, C. (with Luck, J. M.) Multifractal analysis in reciprocal space and the nature of the Fourier transform of self-similar structures. 91F81251
- Hosoya, Haruo see Gao, Ying-Duo, 91M81330
- Jaffé, Charles (with Kellman, Michael E.) Localized chaos and partial assignability of dynamical constants of motion in the transition to molecular chaos. 91F81252
- Jollicard, Georges (with Billing, Gert Due) A new partitioning technique for the calculation of Bloch's wave operators. 91J:81107
- Kellman, Michael E. see Xiao, Lin, 91c:81187 and Jaffé, Charles, 91F81252
- Kouri, Donald J. see Sun, Yan; et al., (Not in MR)
- Kurason, P. B. A one-electron model of a long molecule. (Russian. English summary) 91A81242
- Lai, Shan Tao (with Chiu, Ying Nan) Angular distributions, rotational summations, and integrations in the quadrupole and two-photon photodissociation of molecules. 91b:81193
- Lathouwers, L. see Broeckhove, J.; et al., 91A81241
- Lemus, R. (with Frank, Alejandro) An algebraic model for molecular electronic excitations in diatomic molecules. 91M81331
- Li, Xiang Zhu (with Zhang, Qian Er) Bonded tableau and unitary group approach for many-electron problems. 91c:81184
- Lin, F. J. (with Muckerman, J. T.) Solution of the time-dependent Schrödinger equation employing a basis of explicit discrete-coordinate eigenfunctions: spherical and azimuthal symmetry, adiabaticity, and multiphoton excitation of a rotating Morse oscillator. 91M81332
- Luck, J. M. see Godrèche, C., 91F81251
- Lulek, T. (with Szopa, M.) The Racah-Wigner approach to harmonic oscillations of the cluster of nodes of a cube. 91c:81185
- Luzanov, A. V. Covariant methods in the quantum mechanics of molecules. (Russian. English summary) 91c:81123
- Moody, John (with Shapere, Alfred; Wilczek, Frank) Adiabatic effective Lagrangians. (see 91b:81004)
- Muckerman, J. T. see Lin, F. J., 91M81332
- Novosad, B. K. * Методы решения уравнений квантовой химии. (Russian) [Methods for solving equations in quantum chemistry] 91F81253
- Paldus, Josef Group theoretical approaches to many-electron correlation problem. (see 91M81007)

- Peskin, Charles S. *see* Schlick, Tamar, 91c:81124
- Pratt, R. H. *see* Florescu, Viorela; et al., 91f:81250
- Presecan, M. *see* Florescu, Viorela; et al., 91f:81250
- Primorac, Miljenko Computation of molecular integrals over partially generalized Hermite-Gaussian functions. 91j:81108
- Ruskai, Mary Beth Limits on stability of positive molecular ions. 91c:81186
- Sarasola, C. *see* Ugaldé, Jesus M.; et al., (Not in MR)
- Savin, A. V. *see* Zelotaryuk, A. V., (Not in MR)
- Schlick, Tamar (with Peskin, Charles S.) Can classical equations simulate quantum-mechanical behavior? A molecular dynamics investigation of a diatomic molecule with a Morse potential. 91c:81124
- Schwenke, David W. *see* Sun, Yan; et al., (Not in MR)
- Scott, Alwyn C. A nonresonant discrete self-trapping system. 91f:81254
- Shapere, Alfred *see* Moody, John; et al., (91h:81004)
- Selovej, Jan Philip Asymptotic neutrality of diatomic molecules. 91f:81256
- Sun, Yan (with Kouri, Donald J.; Schwenke, David W.; Truhlar, Donald G.) Time-dependent wavepacket algorithm for inelastic molecule-molecule scattering. (Not in MR)
- Suopa, M. *see* Lalek, T., 91c:81185
- Truhlar, Donald G. *see* Sun, Yan; et al., (Not in MR)
- Ugaldé, Jesus M. (with Sarasola, C.; Domínguez, L.; Boyd, Russell J.) The evaluation of electronic extracule and intracule densities and related probability functions in terms of Gaussian basis functions. (Not in MR)
- Van Leuven, P. *see* Broeckhove, J.; et al., 91a:81241
- Wilczek, Frank *see* Moody, John; et al., (91h:81004)
- Xiao, Lin (with Kellman, Michael E.) Unified semiclassical dynamics for molecular resonance spectra. 91c:81187
- Zhang, Qian Er *see* Li, Xiang Zhu, 91c:81184
- Zelotaryuk, A. V. (with Savin, A. V.) Solitons in molecular chains with intramolecular nonlinear interactions. (Not in MR)
- Items listed otherwise than by author
- Physics of multiparticle systems ★ Физика многочастичных систем. Вып. 16. (Russian) [Physics of multiparticle systems. No. 16] 91a:81243
- Items with secondary classifications in 81V55
- Alhassid, Y. The algebraic approach to scattering and the "Euclidean connection". (see 91c:81007)
- Bernstein, Lisa Joan (with Eilbeck, J. C.; Scott, Alwyn C.) The quantum theory of local modes in a coupled system of nonlinear oscillators. 91c:81026
- von Brentano, P. On the generalization of the level repulsion theorem to resonances. 91b:81180
- Catto, Isabelle (with Lions, Pierre-Louis) La stabilité des molécules et la liaison des atomes pour des modèles de type Thomas-Fermi ou Hartree. (English summary) [Molecular stability and binding of atoms for Thomas-Fermi or Hartree models] 91g:82004
- Christiansen, Peter L. *see* Scott, Alwyn C., 91f:81255
- Del Re, Giuseppe (with Liegener, Christoph-M.) Second-order expression of Born probabilities by partitioning and Laplace transform methods. (Not in MR)
- Eilbeck, J. C. *see* Bernstein, Lisa Joan; et al., 91c:81026
- Englich, Harald *see* Englisch, R., 91g:81181
- Englich, R. (with Englisch, Harald) Monotonicity and concavity in Coulomb systems. 91b:81181
- Gould, M. D. (with Paldus, Josef) Spin-dependent unitary group approach. I. General formalism. 91f:81053
- Hagedorn, George A. Multiple scales and the time-independent Born-Oppenheimer approximation. 91d:81023
- Jumleson, M. J. Numerical calculation of wavefunctions near a strongly repulsive potential. 91a:81002
- Kadomtsev, M. B. *see* Vinitskii, S. I.; et al., 91h:81185
- Kamran, Niky (with Olver, Peter J.) Lie algebras of differential operators and Lie-algebraic potentials. 91b:34145
- Li, Xiang Zhu (with Paldus, Josef) Unitary group tensor operator algebras for many-electron systems. I. Clebsch-Gordan and Racah coefficients. 91k:22039
- Lieb, Elliott H. The stability of matter: from atoms to stars. 91f:81002
- Liegener, Christoph-M. *see* Del Re, Giuseppe, (Not in MR)
- Liu, Hai Lan Evaluation of the $U(n)$ generator matrix elements in the noncanonical basis adapted to $U(n_1 + n_2) \supset U(n_1) \otimes U(n_2)$. (Chinese. English summary) 91k:81049
- Lions, Pierre-Louis *see* Catto, Isabelle, 91g:82004
- Mallion, R. B. *see* O'Leary, Brian, 91b:92043
- Meezy, Paul G. ★ Potential energy hypersurfaces. 91c:92096
- O'Leary, Brian (with Mallion, R. B.) C. A. Coulson's work on a contour-integral approach to the London theory of magnetic susceptibility of conjugated molecules. 91b:92043
- Olver, Peter J. *see* Kamran, Niky, 91b:34145
- Osherov, V. I. *see* Voronin, A. I., 91c:92108
- Paldus, Josef (with Gould, M. D., 91f:81053 and Li, Xiang Zhu, 91k:22039
- Scott, Alwyn C. (with Christiansen, Peter L.) A generalized discrete self-trapping equation. 91f:81255
- *see also* Bernstein, Lisa Joan; et al., 91c:81026
- Selovej, Jan Philip Universality in the Thomas-Fermi-von Weizsäcker model of atoms and molecules. 91b:81191
- Surján, Péter R. ★ Second quantized approach to quantum chemistry. 91g:81002
- Suz'ko, A. A. *see* Vinitskii, S. I.; et al., 91h:81185
- Vinitskii, S. I. (with Kadomtsev, M. B.; Suz'ko, A. A.) Adiabatic representation of the three-body problem in hyperspherical coordinates. Scattering amplitude. 91h:81185
- Voronin, A. I. (with Osherov, V. I.) ★ Динамика молекулярных реакций. (Russian) [Dynamics of molecular reactions] 91c:92108
- Vugafter, S. A. (with Zhislin, G. M.) On the discrete spectrum of atoms and molecules. (see 91f:81005)
- Yau, Hsing-Tzer Stability of relativistic Coulomb and gravitating systems. 91b:82030
- Zeng, Zong Hao The p -body rank of an n -electron state. 91d:81165
- Zhislin, G. M. *see* Vugafter, S. A., (91f:81005)

81V70 Many-body theory

- Affleck, Ian A current algebra approach to the Kondo effect. 91c:81188
- Bes, D. R. (with Cruz Barrios, S.; Kurchan, Jorge) An algebraic method for the treatment of broken symmetries in many-body problems: a simple example. 91c:81189
- Bogolyubov, N. N. (with Bogolyubov, N. N., Jr.) ★ Some aspects of polaron theory. 91b:81194
- Bogolyubov, N. N., Jr. *see* Bogolyubov, N. N., 91b:81194
- Brizhik, L. S. Soliton dynamics in a constant magnetic field. 91m:81333
- Cederbaum, L. S. *see* Tarantelli, A., 91k:81220
- Clarkson, Peter A. (with Tuszyński, J. A.) Exact solutions of the multidimensional derivative nonlinear Schrödinger equation for many-body systems near criticality. 91b:81195
- Cruz Barrios, S. *see* Bes, D. R.; et al., 91c:81189
- Diercksen, Geerd H. F. (with Duch, W.; Karwowski, J.) Method for locating errors in Hamiltonian matrices. 91a:81244
- Duch, W. *see* Diercksen, Geerd H. F.; et al., 91a:81244
- Englich, Harald *see* Englisch, R., 91g:81181
- Englich, R. (with Englisch, Harald) Monotonicity and concavity in Coulomb systems. 91g:81181
- Feldman, Joel (with Trubowitz, Eugene) Perturbation theory for many fermion systems. 91f:81257
- Franklin, Eduardo (with von Reichenbach, Cecilia; Schaposnik, Fidel A.) Conformal properties of the Kondo models. 91b:81196
- Fubini, S. (with Lütken, C. A.) Vertex operators in the fractional quantum Hall effect. 91m:81334
- Galetti, D. *see* Mizrahi, S. S., 91d:81166
- Gelfand, Martin P. (with Singh, Rajiv R. P.; Huse, David A.) Perturbation expansions for quantum many-body systems. 91j:81109
- Hernández, E. S. *see* Jezek, D. M., 91j:81110
- Huse, David A. *see* Gelfand, Martin P.; et al., 91j:81109
- Jezek, D. M. (with Hernández, E. S.) Nonlinear pseudospin dynamics on a noncompact manifold. 91j:81110
- Jiang, Lin Jie *see* Zhou, Huan Qiang; et al., 91a:81245
- Karwowski, J. *see* Diercksen, Geerd H. F.; et al., 91a:81244
- Klein, Markus (with Seiler, R.) Power-law corrections to the Kubo formula vanish in quantum Hall systems. 91g:81182
- Kugler, Alfred A. Exact hierarchy of equations for the kinetic energy functional. 91f:81258
- Kurchan, Jorge *see* Bes, D. R.; et al., 91c:81189
- Lütken, C. A. *see* Fubini, S., 91m:81334
- Mizrahi, S. S. (with Galetti, D.) Squeezed states phase space representation and semiclassical approximations in many-body systems. 91d:81166
- Morrison, Harry L. *see* Spiliotopoulos, Achilles D., 91f:81262
- Myrzakulov, R. New nonlinear evolution equations that describe the dynamics of magnon-phonon systems. (Russian) 91j:81111
- Newton, Roger G. Korringa-Kohn-Rostoker spectral-band theory for general potentials. 91f:81259
- Olaussen, Kåre (with Sollie, Roger) Fractional quantum Hall effect on the 2-sphere: a state-counting analysis. 91b:81195a
- *see also* Sollie, Roger, 91b:81195b and 91m:81335
- Quano, Yas-Hiro Elliptic solution of anisotropic Kondo problem. 91f:81260
- von Reichenbach, Cecilia *see* Franklin, Eduardo; et al., 91b:81196
- Rieckers, Alfred On the quasiparticle- and super-current at the finite temperature Josephson junction. (see 91m:82002)
- Ristig, M. L. The structure of quantum fluids. 91b:81196
- Schaposnik, Fidel A. *see* Franklin, Eduardo; et al., 91b:81196
- Schwinger, Julian Phonon representations. 91f:81261
- Seiler, R. *see* Klein, Markus, 91g:81182
- Singh, Rajiv R. P. *see* Gelfand, Martin P.; et al., 91j:81109
- Sollie, Roger (with Olaussen, Kåre) Fractional quantum Hall effect on the 2-sphere: a case study of symmetry reduction. 91b:81195b
- (with Olaussen, Kåre) Fractional quantum Hall effect on the 2-sphere: a quasispin analysis. 91m:81335
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- Weger, M. *see* Englman, R., (Not in MR)
- Wilson, Charles L. *see* Blue, James L., 91c:82084
- Yan, Jia Ren *see* You, J. Q.; et al., 91g:82027
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- Accardi, Luigi (with Frigerio, Alberto; Lu, Yun Gang) The weak coupling limit as a quantum functional central limit. 91j:81112
- Agarwal, G. S. (with Simon, Rajiah) Berry phase, interference of light beams, and the Hannay angle. 91h:81197
- Aravind, P. K. Simulating the Wigner angle with a parametric amplifier. 91k:81221
- *see also* Gong, J. J., 91m:81339
- Bandrauk, A. D. *see* McCann, J. F., 91m:81342
- Bartiz, V. *see* Jannussis, A.; et al., 91f:81264
- Bashev, A. M. Relation between exactly integrable models in resonance optics. 91m:81336
- Belavkin, V. P. A continuous counting observation and posterior quantum dynamics. 91a:81246
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- Carroll, C. E. (with Hioe, F. T.) Analytic solutions for three-state systems with overlapping pulses. 91f:81263
- Chaturvedi, S. (with Sandhya, R.; Srinivasan, V.; Simon, Rajiah) Thermal counterparts of nonclassical states in quantum optics. 91a:81247
- (with Srinivasan, V.) Solution of the master equation for an attenuated or amplified nonlinear oscillator with an arbitrary initial condition. 91m:81337
- Combes, M. Crystallization of trapped ions—a quantum approach. 91k:81222
- Dattoli, G. (with Richetta, M.; Torre, Amalia) The Cayley-Klein parameters and geometrical picture of the multilevel system evolution. (Italian and Russian summaries) 91g:81183
- Dinariev, O. Ya. The fluctuation spectrum in an exactly solvable model. (Russian. English and Ukrainian summaries) 91a:81248
- Dodonov, V. V. (with Man'ko, V. L.) Universal invariants of quantum systems and generalized uncertainty relations. 91h:81198
- Eker, Artur K. (with Knight, Peter L.) Relationship between semiclassical and quantum-mechanical input-output theories of optical response. 91m:81338
- Elgin, John *see* Swinton, Jonathan, 91c:81190
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- Galatola, P. Time evolution equations for atomic quasiprobability distributions with arbitrary orderings. 91k:81223
- *see also* Mandel, Paul; et al., (Not in MR)
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- Hioe, F. T. *see* Carroll, C. E., 91f:81263
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- Imoto, Nobuyuki *see* Ueda, Masahito; et al., 91c:81192
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- Král, P. Kerr interaction with displaced and squeezed Fock states. 91g:81184
- Krotov, V. F. *see* Kazakov, Vladimir Aleksandrovich, 91h:81125
- Lu, Yun Gang *see* Accardi, Luigi; et al., 91j:81112
- Lugiato, L. A. *see* Mandel, Paul; et al., (Not in MR)
- Lynch, Robert E. (with Mavromatis, Harry A.) N th (even)-order minimum uncertainty products. 91h:81199
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- Matsumoto, Kenji *see* Ikeda, Kensuke; et al., 91m:81340
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- McCann, J. F. (with Bandrauk, A. D.) Eigenvalues of the Zakharov-Shabat equations by semiclassical approximation. 91m:81342
- Nieto, Michael Martin What are squeezed states really like? (see 91m:82002)
- Ogawa, Tetsuo *see* Ueda, Masahito; et al., 91c:81192
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- Pettiaux, N. P. *see* Mandel, Paul; et al., (Not in MR)
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- Puri, R. R. *see* Joshi, Amitabh, (Not in MR)
- Richetta, M. *see* Dattoli, G.; et al., 91g:81183
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- Rustamov, K. A. Invariance transformations and exact solutions of the Rabi model. (Not in MR)
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- Scully, Marian O. *see* Wódkiewicz, K., (Not in MR)
- Shirokov, M. I. Para-Fermi operators in the theory of superradiance. 91m:81343
- Shore, Bruce W. ★ The theory of coherent atomic excitation. Vol. 1. 91k:81226
- Shvets, V. F. On superstrong wave collapse in lower dimensions. 91h:81112
- Simon, Rajiah *see* Chaturvedi, S.; et al., 91a:81247 and Agarwal, G. S., 91h:81197
- Singer, Faig (with Campos, Richard A.; Teich, Malvin C.; Saleh, Bahaa E. A.) The degenerate four-wave mixer: SU(1, 1) symmetry and photon statistics. 91h:81227
- Singh, Manmohan Two-fold generating function for the Brillouin spectrum: an analytic approach. 91m:81344
- Srinivasan, V. *see* Chaturvedi, S.; et al., 91a:81247 and 91m:81337
- Stredel, H. Inverse scattering theory of superfluorescence. 91h:81201
- Sutton, L. G. *see* van Wouwen, A. J., (Not in MR) and (Not in MR)
- Swinton, Jonathan (with Elgin, John) Stability of travelling pulse solutions to a laser equation. 91c:81190
- Teich, Malvin C. *see* Singer, Faig; et al., 91k:81227
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- Ueda, Masahito Nonequilibrium open-system theory for continuous photodetection processes: a probability-density-functional description. 91c:81191
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- Vinogradov, An. V. *see* Janszky, J., 91m:81341
- Vlahos, E. *see* Jannussis, A.; et al., 91f:81264
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- Vrsay, Edward R. *see* Gerry, Christopher C.; et al., (Not in MR)
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 Ali, M. K. *see* Gumbs, Godfrey, 91b:82010
 Amiet, J.-P. *see* Cilibs, M. B.; et al., 91c:82040
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 Beck, Hans. *see* Cilibs, M. B.; et al., 91c:82040
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 Beika, B. B. (with Petrov, N. S.) ★ Отражение света от усиливающих и нелинейных сред. (Russian) [Reflection of light from amplifying and nonlinear media] 91b:78001
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 Cao, Li¹ *see* Wu, Da Jin, (Not in MR)
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 Cilibs, M. B. (with Cache, Y.; Wreszinski, Walter F.; Amiet, J.-P.; Beck, Hans) On the classical limits in the spin-boson model. 91c:82040
 Cache, Y. *see* Cilibs, M. B.; et al., 91c:82040
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 Derbov, V. L. *see* Vinitskii, S. I.; et al., 91h:81045
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 Fung, P. C. W. *see* Cheng, K. M., 91k:81042
 Gerry, Christopher C. SU(1, 1) coherent-state dynamics: a path-integral approach. 91i:81029
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 Hernández, E. S. *see* Jezek, D. M., 91j:81110
 Honegger, Reinhard (with Rapp, Armin) General Glauber coherent states on the Weyl algebra and their phase integrals. 91m:81098
 Ikeda, Kensuke *see* Mizuno, Makoto, 91k:78008
 Jezek, D. M. (with Hernández, E. S.) Nonlinear pseudospin dynamics on a noncompact manifold. 91j:81110
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 Li, Fa Bin Improvements on the perturbed harmonic oscillator ladder operator method in nonlinear quantum field theory and laser theory. (Chinese. English summary) 91a:81036
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 Ma, Xia (with Rhodes, W.) Nonexistence of proper eigenstates of squeeze operators. (Italian and Russian summaries) 91a:81074
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 Markovskii, B. L. *see* Vinitskii, S. I.; et al., 91h:81045
 Martin, André *see* Basdevant, J.-L.; et al., 91k:81202a and 91k:81202b
 Milonni, P. W. *see* Goggin, M. E.; et al., 91c:81015
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 Petrov, N. S. *see* Beika, B. B., 91b:78001
 Phoenix, Simon J. D. Wave-packet evolution in the damped oscillator. 91k:81023
 Plumb, Marie F. *see* Gerry, Christopher C., 91b:81054
 Pons, Roland *see* Léauté, B.; et al., 91m:81036
 Rapp, Armin *see* Honegger, Reinhard, 91m:81098
 Rhodes, W. *see* Ma, Xia, 91a:81074
 Richard, J. M. *see* Basdevant, J.-L.; et al., 91k:81202a and 91k:81202b
 Sinityn, Yu. A. (with Tsukernik, V. M.; Zaslavskii, O. B.) Propagation of electromagnetic waves through weakly nonuniform media as described in terms of the quantum mechanical analogy. 91d:78003
 Sridharan, V. *see* Srinivasan, S. K., 91h:60099
 Srinivasan, S. K. (with Sridharan, V.) Multiphase evolution of population and its application to optics and colliding-beam experiments. 91h:60099
 Stepanovskii, Yu. P. *see* Vinitskii, S. I.; et al., 91h:81045
 Sundaram, Bala *see* Goggin, M. E.; et al., 91c:81015
 Tsukernik, V. M. *see* Sinityn, Yu. A.; et al., 91d:78003
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 Wreszinski, Walter F. *see* Cilibs, M. B.; et al., 91c:82040
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- Odintsov, O. G. (with Pushkar'ev, E. A.) Simultaneous reconstruction of the distribution function of quadrupole splitting and dependencies of isometric shift with respect to Mössbauer spectrum data. (Russian) 91m:81345
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82-XX Statistical mechanics, structure of matter

82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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- Helming, Kurt *see* Matthies, Siegfried; et al., 91a:82070 and 91b:82062
 Matthies, Siegfried (with Vinet, Galina W.; Helming, Kurt) ★ Standard distributions in texture analysis. Vol. 1. 91a:82070
 — (with Vinet, Galina W.; Helming, Kurt) ★ Standard distributions in texture analysis. Vol. 2. 91b:82062
 Vinet, Galina W. *see* Matthies, Siegfried; et al., 91a:82070 and 91b:82062

82-01 Instructional exposition (textbooks, tutorial papers, etc.)

- (Bloch, Felix) *see* Walecka, John Dirk, 91k:82001
 Gerasimenko, V. I. *see* Petrina, D. Ya.; et al., 91c:82001
 Huang, Kerson ★ Statistical mechanics. 91d:82001
 (Malyshev, D. V.) *see* Petrina, D. Ya.; et al., 91c:82001
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 Petrina, D. Ya. (with Gerasimenko, V. I.; Malyshev, P. V.) ★ Mathematical foundations of classical statistical mechanics. 91c:82001
 (Sukhor, Yu. M.) *see* Petrina, D. Ya.; et al., 91c:82001
 Walecka, John Dirk ★ Fundamentals of statistical mechanics. Manuscript and notes of Felix Bloch. 91k:82001
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Items with secondary classifications in 82-01

- (Bellemans, A.) *see* Prigogine, Ilya, 91g:82061
 Burns, Gerald (with Glazer, A. M.) ★ Space groups for solid state scientists. 91c:82071
 (Gibbs, Josiah Willard) *see* Oppenheim, Irwin, (91j:00016)
 Glazer, A. M. *see* Burns, Gerald, 91c:82071
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 Kennedy, Thomas Garrett Isotropic quantum antiferromagnets with a massive ground state. 91a:82020
 (Mathot, V.) *see* Prigogine, Ilya, 91g:82061
 Oppenheim, Irwin Ensembles versus assemblies and the approach to equilibrium. (see 91j:00016)
 Prigogine, Ilya ★ Молекулярная теория растворов. (Russian) [The molecular theory of solutions] 91g:82061
 Röpke, Gerd ★ Неравновесная статистическая механика. (Russian) [Nonequilibrium statistical mechanics] 91j:82041
 Schmutzer, Ernst ★ Grundlagen der Theoretischen Physik. Teil II. (German) [Foundations of theoretical physics. Part II] 91b:00003b
 Sherrington, David Complexity due to disorder and frustration. (see 91m:00034)
 (Tishchenko, S. V.) *see* Röpke, Gerd, 91j:82041
 Vázquez, Luis An elementary introduction to stochastic processes. 91b:82025
 Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 91b:81001
 (Zubarev, D. N.) *see* Röpke, Gerd, 91j:82041

82-02 Research exposition (monographs, survey articles)

- (Brewer, W. D.) *see* Flick, Eugen, 91m:82001
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 Glinzburg, S. L. ★ Необратимые явления в спинных стеклах. (Russian) [Irreversible phenomena in spin glasses] 91f:82001
 Grosberg, A. Yu. (with Khokhlov, A. R.) ★ Статистическая физика макромолекул. (Russian) [Statistical physics of macromolecules] 91f:82002
 Khokhlov, A. R. *see* Grosberg, A. Yu., 91f:82002
 Kondrat'ev, Aleksandr Sergeevich (with Kuchma, A. E.) ★ Лекции по теории квантовых жидкостей. (Russian) [Lectures in the theory of quantum fluids] 91k:82002
 Kuchma, A. E. *see* Kondrat'ev, Aleksandr Sergeevich, 91k:82002
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- Adler, Joan (with Meir, Yigal; Aharony, Amnon; Harria, A. B.; Klein, Lior) Low-concentration series in general dimension. (Not in MR)
 Aharony, Amnon *see* Adler, Joan; et al., (Not in MR)
 Albery, J. M. Monte Carlo simulations on and of two-dimensional dynamical lattices: a theoretical overview. (Not in MR)
 Altares, V. *see* Nicolis, G., (91c:82002)

- Au-Yang, Helen (with Perk, Jacques H. H.) Onsager's star-triangle equation: master key to integrability. 91e:82023
- Barrett, A. J. On the Domb-Joyce model for self-avoiding walks in the continuum. 91a:82079
- Baxter, Rodney James Solving models in statistical mechanics. 91j:82020
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- Botet, R. see Jullien, R., 91g:82058
- Bouchaud, Jean-Philippe (with Comtet, Alain; Georges, Antoine; Le Doussal, P.) Classical diffusion of a particle in a one-dimensional random force field. 91k:82047
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- Bourbonnais, Claude (with Caron, Laurent G.) Renormalization group approach to quasi-one-dimensional conductors. (Not in MR)
- Boyakov, Daniel (with Naón, C. M.) An introduction to conformal invariance in quantum field theory and statistical mechanics. 91k:81001
- Brenig, Wilhelm ★ Statistical theory of heat. 91e:82037
- Caron, Laurent G. see Bourbonnais, Claude, (Not in MR)
- Cercignani, Carlo ★ Mathematical methods in kinetic theory. 91k:82052
- Comtet, Alain see Bouchaud, Jean-Philippe; et al., 91k:82047
- Derrida, Bernard Dynamical phase transitions in spin models and automata. (see 91k:82003)
- Di Francesco, P. (with Zuber, J.-B.) $SU(N)$ lattice integrable models associated with graphs. 91k:82005
- Felderhof, B. Ubbo Hydrodynamics of suspensions. (see 91k:82003)
- Fisher, Michael Ellis see Liu, Andrea J., 91a:82021
- Georges, Antoine see Bouchaud, Jean-Philippe; et al., 91k:82047 and (Not in MR)
- (Gibbs, Josiah Willard) see Widom, B., (91j:00016)
- Grechany, O. A. ★ Стохастическая теория необратимых процессов. (Russian) [Stochastic theory of irreversible processes] 91k:82038
- Gutfreund, H. From statistical mechanics to neural networks and back. 91a:82053
- Harris, A. B. see Adler, Joan; et al., (Not in MR)
- Hata, Hiroki see Mori, Hazime; et al., 91k:82040a
- Havlin, Shlomo Transport in random correlated fields. (Not in MR)
- Horita, Takehiko see Mori, Hazime; et al., 91k:82040a
- Jensen, H. Højgaard see Smith, Henrik, 91k:82057
- Jones, Vaughan Frederick Randal Baxterization. 91m:82038
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- Julia, B. Statistical theory of numbers. 91k:11088
- Jullien, R. (with Botet, R.) ★ Aggregation and fractal aggregates. 91g:82058
- Kadanoff, Leo P. Scaling and universality in statistical physics. 91b:82023
- Klein, Lior see Adler, Joan; et al., (Not in MR)
- Knops, H. J. F. Conformal invariance. (see 91k:82003)
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- Kurbatov, A. M. see Bogolyubov, N. N., Jr.; et al., 91b:82066
- Le Doussal, P. see Bouchaud, Jean-Philippe; et al., 91k:82047
- Liu, Andrea J. (with Fisher, Michael Ellis) On the corrections to scaling in three-dimensional Ising models. 91a:82021
- Martin, J. L. The impact of large-scale computing on lattice statistics. 91a:82044
- McCauley, Joseph L. Introduction to multifractals in dynamical systems theory and fully developed fluid turbulence. 91k:82040b
- Meir, Vigal see Adler, Joan; et al., (Not in MR)
- Mézard, Marc (with Parisi, Giorgio; Virasoro, Miguel Angel) ★ Spin glass theory and beyond. 91k:82066
- Mori, Hazime (with Hata, Hiroki; Horita, Takehiko; Kobayashi, Tatsuharu) Statistical mechanics of dynamical systems. 91k:82040a
- Moussa, P. The Ising model and the Diophantine moment problem. 91k:82019
- Naón, C. M. see Boyakov, Daniel, 91b:81001
- Nechaev, S. K. Overview of polymer topology. (Not in MR)
- Nicollis, G. (with Altare, V.) Physics of nonequilibrium systems. (see 91e:82002)
- Parisi, Giorgio see Mézard, Marc; et al., 91k:82066
- (Pelcé, Pierre) see Dynamics of curved fronts, 91b:76002
- Peletinskii, S. V. see Bogolyubov, N. N., Jr.; et al., 91b:82066
- Perk, Jacques H. H. see Au-Yang, Helen, 91e:82023
- Rowlinson, J. S. Probability densities for some one-dimensional problems in statistical mechanics. (see 91e:00010)
- Shankar, Ramamurti Holes in a quantum antiferromagnet: a formalism and some exact results. 91e:82019
- Smith, Henrik (with Jensen, H. Højgaard) ★ Transport phenomena. 91k:82057
- Stella, A. L. (with Vanderzande, C.) Surface critical behaviour of some two-dimensional lattice models. (Not in MR)
- Tarasov, A. N. see Bogolyubov, N. N., Jr.; et al., 91b:82066
- Vanderzande, C. see Stella, A. L., (Not in MR)
- de Vega, H. J. Quantum groups (YBZF algebras), integrable field theories and statistical models. 91a:80093
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- Virasoro, Miguel Angel see Mézard, Marc; et al., 91k:82066
- Widom, B. Two ideas from Gibbs: the entropy inequality and the dividing surface. (see 91j:00016)
- Wieman, John C. AB percolation: a brief survey. (see 91k:95001)
- Zuber, J.-B. Conformal field theories, Coulomb gas picture and integrable models. 91c:82025
- see also Di Francesco, P., 91k:82005

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Dynamics of curved fronts ★ Dynamics of curved fronts. 91b:76002

82-03 Historical (must also be assigned at least one classification number from Section 01)

- Bach, Alexander Boltzmann's probability distribution of 1877. 91h:82001 (Boltzmann, Ludwig) see Bach, Alexander, 91h:82001
- Cohen, E. G. D. George E. Uhlenbeck and statistical mechanics. 91j:82001 (Uhlenbeck, George E.) see Cohen, E. G. D., 91j:82001
- Items with secondary classifications in 82-03
- Blackmore, John Ernst Mach leaves "The church of physics". 91b:83001 (Boltzmann, Ludwig) see Work of Ludwig Boltzmann from a scientific and philosophical point of view, 91g:01037
- Domb, Cyril Some reminiscences about my early career. 91h:01047 (Einstein, Albert) see Gearhart, Clayton A., 91i:01053 (Einstein, Wolfgang) see Work of Ludwig Boltzmann from a scientific and philosophical point of view, 91g:01037
- (Frankenholz, Moritz Ludwig) see Scholz, Erhard, 91e:01016
- Gearhart, Clayton A. Einstein before 1905: the early papers on statistical mechanics. 91i:01053 (Grassmann, Justus Günter) see Scholz, Erhard, 91e:01016 (Hally, R.-J.) see Scholz, Erhard, 91e:01016 (Hessel, Johann Friedrich Christian) see Scholz, Erhard, 91e:01016 Jordan, Pascual On quantum mechanics of the degeneration of a gas. (Russian) 91j:01067 (Kirschke, Siegfried) see Work of Ludwig Boltzmann from a scientific and philosophical point of view, 91g:01037 (Kozhevnikov, A. B.) see Jordan, Pascual, 91j:01067 Lorentz, Hendrik Antoon Statistical theory in thermodynamics. (Russian) 91j:01068 (Mach, Ernst) see Blackmore, John, 91b:83001 Scholz, Erhard The rise of symmetry concepts in the atomistic and dynamistic schools of crystallography, 1815-1830. (French summary) 91e:01016 (Weiss, Christian Samuel) see Scholz, Erhard, 91e:01016

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- Biography:
Boltzmann, Ludwig ★ Ludwig Boltzmanns Werk in naturwissenschaftlicher und philosophischer Sicht. (German) [The work of Ludwig Boltzmann from a scientific and philosophical point of view] 91g:01037
Ludwig Boltzmanns Werk in naturwissenschaftlicher und philosophischer Sicht ★ Ludwig Boltzmanns Werk in naturwissenschaftlicher und philosophischer Sicht. (German) [The work of Ludwig Boltzmann from a scientific and philosophical point of view] 91g:01037
Work of Ludwig Boltzmann from a scientific and philosophical point of view ★ Ludwig Boltzmanns Werk in naturwissenschaftlicher und philosophischer Sicht. (German) [The work of Ludwig Boltzmann from a scientific and philosophical point of view] 91g:01037

82-04 Explicit machine computation and programs (not the theory of computation or programming)

- Feldt, Ch. (with Kasperkovitz, P.) Systematic generation of linear graphs—check and extension of the list of Uhlenbeck and Ford. (Not in MR)
- Kadowaki, Shinji (with Ueda, Akira) A new Monte Carlo method for quantum spin systems. Technical details of the method. (Not in MR)
- Kasperkovitz, P. see Feldt, Ch., (Not in MR)
- Ueda, Akira² see Kadowaki, Shinji, (Not in MR)
- Items with secondary classifications in 82-04
- Abe, Ryuzo (with Dotera, Tomonari; Ogawa, Takeshi) Critical compressibility factor of two-dimensional lattice gas. Kagomé and diced lattices. 91m:82049
- de Alcantara Bonfim, O. F. Finite-size effects and phase transition in the three-dimensional three-state Potts model. (Not in MR)
- Alexander, Francis J. (with Lebowitz, Joel L.) Driven diffusive systems with a moving obstacle: a variation on the Brazil nuts problem. 91a:82078
- Baker, George A., Jr. (with Johnson, James Daniel) The border model in one dimension. (Not in MR)
- Ball, J. K. see Wood, D. W., 91d:82014
- Boldrighini, C. (with Cosimi, G. C.; Frigo, S.) Diffusion and Einstein relation for a massive particle in a one-dimensional free gas: numerical evidence. (Not in MR)
- Bouchaud, Jean-Philippe see Halia, J. P.; et al., (Not in MR)
- Bray, A. J. (with McKane, A. J.; Newman, T. J.) Path integrals and non-Markov processes. II. Escape rates and stationary distributions in the weak-noise limit. 91b:82033
- Brower, Richard C. see Tamayo, P.; et al., 91a:82065 and 91b:82045
- Bunimovich, L. A. (with Lambert, André; Lima, Ricardo) The emergence of coherent structures in coupled map lattices. (Not in MR)
- Butera, P. (with Comi, M.; Marchesini, Giuseppe) Classical $O(N)$ Heisenberg model: extended high-temperature series for two, three, and four dimensions. 91c:82011
- Casati, Giulio (with Molinari, Luca; Izrailiev, F. M.) Scaling properties of band random matrices. 91a:82002
- Comi, M. see Butera, P.; et al., 91c:82011
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- Cosimi, G. C. see Boldrighini, C.; et al., (Not in MR)
- Coulomb, Françoise Domain decomposition and mixed finite elements for the neutron diffusion equation. 91e:82048
- De Dominicis, Cyrano (with Kondor, I.) Contradictions in spin glass field theory and a possible way out. 91c:82074
- see also Goldschmidt, Yulia Y., 91a:82072
- Derrida, Bernard see Cook, Joanna, 91a:82040
- Dotera, Tomonari see Abe, Ryuzo; et al., 91m:82049
- Erdős, P. (with Guttmann, A. J.) On the area of square lattice polygons. (Not in MR)
- Falconi, Massimo (with Isola, Stefano; Vulpiani, Angelo) Correlation functions and relaxation properties in chaotic dynamics and statistical mechanics. 91b:82039

- Frahm, Holger (with Yu, Nai Chang) Finite-size effects in the integrable XXZ Heisenberg model with arbitrary spin. 91f:82015
- Frigio, S. see Boldrighini, C.; et al., (Not in MR)
- Georges, Antoine see Hulin, J. P.; et al., (Not in MR)
- Goldschmidt, Yadin Y. (with De Dominicis, Cyrano) Replica symmetry breaking in the spin-glass model on lattices with finite connectivity: application to graph partitioning. 91a:82072
- Guttmann, A. J. see Enting, I. G., (Not in MR)
- Handscumh, David Monte Carlo methods applied to quantum-mechanical order-disorder phenomena in crystals. (see 91e:00010)
- Henkel, M. (with Saleur, Hubert) Remarks on the mass spectrum on noncritical coset models from Toda theories. 91h:82011
- Hosoya, Masahiko Corrigendum: "A necessary and sufficient region to express a crystal-structure type uniquely as a point in a high-dimensional space" [J. Phys. A 19 (1986), no. 10, 1801-1810; MR 87j:82075]. (Not in MR)
- Hulin, J. P. (with Bouchaud, Jean-Philippe; Georges, Antoine) Strongly disordered chain of impedances: theoretical analysis and numerical results. (Not in MR)
- Isola, Stefano see Falcioni, Massimo; et al., 91h:82039
- Israel, F. M. see Casati, Giulio; et al., 91a:82002
- Janse van Rensburg, E. J. (with Whittington, S. G.; Madras, N.) The pivot algorithm and polygons: results on the FCC lattice. 91a:82003
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- Johnson, James Daniel see Baker, George A., Jr., (Not in MR)
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- Kondor, I. see De Dominicis, Cyrano, 91c:82074
- Lambert, André see Bunimovich, L. A.; et al., (Not in MR)
- Lebowitz, Joel L. see Alexander, Francis J., 91a:82078
- Lee, Koo-Chul A new efficient Monte Carlo technique. 91m:82071
- Li, Bin (with Sokal, Alan D.) High-precision Monte Carlo test of the conformal-invariance predictions for two-dimensional mutually avoiding walks. (Not in MR)
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- Lin, San Yih (with Yang, Yisong) Computation of superconductivity in thin films. 91g:82059
- Madras, N. see Janse van Rensburg, E. J.; et al., 91a:82003
- Maradudin, A. A. (with Michel, T.) The transverse correlation length for randomly rough surfaces. (Not in MR)
- Marchesini, Giuseppe see Butera, P.; et al., 91c:82011
- Martins, Márcio José Finite-size effects for nested Bethe ansatz equations: analytical and numerical results for $SU(N)$ and $O(2N)$ magnets. 91a:82023
- Central charge for integrable $O(2N)$ models. 91e:82030
- Critical properties of $U_q[SU(2)]$ -invariant spin-1 chain. (Not in MR)
- McKane, A. J. see Bray, A. J.; et al., 91h:82033
- Meiron, Daniel I. see Pokorsky, Martin; et al., 91a:82038
- Michel, T. see Maradudin, A. A., (Not in MR)
- Molinari, Luca see Casati, Giulio; et al., 91a:82002
- Nakayama, Tsuneyoshi see Yakubo, Kousuke, 91f:82039
- Narnhofer, Heide see Posch, H. A.; et al., 91j:82033
- Newman, Charles M. see Pokorsky, Martin; et al., 91a:82038
- Newman, T. J. see Bray, A. J.; et al., 91h:82033
- Ogawa, Takeshi see Abe, Ryuzo; et al., 91m:82049
- de Oliveira, Mário J. see Stüick, Jürgen F., 91m:82030
- Pismen, L. M. (with Rubinstein, Jacob) Motion of vortex lines in the Ginzburg-Landau model. (Not in MR)
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- Posch, H. A. (with Narnhofer, Heide; Thirring, W.) Dynamics of unstable systems. 91j:82033
- Prato, Domingo (with Tsallis, Constantino; Stanley, H. Eugene) Polychromatic majority model: criticality and real space renormalization group. 91a:82032
- Rubinstein, Jacob see Pismen, L. M., (Not in MR)
- Runkal, Mary Beth (with Stillinger, Frank H.) Convexity inequalities for estimating free energy and relative entropy. 91m:82014
- Saakyan, D. B. Numerical study of the two-dimensional Ising model with a p -adic coupling constant. 91h:82014
- Saleur, Hubert see Henkel, M., 91h:82011
- Schellnhuber, H. J. (with Urbach, H.; Wilbrink, Jacob) Simple extension of the Frenkel-Kontorova model: a different world. 91f:82024
- Sokal, Alan D. see Li, Bin, (Not in MR)
- Stanley, H. Eugene see Prato, Domingo; et al., 91a:82032
- Stüick, Jürgen F. (with de Oliveira, Mário J.) Entropy of flexible chains placed on Bethe and Husimi lattices. 91m:82030
- Stillinger, Frank H. see Runkal, Mary Beth, 91m:82014
- Summers, De Witt (with Whittington, S. G.) Detecting knots in self-avoiding walks. Comment on: "Knottedness in self-avoiding walks" [J. Phys. A 22 (1989), no. 13, L605-L608; MR 90h:82056] by S. Windwer. 91h:82025
- Tamayo, P. (with Brower, Richard C.; Klein, William) Single-cluster Monte Carlo dynamics for the Ising model. 91a:82045
- (with Brower, Richard C.; Klein, William) Addendum: "Single-cluster Monte Carlo dynamics for the Ising model" [J. Statist. Phys. 58 (1990), no. 5-6, 1083-1094; MR 91a:82065]. 91h:82045
- Thirring, W. see Posch, H. A.; et al., 91j:82033
- Torquato, Sal Random heterogeneous media: microstructure and improved bounds on effective properties. 91k:82070
- Tsallis, Constantino see Prato, Domingo; et al., 91a:82032
- Urbach, H. see Schellnhuber, H. J.; et al., 91f:82024
- Volpiani, Angelo see Falcioni, Massimo; et al., 91h:82039
- Wang, D. M. (with Wong, K. W.) A study of order to order phase transition. 91f:82030
- Whittington, S. G. see Janse van Rensburg, E. J.; et al., 91a:82003; 91f:82076 and Summers, De Witt, 91h:82025
- Wilbrink, Jacob see Schellnhuber, H. J.; et al., 91f:82024
- (Windwer, Stanley) see Summers, De Witt, 91h:82025
- Wong, K. W. see Wang, D. M., 91f:82030
- Wood, D. W. (with Ball, J. K.) On a point of order. 91d:82014
- Yakubo, Kousuke (with Nakayama, Tsuneyoshi) Dynamics of fractals. (Japanese. English summary) 91f:82039
- Yang, Yisong see Lin, San Yih, 91g:82059
- Yu, Nai Chang see Frahm, Holger, 91f:82015

82-06 Proceedings, conferences, collections, etc.

- (Barber, Michael N.) see Proceedings: Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory, (Not in MR)
- (van Beijeren, H.) see Fundamental problems in statistical mechanics, 91k:82003
- (Caglioti, G.) see Synergetics and dynamic instabilities, 91e:82002
- (Fannes, M.) see Mathematical methods in statistical mechanics, 91a:82001
- (Haken, Hermann) see Synergetics and dynamic instabilities, 91e:82002
- (Jimbo, Michio) see Yang-Baxter equation in integrable systems, 91e:82003
- (Kawasaki, Kyozi) see Complex dynamics in nonlinear systems, 91h:82001
- (Kuramoto, Yoshiki) see Complex dynamics in nonlinear systems, 91h:82001
- (Lagato, L. A.) see Synergetics and dynamic instabilities, 91e:82002
- (Moore, Gerald T.) see Frontiers of nonequilibrium statistical physics, 91m:82002
- (Okamoto, Hisao) see Complex dynamics in nonlinear systems, 91h:82001
- (Pearce, Paul A.) see Proceedings: Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory, (Not in MR)
- (Scully, Marian O.) see Frontiers of nonequilibrium statistical physics, 91m:82002
- (Struminskii, V. V.) see Molecular gas dynamics and the mechanics of nonhomogeneous media, 91e:82001
- (Verbeure, A.) see Mathematical methods in statistical mechanics, 91a:82001
- Items listed otherwise than by author
- AB-Union Conference:
- Kinetic Theory of Rarefied and Dense Gas Mixtures and the Mechanics of Nonhomogeneous Media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001
- Altenberg ★ Fundamental problems in statistical mechanics. VII. 91k:82003
- Canberra ★ Proceedings of the Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory. (Not in MR)
- Complex dynamics in nonlinear systems ★ Complex dynamics in nonlinear systems. 91h:82001
- Conference:
- Mathematical Methods in Statistical Mechanics ★ Mathematical methods in statistical mechanics. 91a:82001
- Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory ★ Proceedings of the Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory. (Not in MR)
- Frontiers of nonequilibrium statistical physics ★ Frontiers of nonequilibrium statistical physics. 91m:82002
- Fundamental problems in statistical mechanics ★ Fundamental problems in statistical mechanics. VII. 91k:82003
- Leningrad ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] 91e:82001
- Leuven ★ Mathematical methods in statistical mechanics. 91a:82001
- Mathematical methods in statistical mechanics ★ Mathematical methods in statistical mechanics. 91a:82001
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- NATO Advanced Study Institute:
- Frontiers of Nonequilibrium Statistical Physics ★ Frontiers of nonequilibrium statistical physics. 91m:82002
- Proceedings:
- Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory ★ Proceedings of the Conference on Yang-Baxter Equations, Conformal Invariance and Integrability in Statistical Mechanics and Field Theory. (Not in MR)
- Proceedings of the International School of Physics "Enrico Fermi" ★ Synergetics and dynamic instabilities. 91e:82002
- Santa Fe, NM ★ Frontiers of nonequilibrium statistical physics. 91m:82002
- School:
- Fundamental Problems in Statistical Mechanics ★ Fundamental problems in statistical mechanics. VII. 91k:82003
- Synergetics and Dynamic Instabilities ★ Synergetics and dynamic instabilities. 91e:82002
- Synergetics and dynamic instabilities ★ Synergetics and dynamic instabilities. 91e:82002
- Varena ★ Synergetics and dynamic instabilities. 91e:82002
- Yang-Baxter equation in integrable systems ★ Yang-Baxter equation in integrable systems. 91e:82003
- Items with secondary classifications in 82-06
- (Brézin, Édouard) see Fields, strings and critical phenomena, 91h:81003
- (Fainberg, V. Ya.) see Problems in theoretical physics and astrophysics, 91f:00013
- (Ferraz de Camargo, F. A.) see Nonlinear physical phenomena, 91f:00022
- (Garrido, Luis) see Statistical mechanics of neural networks, 91h:82018
- (Ginzburg, V. L.) see Problems in theoretical physics and astrophysics, 91f:00013
- (Grimmett, Geoffrey) see Disorder in physical systems, 91e:00010
- (Hammersley, John M.) see Disorder in physical systems, 91e:00010
- (Keldysh, L. V.) see Problems in theoretical physics and astrophysics, 91f:00013
- (Kirchglassner, Klaus) see Problems involving change of type, 91h:35001
- (Maugin, Gérard A.) see Continuum models and discrete systems, 91m:00029 and 91m:00030

- (Oliveira, Fernando) *see* Nonlinear physical phenomena, 91i:00022
 (Osorio, R.) *see* Nonlinear physical phenomena, 91i:00022
 (Welsh, D. J. A.) *see* Disorder in physical systems, 91e:00010
 (Zinn-Justin, J.) *see* Fields, strings and critical phenomena, 91b:81003

Items listed otherwise than by author

Birthdays:

- Ginzburg, V. L. ★ Проблемы теоретической физики и астрофизики. (Russian)
 [Problems in theoretical physics and astrophysics] 91f:00013
 Hammersley, J. M. ★ Disorder in physical systems. 91e:00010

Brasilia ★ Nonlinear physical phenomena. 91i:00022

Champs, cordes et phénomènes critiques ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Conference:

- Problems Involving Change of Type ★ Problems involving change of type. 91b:35001
 Statistical Mechanics of Neural Networks ★ Statistical mechanics of neural networks. 91i:82018

Continuum models and discrete systems ★ Continuum models and discrete systems. Vol. 1. 91m:00029

— ★ Continuum models and discrete systems. Vol. 2. 91m:00030

Dijon ★ Continuum models and discrete systems. Vol. 1. 91m:00029

— ★ Continuum models and discrete systems. Vol. 2. 91m:00030

Disorder in physical systems ★ Disorder in physical systems. 91e:00010

Fields, strings and critical phenomena ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Lecture Notes in Physics ★ Problems involving change of type. 91b:35001

— ★ Statistical mechanics of neural networks. 91i:82018

— ★ Statistical mechanics of neural networks. 91i:82018

Les Houches ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Nonlinear physical phenomena ★ Nonlinear physical phenomena. 91i:00022

Problems in theoretical physics and astrophysics ★ Проблемы теоретической физики и астрофизики. (Russian) [Problems in theoretical physics and astrophysics] 91f:00013

Problems involving change of type ★ Problems involving change of type. 91b:35001

Proceedings:

International Centre of Condensed Matter Physics School on Nonlinear Physical Phenomena ★ Nonlinear physical phenomena. 91i:00022

School:

Nonlinear Physical Phenomena ★ Nonlinear physical phenomena. 91i:00022

Theoretical Physics ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003

Sites ★ Statistical mechanics of neural networks. 91i:82018

Statistical mechanics of neural networks ★ Statistical mechanics of neural networks. 91i:82018

Stuttgart ★ Problems involving change of type. 91b:35001

Symposium:

Continuum Models and Discrete Systems ★ Continuum models and discrete systems. Vol. 1. 91m:00029

— ★ Continuum models and discrete systems. Vol. 2. 91m:00030

82-08 Computational methods

- Bourgat, Jean-François (with Glowinski, Roland; Le Tallec, Patrick; Palmier, Jean-François) The periodic Boltzmann semiconductor equation. (see 91m:00026)
 Brebbia, C. A. *see* Itagaki, M. (91b:00042)
 Casati, Giulio (with Molinari, Luca; Izrailev, F. M.) Scaling properties of band random matrices. 91a:82002
 Degond, Pierre (with Raviart, P.-A.) On the numerical simulation of the kinetic equations of physics. (see 91b:00050)
 Glowinski, Roland *see* Bourgat, Jean-François; et al. (91m:00026)
 Itagaki, M. (with Brebbia, C. A.) Boundary element method applied to neutron diffusion problems. (see 91b:00042)
 Ivanov, V. Ya. A method for analyzing three-dimensional non-steady-state particle flows. (Russian) 91d:82002
 Izrailev, F. M. *see* Casati, Giulio; et al. 91a:82002
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82A30 Statistical thermodynamics [see also 80-XX] (1985)

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82A31 Stochastic methods (1985)

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82A40 Kinetic theory of gases (1985)

- Balabanyan, G. O. Construction of generalized hydrodynamical asymptotics of classical equilibrium correlated Green functions on the basis of the kinetic Boltzmann equation. (Not in MR)
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- Bouchaud, Jean-Philippe *see* Hullin, J. P.; et al., (Not in MR)
 Duplantier, Bertrand Conformal invariance self-avoiding walks in the plane or on a random surface. (*see* 91b:81003)
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82A43 Percolation (1985)

- Adler, Joan (with Meir, Yigal; Aharony, Amnon; Harris, A. B.; Klein, Lior) Low-concentration series in general dimension. (Not in MR)
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82A50 Liquids (1985)

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- Beldjenna, A. (with Rudnick, J.; Gaspari, G.) The shapes of random walks with fixed end-to-end distance. (*see* 91e:00028)
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- Engelisch, Harald (with Herrmann, Michael) Limit behaviour in the Hopfield model. (*see* 91b:00039)
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82A60 Crystals {For crystallographic group theory, *see* 20H15.} (1985)

- Behsung, J. (with Trebin, Hans-Rainer) Defects in quasicrystals. (*see* 91a:52030)
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82A67 Lattice statistics (1985)

- Eiting, I. G. (with Guttman, A. J.) On the area of square lattice polygons. (Not in MR)
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82A68 Lattice models (1985)

- Baker, George A., Jr. (with Johnson, James Daniel) The border model in one dimension. (Not in MR)
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82Bxx Equilibrium statistical mechanics

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- Choi, Chi Hoon (with Kim, Woo Chul; Jeon, Jong Woo) A central limit theorem in a mean field model. 91a:60272
- Dobrushin, R. L. Analyticity condition of Gibbs fields. 91b:60080
- Duplantier, Bertrand Areas of planar Brownian curves. 91a:60209a
- Figotin, A. L. (with Pastur, L. A.) Schrödinger operator with a nonlocal potential whose absolutely continuous and point spectra coexist. 91m:35168
- Fröhlich, Jörg (with Struwe, Michael) Variational problems on vector bundles. 91g:58067
- Gilb, Tepper L. (with Zachary, Woodford W.) Existence and finite-dimensionality of universal attractors for the Landau-Lifschitz equations of ferromagnetism. 91d:58229
- Goldshtein, B. G. (with Goldstein, M. Sh.) A central limit theorem for distribution of the action of a random potential. (Russian) 91d:60147
- Goldshtein, M. Sh. see Goldstein, B. G., 91d:60147
- Goutsias, John K. Mutually compatible Gibbs random fields. 91b:60277
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- Gruber, Christian see Söth, András; et al., 91c:82031
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- Haake, Fritz see Lenz, Georg, 91g:81022
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- Higuchi, Yasumari A remark on the percolation for the 2D Ising model. 91c:60143
- Ignatyuk, I. A. (with Malyshev, V. A.) Cluster expansion for locally interacting Markov chains. (Russian) 91f:60187
- Jeon, Jong Woo see Choi, Chi Hoon; et al., 91a:60272
- Kim, Woo Chul see Choi, Chi Hoon; et al., 91a:60272
- Klein, Abel (with Speis, Athanasios) Regularity of the invariant measure and of the density of states in the one-dimensional Anderson model. 91b:47074
- Lemberger, Pirmin see Söth, András; et al., 91c:82031
- Lenz, Georg (with Haake, Fritz) Transitions between universality classes of random matrices. 91g:81022
- Li, You Quan see Li, Jing Fa, 91d:58099
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- Malyshev, V. A. see Ignatyuk, I. A., 91f:60187
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- Pastur, L. A. see Figotin, A. L., 91m:35168
- Pearce, Paul A. see Seston, Katherine A., 91c:82023
- Picco, Pierre see Olivieri, Enzo, 91c:82017
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- Reuter, M. see Gozi, E., 91c:70044
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- Schmuck, Uwe see Bolthausen, Erwin, 91c:60081
- Seston, Katherine A. (with Pearce, Paul A.) Partial order in the self-dual Ashkin-Teller model. 91c:82023
- Sierwood, J. D. see Barlow, Martin T.; et al., 91a:28007
- Sinai, Ya. G. Limit theorems for multiple trigonometric Weyl sums. (Russian) 91a:11092
- Speis, Athanasios see Klein, Abel, 91b:47074
- Struwe, Michael see Fröhlich, Jörg, 91g:58067
- Söth, András (with Gruber, Christian; Lemberger, Pirmin) Phase diagrams of lattice systems with residual entropy. II. Low temperature expansion. 91c:82031
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- Tkachenko, V. I. Splittability and the spectrum of a linear differential equation with quasiperiodic coefficients. 91m:34109
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- Wagner, H. J. see Requardt, M., 91m:82139
- Williams, David Brownian motion and the Riemann zeta-function. 91b:60094
- Yor, Marc On stochastic areas and averages of planar Brownian motion. 91a:60209b
- Zachary, Woodford W. see Gilb, Tepper L., 91d:58229
- Zegarliński, Bogusław Log-Sobolev inequalities for infinite one-dimensional lattice systems. 91g:82023
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- Müller, Werner¹ see Hogreve, H.; et al., 91m:82011
- Nakano, Yoshimasa see Mancini, F.; et al., 91k:82010
- Ólafsson, Sverrir see Bullough, R. K.; et al., 91c:82006
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- Solovej, Jan Philip see Conlon, Joseph G., 91m:82008
- Stillinger, Frank H. see Ruskai, Mary Beth, 91m:82014
- Thirring, W. Entropy increase and K -systems in quantum theory. 91k:82012
- Timonen, J. see Bullough, R. K.; et al., 91c:82006
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- Accardi, Luigi (with Frigerio, Alberto; Gang, Lu Yun) On the weak coupling limit problem. 91b:81056
- Alastuey, A. (with Martin, Philippe André¹) Absence of exponential clustering in quantum Coulomb fluids. 91b:82056
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- On causal disjointness relations and causal nets of algebras on the lattice Z^{*+1} . (German

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 Bogolyubov, N. N. (with Bogolyubov, N. N., Jr.) ★ Some aspects of polaron theory. 91b:81194
 Bogolyubov, N. N., Jr. see Bogolyubov, N. N., 91b:81194
 (Boltzmann, Ludwig) see Bach, Alexander, 91b:82001
 Bourbonnais, Claude (with Caron, Laurent G.) Renormalization group approach to quasi-one-dimensional conductors. (Not in MR)
 Bovier, Anton The density of states in the Anderson model at weak disorder: a renormalization group analysis of the hierarchical model. 91m:82063
 Caron, Laurent G. see Bourbonnais, Claude, (Not in MR)
 Cartier, Pierre A course on determinants. 91a:58200
 Chentsov, N. N. see Morozova, E. A., 91j:46077
 Dasgupta, Ratan (with Roy, Sisir) Quantum statistics, distinguishability and random trajectories. 91k:81016
 Donald, Matthew J. Relative Hamiltonians which are not bounded from above. 91g:46070
 Dorlas, T. C. see Van den Berg, Michiel; et al., 91c:82037
 Frigerio, Alberto see Accardi, Luigi; et al., 91b:81056
 Galetti, D. see Mizrahi, S. S., 91d:81166
 Gang, Lu Yun see Accardi, Luigi; et al., 91b:81056
 Gelfand, Martin P. (with Singh, Rajiv R. P.; Huse, David A.) Perturbation expansions for quantum many-body systems. 91j:81109
 Goldstein, Jerome A. Some recent developments in Thomas-Fermi theory. (see 91k:35001)
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 Hou, Bo Yu see Wei, Hua; et al., 91c:82024
 Hudetz, Thomas Algebraic topological entropies. 91m:46105
 Huse, David A. see Gelfand, Martin P.; et al., 91j:81109
 Jaffe, Arthur M. Mathematics motivated by physics. 91m:81002
 Jones, Vaughan Frederick Randal Notes on subfactors and statistical mechanics. 91g:46073
 Kheleva, A. S. Conditionally positive-definite functions in quantum probability theory. (Russian) 91i:46075
 Kim, Y. S. see Han, Daesoo; et al., 91k:81063
 Krishna, M. Anderson model with decaying randomness existence of extended states. 91m:82069
 Lakshmanan, M. On the higher-order deformed Heisenberg spin equation as an exactly solvable dynamical system. 91g:82025
 Lewis, John Trevor see Van den Berg, Michiel; et al., 91c:82037
 Lieb, Elliott H. The stability of matter: from atoms to stars. 91f:81002
 Lin, Zhi Fang (with Tao, Rui Bao) Quantum Ising model on Thue-Morse aperiodic chain. 91m:82026
 Markowich, Peter A. see Arnold, Anton, 91h:35267
 Martin, Philippe André¹ see Alastuey, A., 91b:82056
 Martins, Márcio José see Alcaraz, Francisco Castillo, 91e:82009
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 Morozova, E. A. (with Chentsov, N. N.) Markov invariant geometry on state manifolds. (Russian) 91j:46077
 Morrison, Harry L. see Spiliotopoulos, Achilles D., 91f:81262
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 Pulé, J. V. see Van den Berg, Michiel; et al., 91c:82037
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 Thirring, W. see Narnhofer, Heide, 91f:46089
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 Woynarovich, F. see de Vega, H. J., 91j:82018
 Zhou, Yu Kui see Wei, Hua; et al., 91c:82024

82B20 Lattice systems (Ising, dimer, Potts, etc.)

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 Bishop, Alan R. see Schmeltzer, D., 91a:82024
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 Bugrii, G. V. see Bugrii, A. I., 91m:82016
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- Essam, J. W. see de Magalhães, A. C. N., 91c:82020
- Fisher, Michael Ellis see Liu, Andrea J., 91a:82021
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- Odagaki, Takashi see Aoyama, Hideaki, (Not in MR)
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- Park, Hyungyu see Li, Wei Xiong; et al., 91h:82016
- Pashaev, O. K. see Makhan'kov, V. G., 91h:82012
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- Pastur, L. A. see Khoruzhenko, B. A.; et al., 91c:82017
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- Pimpinelli, Alberto see Casti, Davide, 91m:82017
- Pogonyan, S. K. see Arzumanyan, V. A.; et al., 91c:82009
- Priezzher, V. B. see Brankov, I. G., (Not in MR) and Litvin, A. A., 91h:82017
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- Zhou, Yu Kui see Wei, Hua; et al., 91c:82024
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- Gross, David J. (with Klebanov, Igor R.) One-dimensional string theory on a circle. 91k:81130
- Gruber, Christian see Sütő, András; et al., 91c:82031
- Guez, Claude see Mayer, Jean-Marc; et al., 91d:05065
- Gutkin, Eugene see Babbitt, Donald G., 91g:82003
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- Lallemant, P. see d'Humières, D.; et al., 91k:76064
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- Lemberger, Pirmin see Sütő, András; et al., 91c:82031
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- Mann, J. Adin, Jr. see Ycart, Bernard; et al., 91h:65017
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- Miwa, Tetsuji see Date, Etsuro; et al., 91a:82028 and 91e:82026
- Molchanov, S. A. see Ignatyuk, I. A.; et al., 91m:60188
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- Okado, Masato see Date, Etsuro; et al., 91a:82028
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- Reazor, S. see Ycart, Bernard; et al., 91h:65017
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- Sasai, Yuji see Kodaira, Jiro; et al., 91b:81132
- Sato, Harutada see Kodaira, Jiro; et al., 91b:81132
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- Shapir, Jonathan see Blum, Thomas, 91e:82025

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- Sinai, Ya. G. *see* Series, Caroline, 91b:82006
- Slade, Gordon *see* Hara, Takashi, 91m:82057
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- Tsallis, Constantino *see* Prato, Domingo; et al., 91a:82032
- Tsytlin, A. A. (with West, Peter C.) Two remarks on chiral scalars. 91d:81059
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- Xue, Kang *see* Ge, Mo Lin; et al., 91f:82025
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- Yamamoto, Takao *see* Suzuki, Junji; et al., 91b:82021
- Yang, Guo Xiang *see* Zhang, De Gang, 91g:58137
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82B21 Continuum models (systems of particles, etc.)

- Carmesin, H.-O. (with Fan, Yizhong) A one-dimensional model for crystallisation. 91m:82032
- Fan, Yizhong *see* Carmesin, H.-O., 91m:82032
- Kiesling, Michael K.-H. A complementary thermodynamic limit for classical Coulomb matter. 91k:82022
- Schellnhuber, H. J. (with Urbach, H.; Wilbrink, Jacob) Simple extension of the Frenkel-Kontorova model: a different world. 91f:82024
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82B23 Exactly solvable models

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- Akhayan, A. Z. *see* Ananikyan, N. S., 91m:82033
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- An-Yang, Helen (with Perk, Jacques H. H.) Onsager's star-triangle equation: master key to integrability. 91e:82023

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- Barber, Michael N. *see* Batchelor, Murray T., 91c:82026
- Batchelor, Murray T. (with Barber, Michael N.) Spin- s quantum chains and Temperley-Lieb algebras. 91c:82026
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- Meyer, David A. *see* Hasslacher, Brosl, 91m:82035
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- Piao, Fan *see* Ge, Mo Lin; et al., 91f:82025
- Quispel, G. R. W. *see* Baxter, Rodney James, 91e:82024
- Richey, Matthew P. (with Tracy, Craig A.) Algorithms for the computation of polynomial relationships for the hard hexagon model. 91e:82029
- Ruján, Pál *see* Hansel, David; et al., 91k:82025
- Saleur, Hubert Quantum osp(1, 2) and solutions of the graded Yang-Baxter equation. 91m:82041
- Shapir, Yonathan *see* Blum, Thomas, 91e:82025
- Smith, Edgar Roderick *see* Morrow, T. J., (Not in MR)
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- Viallet, C.-M. *see* Avan, J.; et al., 91m:82034
- Wu, F. Y. *see* Lin, K'è Ying, 91c:82028
- Xue, Kang *see* Ge, Mo Lin; et al., 91f:82025
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Items with secondary classifications in 82B23

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- see also Wei, Hui; et al., 91c:82024
- Ito, Katsushi see Deguchi, Tetsuo; et al., 91j:17015
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- Kauffman, Louis H. Knot polynomials and Yang-Baxter models. 91d:57005
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- Kohno, Toshihiko Monodromy representations of braid groups. (Japanese) 91c:57010
- Korepin, V. E. see Bogolyubov, N. M., 91h:82052
- Kosevich, A. M. (with Kovalev, A. S.) ★ Введение в нелинейную физическую механику. (Russian) [Introduction to nonlinear physical mechanics] 91h:58051
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- Quantum and classical Yang-Baxter equations. 91g:58117
- Kostov, Ivan K. see Duplantier, Bertrand, 91m:82056
- Kovalev, A. S. see Kosevich, A. M., 91h:58051
- Kulish, P. P. A two-parameter quantum group and a gauge transformation. (Russian. English summary) 91j:81029
- Kuniba, Atsuo see Date, Etsuro; et al., 91g:17028
- Kupersmidt, Boris A. (with Mathieu, Pierre) Quantum Korteweg-de Vries like equations and perturbed conformal field theories. 91a:81191
- Kuznetsov, V. B. (with Tsyganov, A. V.) Infinite series of Lie algebras and boundary conditions for integrable systems. (Russian. English summary) 91c:58047
- Lawler, Gregory F. see Burdzy, Krzysztof, 91a:60271
- Lev, B. I. see Belotskii, E. D., 91j:82010
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- Li, Yu Quan see Ge, Mo Lin; et al., 91e:57013; 91h:81141 and 91j:17016
- Lisyanski, A. A. see Ivanchenko, Yu. M.; et al., 91a:82029
- Lukyanov, S. L. (with Fateev, V. A.) Exactly soluble models of conformal quantum field theory associated with the simple Lie algebra D_n . 91g:81143
- Ma, Zhong Qi Representations of the braid group obtained from quantum $sl(3)$ enveloping algebra. 91h:17022
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- Maillard, Jean-Marie see Avan, J.; et al., 91h:58054
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- Mathieu, Pierre see Kupersmidt, Boris A., 91a:81191
- Matveev, V. B. (with Smirnov, A. O.) Some comments on the solvable chiral Potts model. 91e:82021
- McCoy, Barry M. see Itoyama, Hiroshi; et al., 91d:82045
- Miwa, Tetsuji see Date, Etsuro; et al., 91g:17028
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 Niedermaier, M. *see* Duncan, Anthony; et al., 91g:81134
 Nijhoff, F. W. *see* Maillet, Jean-Michel, 91e:17010
 Nomura, Masao Yang-Baxter relations in terms of n -j symbols of $su_q(2)$ algebra. 91d:81046
 Ocneanu, Adrian Quantized groups, string algebras and Galois theory for algebras. 91k:46068
 Okado, Masato *see* Date, Etsuro; et al., 91g:17028
 Oleinik, V. L. Asymptotic behavior of energy band associated with a negative energy level. 91h:82050
 Palmer, John (with Tracy, Craig A.) Monodromy preserving deformation of the Dirac operator acting on the hyperbolic plane. 91m:81264
 Pang, Gen Di (with Pu, Fu Ke; Zhao, Bao Heng) Norms of Bethe wave functions for the nonlinear Schrödinger model of spin-1/2 particles. 91f:81223
 Parshall, Brian J. (with Wang, Jian Pan) Quantum linear groups. 91g:16028
 Pashaev, O. K. *see* Makhan'kov, V. G., 91b:82012
 Pasquier, V. *see* Bernard, Denis, 91k:82015
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 Perk, Jacques H. H. *see* Itoyama, Hiroshi; et al., 91d:82045 and Baxter, Rodney James; et al., 91j:82009
 Ponzo, G. *see* Caselle, M., 91h:81136
 Pu, Fu Ke (with Sattinger, D. H.) The Yang-Baxter equations and differential identities. 91a:58087
 — *see also* Pang, Gen Di; et al., 91f:81223
 Reshetikhin, N. Yu. *see* Moore, Gregory W., 91c:81145 and Bazhanov, V. V., 91d:82007
 Rittenberg, V. *see* Baranowski, D., 91e:82010 and Grimm, Uwe, 91g:82012
 Roberts, Patrick Modular invariance of minimal models from self-dual lattices. 91j:81084
 Rosinberg, M. L. *see* Forrester, P. J., 91h:82009
 Saitoh, Yoshihiro (with Sakai, Norisuke; Yugami, Nobuhiro) Bosonic constructions of W_3 algebra. 91k:81058
 Sakai, Norisuke *see* Saitoh, Yoshihiro; et al., 91k:81058
 Saleur, Hubert Zeros of chromatic polynomials: a new approach to Beraha conjecture using quantum groups. 91k:17014
 Sasai, Yuji *see* Kodaira, Jiro; et al., 91b:81132 and 91g:81142
 Sato, Harutada *see* Kodaira, Jiro; et al., 91b:81132 and 91g:81142
 Sattinger, D. H. *see* Pu, Fu Ke, 91a:58087
 Seaton, Katherine A. (with Pearce, Paul A.) Partial order in the self-dual Ashkin-Teller model. 91c:82023
 Sénéor, Roland On V. Pasquier A-D-E models. 91d:81137
 Smirnov, A. O. *see* Matveev, V. B., 91c:82021
 Sun, Chang Pu *see* Ge, Mo Lin; et al., 91h:28036
 Suzuki, Junji (with Yamamoto, Takao; Akutsu, Yasuhiro) Universal quantization of curvature jump at the roughening transition. 91h:82021
 Suzuki, Masao Canonical series of exactly solvable models for the CAM. Spontaneous broken symmetry of effective Hamiltonians based on the confluent transfer-matrix method. 91g:82021
 Talon, M. *see* Avan, J.; et al., 91h:58054
 Tang, Kun Fa The free-fermion approximate solution to a Kagomé-lattice mixed-spin model. (Chinese. English summary) 91a:82026
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 Tracy, Craig A. *see* Palmer, John, 91m:81264
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 de Vega, H. J. Quantum groups (YBZF algebras), integrable field theories and statistical models. 91a:58093
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 Viallet, C.-M. *see* Babelon, O., 91m:58072
 Wadati, Miki *see* Deguchi, Tetsuo; et al., 91g:57003
 Wang, Jian Pan *see* Parshall, Brian J., 91f:16028
 Wang, Lu Yu *see* Ge, Mo Lin; et al., 91h:28036 and 91j:17016
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 Woyanovich, F. *see* de Vega, H. J., 91j:82018
 Xue, Kang *see* Ge, Mo Lin, 91c:20051; 91c:57013; 91h:81141; 91h:28036 and 91j:17016
 Yamamoto, Takao *see* Suzuki, Junji; et al., 91h:82021
 Yang, Chen Ning *see* Ge, Chao Hao, 91a:82018
 Yugami, Nobuhiro *see* Saitoh, Yoshihiro; et al., 91k:81058
 Yui, Noriko *see* Choi, Man Duen; et al., 91b:46067
 Zhang, R. B. *see* Bruckner, A. J.; et al., 91e:17008
 Zhao, Bao Heng *see* Pang, Gen Di; et al., 91f:81223
 Zhao, Hong Kang *see* Ge, Mo Lin; et al., 91h:82010
 Zhou, Huan Qiang *see* Jiang, Lin Jie, 91h:82012
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 — *see also* Di Francesco, P., 91h:82005

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82B24 Interface problems

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 Akutsu, Yasuhiro *see* Suzuki, Junji; et al., 91h:82021
 Caginap, G. A microscopic derivation of macroscopic sharp interface problems involving phase transitions. 91k:82027
 Clarke, A. S. *see* Widom, B., 91m:82044
 Collet, P. *see* Abraham, D. B.; et al., 91m:82042
 De Coninck, Joël *see* Abraham, D. B.; et al., 91m:82042
 Dunlop, François (with Lasnait, Lahoussine; Messenger, Alain; Miracle-Solé, Salvador; Ruiz, Jean Francois Alexandre) Multilayer wetting in partially symmetric q-state models. 91k:82028
 — *see also* Abraham, D. B.; et al., 91m:82042
 Fisher, Michael Ellis *see* Ko, Lee-Fen, 91h:82020
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 Lasnait, Lahoussine *see* Dunlop, François; et al., 91k:82028
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 Ruiz, Jean Francois Alexandre *see* Dunlop, François; et al., 91k:82028
 Smith, Edgar Roderick Zeros of the finite-size scaling region partition function for a model with a wetting transition. 91m:82043
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 Yamamoto, Takao *see* Suzuki, Junji; et al., 91h:82021
 Zhang, Michael Qiwei Zero-thickness membrane interface and Schrödinger equation. 91m:82045

Items with secondary classifications in 82B24

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 Alvarez-Estrada, R. F. Quantum diffractive reflection by a periodic nonpenetrable surface: a multiple scattering approach. 91m:81315
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 Dunlop, François *see* De Coninck, Joël; et al., 91m:82055
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82B26 Phase transitions (general)

- Alexanian, Moorad (with Sanders, Frank C.) Equation of state for hard disks and spheres: the Kirkwood transition. 91f:82028
 Berger, Toby (with Ye, Zhong Xing) Cardinality of phase transition of Ising models on closed Cayley trees. 91m:82046
 Borgs, Christian (with Kotecký, Roman) A rigorous theory of finite-size scaling at first-order phase transitions. 91k:82029
 Buckingham, Michael Joslin *see* Inayat-Hussain, A. A., 91f:82029
 Filippov, A. E. *see* Ivanchenko, Yu. M.; et al., 91a:82029
 Fisher, Michael Ellis (with Singh, Rajiv R. P.) Critical points, large-dimensionality expansions, and the Ising spin glass. 91j:82021
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 Galte, J. A. Phase transitions at catastrophes: the tricritical point. 91j:82022
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 Kosterlitz, J. M. *see* Lee, Jooyoung, 91m:82047
 Kotecký, Roman *see* Borgs, Christian, 91k:82029
 Lee, Jooyoung (with Kosterlitz, J. M.) New numerical method to study phase transitions. 91m:82047
 Lemberger, Pirmin *see* Sós, András; et al., 91c:82031
 Lisianskii, A. A. *see* Ivanchenko, Yu. M.; et al., 91a:82029
 Lopes, Artur O. A first-order level-2 phase transition in thermodynamic formalism. 91k:82030
 Majumdar, S. N. An ideal polymer chain in arbitrary dimensions near an attractive site. 91m:82048
 Mukamel, David *see* Jaric, Marko V., 91c:82030
 Park, Hyunggyu (with Widom, Mike) Conformal invariance in incommensurate phases. (Not in MR)
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 Rudnick, J. *see* Privman, V., (Not in MR)
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 Singh, Rajiv R. P. *see* Fisher, Michael Ellis, 91j:82021
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 Widom, Mike see Park, Hyungyu. (Not in MR)
 Wong, K. W. see Wang, D. M. 91f:82030
 Ye, Zhong Xing see Berger, Toby. 91m:82046
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Items with secondary classifications in 82B26

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 Fröhlich, Jörg see Borgs, Christian; et al. 91h:81108
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 Goulart Rosa, S., Jr. see de Aguiar, F. S. et al. 91e:82008 and (91i:00022)
 Guttman, A. J. see Brak, R. 91h:82016
 Halperin, Bertrand L. see Chen, Yi-Hong; et al. 91f:82075
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 Huse, David A. see Gelfand, Martin P.; et al. 91j:81109
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 Kazarnovskii, A. V. Metamorphoses of contact points of a hyperplane and a hypersurface. (French summary) 91j:58027
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 Kurbatov, A. M. see Bakaev, A. V. et al. 91g:82008
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 Martinez, A. S. see de Aguiar, F. S. et al. 91e:82008 and (91i:00022)
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 Miramontes, J. Luis see Mavrouatos, N. E. 91e:81064
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 Müller, Gerhard see Liu, Jian Min. 91m:82027
 Naón, C. M. see Boyanovsky, Daniel. 91h:81001
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 — see also De Coninck, Joël. 91m:82020
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 de Oliveira, P. M. C. see Penna, T. J. P. (Not in MR)

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 Shcherbina, M. V. see Khoruzhenko, B. A.; et al. 91e:82017
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 Singh, Rajiv R. P. see Gelfand, Martin P.; et al. 91j:81109
 Varchenko, A. N. Rearrangements of convex hulls and phase transitions in thermodynamics. (Russian) 91h:58009
 Waxler, Roger see Borgs, Christian; et al. 91h:81108
 Wehr, Jan (with Aizenman, Michael) Fluctuations of extensive functions of quenched random couplings. 91m:82007
 — see also Aizenman, Michael. 91e:82004
 Wilczek, Frank see Chen, Yi-Hong; et al. 91f:82075
 Witten, Edward see Chen, Yi-Hong; et al. 91f:82075
 Wu, C. Chris see Newman, Charles M. 91g:82019
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82B27 Critical phenomena

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 Ball, J. K. see Wood, D. W. 91d:82014
 Dotera, Tomonari see Abe, Ryuzo; et al. 91m:82049
 Duplantier, Bertrand (with Ludwig, Andreas W. W.) Multifractals, operator product expansion, and field theory. 91m:82050
 Gwa, Le-Hun $O(2)$ symmetry and critical lines of the antiferromagnetic Ising models. 91c:82032
 Hattori, Kumiko (with Hattori, Tetsuya; Kusuoka, Shigeo) Self-avoiding paths on the pre-Sierpinski gasket. 91h:82022
 Hattori, Tetsuya see Hattori, Kumiko; et al. 91h:82022
 Kadanoff, Leo P. Scaling and universality in statistical physics. 91h:82023
 Kawamura, Hikoar Generalized chiral universality. 91j:82024
 Kusuoka, Shigeo see Hattori, Kumiko; et al. 91h:82022
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 — see also Duplantier, Bertrand. 91m:82050
 Martins, Márcio José Central charge for integrable $O(2N)$ models. 91e:82030
 Ogawa, Takeshi see Abe, Ryuzo; et al. 91m:82049
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 Brézin, Édouard see Fields, strings and critical phenomena. 91h:81003
 Butera, P. (with Comi, M.; Marchesini, Giuseppe) Classical $O(N)$ Heisenberg model: extended high-temperature series for two, three, and four dimensions. 91c:82011
 Cadet, S. see Maugin, Gérard A. 91k:73046
 Cardy, John L. Boundary conditions in conformal field theory. 91k:81151
 Comi, M. see Butera, P.; et al. 91c:82011
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 Costin, R. D. see Costin, O.; et al. 91j:82011
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 Duplantier, Bertrand Two-dimensional polymers and conformal invariance. 91g:82060
 Ellis, Richard S. (with Wang, Kong Ming) Limit theorems for the empirical vector of the Curie-Weiss-Potts model. 91m:82023
 Gepner, Doron see Affleck, Ian; et al. (Not in MR)
 Gracey, J. A. Critical exponents for the supersymmetric σ -model. 91f:81206
 Grünfeld, C. P. see Costin, O.; et al. 91j:82011
 Hara, Takashi (with Slade, Gordon) On the upper critical dimension of lattice trees and lattice animals. 91m:82057
 — Mean-field critical behaviour for correlation length for percolation in high dimensions. 91m:60187
 Hackaby, Dale A. (with Shinmi, Masato) Exact coexistence surfaces containing double critical points for a three-component solution on the Bethe, honeycomb, and square

- lattices. 91f:82018
- Joshi, Yogendra P. *see* Kumar, Sanjay; et al., 91h:82023a and 91h:82023b
- (Kamie, Y.) *see* Zamolodchikov, Aleksandr B., 91m:81276
- Kawakami, Norio (with Yang, Sung-Kil) Correlation functions in the one-dimensional t - J model. 91g:82024
- Kennedy, Thomas Garrett A fixed-point equation for the high-temperature phase of discrete lattice spin systems. 91d:82016
- Korepin, V. E. *see* Bogolyubov, N. M., 91h:82052
- Kumar, Sanjay (with Singh, Yashwant X.; Joshi, Yogendra P.) Critical exponents of self-avoiding walks on a family of truncated n -simplex lattices. 91h:82023a
- (with Singh, Yashwant X.) Addendum: "Critical exponents of self-avoiding walks on a family of truncated n -simplex lattices" [J. Phys. A 23 (1990), no. 13, 2987–3002; MR 91h:82023a] by Kumar, Singh and Y. P. Joshi. 91h:82023b
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- Marchesini, Giuseppe *see* Butera, P.; et al., 91c:82011
- Maugin, Gérard A. (with Cadet, S.) Existence of solitary waves in martensitic alloys. 91h:73046
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- Park, Hyunggyu *see* Li, Wei Xiong; et al., 91h:82016
- Pearce, Paul A. *see* Seaton, Katherine A., 91c:82023
- Quispel, G. R. W. *see* Baxter, Rodney James, 91c:82024
- Schönmann, Roberto H. Critical points of two-dimensional bootstrap percolation-like cellular automata. 91f:82038
- Schulz, H. J. *see* Affleck, Ian; et al., (Not in MR)
- Seaton, Katherine A. (with Pearce, Paul A.) Partial order in the self-dual Ashkin-Teller model. 91c:82023
- Shinmi, Masato *see* Hockaby, Dale A., 91f:82018
- Singh, Yashwant X. *see* Kumar, Sanjay; et al., 91h:82023a and 91h:82023b
- Slade, Gordon *see* Hara, Takashi, 91m:82057
- Suzuki, Masuo Canonical series of exactly solvable models for the CAM. Spontaneous broken symmetry of effective Hamiltonians based on the confluent transfer-matrix method. 91g:82021
- Tasaki, Hal Haldane gap in three dimensions: a rigorous example. 91a:82027
- Villani, M. Alternative formulation of the variational method for systems with an infinite number of degrees of freedom: application to Ising models. 91m:82031
- Wang, Kong Ming *see* Ellis, Richard S., 91m:82023
- Widom, Mike *see* Li, Wei Xiong; et al., 91h:82016
- Yang, Sung-Kil *see* Kawakami, Norio, 91g:82024
- Ye, Zhong Xing *see* Berger, Toby, 91f:82013
- Zamolodchikov, Aleksandr B. Exact solutions of conformal field theory in two dimensions and critical phenomena. 91m:81276
- Ziman, T. *see* Affleck, Ian; et al., (Not in MR)
- (Zinn-Justin, J.) *see* Fields, strings and critical phenomena, 91b:81003
- Items listed otherwise than by author
- Champs, cordes et phénomènes critiques ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- Fields, strings and critical phenomena ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- Les Houches ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- School:
- Theoretical Physics ★ Champs, cordes et phénomènes critiques. [Fields, strings and critical phenomena] 91b:81003
- ## 82B28 Renormalization group methods [see also 81T17]
- Bourbonnais, Claude (with Caron, Laurent G.) Renormalization group approach to quasi-one-dimensional conductors. (Not in MR)
- Caron, Laurent G. *see* Bourbonnais, Claude, (Not in MR)
- Damgaard, Poul H. *see* Thorelsson, G., (Not in MR)
- Goldenfeld, Nigel (with Martin, Olivier; Oono, Yoshitsugu) Intermediate asymptotics and renormalization group theory. 91d:82015
- Kennedy, Thomas Garrett A fixed-point equation for the high-temperature phase of discrete lattice spin systems. 91d:82016
- Knope, H. J. F. Conformal invariance. (see 91k:82003)
- Lin, Zhi Fang (with Tao, Rui Bao) Phase transition and scaling properties of the energy spectrum for a hierarchical quantum Ising model. 91d:82017
- Martin, Olivier *see* Goldenfeld, Nigel; et al., 91d:82015
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- Prato, Domingo (with Tsallis, Constantino; Stanley, H. Eugene) Polychromatic majority model: criticality and real space renormalization group. 91a:82032
- Stanley, H. Eugene *see* Prato, Domingo; et al., 91a:82032
- Tao, Rui Bao *see* Lin, Zhi Fang, 91d:82017
- Thorelsson, G. (with Damgaard, Poul H.) The Kadanoff lower-bound variational renormalization group applied to an SU(2) lattice spin model. (Not in MR)
- Tsallis, Constantino *see* Prato, Domingo; et al., 91a:82032
- Yan, Jia Ren *see* You, J. Q.; et al., 91g:82027
- Yang, Qi Bin *see* You, J. Q.; et al., 91g:82027
- You, J. Q. (with Yan, Jia Ren; Yang, Qi Bin) Electronic properties of a class of one-dimensional quasiperiodic systems. 91g:82027
- Items with secondary classifications in 82B28
- Alström, Preben (with Stassinopoulos, Dimitris; Stanley, H. Eugene) Images and distributions obtained from affine transformations. 91c:58068
- Aoyama, Hideaki (with Odagaki, Takashi) Renormalization group analysis of the Ising model on two-dimensional quasi-lattices. (Not in MR)
- Bellissard, Jean (with Bovier, Anton; Ghez, Jean-Michel) Spectral properties of a tight binding Hamiltonian with period doubling potential. 91m:81042
- Benayad, N. Real-space renormalization group investigation of pure and disordered mixed spin Ising models on d -dimensional lattices. (Not in MR)
- (with Zittartz, J.) Real-space renormalization group investigation of the three-dimensional semi-infinite mixed spin Ising model. (Not in MR)
- Bovier, Anton The density of states in the Anderson model at weak disorder: a renormalization group analysis of the hierarchical model. 91m:82063
- *see also* Bellissard, Jean; et al., 91m:81042
- Dorba, Anita Equivalence of the Ising model on the 2-D Penrose and 2-D regular lattice. 91d:82009
- Fisher, Michael Ellis *see* Liu, Andrea J., 91a:82021
- Galam, Serge Social paradoxes of majority rule voting and renormalization group. (Not in MR)
- Ge, Yuzhen (with Rusjan, Edmond; Zweifel, P. F.) Renormalization of binary trees derived from one-dimensional unimodal maps. 91m:58095
- Ghez, Jean-Michel *see* Bellissard, Jean; et al., 91m:81042
- Giannozzi, Paolo (with Grosso, Giuseppe; Moroni, Saverio; Pastori Parravicini, Giuseppe) The ordinary and matrix continued fractions in the theoretical analysis of Hermitian and relaxation operators [Appl. Numer. Math. 4 (1988), no. 2-4, 273–295; MR 89g:81111]. (see 91m:41002)
- Grosso, Giuseppe *see* Giannozzi, Paolo; et al., (91m:41002)
- Heinrich, Gert *see* Stepanow, Semjon, 91a:82039
- Joshi, Yogendra P. *see* Kumar, Sanjay; et al., 91h:82023a and 91h:82023b
- Kadanoff, Leo P. Scaling and universality in statistical physics. 91b:82023
- Kastor, David (with Martinec, Emil J.; Shenker, Stephen H.) RG flow in $N = 1$ discrete series. 91a:81142
- Kawamura, Hikaru Generalized chiral universality. 91j:82024
- Kumar, Sanjay (with Singh, Yashwant X.; Joshi, Yogendra P.) Critical exponents of self-avoiding walks on a family of truncated n -simplex lattices. 91h:82023a
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- Kunitomo, Hiroshi (with Odake, Satoru) Nonperturbative analysis of the three matrix model. 91k:81167
- Liu, Andrea J. (with Fisher, Michael Ellis) On the corrections to scaling in three-dimensional Ising models. 91a:82021
- Lund, Thomas S. *see* Pionelli, Ugo; et al., (91h:76003)
- Martin, Paul P. Approaches to scale invariance in two-dimensional statistical mechanics. (see 91m:00033)
- Martinec, Emil J. *see* Kastor, David; et al., 91a:81142
- Moroni, Saverio *see* Giannozzi, Paolo; et al., (91m:41002)
- Odagaki, Takashi *see* Aoyama, Hideaki, (Not in MR)
- Odake, Satoru *see* Kunitomo, Hiroshi, 91k:81167
- Parisi, Giorgio ★ Statistical field theory. 91f:81116
- Pastori Parravicini, Giuseppe *see* Giannozzi, Paolo; et al., (91m:41002)
- (Pines, David) *see* Parisi, Giorgio, 91f:81116
- Pionelli, Ugo (with Zang, Thomas A.; Speziale, Charles G.; Lund, Thomas S.) Application of renormalization group theory to the large-eddy simulation of transitional boundary layers. (see 91h:76003)
- Rusjan, Edmond *see* Ge, Yuzhen; et al., 91m:58095
- Shenker, Stephen H. *see* Kastor, David; et al., 91a:81142
- Singh, Yashwant X. *see* Kumar, Sanjay; et al., 91h:82023a and 91h:82023b
- Speziale, Charles G. *see* Pionelli, Ugo; et al., (91h:76003)
- Stanley, H. Eugene *see* Alström, Preben; et al., 91c:58068
- Stassinopoulos, Dimitris *see* Alström, Preben; et al., 91c:58068
- Stepanow, Semjon (with Heinrich, Gert) Percolation, Potts-Modell und Quellung von Gelen. (English and Russian summaries) [Percolation, Potts model and swelling of gels] 91a:82039
- Zang, Thomas A. *see* Pionelli, Ugo; et al., (91h:76003)
- Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 91b:81001
- Zittartz, J. *see* Benayad, N., (Not in MR)
- Zweifel, P. F. *see* Ge, Yuzhen; et al., 91m:58095
- ## 82B30 Statistical thermodynamics [see also 80–XX]
- Chen, Nan Xian Modified Möbius inverse formula and its applications in physics. 91f:82031a
- Errata: "Modified Möbius inverse formula and its applications in physics". 91f:82031b
- Eriksson, Karl-Erik (with Lindgren, Kristian; Månsson, Bengt Å.) ★ Structure, context, complexity, organization. 91e:82031
- Fujisaka, Hirokazu (with Inoue, Masayoshi) "Thermodynamics", temporal correlations and scaling laws. 91f:82010b
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- Goncharov, N. V. Bilocal variables in the physics of condensed media. 91g:82028
- Inoue, Masayoshi *see* Fujisaka, Hirokazu, 91f:82010a and 91f:82010b
- Janyasz, H. (with Mrugała, R.) Geometrical structure of the state space in classical statistical and phenomenological thermodynamics. 91i:82011
- Kgathi, A. M. *see* Mason, D. P., 91m:82033
- Klemes, M. *see* Katka, R.; et al., 91a:82033
- Katka, R. (with Trebin, Hans-Rainer; Klemes, M.) The topological theory of semidefects in ordered media. (French summary) 91a:82033
- Lavenda, B. H. Probabilistic derivation of van der Waals' equation. 91j:82025
- Lindgren, Kristian *see* Eriksson, Karl-Erik; et al., 91e:82031
- Månsson, Bengt Å. *see* Eriksson, Karl-Erik; et al., 91e:82031
- Mason, D. P. (with Kgathi, A. M.) Thermodynamic variables of a relativistic gas in collision-dominated equilibrium. 91m:82051
- Mrugała, R. *see* Janyasz, H., 91i:82011

- de Oliveira, Mário J. (with de Toledo Piza, M. S.) Stability of the dilute Ising spin glass on a Bethe lattice. (Not in MR)
 de Toledo Piza, M. S. *see* de Oliveira, Mário J. (Not in MR)
 Trebin, Hans-Rainer *see* Kutka, R.; et al., 91a:82033

Items with secondary classifications in 82B30

- Bach, Alexander Boltzmann's probability distribution of 1877. 91h:82001 (Bellemans, A.) *see* Prigogine, Ilya, 91g:82061 (Boltzmann, Ludwig) *see* Bach, Alexander, 91h:82001
 Brown, J. David (with Comer, G. L.; Martinez, E. A.; Melmed, J.; Whiting, Bernard F.; York, James W., Jr.) Thermodynamic ensembles and gravitation. 91g:83038
 Calanelli, Eduardo R. (with Noce, C.) A metric model for thermodynamics: uncertainty relations. 91g:80002
 Comer, G. L. *see* Brown, J. David; et al., 91g:83038
 Dorlas, T. C. *see* Van den Berg, Michiel; et al., 91a:82005
 Firrao, Sisto On Boltzmann's statistical entropy. 91c:82036 (Glasov, M. V.) *see* Prigogine, Ilya, 91g:82061 (Glasov, V. M.) *see* Prigogine, Ilya, 91g:82061
 Janyszek, H. Riemannian geometry and stability of thermodynamical equilibrium systems. 91d:82029
 Lewis, John Trevor *see* Van den Berg, Michiel; et al., 91a:82005
 Makai, Mihály Economic physics. (Hungarian. English summary) 91a:90050
 Martinez, E. A. *see* Brown, J. David; et al., 91g:83038
 Mathot, V. *see* Prigogine, Ilya, 91g:82061
 Melmed, J. *see* Brown, J. David; et al., 91g:83038
 Noce, C. *see* Calanelli, Eduardo R., 91g:80002
 Paladin, G. (with Valentini, S.) Hausdorff dimensions in two-dimensional maps and thermodynamic formalism. 91b:58126
 Prigogine, Ilya ★ Молекулярная теория растворов. (Russian) [The molecular theory of solutions] 91g:82061
 Pulé, J. V. *see* Van den Berg, Michiel; et al., 91a:82005
 Shigematsu, H. Statistical-thermodynamic approach to a chaotic dynamical system: exactly solvable examples. 91g:58171
 Valentini, S. *see* Paladin, G., 91b:58126
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 Whiting, Bernard F. *see* Brown, J. David; et al., 91g:83038
 York, James W., Jr. *see* Brown, J. David; et al., 91g:83038

82B31 Stochastic methods

- Nicolis, C. *see* Nicolis, G., 91b:82024
 Nicolis, G. (with Nicolis, C.) Chaotic dynamics, Markovian coarse-graining and information. 91b:82024
 Shlesinger, Michael F. *see* West, Bruce J., 91j:82026
 Sommer, Jens-Uwe *see* Stepanow, Semjon, 91k:82032
 Stepanow, Semjon (with Sommer, Jens-Uwe) On the path integral formulation of Brownian dynamics. 91k:82032
 Tirapegui, Enrique Stochastic processes in macroscopic physics. 91a:82034
 Vázquez, Luis An elementary introduction to stochastic processes. 91b:82025
 West, Bruce J. (with Shlesinger, Michael F.) On the ubiquity of $1/f$ noise. 91j:82026

Items with secondary classifications in 82B31

- Aizenman, Michael *see* Wehr, Jan, 91m:82007
 Briozzo, C. B. (with Budde, C. E.; Cáceres, M. O.) Exact generating function for the two-dimensional lattice Lorentz gas. 91e:82013
 Budde, C. E. *see* Briozzo, C. B.; et al., 91e:82013
 Cáceres, M. O. *see* Briozzo, C. B.; et al., 91e:82013
 Choi, Chi Hoon (with Kim, Woo Chul; Jeon, Jong Woo) A central limit theorem in a mean field model. 91a:60272
 Jeon, Jong Woo *see* Choi, Chi Hoon; et al., 91a:60272
 Kim, Woo Chul *see* Choi, Chi Hoon; et al., 91a:60272
 Luckock, H. C. (with McKane, A. J.) Path integrals and non-Markov processes. III. Calculation of the escape-rate prefactor in the weak-noise limit. 91k:82006
 Malyshev, V. A. (with Podorol'skii, V. A.; Turova, T. S.) Ergodicity of infinite systems of stochastic equations. 91b:60047
 McKane, A. J. *see* Luckock, H. C., 91k:82006
 Podorol'skii, V. A. *see* Malyshev, V. A.; et al., 91b:60047
 Turova, T. S. *see* Malyshev, V. A.; et al., 91b:60047
 Wehr, Jan (with Aizenman, Michael) Fluctuations of extensive functions of quenched random couplings. 91m:82007

82B35 Irreversible thermodynamics, including Onsager-Machlup theory [see also 92E20]

- Grmela, M. (with Lebon, G.) Hamiltonian extended thermodynamics. 91m:82052
 Lebon, G. *see* Grmela, M., 91m:82052

82B40 Kinetic theory of gases

- Beck, Christian (with Roepstorff, Gert) From stochastic processes to the hydrodynamic equations. 91f:82032
 Das, P. *see* Narasimha, R., 91m:82053
 Lehtonen, T. (with Nummelin, Esa) Level I theory of large deviations in the ideal gas. 91f:82033
 Narasimha, R. (with Das, P.) A spectral solution of the Boltzmann equation for the infinitely strong shock. 91m:82053
 Nummelin, Esa *see* Lehtonen, T., 91f:82033
 Roepstorff, Gert *see* Beck, Christian, 91f:82032

- Tapp, M. C. The Boltzmann function as an embedded property of Liouville's equation. 91g:82029

- Wenzel, Lothar Die linearisierte Boltzmann-Gleichung mit reflektierenden Randbedingungen. II. Der Raum von L^p -Funktionen. [The linearized Boltzmann equation with reflecting boundary conditions. II. The space of L^p -functions] 91d:82018

Items with secondary classifications in 82B40

- Desvillettes, L. Convergence to equilibrium in large time for Boltzmann and B.G.K. equations. 91d:35210
 Dobrushin, R. L. Caricatures of hydrodynamics. 91a:82056
 Gerasimenko, V. I. (with Petrina, D. Ya.) Existence of the Boltzmann-Grad limit for an infinite system of elastic balls. 91j:82042
 Herod, J. V. Differential equations with quadratic nonlinearities. 91h:34016
 Perthame, Benoît Global existence to the BGK model of Boltzmann equation. (French summary) 91a:35158
 Petrina, D. Ya. *see* Gerasimenko, V. I., 91j:82042
 van Velzen, G. A. Lattice Lorentz gas: kinetic theory. (Not in MR)

82B41 Random walks, random surfaces, lattice animals, etc. [see also 60J15, 82C41]

- Comtet, Alain (with Desbois, J.; Ouvry, Stéphane) Winding of planar Brownian curves. 91m:82054
 Cook, Joanna (with Derrida, Bernard) Directed polymers in a random medium: $1/d$ expansion and the n -tree approximation. 91b:82026
 — (with Derrida, Bernard) Lyapunov exponents of large, sparse random matrices and the problem of directed polymers with complex random weights. 91k:82033
 De Coninck, Joël (with Dunlop, François; Menu, Frédéric) Exact results for a meniscus in a three-phase system within an SOS-type approximation. 91m:82055
 Derrida, Bernard *see* Cook, Joanna, 91b:82026 and 91k:82033
 Desbois, J. Characteristic function and Spitzer's law for the winding angle distribution of planar Brownian curves. 91g:82030
 — *see also* Comtet, Alain; et al., 91m:82054
 Dunlop, François *see* De Coninck, Joël; et al., 91m:82055
 Duplantier, Bertrand (with Kostov, Ivan K.) Geometrical critical phenomena on a random surface of arbitrary genus. 91m:82056
 Forrester, P. J. Exact solution of the lock step model of vicious walkers. 91d:82019
 Gaveau, Bernard (with Schulman, Lawrence S.) Charged polymer in an electric field. 91k:82034
 Grassberger, Peter (with Leuvenink, Ricardo) Equilibrium distributions for random walkers in random media. 91f:82034
 Gujral, P. D. Self-avoiding random manifolds on a Bethe D -simplex lattice: thermal and percolation transitions. 91e:82032
 Hara, Takashi (with Slade, Gordon) On the upper critical dimension of lattice trees and lattice animals. 91m:82057
 Janse van Rensburg, E. J. (with Whittington, S. G.) Punctured discs on the square lattice. 91h:82027
 — (with Whittington, S. G.) Self-avoiding surfaces with knotted boundaries. 91j:82027
 Jansons, Kalvis M. An analytical bound on the asymmetry of a section of a typical three-dimensional Brownian path. 91d:82020
 Jamila, H. R. Supersymmetric partners for random walks. 91a:82035
 Joshi, Yogendra P. *see* Kumar, Sanjay; et al., 91h:82023a and 91h:82023b
 Khokhlov, A. R. (with Ternovskii, F. F.; Zheligovskaya, E. A.) Statistics of a polymer chain in an array of obstacles. 91m:82058
 Kirkpatrick, T. R. *see* Machta, J., 91h:82024
 Kostov, Ivan K. *see* Duplantier, Bertrand, 91m:82056
 Kumar, Sanjay (with Singh, Yashwant X.; Joshi, Yogendra P.) Critical exponents of self-avoiding walks on a family of truncated n -simplex lattices. 91h:82023a
 — (with Singh, Yashwant X.) Addendum: "Critical exponents of self-avoiding walks on a family of truncated n -simplex lattices" [J. Phys. A 23 (1990), no. 13, 2987–3002; MR 91h:82023a] by Kumar, Singh and Y. P. Joshi. 91h:82023b
 Leuvenink, Ricardo *see* Grassberger, Peter, 91f:82034
 Lin, K'e Ying (with Wu, F. Y.) Unidirectional-convex polygons on the honeycomb lattice. 91m:82059
 — *see also* Ma, Shang-keng, 91m:82060
 Ma, Shang-keng (with Lin, K'e Ying) Anisotropic spiral self-avoiding loops. 91m:82060
 Machta, J. (with Kirkpatrick, T. R.) Self-avoiding walks and manifolds in random environments. 91h:82024
 Massoliver, Jaume *see* Weiss, George H.; et al., 91b:82029
 Menu, Frédéric *see* De Coninck, Joël; et al., 91m:82055
 Mertens, S. Lattice animals: a fast enumeration algorithm and new perimeter polynomials. 91d:82021
 Myers, Robert C. (with Periwal, Vipul) Exact solution of critical self-dual unitary-matrix models. 91f:82035
 Ouvry, Stéphane *see* Comtet, Alain; et al., 91m:82054
 Periwal, Vipul *see* Myers, Robert C., 91f:82035
 Pippenger, Nicholas Knots in random walks. 91b:82028
 Poland, Douglas On the enumeration of the end-to-end distance distribution in lattice polymers. 91f:82036
 Schulman, Lawrence S. *see* Gaveau, Bernard, 91k:82034
 Shuler, Kurt E. *see* Weiss, George H.; et al., 91b:82029
 Singh, Yashwant X. *see* Kumar, Sanjay; et al., 91h:82023a and 91h:82023b
 Slade, Gordon *see* Hara, Takashi, 91m:82057
 Soteros, C. E. *see* Whittington, S. G., 91m:82061
 Summers, De Witt (with Whittington, S. G.) Detecting knots in self-avoiding walks. Comment on: "Knottedness in self-avoiding walks" [J. Phys. A 22 (1989), no. 13, L605–L608; MR 90h:82056] by S. Windwer. 91h:82025
 Temperley, H. N. V. On the statistical mechanics of noncrossing chains. II. 91a:82036
 Ternovskii, F. F. *see* Khokhlov, A. R.; et al., 91m:82058

- Weiss, George H. (with Masoliver, Jaume; Shuler, Kurt E.) On the asymmetry of a random walk in the presence of a field. **91b:82029**
- Whittington, S. G. (with Soteros, C. E.) Lattice animals: rigorous results and wild guesses. **91m:82061**
— see also Janse van Rensburg, E. J., **91b:82027**; Summers, De Witt, **91b:82025** and Janse van Rensburg, E. J., **91j:82027**
- (Windwer, Stanley) see Summers, De Witt, **91b:82025**
- Wu, F. Y. see Lin, K'e Ying, **91m:82059**
- Zheligovskaya, E. A. see Khokhlov, A. R.; et al., **91m:82058**
- Items with secondary classifications in 82B41
- Abraham, D. B. Exact results for phase transitions in surfaces. **91k:82023**
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- Ambjørn, Jan (with Durhuus, Bergfinnur; Jónsson, Þórhður) Summing over all genera for $d > 1$: a toy model. **91m:81178**
- Arrowsmith, D. K. (with Essam, J. W.) Möbius function for the set of acyclic directed backbone graphs. **91f:05057**
- Barlow, Martin T. (with Bass, Richard F.) The construction of Brownian motion on the Sierpiński carpet. (French summary) **91d:60183**
- Barrett, A. J. On the Domb-Joyce model for self-avoiding walks in the continuum. **91a:82079**
- Bass, Richard F. see Barlow, Martin T., **91d:60183**
- Berezikovskii, A. M. (with Makhnovskii, Yu. A.; Suris, R. A.) Wiener sausage volume moments. **91c:60107**
- Bulatov, D. V. Correlators in the theory of $D = 1$ random surfaces. **91d:81090**
- Burdzy, Krzysztof (with Lawler, Gregory F.; Polaski, Thomas) On the critical exponent for random walk intersections. **91h:60073**
— (with Lawler, Gregory F.) Rigorous exponent inequalities for random walks. **91a:60271**
- Caracciolo, Sergio (with Pelissetto, Andrea; Sokal, Alan D.) Monte Carlo test of a hyperscaling relation for the two-dimensional self-avoiding walk. II. **91h:82027**
- Casati, Davide (with Pimpinelli, Alberto) Spherical model on the Bethe lattice via the statistics of walks. **91m:82017**
- Dashen, Roger (with Orris, Gregory J.) Rough surfaces and the renormalization group. **91k:78011**
- Duplantier, Bertrand Areas of planar Brownian curves. **91a:60209a**
- Durhuus, Bergfinnur see Ambjørn, Jan; et al., **91m:81178**
- Englert, F. (with Orloff, Jean) Universality of the closed string phase transition. **91c:81099**
- Essam, J. W. see Arrowsmith, D. K., **91f:05057**
- Janson, Svante see Alm, Sven Erik, **91e:60204**
- Jónsson, Þórhður see Ambjørn, Jan; et al., **91m:81178**
- Kolbuchi, Hiroshi Crumpling phase transition of random surfaces with extrinsic curvature. **91b:81094**
- Lawler, Gregory F. The infinite self-avoiding walk in high dimensions. **91d:60164**
— The Edwards model and the weakly self-avoiding walk. **91a:82081**
— see also Burdzy, Krzysztof, **91a:60271** and **91h:60073**
- Lin, K'e Ying Exact results for the area-weighted moments of convex polygons on the square lattice. **91f:52027**
- Lyons, Russell Random walks and percolation on trees. **91l:60179**
- Majumdar, S. N. An ideal polymer chain in arbitrary dimensions near an attractive site. **91m:82048**
- Makhnovskii, Yu. A. see Berezikovskii, A. M.; et al., **91c:60107**
- Myers, Robert C. (with Periwai, Vipul) Exactly solvable self-dual strings. **91c:81110**
- O'Brien, George L. Monotonicity of the number of self-avoiding walks. **91k:82007**
- Orloff, Jean see Englert, F., **91c:81099**
- Orris, Gregory J. see Dashen, Roger, **91k:78011**
- Pelissetto, Andrea see Caracciolo, Sergio; et al., **91h:82027**
- Periwai, Vipul see Myers, Robert C., **91c:81110**
- Pimpinelli, Alberto see Casati, Davide, **91m:82017**
- Polaski, Thomas see Burdzy, Krzysztof; et al., **91h:60073**
- Sokal, Alan D. see Caracciolo, Sergio; et al., **91h:82027**
- Soteros, C. E. (with Whittington, S. G.) Lattice models of branched polymers: effects of geometrical constraints. **91m:82152**
- Sudbury, Aidan The branching annihilating process: an interacting particle system. **91e:60285**
- Suris, R. A. see Berezikovskii, A. M.; et al., **91c:60107**
- Whittington, S. G. see Soteros, C. E., **91m:82152**
- Yor, Marc On stochastic areas and averages of planar Brownian motion. **91a:60209b**

82B43 Percolation [see also 60K35]

- Alexander, Kenneth S. (with Chayes, J. T.; Chayes, L.) The Wulff construction and asymptotics of the finite cluster distribution for two-dimensional Bernoulli percolation. **91c:82033**
- Chayes, J. T. see Alexander, Kenneth S.; et al., **91c:82033**
- Chayes, L. see Alexander, Kenneth S.; et al., **91c:82033**
- Golden, Kenneth M. Convexity in random resistor networks. **91f:82037**
- Hara, Takashi (with Slade, Gordon) Mean-field critical behaviour for percolation in high dimensions. **91a:82037**
- Heinrich, Gert see Stepanow, Semjon, **91a:82039**
- Kahng, B. Percolation in the hypercube and the Ising spin-glass relaxation. (Not in MR)
- Meiron, Daniel I. see Pokorný, Martin; et al., **91a:82038**
- Miller, Jeffrey D. Moment of inertia of doubly connecting bonds in two-dimensional bond percolation. **91g:82031**
- Nakayama, Tsuneyoshi see Yakubo, Kousuke, **91f:82039**
- Newman, Charles M. see Pokorný, Martin; et al., **91a:82038**
- Okun', B. L. Euler characteristic in percolation theory. **91g:82032**
- Pokorný, Martin (with Newman, Charles M.; Meiron, Daniel I.) The trapping transition in dynamic (invasion) and static percolation. **91a:82038**
- Schonmann, Roberto H. Critical points of two-dimensional bootstrap percolation-like cellular automata. **91f:82038**
- Slade, Gordon see Hara, Takashi, **91a:82037**
- Stepanow, Semjon (with Heinrich, Gert) Perkolations, Potts-Modell und Quellung von Gelen. (English and Russian summaries) [Percolation, Potts model and swelling of gels] **91a:82039**
- Wierman, John C. AB percolation: a brief survey. (see **91k:05001**)
- Bond percolation critical probability bounds for the Kagomé lattice by a substitution method. **91m:82062**
- Yakubo, Kousuke (with Nakayama, Tsuneyoshi) Dynamics of fractals. (Japanese. English summary) **91f:82039**
- Zuev, S. A. A lower bound for a percolation threshold for a square lattice. (Russian) **91k:82035**
- Items with secondary classifications in 82B43
- de Aguiar, F. S. (with Bosco, F. A.; Martinez, A. S.; Goulart Rosa, S., Jr.) Phase diagram of the one-state Potts model on the Cayley tree. **91c:82008**
- Amritkar, R. E. (with Gupte, Neelima) Nonsimultaneous hierarchy: multifractal analysis. **91a:28006**
- Andrews, George E. (with Baxter, Rodney James) SCRATCHPAD explorations for elliptic theta functions. **91i:11188**
- Arrowsmith, D. K. (with Essam, J. W.) Möbius function for the set of acyclic directed backbone graphs. **91f:05057**
- Barlow, Martin T. (with Bass, Richard F.) On the resistance of the Sierpiński carpet. **91h:28008**
- Bass, Richard F. see Barlow, Martin T., **91h:28008**
- Baxter, Rodney James see Andrews, George E., **91i:11188**
- Bosco, F. A. see de Aguiar, F. S.; et al., **91c:82008**
- Burdzy, Krzysztof (with Lawler, Gregory F.) Rigorous exponent inequalities for random walks. **91a:60271**
- Chayes, J. T. (with Chayes, L.; Grimmett, Geoffrey; Kesten, Harry; Schonmann, Roberto H.) The correlation length for the high-density phase of Bernoulli percolation. **91l:60274**
- Chayes, L. see Chayes, J. T.; et al., **91l:60274**
- Cook, Joanna (with Derrida, Bernard) Directed polymers in a random medium: $1/d$ expansion and the n -tree approximation. **91b:82026**
- Dekking, F. M. (with Meester, Ronald W. J.) On the structure of Mandelbrot's percolation process and other random Cantor sets. **91c:60140**
- Derrida, Bernard see Cook, Joanna, **91b:82026**
- Domb, Cyril Covering by random intervals and one-dimensional continuum percolation. **91a:60275**
- Duarte, J. A. M. S. A method for systematic site-to-bond conversion of directed graphs. **91g:05056**
- Duplantier, Bertrand (with Kostov, Ivan K.) Geometrical critical phenomena on a random surface of arbitrary genus. **91m:82056**
- Durrett, Richard (with Schonmann, Roberto H.; Tanaka, Nelson I.) Correlation lengths for oriented percolation. **91h:60112**
— (with Tanaka, Nelson I.) Scaling inequalities for oriented percolation. **91h:60113**
- Essam, J. W. see Arrowsmith, D. K., **91f:05057**
- Fisher, Michael Ellis (with Singh, Rajiv R. P.) Critical points, large-dimensionality expansions, and the Ising spin glass. **91j:82021**
- Goulart Rosa, S., Jr. see de Aguiar, F. S.; et al., **91c:82008**
- Grimmett, Geoffrey Recent progress in percolation. (see **91j:60003**)
— (with Marstrand, J. M.) The supercritical phase of percolation is well behaved. **91m:60186**
— see also Chayes, J. T.; et al., **91l:60274**
- Gupte, Neelima see Amritkar, R. E., **91a:28006**
- Hara, Takashi (with Slade, Gordon) On the upper critical dimension of lattice trees and lattice animals. **91m:82057**
— Mean-field critical behaviour for correlation length for percolation in high dimensions. **91m:60187**
- Higuchi, Yasunari Percolation problem for the two-dimensional Ising model. (see **91j:60003**)
— A remark on the percolation for the 2D Ising model. **91c:60143**
- Kesten, Harry Asymptotics in high dimensions for percolation. **91k:60114**
— (with Zhang, Yu) The probability of a large finite cluster in supercritical Bernoulli percolation. **91l:60278**
— see also Chayes, J. T.; et al., **91l:60274**
- Kostov, Ivan K. see Duplantier, Bertrand, **91m:82056**
- Lawler, Gregory F. see Burdzy, Krzysztof, **91a:60271**
- Lyons, Russell Random walks and percolation on trees. **91l:60179**
- Marstrand, J. M. see Grimmett, Geoffrey, **91m:60186**
- Martinez, A. S. see de Aguiar, F. S.; et al., **91c:82008**
- Meester, Ronald W. J. see Dekking, F. M., **91c:60140**
- Men'shikov, M. V. Percolation theory. Coincidence of the critical values $P_H = P_T$. (see **91j:60003**)
— (with Pelikh, K. D.) Percolation with several types of defects. A bound for the critical probability of a square lattice. **91h:60116**
- Ostoja-Starzewski, M. Percolation, fractals, and entropy of disorder in damage phenomena. (see **91m:60030**)
- Pelikh, K. D. see Men'shikov, M. V., **91h:60116**
- Pisarenko, V. F. (with Reznikova, A. Ya.) The ideas of percolation theory in geophysics and failure theory. (see **91j:60004**)
- Poland, Douglas On the enumeration of the end-to-end distance distribution in lattice polymers. **91f:82036**
- Reznikova, A. Ya. see Pisarenko, V. F., **(91j:60004)**
- Schonmann, Roberto H. see Durrett, Richard; et al., **91h:60112** and Chayes, J. T.; et al., **91l:60274**
- Singh, Rajiv R. P. see Fisher, Michael Ellis, **91j:82021**

- Slade, Gordon *see* Hara, Takashi, 91m:82057
 Tanaka, Nelson I. *see* Durrett, Richard, et al., 91h:60112 and 91h:60113
 Zhang, Yu *see* Kesten, Harry, 91i:60278
 Zhukov, V. V. Efficient conductivity of homogeneous random sets. 91g:60118

82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)

- Antsygina, T. N. (with Shtyurev, V. A.) Supersymmetry and the kinetic properties of one-dimensional unbounded systems. (Not in MR)
 Bovier, Anton The density of states in the Anderson model at weak disorder: a renormalization group analysis of the hierarchical model. 91m:82063
 Broderix, Kurt (with Heldt, Nils; Leschke, Hajo) Weyl-invariant random Hamiltonians and their relation to translational-invariant random potentials on Landau levels. 91m:82064
 Chulaevskii, V. A. (with Sinai, Ya. G.) Anderson localization and KAM-theory. 91f:82040
 — Current problems in the spectral theory of disordered systems. (Russian) (see 91i:00015)
 Cook, Joanna (with Derrida, Bernard) Polymers on disordered hierarchical lattices: a nonlinear combination of random variables. 91a:82040
 De Dominicis, Cyrano *see* Rodgers, G. J., 91a:82043
 Derrida, Bernard *see* Cook, Joanna, 91a:82040
 Domanski, Zbigniew *see* Erdős, Paul, 91a:82034
 van Dongen, P. G. J. Spatial fluctuations in reaction-diffusion systems: a model for exponential growth. 91m:82065
 Erdős, Paul (with Domanski, Zbigniew) Density of states of electrons and electromagnetic waves in one-dimensional random media. 91e:82034
 Ermilov, A. N. An analytic method of studying the stochastic Potts model. 91c:82034
 Georges, Antoine *see* Yedidia, Jonathan S., 91e:82035
 Glaffig, Clemens Smoothness of the integrated density of states on strips. 91m:82066
 Heldt, Nils *see* Broderix, Kurt, et al., 91m:82064
 Kirsch, Werner (with Pastur, L. A.) The large-time asymptotics of some Wiener integrals and the interband light absorption coefficient in the deep fluctuation spectrum. 91m:82067
 Klein, Abel (with Lacroix, Jean; Speis, Athanasios) Regularity of the density of states in the Anderson model on a strip for potentials with singular continuous distributions. 91g:82033
 — (with Perez, J. Fernando) Localization in the ground-state of the one-dimensional X - Y model with a random transverse field. 91a:82041
 Konakion, F. A random covering interpretation for the phase transition of the random energy model. 91m:82068
 Krishna, M. Anderson model with decaying randomness existence of extended states. 91m:82069
 Lacroix, Jean *see* Klein, Abel, et al., 91g:82033
 Lerner, I. V. (with Wegner, Franz) High-gradient operators of the unitary matrix-model. 91j:82028
 Leschke, Hajo *see* Broderix, Kurt, et al., 91m:82064
 Leyvraz, François (with Seligman, T. H.) Self-consistent perturbation theory for random matrix ensembles. 91a:82042
 Markov, Konstantin Z. Analysis of random particulate media via factorial functional expansions. (see 91m:00030)
 — On the factorial functional series and their application to random media. 91m:82070
 Parisi, Giorgio A soluble model for random directed polymers in the very long range limit. (Italian summary) 91k:82036
 — On the replica approach to random directed polymers in two dimensions. 91j:82029
 Pastur, L. A. *see* Kirsch, Werner, 91m:82067
 Perez, J. Fernando *see* Klein, Abel, et al., 91a:82041
 Pittel, Boris (with Woyczyński, Wojbor A.) A graph-valued Markov process as rings-allowed polymerization model: subcritical behavior. 91h:82026
 Rodgers, G. J. (with De Dominicis, Cyrano) Density of states of sparse random matrices. 91a:82043
 Seligman, T. H. *see* Leyvraz, François, 91a:82042
 Sinai, Ya. G. *see* Chulaevskii, V. A., 91f:82040
 Shtyurev, V. A. *see* Antsygina, T. N., (Not in MR)
 Speis, Athanasios *see* Klein, Abel, et al., 91g:82033
 Wegner, Franz *see* Lerner, I. V., 91j:82028
 Woyczyński, Wojbor A. *see* Pittel, Boris, 91h:82026
 Yedidia, Jonathan S. (with Georges, Antoine) The fully frustrated Ising model in infinite dimensions. 91e:82035

Items with secondary classifications in 82B44

- Aizenman, Michael (with Wehr, Jan) Rounding effects of quenched randomness on first-order phase transitions. 91e:82004
 — *see also* Wehr, Jan, 91m:82007
 Alexander, Francis J. (with Lebowitz, Joel L.) Driven diffusive systems with a moving obstacle: a variation on the Brazil nuts problem. 91a:82078
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 Bruno, Oscar P. The effective conductivity of an infinitely interchangeable mixture. 91j:73003
 Burda, Z. (with Jurkiewicz, Jerzy Władysław) The Ising model on a random lattice with a coordination number equal 3. 91e:82014
 Caracciolo, Sergio (with Radicati di Brozolo, Luigi A.) Entropy ultrametric for dynamical and disordered systems. (French summary) 91d:58131
 Cwiliich, Gabriel (with Kirkpatrick, T. R.) Mean-field theory and fluctuations in Potts spin glasses. I. 91a:82071
 De Dominicis, Cyrano *see* Goldschmidt, Yadin Y., 91a:82072
 Deuschel, Jean-Dominique (with Stroock, Daniel W.) Hypercontractivity and spectral gap of symmetric diffusions with applications to the stochastic Ising models. 91j:58174
 Dufty, James W. *see* Ernst, M. H., 91c:82035 and (Not in MR)

- Ernst, M. H. (with Dufty, James W.) Hydrodynamics and time correlation functions for cellular automata. 91c:82035
 — (with Dufty, James W.) Erratum: "Hydrodynamics and time correlation functions for cellular automata" [J. Statist. Phys. 58 (1990), no. 1-2, 57-86; MR 91c:82035]. (Not in MR)
 Goldschmidt, Yadin Y. (with De Dominicis, Cyrano) Replica symmetry breaking in the spin-glass model on lattices with finite connectivity: application to graph partitioning. 91a:82072
 Gol'dsheid, I. Ya. (with Margulis, G. A.) Lyapunov exponents of a product of random matrices. 91j:60014
 Grassberger, Peter (with Leuvenink, Ricardo) Equilibrium distributions for random walkers in random media. 91f:82034
 Hattori, Kumiko (with Hattori, Tetsuya; Kusuoaka, Shigeo) Self-avoiding paths on the pre-Sierpiński gasket. 91b:82022
 Hattori, Tetsuya *see* Hattori, Kumiko, et al., 91b:82022
 Howland, James S. Random perturbations of singular spectra. 91j:47010
 Janik, V. Free-energy functional in the generalized coherent-potential approximation. 91c:82016
 Jurkiewicz, Jerzy Władysław *see* Burda, Z., 91e:82014
 Khoruzhenko, B. A. (with Pastur, L. A.; Shcherbina, M. V.) Large- n limit of the Heisenberg model: the decorated lattice and the disordered chain. 91c:82017
 Kirkpatrick, T. R. *see* Cwiliich, Gabriel, 91a:82071 and Machta, J., 91h:82024
 Kirsch, Werner Random Schrödinger operators. A course. 91b:47112
 (Kohn, Robert V.) *see* Random media and composites, 91h:00052
 Kotani, Shinichi Jacobi matrices with random potentials taking finitely many values. 91h:81023
 Kusuoaka, Shigeo *see* Hattori, Kumiko, et al., 91b:82022
 Lebowitz, Joel L. *see* Alexander, Francis J., 91a:82078
 Le Page, Émile Régularité du plus grand exposant caractéristique des produits de matrices aléatoires indépendantes et applications. (English summary) [Regularity of the first characteristic exponent of products of independent random matrices, and applications] 91d:60016
 Leuvenink, Ricardo *see* Grassberger, Peter, 91f:82034
 Luck, J. M. (with Nieuwenhuizen, Th. M.) Correlation function of random-field Ising chains: is it Lorentzian or not? 91c:82019
 Ludwig, Andreas W. W. Infinite hierarchies of exponents in a diluted ferromagnet and their interpretation. 91c:82033
 Machta, J. (with Kirkpatrick, T. R.) Self-avoiding walks and manifolds in random environments. 91h:82024
 Margulis, G. A. *see* Gol'dsheid, I. Ya., 91j:60014
 Mazilu, P. Green's operator for determination of the effective properties in random media. (see 91m:00030)
 Mikhailov, V. G. Complete integrability of the asymmetric chiral $O(3)$ -field equation in a class of rapidly decreasing functions. 91b:58099
 (Milton, Graeme W.) *see* Random media and composites, 91h:00052
 Minami, Nariyuki Exponential and super-exponential localizations for one-dimensional Schrödinger operators with Lévy noise potentials. 91h:60069
 Molinari, Luca (with Montaldi, Emilio) The double-well phase of matrix models: the large- N general solution. 91k:82026
 Montaldi, Emilio *see* Molinari, Luca, 91k:82026
 Nieuwenhuizen, Th. M. *see* Luck, J. M., 91c:82019
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 Pastur, L. A. A limit theorem for sums of exponentials. 91a:82008
 — *see also* Khoruzhenko, B. A., et al., 91c:82017
 Pöschel, Jürgen On the Fröhlich-Spencer-estimate in the theory of Anderson localization. 91k:82011
 Radicati di Brozolo, Luigi A. *see* Caracciolo, Sergio, 91d:58131
 Shcherbina, M. V. *see* Khoruzhenko, B. A., et al., 91c:82017
 Stroock, Daniel W. *see* Deuschel, Jean-Dominique, 91j:58174
 Tarquato, Sal Random heterogeneous media: microstructure and improved bounds on effective properties. 91k:82070
 Wehr, Jan (with Aizenman, Michael) Fluctuations of extensive functions of quenched random couplings. 91m:82007
 — *see also* Aizenman, Michael, 91e:82004
 Whittle, P. The statistics of random directed graphs. 91e:60286

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- Leesburg, VA ★ Random media and composites. 91b:00052
 Random media and composites ★ Random media and composites. 91b:00052
 Workshop:
 Random Media and Composites ★ Random media and composites. 91b:00052

82B80 Numerical methods (Monte Carlo, series resummation, etc.) [see also 65-XX, 81T80]

- Alberty, J. M. Monte Carlo simulations on and of two-dimensional dynamical lattices: a theoretical overview. (Not in MR)
 Banzhaf, W. Finding the global minimum of a spin-glass model. (see 91k:92005)
 Bhanot, Gyan A numerical method to compute exactly the partition function with application to $Z(n)$ theories in two dimensions. 91g:82034
 Caracciolo, Sergio (with Pelissetto, Andrea; Sokal, Alan D.) Monte Carlo test of a hyperscaling relation for the two-dimensional self-avoiding walk. II. 91h:82027
 Dufty, James W. *see* Ernst, M. H., 91c:82035 and (Not in MR)
 Ernst, M. H. (with Dufty, James W.) Hydrodynamics and time correlation functions for cellular automata. 91c:82035
 — (with Dufty, James W.) Erratum: "Hydrodynamics and time correlation functions for cellular automata" [J. Statist. Phys. 58 (1990), no. 1-2, 57-86; MR 91c:82035]. (Not in MR)

- Lee, Koo-Chul A new efficient Monte Carlo technique. 91m:82071
- Martin, J. L. The impact of large-scale computing on lattice statistics. 91a:82044
- de Oliveira, P. M. C. *see* Penna, T. J. P. (Not in MR)
- Pelissetto, Andrea *see* Caracciolo, Sergio; et al., 91h:82027
- Penna, T. J. P. (with de Oliveira, P. M. C.) Fully parallel code for Monte Carlo simulation. (Not in MR)
- Sokal, Alan D. *see* Caracciolo, Sergio; et al., 91h:82027
- Swendsen, Robert H. *see* Wang, Jian-Sheng, 91g:82035
- Wang, Jian-Sheng (with Swendsen, Robert H.) Cluster Monte Carlo algorithms. 91g:82035
- Items with secondary classifications in 82B80
- Clouqueur, A. *see* d'Humières, D.; et al., 91h:76064
- Dayantis, Jean *see* Mayer, Jean-Marc; et al., 91d:05065
- Elenin, G. G. (with Troshchikov, Yu. V.) Equilibrium covering of a surface by a layer of adsorbate. Existence, uniqueness and multiplicity of the trivial solution. (Russian) 91g:82036
- Essam, J. W. *see* de Magalhães, A. C. N., 91c:82020
- Guez, Claude *see* Mayer, Jean-Marc; et al., 91d:05065
- Heise, Michael Upper and lower bounds for the partition function of lattice models. 91c:82014
- Hood, Kevin A numerical method for finding the ground states of one-dimensional systems. 91f:65155
- d'Humières, D. (with Clouqueur, A.; Lallemant, P.) Lattice gases and parallel processors. 91h:76064
- Janse van Rensburg, E. J. (with Whittington, S. G.; Madras, N.) The pivot algorithm and polygons: results on the FCC lattice. 91a:82003
- (with Whittington, S. G.) The knot probability in lattice polygons. 91f:82076
- Kosterlitz, J. M. *see* Lee, Jooyoung, 91m:82047
- Lallemant, P. *see* d'Humières, D.; et al., 91h:76064
- Lee, Jooyoung (with Kosterlitz, J. M.) New numerical method to study phase transitions. 91m:82047
- Madras, N. *see* Janse van Rensburg, E. J.; et al., 91a:82003
- de Magalhães, A. C. N. (with Essam, J. W.) The n -component cubic model and flows: subgraph break-collapse method. 91c:82020
- Mariz, Ananias M. Damage spreading in the Potts and Ashkin-Teller models: exact results. 91j:82014
- Mayer, Jean-Marc (with Guez, Claude; Dayantis, Jean) Exact computer enumeration of the number of Hamiltonian paths in small plane square lattices. 91d:05065
- Mertens, S. Lattice animals: a fast enumeration algorithm and new perimeter polynomials. 91d:82021
- Morales, Juan J. (with Nuevo, María J.; Rull, Luis F.) Statistical error methods in computer simulations. 91h:65226
- Morrow, T. J. (with Smith, Edgar Roderick) Simulation calculation of dielectric constants: comparison of methods on an exactly solvable model. (Not in MR)
- Nakayama, Tsuneyoshi *see* Yakubo, Kouzuke, 91f:82039
- Nickel, Bernie G. (with Rehr, J. J.) High-temperature series for scalar-field lattice models: generation and analysis. (Not in MR)
- Nuevo, María J. *see* Morales, Juan J.; et al., 91h:65226
- Park, Hyunggyu (with Widom, Mike) Conformal invariance in incommensurate phases. (Not in MR)
- Rehr, J. J. *see* Nickel, Bernie G., (Not in MR)
- Rull, Luis F. *see* Morales, Juan J.; et al., 91h:65226
- Smith, Edgar Roderick *see* Morrow, T. J., (Not in MR)
- Troshchikov, Yu. V. *see* Elenin, G. G., 91g:82036
- Whittington, S. G. *see* Janse van Rensburg, E. J.; et al., 91a:82003 and 91f:82076
- Widom, Mike *see* Park, Hyunggyu, (Not in MR)
- Yakubo, Kouzuke (with Nakayama, Tsuneyoshi) Dynamics of fractals. (Japanese. English summary) 91f:82039
- Yanitskii, V. E. Kac's model for a gas of N particles and Monte-Carlo simulation in rarefied gas dynamics. (see 91j:60004)

82B99 Miscellaneous topics

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- Arneodo, A. *see* Argoul, F.; et al., 91c:82036
- Cheng, Yi (with Li, Yi Shen; Tang, Guo Xiong) The gauge equivalence of the Davey-Stewartson equation and $(2+1)$ -dimensional continuous Heisenberg ferromagnetic model. 91f:82041
- Dietz, Barbara (with Haake, Fritz) Taylor and Padé analysis of the level spacing distributions of random-matrix ensembles. 91h:82028
- Elenin, G. G. (with Troshchikov, Yu. V.) Equilibrium covering of a surface by a layer of adsorbate. Existence, uniqueness and multiplicity of the trivial solution. (Russian) 91g:82036
- Elzgaray, J. *see* Argoul, F.; et al., 91c:82036
- Firrao, Sisto On Boltzmann's statistical entropy. 91c:82036
- Franklin, Eduardo Superfluidity of the lattice anyon gas. 91j:82030
- Gonchar, N. S. (with Rudyk, A. B.) New approximate equations of the condensed substance state. (Russian. English summary) 91f:82042
- Grasseau, G. *see* Argoul, F.; et al., 91c:82036
- Haake, Fritz *see* Dietz, Barbara, 91h:82028
- van Kampen, N. G. Thermal equilibrium in a gravitational field. (see 91f:81001)
- Li, Yi Shen *see* Cheng, Yi; et al., 91f:82041
- Mandelbrot, Benoit B. New "anomalous" multiplicative multifractals: left sided $f(\alpha)$ and the modelling of DLA. 91j:82031
- Morro, Angelo Continuum description of polyelectrolyte solutions. (see 91m:00030)
- Murenzi, Romain *see* Argoul, F.; et al., 91c:82036
- Rudyk, A. B. *see* Gonchar, N. S., 91f:82042
- Tang, Guo Xiong *see* Cheng, Yi; et al., 91f:82041

- Troshchikov, Yu. V. *see* Elenin, G. G., 91g:82036
- Yan, Horng-Tzer Stability of relativistic Coulomb and gravitating systems. 91b:82030
- Items with secondary classifications in 82B99
- Barchielli, A. (with Lupieri, G.) Convolution semigroups in quantum probability and quantum stochastic calculus. 91a:46060
- Berger, Mitchell A. Third order invariants of randomly braided curves. (see 91h:76005)
- Flyvbjerg, H. (with Petersen, H. G.) Error estimates on averages of correlated data. 91h:65054
- Gilmore, Robert *see* Tuñillaro, N. B.; et al., 91h:58165
- Kaye, Brian H. A random walk through fractal dimensions. 91i:09013
- Lupieri, G. *see* Barchielli, A., 91a:46060
- Mandelbrot, Benoit B. Fractal geometry: what is it, and what does it do? 91d:58160
- Moore, R. R. (with van der Poorten, Alfred J.) On the thermodynamics of curves and other curiosities. 91d:11168
- Petersen, H. G. *see* Flyvbjerg, H., 91h:65054
- van der Poorten, Alfred J. *see* Moore, R. R., 91d:11168
- Robert, Claudine An entropy concentration theorem: applications in artificial intelligence and descriptive statistics. 91j:94010
- Solari, Hernán G. *see* Tuñillaro, N. B.; et al., 91h:58165
- Tuñillaro, N. B. (with Solari, Hernán G.; Gilmore, Robert) Relative rotation rates: fingerprints for strange attractors. 91h:58165
- Voss, Richard F. Random fractals: self-affinity in noise, music, mountains, and clouds. 91c:00021

82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)

- Brenig, Wilhelm ★ Statistical theory of heat. 91c:82037

82C03 Foundations

- Batterman, Robert W. Irreversibility and statistical mechanics: a new approach? 91h:82037
- (Gibbs, Josiah Willard) *see* Oppenheim, Irwin, (91j:00016)
- Haken, Hermann (with Wunderlin, A.) A macroscopic approach to synergetics. 91m:82072
- Oono, Yoshitsugu Large deviation and statistical physics. 91m:82073
- Oppenheim, Irwin Ensembles versus assemblies and the approach to equilibrium. (see 91j:00016)
- Wunderlin, A. *see* Haken, Hermann, 91m:82072
- Items with secondary classifications in 82C03
- Breuer, H. P. (with Dietz, Klaus P.; Holthaus, M.) On the classical dynamics of strongly driven anharmonic oscillators. 91m:70026
- (Brewer, W. D.) *see* Flick, Eugen, 91m:82001
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- Dietz, Klaus P. *see* Breuer, H. P.; et al., 91m:70026
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82C05 Classical dynamic and nonequilibrium statistical mechanics (general)

- Aizawa, Yaji Nonstationary chaos revisited from large deviation theory. 91k:82038
- Borgioli, Giovanni (with Totaro, Silvia) A particle transport problem with a quadratic nonlinearity and general boundary conditions: the stationary solution. (Italian summary) 91b:82029
- Bray, A. J. (with McKane, A. J.; Newman, T. J.) Path integrals and non-Markov processes. II. Escape rates and stationary distributions in the weak-noise limit. 91h:82033
- *see also* McKane, A. J.; et al., 91h:82032
- Bulough, R. K. (with Pilling, D. J.; Timonen, J.) Quantum and classical statistical mechanics of integrable model in $1+1$ dimensions: some recent results. (see 91j:58005)
- Caderoni, P. (with Pellegrinotti, A.; Presutti, Enrico; Vares, Maria Eulalia) Transient bimodality in interacting particle systems. 91d:82022
- Chauvin, Brigitte (with Giroux, Gaston) A geometric rate of convergence to the equilibrium for Boltzmann processes with multiple particle interactions. 91m:82074
- Chernyak, V. Ya. *see* Novikov, M. Yu.; et al., 91k:82041
- Coffey, W. T. On the direct derivation of Brinkman's hierarchy of differential-difference equations for ensemble averages from the Langevin equation. 91d:82023
- Fox, Ronald F. Master equation for the logistic map. 91k:82039

- Geisel, T. (with Radons, G.; Rubner, J.; Zacherl, A.) Phase-space diffusion in the classical and quantum mechanics of chaotic systems. **91h:82030**
- Giroux, Gaston *see* Chauvin, Brigitte, **91m:82074**
- Goldstein, Sheldon (with Kuik, Roelof; Lebowitz, Joel L.; Maes, Christian) From PCAs to equilibrium systems and back. **91h:82031**
- Hata, Hiroki *see* Mori, Hazime; et al., **91k:82040a**
- Horita, Takehiko *see* Mori, Hazime; et al., **91k:82040a**
- Kästner, Jochen (with Zylka, Christian) An application of majorization in the theory of dynamical systems. **91m:82075**
- Klimontovich, Yu. L. Dynamic and statistical methods in the theory of nonequilibrium processes. (Russian) **91g:82037**
- Kobayashi, Tatsuharu *see* Mori, Hazime; et al., **91k:82040a**
- Kuik, Roelof *see* Goldstein, Sheldon; et al., **91h:82031**
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- Lima, Ricardo (with Rahibe, Mohamed) A crossover in the scaling law of the Lyapunov exponent. **91e:82038**
- Luckock, H. C. *see* McKane, A. J.; et al., **91b:82032**
- Maes, Christian *see* Goldstein, Sheldon; et al., **91h:82031** and **Lebowitz, Joel L.; et al., 91h:82012**
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- Mori, Hazime (with Hata, Hiroki; Horita, Takehiko; Kobayashi, Tatsuharu) Statistical mechanics of dynamical systems. **91k:82040a**
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- Nekrasov, E. A. On the theory of mutual diffusion in multicomponent metallic alloys. **91m:82077**
- Newman, T. J. *see* Bray, A. J.; et al., **91h:82033**
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- Pellegrinotti, A. *see* Caderoni, P.; et al., **91d:82022**
- Pilling, D. J. *see* Bullough, R. K.; et al., (91j:58005)
- Popov, E. F. *see* Vorob'eva, M. V., **91e:82039**
- Posch, H. A. (with Narnhofer, Heide; Thirring, W.) Dynamics of unstable systems. **91j:82033**
- Presutti, Errico *see* Caderoni, P.; et al., **91d:82022**
- Radons, G. *see* Geisel, T.; et al., **91h:82030**
- Rahibe, Mohamed *see* Lima, Ricardo, **91e:82038**
- Rubner, J. *see* Geisel, T.; et al., **91h:82030**
- Siegmund-Schultze, Ra. On nonequilibrium dynamics of infinite classical particle systems with a singular long-range interaction. **91m:82078**
- Sorin, A. S. *see* Novikov, M. Yu.; et al., **91k:82041**
- Speer, Eugene R. *see* Lebowitz, Joel L.; et al., **91h:82012**
- Szuchanek, Zdzisław An L^1 extension of stochastic dynamics for irreversible systems. **91a:82046**
- Thirring, W. *see* Posch, H. A.; et al., **91j:82033**
- Timonen, J. *see* Bullough, R. K.; et al., (91j:58005)
- Totaro, Silvia *see* Borgioli, Giovanni, **91h:82029**
- Vares, Maria Emilia *see* Caderoni, P.; et al., **91d:82022**
- Vorob'eva, M. V. (with Popov, E. F.) On kinetic equations for an electron-oscillator system of a crystal lattice. (Russian. English and Ukrainian summaries) **91e:82039**
- Zacherl, A. *see* Geisel, T.; et al., **91h:82030**
- Zerski, H. One-dimensional chain of dipoles. (see **91m:00030**)
- Zylka, Christian An inequality for partition functions with disturbed Hamiltonians. **91g:82038**
- *see also* Kästner, Jochen, **91m:82075**

Items with secondary classifications in 82C05

- Abramovic, Gilles *see* Aubry, Serge, **91j:58100**
- Adler, Robert J. The net charge process for interacting, signed diffusions. **91h:60272**
- Aizawa, Yoji *see* Kikuchi, Yasuhiro, (Not in MR)
- Aslangul, Claude (with Pottier, Noëlle; Saint-James, Daniel) Random walk in a one-dimensional random medium. **91d:82037**
- Aubry, Serge (with Abramovic, Gilles) Chaotic trajectories in the standard map. The concept of anti-integrability. **91j:58100**
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- Balderas-López, J. A. *see* Wassam, W. A., Jr.; et al., **91j:82038**
- Banach, Z. On the analogue of Grad's moment procedure for a one-dimensional gas of quasi-particles. (see **91m:00030**)
- Barlow, Martin T. (with Bass, Richard F.) The construction of Brownian motion on the Sierpiński carpet. (French summary) **91d:60183**
- Bass, Richard F. *see* Barlow, Martin T., **91d:60183**
- Batterman, Robert W. Irreversibility and statistical mechanics: a new approach? **91k:82037**
- Beck, Christian Ergodic properties of a kicked damped particle. **91f:58050**
- Brownian motion from deterministic dynamics. **91m:82099**

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- Casazza, M. G. (with Swift, J. B.) Scaling properties of multifractal functions at an attractor-repeller transition. **91b:58141**
- Dalfo, Hiroaki Intrinsic fluctuations and a phase transition in a class of large populations of interacting oscillators. **91m:82092**
- Dobrushin, R. L. *see* Bunimovich, L. A.; et al., **91i:58079**
- Esposito, Raffaele (with Pulvirenti, M.) Statistical solutions of the Boltzmann equation near the equilibrium. **91c:82053**
- Falcioni, Massimo (with Isola, Stefano; Vulpiani, Angelo) Correlation functions and relaxation properties in chaotic dynamics and statistical mechanics. **91b:82039**
- Ferrari, Pablo Augusto Ergodicity for spin systems with stirrings. **91k:60112**
- Fleischmann, Klaus (with Molchanov, S. A.) Exact asymptotics in a mean field model with random potential. **91k:60113**
- Frigerio, Alberto Simulated annealing and quantum detailed balance. **91a:82047**
- Frosali, Giovanni (with van der Meer, Cornelis V. M.) Scattering theory relevant to the linear transport of particle swarms. **91b:82051**
- Funaki, Tadahisa Derivation of the hydrodynamical equation for one-dimensional Ginzburg-Landau model. **91c:60141**
- Galves, Antonio (with Martinelli, Fabio; Olivieri, Enzo) Large-density fluctuations for the one-dimensional superscritical contact process. **91b:60081**
- (with Schmitt, Bruno V.) Occurrence times of rare events for mixing dynamical systems. (French summary) **91m:58091**
- Gerasimov, A. L. Phase convection and distribution "tails" in periodically driven Brownian motion. **91g:58263**
- Gurevich, B. M. Dynamics of infinite particle systems and Gibbs point random fields. (see **91j:60003**)
- Hänsch, W. (with Schmeiser, Christian) Hot electron transport in semiconductors. (German summary) **91c:82062**
- Isola, Stefano *see* Falcioni, Massimo; et al., **91b:82039**
- Kikuchi, Yasuhiro (with Aizawa, Yoji) Anomalous convergence of the time average in semi-Markovian chaotic dynamics. (Not in MR)
- Kornfeld, I. P. *see* Bunimovich, L. A.; et al., **91i:58079**
- Le Berre, M. (with Ressayre, E.; Tallet, A.; Pomeau, Yves) Dynamic system driven by a retarded force acting as colored noise. **91b:58154**
- Maes, Christian Some aspects of the stochastic time evolution of interacting spin systems. **91m:82086**
- Martinelli, Fabio *see* Galves, Antonio; et al., **91b:60081**
- Maslova, N. B. *see* Bunimovich, L. A.; et al., **91i:58079**
- Medvedev, B. V. Dynamic stochasticity and integrals of motion. **91h:58072**
- van der Meer, Cornelis V. M. *see* Frosali, Giovanni, **91b:82051**
- Molchanov, S. A. *see* Fleischmann, Klaus, **91k:60113**
- Monge, Alessandro The phenomenon of diverging phase-space trajectories for a class of Hamiltonian maps. **91m:58105**
- Olivieri, Enzo *see* Galves, Antonio; et al., **91b:60081**
- Oono, Yoshitsugu Large deviation and statistical physics. **91m:82073**
- Pavlovskii, I. P. Bogolyubov chains and Vlasov and Wigner kinetic equations in post-Galilean approximation. (Russian) **91e:82058**
- Pesin, Ya. B. *see* Bunimovich, L. A.; et al., **91i:58079**
- Pilz, Lothar Gibbs measures for cell systems. (see **91j:92001**)
- Pomeau, Yves *see* Le Berre, M.; et al., **91b:58154**
- Pottier, Noëlle *see* Aslangul, Claude; et al., **91d:82037**
- Presutti, Errico Collective behaviour of interacting particle systems. (see **91j:60003**)
- Pulvirenti, M. *see* Esposito, Raffaele, **91c:82053**
- Ressayre, E. *see* Le Berre, M.; et al., **91b:58154**
- Saint-James, Daniel *see* Aslangul, Claude; et al., **91d:82037**
- Schmeiser, Christian *see* Hänsch, W., **91c:82062**
- Schmitt, Bruno V. *see* Galves, Antonio, **91m:58091**
- Sinai, Ya. G. *see* Bunimovich, L. A.; et al., **91i:58079**
- Sukhov, Yu. M. *see* Bunimovich, L. A.; et al., **91i:58079**
- Swift, J. B. *see* Casazza, M. G., **91b:58141**
- Tallet, A. *see* Le Berre, M.; et al., **91b:58154**
- Tokarchuk, V. V. Barnett approximation in the theory of hydrodynamic fluctuations. **91d:82035**
- Torres-Vega, Go. *see* Wassam, W. A., Jr.; et al., **91j:82038**
- Vershik, A. M. *see* Bunimovich, L. A.; et al., **91i:58079**
- Vulpiani, Angelo *see* Falcioni, Massimo; et al., **91b:82039**
- Wassam, W. A., Jr. (with Balderas-López, J. A.; Torres-Vega, Go.) Stationarity of time correlation functions for globally linear classical systems and its consequences. **91j:82038**
- Wojtkowski, Maciej P. A system of one-dimensional balls with gravity. **91h:58066**
- Yakobson, M. V. *see* Bunimovich, L. A.; et al., **91i:58079**

82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)

- Alicki, R. (with Majewski, W. A.) On a general characterization of nonlinear quantum dynamical maps. **91g:82039**
- Amiet, J.-P. *see* Cibils, M. B.; et al., **91e:82040**
- Anikonov, Yu. E. Univalence of the solution of an inverse problem for a quantum kinetic equation. **91e:82043**
- Auditi, Philippe (with Truong, T. T.) Arithmetical finite-size corrections in one-dimensional quantum systems. **91i:82014**
- Beck, Hans *see* Cibils, M. B.; et al., **91e:82040**
- Benatti, Fabio On the mixing-enhancing structure of a class of quantum dynamical semigroups. **91j:82034**
- Breuer, H. P. (with Dietz, Klaus P.; Holthaus, M.) Transport of quantum states of periodically driven systems. **91h:82034**
- Čápek, V. Modified Tokuyama-Mori theory: application to quantum diffusion problem. **91d:82024**

- Carvalho, Maria Conceição V. A convergent virial expansion for the quantum Lorentz gas with point interactions. 91c:82038
- Chebotaev, A. M. Necessary and sufficient conditions for the conservativity of dynamical semigroups. (Russian) 91j:82035
- Cibils, M. B. (with Cuhe, Y.; Wreszinski, Walter F.; Amiet, J.-P.; Beck, Hans) On the classical limits in the spin-boson model. 91c:82040
- Cuhe, Y. see Cibils, M. B.; et al., 91c:82040
- Dietz, Klaus P. see Brueser, H. P.; et al., 91b:82034
- Dorlas, T. C. see Van den Berg, Michiel; et al., 91c:82037
- Ebeling, Werner (with Engel-Herbert, H.) Entropy lowering and attractors in phase space. 91d:82025
- Engel-Herbert, H. see Ebeling, Werner, 91d:82025
- Ford, G. W. see Li, Xiao Lin; et al., 91c:82041
- Frigerio, Alberto Simulated annealing and quantum detailed balance. 91a:82047
- Goderis, D. (with Verbeure, A.; Vets, P.) Dynamics of fluctuations for quantum lattice systems. 91c:82039
- Holthaus, M. see Brueser, H. P.; et al., 91b:82034
- It's, A. R. (with Izergin, A. G.; Korepin, V. E.) Temperature correlators of the impenetrable Bose gas as an integrable system. 91b:82035
- Izergin, A. G. see It's, A. R.; et al., 91c:82035
- Janyaszek, H. (with Mrugała, R.) Riemannian geometry and stability of ideal quantum gases. 91d:82026
- Korepin, V. E. (with Slavnov, N. A.) The time dependent correlation function of an impenetrable Bose gas as a Fredholm minor. I. 91c:82040
- see also It's, A. R.; et al., 91b:82035
- Lebowitz, Joel L. see Nielaba, P.; et al., 91c:82043
- Lewis, John Trevor see Van den Berg, Michiel; et al., 91c:82037
- Li, Xiao Lin (with Ford, G. W.; O'Connell, R. F.) Magnetic-field effects on the motion of a charged particle in a heat bath. 91c:82041
- Lindblad, Göran Dynamical entropy for quantum systems. 91c:82042
- Majewski, W. A. see Alicke, R., 91c:82039
- Makowski, Adam J. Master equations through cumulant techniques. 91b:82036
- Mori, Hiroyuki Fractional-statistics gas in the boson representation. 91m:82079
- Mrugała, R. see Janyaszek, H., 91d:82026
- Nielaba, P. (with Lebowitz, Joel L.; Spohn, Herbert; Vallés, J. L.) Behavior of a quantum particle in contact with a classical heat bath. 91c:82043
- O'Connell, R. F. Quantum distribution functions in nonequilibrium statistical mechanics. (see 91m:82002)
- see also Li, Xiao Lin; et al., 91c:82041
- Ojima, Izumi Entropy production and nonequilibrium stationarity in quantum dynamical systems. Physical meaning of van Hove limit. 91c:82044
- Pulé, J. V. see Van den Berg, Michiel; et al., 91c:82037
- Razavy, M. Equation-of-motion approach to the problem of damped motion in quantum mechanics. 91a:82048
- Rybaczuk, M. (with Weron, K.) Linearly coupled quantum oscillators with Lévy stable noise. 91f:82044
- Saermann, G. (with Zhang, Yu Mei) Steady state of periodically driven systems in quantum statistics. 91g:82040
- Sek, J. Self-consistent projection-operator method for describing the non-Markovian time-evolution of subsystems. 91a:82049
- Slavnov, N. A. A time-difference correlator of currents in the one-dimensional Bose gas. 91d:82027
- see also Korepin, V. E., 91c:82040
- Slemrod, M. Trend to equilibrium in the Becker-Deering cluster equations. 91c:82041
- Spohn, Herbert see Nielaba, P.; et al., 91c:82043
- Truong, T. T. see Audt, Philippe, 91f:82014
- Tserkvalkov, Yu. A. On the theory of a nonideal Bose gas. (Russian) 91a:82050
- Unnerstall, T. Schrödinger dynamics and physical folia of infinite mean-field quantum systems. 91m:82080
- The dynamics of infinite open quantum systems. 91j:82036
- Vallés, J. L. see Nielaba, P.; et al., 91c:82043
- Van den Berg, Michiel (with Dorlas, T. C.; Lewis, John Trevor; Pulé, J. V.) A perturbed mean field model of an interacting boson gas and the large deviation principle. 91c:82037
- Verbeure, A. see Goderis, D.; et al., 91c:82039
- Vets, P. see Goderis, D.; et al., 91c:82039
- Weron, K. see Rybaczuk, M., 91f:82044
- Wreszinski, Walter F. see Cibils, M. B.; et al., 91c:82040
- Yukalov, V. I. Statistical mechanics of strongly nonideal systems. 91g:82041
- Zhang, Yu Mei see Saermann, G., 91g:82040
- Items with secondary classifications in 82C10
- Amann, Anton Perturbation theory of boson dynamical systems. 91j:81030
- Artem'ev, A. Ya. Quantum Markov kinetic equation for a spin system with breaking. 91f:81066
- Balderas-López, J. A. see Wassam, W. A., Jr.; et al., 91j:82038
- Bellissard, Jean C^* algebras in solid state physics. 2D electrons in a uniform magnetic field. 91c:46094
- Bogolyubov, N. N. (with Bogolyubov, N. N., Jr.) ★ Some aspects of polaron theory. 91b:81194
- Bogolyubov, N. N., Jr. see Bogolyubov, N. N., 91b:81194
- (Brewer, W. D.) see Fick, Eugen, 91m:82001
- Chakrabarti, R. (with Vasudevan, R.) Quantum Langevin equation: a quadratic system. 91b:82037
- Ding, E. Jiang see Li, Yan Nan; et al., 91j:35268
- Fick, Eugen (with Saermann, G.) ★ The quantum statistics of dynamic processes. 91m:82001
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- Huang, Zu Qia see Li, Yan Nan; et al., 91j:35268
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- Izergin, A. G. see It's, A. R.; et al., 91b:82009
- Janyaszek, H. Riemannian geometry and stability of thermodynamical equilibrium systems. 91d:82029
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- Lee, Chahn New approach to study critical dynamics by using continued fraction representation. 91c:82047
- Lima, Ricardo (with Rahibe, Mohamed) A crossover in the scaling law of the Lyapunov exponent. 91c:82038
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- Li, Yan Nan (with Ding, E. Jiang; Huang, Zu Qia) The behavior of the Fokker-Planck equation in the limit of large times. (Chinese. English summary) 91j:35268
- Majewski, W. A. On completely positive nonlinear dynamical semigroups. 91f:46093
- Narnhofer, Helge Beispiele von Algebren mit gleicher dynamischer Entropie. (English summary) [Examples of algebras with equal dynamic entropy] 91g:46078
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- Rubner, J. see Gesiel, T.; et al., 91b:82030
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- Spohn, Herbert (with Stückli, R.; Wreszinski, Walter F.) Localisation for the spin J -boson Hamiltonian. (French summary) 91m:81132
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- Setner, Klaus Classifying circular cellular automata. 91b:68154
- Thirring, W. Entropy increase and K -systems in quantum theory. 91b:82012
- Torres-Vega, Go. see Wassam, W. A., Jr.; et al., 91j:82038
- Vasudevan, R. see Chakrabarti, R., 91b:82037
- Walls, D. F. Quantum statistics of nonlinear optics. (see 91m:82002)
- Wassam, W. A., Jr. (with Balderas-López, J. A.; Torres-Vega, Go.) Stationarity of time correlation functions for globally linear classical systems and its consequences. 91j:82038
- Wreszinski, Walter F. see Spohn, Herbert; et al., 91m:81132
- Zacherl, A. see Gesiel, T.; et al., 91b:82030

82C20 Dynamic lattice systems (kinetic Ising, etc.)

- Aleiner, I. D. (with Migdal, Alexander A.; Zmushko, V. V.) The Ising model on the dynamical triangulated random surface. 91c:82042
- Balakrishnan, Radha (with Bishop, Alan R.; Dandolo, Rossen) Geometric phase in the classical continuous antiferromagnetic Heisenberg spin chain. 91b:82031
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- Binder, P. M. Topological classification of cellular automata. (Not in MR)
- Bishop, Alan R. see Balakrishnan, Radha; et al., 91b:82037 and 91b:82031
- Bogolyubov, N. M. (with Korepin, V. E.) Correlation functions of the one-dimensional Hubbard model. 91c:82045
- Borovik, A. E. (with Popkov, V. Yu.) Completely integrable spin-1 chains. 91m:82081
- Brummelhuis, M. J. A. M. (with Hilhorst, H. J.) Correlations between two Ising chains subjected to a common thermal noise. 91m:82082
- Bruno, Oscar P. (with Golden, Kenneth M.) Interchangeability and bounds on the effective conductivity of the square lattice. 91m:82083
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- Dandolo, Rossen see Balakrishnan, Radha; et al., 91b:82037 and 91b:82031
- Domany, Eytan see Kandel, Daniel, 91a:82051 and 91m:82085
- Efremovich, M. M. see Vinogradov, G. A.; et al., (Not in MR)
- Ernst, M. H. (with Nieuwenhuizen, Th. M.; van Velthoven, P. F. J.) Density expansion of transport coefficients on a 2D site-disordered lattice. II. 91g:82050
- Eynak, Gregory (with Lebowitz, Joel L.; Spohn, Herbert) Hydrodynamics of stationary nonequilibrium states for some stochastic lattice gas models. 91f:82046
- Fried, Harry The checkerboard update Glauber model, cellular automata and Ising models. 91m:82084
- Golden, Kenneth M. see Bruno, Oscar P., 91m:82083
- Hilhorst, H. J. see Brummelhuis, M. J. A. M., 91m:82082
- Kamphorst Leal da Silva, J. see Soares, M. Silvério, 91c:82046
- Kandel, Daniel (with Domany, Eytan; Nienhuis, Bernard) A six-vertex model as a diffusion problem: derivation of correlation functions. 91m:82085
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- Klein, L. W. see Chen, Hudong; et al., 91f:82015
- Korepin, V. E. see Bogolyubov, N. M., 91c:82045
- Lebowitz, Joel L. (with Maes, Christian; Speer, Eugene R.) Probabilistic cellular automata: some statistical mechanical considerations. (see 91m:80034)
- see also Eynak, Gregory; et al., 91f:82046
- Likhschev, V. N. see Vinogradov, G. A.; et al., (Not in MR)
- Lin, Zhi Fang (with Zheng, Da Fang; Tao, Rui Bao) Critical dynamics of the kinetic Potts model on some fractals. (Not in MR)
- Maes, Christian Some aspects of the stochastic time evolution of interacting spin systems. 91m:82086
- see also Lebowitz, Joel L.; et al., (91m:80034)
- Martins, Márcio José Critical properties of $U_1(SU(2))$ -invariant spin-1 chain. (Not in MR)
- Matthaeus, W. H. see Chen, Hudong; et al., 91f:82015
- Migdal, Alexander A. see Aleiner, I. D.; et al., 91c:82042

- Montorsi, Arianna (with Rasetti, Mario; Solomon, Allan I.) The linearized Hubbard model: dynamical superalgebra and supersymmetry. (Not in MR)
- Nienhuis, Bernard see Kandel, Daniel; et al., 91m:82085
- Nieuwenhuis, Th. M. see Ernst, M. H.; et al., 91g:82050
- Poland, Douglas The one-dimensional kinetic Ising model: a series expansion study. 91f:82047
- Relaxation in cooperative systems: use of mixture virial coefficients. (Not in MR)
- Popkov, V. Yu. see Borovik, A. E., 91m:82081
- Rasetti, Mario see Montorsi, Arianna; et al., (Not in MR)
- Schommers, Roberto H. Finite size scaling behavior of a biased majority rule cellular automaton. 91m:82087
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- Spohn, Herbert Tracer diffusion in lattice gases. 91m:82088
- see also Eyink, Gregory; et al., 91f:82046
- Takano, Shozo Localized modes in the long-time behavior of anharmonic lattices. 91d:82028
- Tao, Rui Bao see Lin, Zhi Fang; et al., (Not in MR)
- van Velthoven, P. F. J. see Ernst, M. H.; et al., 91g:82050
- Vinogradov, G. A. (with El'yashevich, M. M.; Likhachev, V. N.) On ergodicity of an integrable system (the Toda chain). (Not in MR)
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- Audit, Philippe (with Truong, T. T.) Arithmetical finite-size corrections in one-dimensional quantum systems. 91f:82014
- Barbé, André M. A cellular automaton ruled by an eccentric conservation law. 91k:68149
- Bunimovich, L. A. Space-time chaos and the generation of coherent structures in map lattices. (Russian) 91g:58179
- Carlson, Lee (with Schieve, W. C.) The noisy shift map. 91f:58025
- Chen, Yang Holes in Heisenberg antiferromagnets. 91d:82044
- Chernovskii, V. O. see Krivnov, V. Ya.; et al., 91g:82016
- Culik, Karel, II (with Hurd, Lyman P.; Yu, Sheng) Computation theoretic aspects of cellular automata. 91k:68150
- Derrida, Bernard Dynamical phase transitions in spin models and automata. (see 91k:82003)
- Goderis, D. (with Verbeure, A.; Vets, P.) Dynamics of fluctuations for quantum lattice systems. 91c:82039
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- Kaplan, Theodore see Lin, Samuel Hsi-geh; et al., 91h:82036
- Kari, Jarkko Reversibility of 2D cellular automata is undecidable. 91k:68152
- Kopčanský, P. see Marko, P.; et al., (Not in MR)
- Krivnov, V. Ya. (with Ovchinnikov, A. A.; Chernovskii, V. O.) Some properties of the Hubbard model with infinite repulsion. 91g:82016
- Kumar, Sanjay (with Singh, Yashwant X.) Collapse transition of linear polymers on a family of truncated n -simplex lattices. 91m:82151
- Kupka, M. see Marko, P.; et al., (Not in MR)
- Lallemand, P. see d'Humières, D.; et al., 91a:76072
- Lee, Chahn New approach to study critical dynamics by using continued fraction representation. 91d:82047
- Li, Bo Zang see Fu, Fu Ke, 91d:82043
- Lin, Samuel Hsi-geh (with Kaplan, Theodore; Gray, L. J.) Geometry and dynamics of deterministic sand piles. 91h:82036
- Marko, P. (with Kupka, M.; Kopčanský, P.) The annealed many-bonds Ising model. (Not in MR)
- Mokole, E. L. (with Mullikin, A. L.; Sledd, M. B.) Exact and steady-state solutions to sinusoidally excited, half-infinite chains of harmonic oscillators with one isotopic defect. 91g:82042
- Mullikin, A. L. see Mokole, E. L.; et al., 91g:82042
- Neuhauser, Claudia One-dimensional stochastic Ising models with small migration. 91k:60116
- Ovchinnikov, A. A. see Krivnov, V. Ya.; et al., 91g:82016
- Pippenger, Nicholas Random sequential adsorption on graphs. 91f:60189
- Fu, Fu Ke (with Li, Bo Zang) The bifurcation analysis for the continuous and discontinuous transitions of the magnetization distribution in ferromagnets. 91d:82043
- Qian, Yue Hong see d'Humières, D.; et al., 91a:76072
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- Schommers, Roberto H. (with Tanaka, Nelson I.) One-dimensional caricature of phase transition. 91m:82096
- Singh, Yashwant X. see Kumar, Sanjay, 91m:82151
- Sledd, M. B. see Mokole, E. L.; et al., 91g:82042
- Takahashi, Satoshi Cellular automata and multifractal: dimension spectra of linear cellular automata. 91k:68155
- Tanaka, Nelson I. see Schommers, Roberto H., 91m:82096
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- van Velzen, G. A. Lattice Lorentz gas: kinetic theory. (Not in MR)
- Verbeure, A. see Goderis, D.; et al., 91c:82039
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82C21 Dynamic continuum models (systems of particles, etc.)

Items with secondary classifications in 82C21

- Gärtner, Jürgen (with Presutti, Errico) Shock fluctuations in a particle system. (French summary) 91m:60185
- Given, James A. (with Stell, George) The Kirkwood-Salsburg equations for random continuum percolation. 91m:82125
- Kono, Kimiaki Relationship among modified WKI equation, equation of motion of a thin vortex filament and that of a continuous Heisenberg spin system. (Not in MR)
- Presutti, Errico see Gärtner, Jürgen, 91m:60185
- Stell, George see Given, James A., 91m:82125

82C22 Interacting particle systems [see also 60K35]

- Dào Quang Tuyền see Erdős, L., 91k:82042
- Erdős, L. (with Đào Quang Tuyền) Ergodic properties of the multidimensional Rayleigh gas with a semipermeable barrier. 91k:82042
- Galves, Antonio (with Schinazi, Rinaldo B.) Approximations finies de la mesure invariante du processus de contact sur-critique vu par la première particule. (English summary) [Finite approximations of the invariant measure of the supercritical contact process as seen from the first particle] 91c:82043
- Grannan, E. R. (with Swindle, G. H.) Rigorous results on mathematical models of catalytic surfaces. 91m:82089
- Rezakhanlou, Fraydoun Hydrodynamic limit for a system with finite range interactions. 91h:82032
- Schinazi, Rinaldo B. see Galves, Antonio, 91c:82043
- Swindle, G. H. see Grannan, E. R., 91m:82089
- Items with secondary classifications in 82C22**
- Ginzburg, S. L. ★ Необратимые явления в спинных стеклах. (Russian) [Irreversible phenomena in spin glasses] 91f:82001
- Katori, Makoto (with Konno, Norio) Correlation inequalities and lower bounds for the critical value λ_c of contact processes. 91h:60114
- Konno, Norio see Katori, Makoto, 91h:60114
- Nappo, G. (with Orlandi, Enzo; Rost, H.) A reaction-diffusion model for moderately interacting particles. 91a:60276
- Orlandi, Enzo see Nappo, G.; et al., 91a:60276
- Rost, H. see Nappo, G.; et al., 91a:60276

82C23 Exactly solvable dynamic models [see also 58F07]

- Mokole, E. L. (with Mullikin, A. L.; Sledd, M. B.) Exact and steady-state solutions to sinusoidally excited, half-infinite chains of harmonic oscillators with one isotopic defect. 91g:82042
- Mullikin, A. L. see Mokole, E. L.; et al., 91g:82042
- Sledd, M. B. see Mokole, E. L.; et al., 91g:82042
- Items with secondary classifications in 82C23**
- Cornille, Henri Two-velocity discrete Boltzmann models: positivity and the H -theorem. 91e:82053
- Dinariy, O. Yu. Quantization of an exactly solvable model with dissipation. 91k:81193
- Dobrushin, R. L. (with Pellegrinotti, A.; Sukhov, Yu. M.) One-dimensional harmonic lattice caricature of hydrodynamics: a higher correction. 91j:82049
- Domany, Eytan see Kandel, Daniel; et al., 91m:82085
- Griffiths, Robert B. (with Schellnhuber, H. J.; Urbach, H.) Exactly solvable model for cantorus phase transitions. 91m:82093
- Hasslacher, Brosl (with Meyer, David A.) Knot invariants and cellular automata. 91m:82035
- Kandel, Daniel (with Domany, Eytan; Nienhuis, Bernard) A six-vertex model as a diffusion problem: derivation of correlation functions. 91m:82085
- Launer, Guy see Martin, Paul P.; et al., 91m:16035
- Martin, Paul P. (with Launer, Guy; Westbury, B. W.) The Potts models and a generalisation of the Clifford algebras. 91m:16035
- Meyer, David A. see Hasslacher, Brosl, 91m:82035
- Monson, P. A. The properties of inhomogeneous square-well mixtures in one dimension. 91m:82076
- Nienhuis, Bernard see Kandel, Daniel; et al., 91m:82085
- Pellegrinotti, A. see Dobrushin, R. L.; et al., 91j:82049
- Schellnhuber, H. J. see Griffiths, Robert B.; et al., 91m:82093
- Sukhov, Yu. M. see Dobrushin, R. L.; et al., 91j:82049
- Urbach, H. see Griffiths, Robert B.; et al., 91m:82093
- Westbury, B. W. see Martin, Paul P.; et al., 91m:16035

82C24 Interface problems

- Bunker, B. C. see Schaefer, D. W.; et al., 91h:82033
- Fejzian, S. (with Percus, J. K.) Collective modes in a one-dimensional nonuniform fluid model. 91m:82090
- Gates, D. J. (with Westcott, M.) On the stability of crystal growth. 91f:82016
- Krug, Joachim (with Meakin, Paul) Kinetic roughening of Laplacian fronts. (Not in MR)
- Meakin, Paul see Krug, Joachim, (Not in MR)
- Mézard, Marc (with Parisi, Giorgio) Interfaces in a random medium and replica symmetry breaking. (Not in MR)
- Parisi, Giorgio see Mézard, Marc, (Not in MR)
- Percus, J. K. see Fejzian, S., 91m:82090
- Schaefer, D. W. (with Bunker, B. C.; Wilcoxon, J. P.) Fractals and phase separation. 91h:82033
- Westcott, M. see Gates, D. J., 91f:82016
- Wilcoxon, J. P. see Schaefer, D. W.; et al., 91h:82033

Items with secondary classifications in 82C24

- Abraham, D. B. (with Collet, P.; De Coninck, Joël; Dunlop, François) Langevin dynamics of spreading and wetting. 91m:82042
- Caginap, G. The dynamics of a conserved phase field system: Stefan-like, Hele-Shaw, and Cahn-Hilliard models as asymptotic limits. 91d:35237
- Cimmelli, Vito Antonio (with Starita, Giulio) Nonlocal variational theories for systems with an interface. 91g:73003
- (with Romano, Antonio; Starita, Giulio) The Gibbs principle for the equilibrium of crystals. 91g:73004
- Collet, P. see Abraham, D. B.; et al., 91m:82042
- De Coninck, Joël see Abraham, D. B.; et al., 91m:82042
- Dunlop, François see Abraham, D. B.; et al., 91m:82042
- Romano, Antonio see Cimmelli, Vito Antonio; et al., 91g:73004
- Slemrod, M. The relaxed invariance principle and weakly dissipative infinite-dimensional dynamical systems. 91h:35059
- Starita, Giulio see Cimmelli, Vito Antonio, 91g:73003 and 91g:73004

82C26 Dynamic and nonequilibrium phase transitions (general)

- Bebie, H. (with Marchand, J.-P.) A diffusion-anti-diffusion phase transition. 91m:82091
- Buffet, E. (with Pulé, J. V.) On Lushnikov's model of gelation. 91f:82048
- Daido, Hiroaki Intrinsic fluctuations and a phase transition in a class of large populations of interacting oscillators. 91m:82092
- Derrida, Bernard Dynamical phase transitions in networks of random automata. 91a:82052
- Dynamical phase transitions in spin models and automata. (see 91k:82003)
- Di Cera, Enrico see Phillipson, Paul E., 91m:82094
- Fife, Paul C. see Penrose, Oliver, 91h:82034
- Griffiths, Robert B. (with Schellnhuber, H. J.; Urbach, H.) Exactly solvable model for cantorous phase transitions. 91m:82093
- Honda, Katsuya see Sato, Shinichi¹, 91m:82095
- Janysek, H. Riemannian geometry and stability of thermodynamical equilibrium systems. 91d:82029
- Kuni, F. M. (with Melikhov, A. A.) Multidimensional kinetic theory of phase transitions of the first kind. 91c:82044
- Marchand, J.-P. see Bebie, H., 91m:82091
- Matthews, Paul C. (with Strogatz, Steven H.) Phase diagram for the collective behavior of limit-cycle oscillators. 91g:82043
- Melikhov, A. A. see Kuni, F. M., 91c:82044
- Mirollo, Renato E. (with Strogatz, Steven H.) Jump bifurcation and hysteresis in an infinite-dimensional dynamical system of coupled spins. 91b:82038
- Penrose, Oliver (with Fife, Paul C.) Thermodynamically consistent models of phase-field type for the kinetics of phase transitions. 91h:82034
- Phillipson, Paul E. (with Di Cera, Enrico) Generalized form of the Maxwell rule from stochastic dynamics. 91m:82094
- Pulé, J. V. see Buffet, E., 91f:82048
- Sato, Shinichi¹ (with Honda, Katsuya) Statistical physics of intermittency: phase transitions and fluctuations of scaling indices. 91m:82095
- Schellnhuber, H. J. see Griffiths, Robert B.; et al., 91m:82093
- Schomann, Roberto H. (with Tanaka, Nelson I.) One-dimensional caricature of phase transition. 91m:82096
- Sprekels, Jürgen (with Zheng, Song Mu) Global solutions to the equations of a Ginzburg-Landau theory for structural phase transitions in shape memory alloys. 91m:82097
- Strogatz, Steven H. see Mirollo, Renato E., 91b:82038 and Matthews, Paul C., 91g:82043
- Tanaka, Nelson I. see Schomann, Roberto H., 91m:82096
- Urbach, H. see Griffiths, Robert B.; et al., 91m:82093
- Zheng, Song Mu see Sprekels, Jürgen, 91m:82097

Items with secondary classifications in 82C26

- Carlson, J. M. (with Chayes, J. T.; Grannan, E. R.; Swindle, G. H.) Self-organized criticality in sandpiles: nature of the critical phenomenon. 91h:82035
- Chayes, J. T. see Carlson, J. M.; et al., 91h:82035
- Fisher, Michael Ellis Phases and phase diagrams: Gibbs's legacy today. (see 91j:00016)
- (Gibbs, Josiah Willard) see Fisher, Michael Ellis, (91j:00016)
- Grannan, E. R. see Carlson, J. M.; et al., 91h:82035
- Grinfel'd, M. A. Energy changes accompanying first-order phase transitions with small inherent deformation in solids. 91f:73010
- Haken, Hermann Realization of the logical operation XOR by a synergetic computer. 91j:82039
- Herrmann, Hans J. Cellular automata. 91i:82022
- Kiem, M. see Kutka, R.; et al., 91a:82033
- Kutka, R. (with Trebin, Hans-Rainer; Kiem, M.) The topological theory of semidefects in ordered media. (French summary) 91a:82033
- Larsen, Edward W. (with Morel, Jim Emanuel) Corrigendum: "Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. II" [J. Comput. Phys. 83 (1989), no. 1, 212-236; MR 90h:82001]. 91j:82002
- Lin, Zhi Fang (with Zheng, Da Fang; Tao, Rui Bao) Critical dynamics of the kinetic Potts model on some fractals. (Not in MR)
- Lopes, Artur O. Dimension spectra and a mathematical model for phase transition. 91i:58082
- Morel, Jim Emanuel see Larsen, Edward W., 91j:82002
- Stinchcombe, R. B. Fractals, phase transitions and criticality. 91c:58084
- Swindle, G. H. see Carlson, J. M.; et al., 91h:82035
- Szépálus, Péter (with Tél, T.; Vattay, G.) Thermodynamics of Lorenz-type maps. 91m:58096
- Tao, Rui Bao see Lin, Zhi Fang; et al., (Not in MR)
- Tél, T. see Szépálus, Péter; et al., 91m:58096
- Trebin, Hans-Rainer see Kutka, R.; et al., 91a:82033
- Vattay, G. see Szépálus, Péter; et al., 91m:58096
- Zheng, Da Fang see Lin, Zhi Fang; et al., (Not in MR)
- Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 91h:81001

82C27 Dynamic critical phenomena

- Carlson, J. M. (with Chayes, J. T.; Grannan, E. R.; Swindle, G. H.) Self-organized criticality in sandpiles: nature of the critical phenomenon. 91h:82035
- Chayes, J. T. see Carlson, J. M.; et al., 91h:82035
- Dhar, Deepak (with Majumdar, S. N.) Abelian sandpile model on the Bethe lattice. 91m:82098
- Filippov, A. E. see Ivanchenko, Yu. M.; et al., 91g:82044
- Grannan, E. R. see Carlson, J. M.; et al., 91h:82035
- Gray, L. J. see Lin, Samuel Hsi-pei; et al., 91h:82036
- Ivanchenko, Yu. M. (with Lisyanski, A. A.; Filippov, A. E.) The scale equations in the critical dynamics of fluctuating systems. 91g:82044
- Kaplan, Theodore see Lin, Samuel Hsi-pei; et al., 91h:82036
- Korepin, V. E. (with Slavnov, N. A.) Time dependence of the density-density temperature correlation function of a one-dimensional Bose gas. 91g:82045
- Lee, Chahn New approach to study critical dynamics by using continued fraction representation. 91c:82047
- Lisyanski, A. A. see Ivanchenko, Yu. M.; et al., 91g:82044
- Lin, Samuel Hsi-pei (with Kaplan, Theodore; Gray, L. J.) Geometry and dynamics of deterministic sand piles. 91h:82036
- Majumdar, S. N. see Dhar, Deepak, 91m:82098
- Slavnov, N. A. see Korepin, V. E., 91g:82045
- Swindle, G. H. see Carlson, J. M.; et al., 91h:82035

Items with secondary classifications in 82C27

- Berger, Toby (with Ye, Zhong Xing) Cardinality of phase transition of Ising models on closed Cayley trees. 91m:82046
- Golden, Kenneth M. Convexity and exponent inequalities for conduction near percolation. 91m:82126
- Hata, Hiroki see Murayama, Toru; et al., 91c:58080
- Honda, Katsuya (with Kodama, Hiroya; Sato, Shinichi¹) Statistical mechanics and crossover scaling for Pomeau-Manneville type intermittent chaos. 91m:58101
- Horita, Takehiko see Murayama, Toru; et al., 91c:58080
- Kadanoff, Leo P. Scaling and universality in statistical physics. 91b:82023
- Kamphorst Leal da Silva, J. see Soares, M. Silvério, 91c:82046
- Kodama, Hiroya see Honda, Katsuya; et al., 91m:58101
- Li, Bo Zang see Pu, Fu Ke, 91d:82043
- Lin, Zhi Fang (with Zheng, Da Fang; Tao, Rui Bao) Critical dynamics of the kinetic Potts model on some fractals. (Not in MR)
- Mori, Hazime see Murayama, Toru; et al., 91c:58080
- Murayama, Toru (with Tominaga, Hiroaki; Mori, Hazime; Hata, Hiroki; Horita, Takehiko) q -phase transitions and dynamic scaling laws at attractor-merging crises in the driven damped pendulum. 91c:58080
- Pu, Fu Ke (with Li, Bo Zang) The bifurcation analysis for the continuous and discontinuous transitions of the magnetization distribution in ferromagnets. 91d:82043
- Sato, Shinichi¹ see Honda, Katsuya; et al., 91m:58101
- Schomann, Roberto H. (with Tanaka, Nelson I.) One-dimensional caricature of phase transition. 91m:82096
- Soares, M. Silvério (with Kamphorst Leal da Silva, J.) Nonuniversal critical dynamics of the one-dimensional Potts model. 91c:82046
- Standacher, Matthias The Yang-Lee edge singularity on a dynamical planar random surface. 91c:82062
- Tanaka, Nelson I. see Schomann, Roberto H., 91m:82096
- Tao, Rui Bao see Lin, Zhi Fang; et al., (Not in MR)
- Tominaga, Hiroaki see Murayama, Toru; et al., 91c:58080
- Ye, Zhong Xing see Berger, Toby, 91m:82046
- Zheng, Da Fang see Lin, Zhi Fang; et al., (Not in MR)

82C28 Dynamic renormalization group methods [see also 81T17]

- Daido, Hiroaki Origin of the unique feature of a phase transition in a class of large populations of coupled oscillators. 91j:82037
- Items with secondary classifications in 82C28
- Aranson, I. S. (with Rabinovich, M. I.) The renormgroup description of spatial turbulence development. 91c:76059
- Benfatto, G. (with Gallavotti, G.) Perturbation theory of the Fermi surface in a quantum liquid. A general quasiparticle formalism and one-dimensional systems. 91j:82007
- De Dominicis, Cyrano (with Kondor, I.) Contradictions in spin glass field theory and a possible way out. 91c:82074
- Gallavotti, G. see Benfatto, G., 91j:82007
- Glimm, James (with Sharp, David H.) Chaotic mixing as a renormalization-group fixed point. 91a:76052
- Kadanoff, Leo P. Scaling and universality in statistical physics. 91b:82023
- Kondor, I. see De Dominicis, Cyrano, 91c:82074
- Rabinovich, M. I. see Aranson, I. S., 91c:76059
- Sharp, David H. see Glimm, James, 91a:76052
- Yukalov, V. I. Statistical mechanics of strongly nonideal systems. 91g:82041
- Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 91h:81001

82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [see also 60H10]

- Baldern-López, J. A. see Wassam, W. A., Jr.; et al., 91j:82038
- Beck, Christian Brownian motion from deterministic dynamics. 91m:82099
- Ben-Avraham, Daniel see Redner, S., 91c:82102
- Calderoni, Paola (with Dürr, Detlef; Kusaka, Shigeo) A mechanical model of Brownian motion in half-space. 91c:82045
- (with Dürr, Detlef) The Smoluchowski limit for a simple mechanical model. 91c:82046
- Cao, Li¹ see Wu, Da Jin, (Not in MR)

Chakrabarti, R. (with Vasudevan, R.) Quantum Langevin equation: a quadratic system. 91h:82037

Der, R. (with Schumacher, W.) Colored noise: a case study of the cumulant method. 91h:82043

Dürr, Detlef. *see* Calderoni, Paolo; et al., 91c:82045 and 91c:82046

Falcioni, Massimo (with Isola, Stefano; Vulpiani, Angelo) Correlation functions and relaxation properties in chaotic dynamics and statistical mechanics. 91h:82039

Fujisaka, Hirokazu (with Yamada, Tomoji) Fluctuation spectrum and order- q time correlation function for the Ornstein-Uhlenbeck process. 91m:82100

Hongler, Max-Olivier (with Streit, Ludwig) Generalized master equations and the telegrapher's equation. 91f:82049

Isola, Stefano. *see* Falcioni, Massimo; et al., 91h:82039

Jumarie, Guy Solution of the multivariate Fokker-Planck equation by using a maximum path entropy principle. 91g:82046

Kusaka, Shigeo. *see* Calderoni, Paolo; et al., 91c:82045

Llona, Josep. *see* Masoliver, Jaume, 91h:82040

Mañas, M. *see* Parrondo, J. M. R.; et al., 91h:82017

Masoliver, Jaume (with Llona, Josep) First-passage-time noninteger moments for some diffusion and dichotomous processes. 91h:82040

Okasaki, Takashi Generalization of Fokker-Planck equations by means of a projection operator technique: a study of stochastic processes subject to additive noises. (Japanese. English summary) 91m:82101

Parrondo, J. M. R. (with Mañas, M.; de la Rubia, F. J.) Geometrical treatment of systems driven by coloured noise. 91h:82017

Pop, Amalia. *see* Vlad, Marcel Ovidiu, 91h:82044

Redner, S. (with Ben-Avraham, Daniel) Nearest-neighbour distances of diffusing particles from a single trap. 91m:82102

de la Rubia, F. J. *see* Parrondo, J. M. R.; et al., 91h:82017

Schumacher, W. *see* Der, R., 91h:82043

Streit, Ludwig. *see* Hongler, Max-Olivier, 91f:82049

Torres-Vega, Go. *see* Wassam, W. A., Jr.; et al., 91h:82038

Vasudevan, R. *see* Chakrabarti, R., 91h:82037

Vlad, Marcel Ovidiu (with Pop, Amalia) Transition events fluctuations in jump Markovian dynamics. A general approach to Solc's problem. 91h:82044

Vulpiani, Angelo. *see* Falcioni, Massimo; et al., 91h:82039

Wassam, W. A., Jr. (with Balderas-López, J. A.; Torres-Vega, Go.) Stationarity of time correlation functions for globally linear classical systems and its consequences. 91j:82038

Wu, Da Jin (with Cao, Li) Relations between different representations of stochastic adiabatic solutions. (Not in MR)

Yamada, Tomoji. *see* Fujisaka, Hirokazu, 91m:82100

Zhang, Ji Yue (with Zhou, Cang Tao) Theory of the nonlinear Ornstein-Uhlenbeck colored noise induced transitions. (Chinese. English summary) 91c:82047

Zhou, Cang Tao. *see* Zhang, Ji Yue, 91c:82047

Zhu, You Xia A dynamical study on external exponential noise. (Not in MR)

Items with secondary classifications in 82C31

Anderson, James L. (with Nowotny, Ekkehard) Stochastic forces and fluctuation-dissipation theorems in a relativistic one-component gas. 91h:82054

Arunov, A. A. Justification of the direct statistical modeling method in a problem of kinetic gas theory. (Russian) 91c:82051

Bebie, H. (with Marchand, J.-P.) A diffusion-anti-diffusion phase transition. 91m:82091

Behn, Ulrich (with Schiele, Konrad) Stratonovich model driven by dichotomous noise: mean first passage time. 91a:34040

Beumee, J. G. B. (with Vilallonga, E.; Rabitz, Herschel) Applications of stochastic mechanics to polyatomic lattices. 91h:81011

Bouchaud, Jean-Philippe (with Comtet, Alain; Georges, Antoine; Le Doussal, P.) Classical diffusion of a particle in a one-dimensional random force field. 91h:82047

— (with Georges, Antoine) Anomalous diffusion in disordered media: statistical mechanisms, models and physical applications. (Not in MR)

Bray, A. J. (with McKane, A. J.; Newman, T. J.) Path integrals and non-Markov processes. II. Escape rates and stationary distributions in the weak-noise limit. 91h:82033

— *see also* McKane, A. J.; et al., 91h:82032

(Brewer, W. D.) *see* Flick, Eugen, 91m:82001

Caderoni, P. (with Pellegrinotti, A.; Presutti, Enrico; Vares, Maria Eulalia) Transient bimodality in interacting particle systems. 91d:82022

Comtet, Alain. *see* Bouchaud, Jean-Philippe; et al., 91h:82047

Dekking, F. M. A nonlinear evolution with travelling waves. 91h:60214

Eyink, Gregory (with Lebowitz, Joel L.; Spohn, Herbert) Hydrodynamics of stationary nonequilibrium states for some stochastic lattice gas models. 91f:82046

Flick, Eugen (with Sauerermann, G.) ★ The quantum statistics of dynamic processes. 91m:82001

Forrester, P. J. Probability of survival for vicious walkers near a cliff. 91f:82057

Georges, Antoine. *see* Bouchaud, Jean-Philippe; et al., 91h:82047 and (Not in MR)

Hu, Gang Two-dimensional probability distribution of systems driven by colored noise. 91m:34070

Kawara, Hideyo (with Namiki, Mikio; Okamoto, Hiroshi; Tanaka, Satoshi) Derivation of a generalized stochastic path-integral formulation based on Itô calculus. 91h:81074

Klimontovich, Yu. I. Itô, Stratonovich and kinetic forms of stochastic equations. 91h:82039

Lebowitz, Joel L. *see* Eyink, Gregory; et al., 91f:82046

Le Doussal, P. *see* Bouchaud, Jean-Philippe; et al., 91h:82047

Lee, Chahn New approach to study critical dynamics by using continued fraction representation. 91f:82047

Luckock, H. C. *see* McKane, A. J.; et al., 91h:82032

Marchand, J.-P. *see* Bebie, H., 91m:82091

Martinelli, Fabio (with Olivieri, Enzo; Scoppola, Elisabetta) Small random perturbations of finite- and infinite-dimensional dynamical systems: unpredictability of exit times. 91f:60105

McKane, A. J. (with Luckock, H. C.; Bray, A. J.) Path integrals and non-Markov processes. I. General formalism. 91h:82033

— *see also* Bray, A. J.; et al., 91h:82033

Namiki, Mikio. *see* Kawara, Hideyo; et al., 91h:81074

Nelson, Edward What is stochastic mechanics? 91f:60136

Newman, T. J. *see* Bray, A. J.; et al., 91h:82033

Novikov, V. N. A method for solving kinetic equations of Fokker-Planck type for a plasma. (Russian) 91g:82055

Nowotny, Ekkehard. *see* Anderson, James L., 91h:82054

Ojima, Izumi Entropy production and nonequilibrium stationarity in quantum dynamical systems. Physical meaning of van Hove limit. 91c:82044

Okamoto, Hiroshi. *see* Kawara, Hideyo; et al., 91h:81074

Olivieri, Enzo. *see* Martinelli, Fabio; et al., 91f:60105

Oono, Yoshitsugu Large deviation and statistical physics. 91m:82073

Pellegrinotti, A. *see* Caderoni, P.; et al., 91d:82022

Pippenger, Nicholas Random sequential adsorption on graphs. 91f:60189

Presutti, Enrico. *see* Caderoni, P.; et al., 91d:82022

Rabitz, Herschel. *see* Beumee, J. G. B.; et al., 91h:81011

Sauerermann, G. *see* Flick, Eugen, 91m:82001

Schiele, Konrad. *see* Behn, Ulrich, 91a:34040

Scoppola, Elisabetta. *see* Martinelli, Fabio; et al., 91f:60105

Spohn, Herbert. *see* Eyink, Gregory; et al., 91f:82046

Tanaka, Satoshi. *see* Kawara, Hideyo; et al., 91h:81074

Tirapegui, Enrique Stochastic processes in macroscopic physics. 91a:82034

Vares, Maria Eulalia. *see* Caderoni, P.; et al., 91d:82022

Vilallonga, E. *see* Beumee, J. G. B.; et al., 91h:81011

Vorošna, V. A. Stochastic methods for solving the Boltzmann equation for reacting gases. (Russian) 91d:82036

Zhang, Weijian Analytical solution of general one-dimensional Fokker-Planck equation. 91d:60143

82C32 Neural nets [see also 68T05, 92B20, 92J40]

de Almeida, Rita M. C. (with Iglesias, J. R.) An alternative model for neural networks. 91m:82103

Bouten, M. (with Engel, Andreas; Komoda, A.; Serneels, R.) Quenched versus annealed dilution in neural networks. 91m:82104

Campbell, Ian Colin Grant (with Robinson, Andrew) On the storage capacity of neural networks with sign-constrained weights. 91m:82105

Coolen, A. C. C. *see* Rullgök, Th. W., (Not in MR)

Domany, Eytan. *see* Kurchan, Jorge, 91m:82107

Ebeling, Werner (with Schimansky-Geiger, Lutz; Zillicke, Ch.) Dynamics of networks and pattern processing. 91c:82048

Engel, Andreas. *see* Bouten, M.; et al., 91m:82104

Ferrán, Edgardo A. (with Perazzo, Roberto P. J.) Feed-forward networks composed by neurons with activation functions of different parity. 91h:82045

— (with Perazzo, Roberto P. J.) Inferential entropies of feed-forward neural networks. 91m:82106

Fukui, Tomoki. *see* Shilino, Masatoshi, 91h:82046

(Garrido, Luis) *see* Statistical mechanics of neural networks, 91h:82018

Graham, Robert (with Tél, T.) Macroscopic potentials of dissipative dynamical systems. (see 91h:00034)

Gutfreund, H. From statistical mechanics to neural networks and back. 91a:82053

Haken, Hermann Realization of the logical operation XOR by a synergetic computer. 91j:82039

Iglesias, J. R. *see* de Almeida, Rita M. C., 91m:82103

Komoda, A. *see* Bouten, M.; et al., 91m:82104

Kurchan, Jorge (with Domany, Eytan) Critical capacity of constrained perceptrons. 91m:82107

Perazzo, Roberto P. J. *see* Ferrán, Edgardo A., 91h:82045 and 91m:82106

Procesi, Claudio (with Tirozzi, Brunello) Metastable states in the Hopfield model. 91c:82048

Rieger, H. Storing an extensive number of grey-toned patterns in a neural network using multistate neurons. 91m:82108

Robinson, Andrew. *see* Campbell, Ian Colin Grant, 91m:82105

Rullgök, Th. W. (with Coolen, A. C. C.) Generalized Hopfield models for neural networks. (Not in MR)

Schimansky-Geiger, Lutz. *see* Ebeling, Werner; et al., 91c:82048

Serneels, R. *see* Bouten, M.; et al., 91m:82104

Shilino, Masatoshi (with Fukui, Tomoki) Replica-symmetric theory of the nonlinear analogue neural networks. 91h:82046

Tél, T. *see* Graham, Robert, (91h:00034)

Tirozzi, Brunello. *see* Procesi, Claudio, 91c:82048

Zillicke, Ch. *see* Ebeling, Werner; et al., 91c:82048

Items listed otherwise than by author

Conference:

Statistical Mechanics of Neural Networks ★ Statistical mechanics of neural networks. 91h:82018

Lecture Notes in Physics ★ Statistical mechanics of neural networks. 91h:82018

— ★ Statistical mechanics of neural networks. 91h:82018

Sliges ★ Statistical mechanics of neural networks. 91h:82018

Statistical mechanics of neural networks ★ Statistical mechanics of neural networks. 91h:82018

Items with secondary classifications in 82C32

Berryman, Kenneth W. (with Inchiosa, Mario E.; Jaffe, Arthur M.; Janowsky, Steven A.) Convergence of an iterative neural network learning algorithm for linearly dependent patterns. 91c:92121

Bizzarri, A. R. Convergence properties of a modified Hopfield-Tank model. (Not in MR)

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Bressloff, P. C. *see* Stark, János, 91c:92005

- Chapline, George Superstrings and quantum gravity. 91k:81123
- Choi, M. Y. *see* Shim, G. M.; et al., 91m:92009
- Clark, John W. Introduction to neural networks. 91i:92001
- Derrida, Bernard Distribution of the activities in a diluted neural network. 91c:92003
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- Eisenstein, Eli *see* Kanter, Ido, 91m:92004
- Engel, Andreas Storage of hierarchically correlated patterns. (Not in MR)
- François, Olivier Ergodicité des processus neuronaux. (English summary) [Ergodicity of neural network processes] 91d:68102
- Goles Ch., Eric (with Martínez, Servet) ★ Neural and automata networks. 91h:58059
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- Hassel, David *see* Meunier, C.; et al., 91c:92118
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- Inchiosa, Mario E. *see* Berryman, Kenneth W.; et al., 91c:92121
- Jaffe, Arthur M. *see* Berryman, Kenneth W.; et al., 91c:92121
- Janowsky, Steven A. *see* Berryman, Kenneth W.; et al., 91c:92121
- Kanter, Ido (with Eisenstein, Eli) On the capacity per synapse. 91m:92004
- Keeler, James D. *see* Pichler, Elgar E.; et al., 91j:92003
- Kim, Doochul *see* Shim, G. M.; et al., 91m:92009
- Kinzel, Wolfgang *see* Domany, Eytan; et al., 91f:92003
- Kováčik, M. Markovian neural networks. (Not in MR)
- Martínez, Servet *see* Goles Ch., Eric, 91h:58059
- Meir, Ronny *see* Domany, Eytan; et al., 91f:92003
- Meunier, C. (with Hassel, David; Verga, A.) Information processing in three-state neural networks. 91c:92118
- Mézard, Marc (with Parisi, Giorgio; Virasoro, Miguel Angel) ★ Spin glass theory and beyond. 91k:82066
- Nakamura, Tota (with Nishimori, Hidetoshi) Sequential retrieval of nonrandom patterns in a neural network. (Not in MR)
- Nishimori, Hidetoshi *see* Nakamura, Tota, (Not in MR)
- Parisi, Giorgio *see* Mézard, Marc; et al., 91k:82066
- Peretto, Pierre *see* Gordon, Miria B., 91c:92004
- Pichler, Elgar E. (with Keeler, James D.; Ross, John) Comparison of self-organization and optimization in evolution and neural network models. 91j:92003
- Ross, John *see* Pichler, Elgar E.; et al., 91j:92003
- Sakaguchi, Hidetsugu Stochastic dynamics and learning rules in layered neural networks. 91c:92008
- Schempp, Walter Elementary holograms, artificial neural networks, and theta-null values. (Not in MR)
- Shimo, Masatoshi Stochastic analyses of the dynamics of generalized Little-Hopfield-Hemmen type neural networks. 91c:92010
- Shim, G. M. (with Choi, M. Y.; Kim, Doochul) Phase transitions in a dynamic model of neural networks. 91m:92009
- Stark, Jaroslav (with Bressloff, P. C.) Two-state representations of three-state neural networks. 91c:92005
- Stein, Y. *see* Gutfreund, H., 91c:92004
- Verga, A. *see* Meunier, C.; et al., 91c:92118
- Virasoro, Miguel Angel *see* Mézard, Marc; et al., 91k:82066
- Whittle, P. The statistics of random directed graphs. 91c:60286
- Wiedermann, JH Complexity issues in discrete neurocomputing. 91m:68096

82C35 Irreversible thermodynamics, including Onsager-Machlup theory

- Abbate, G. *see* Santamato, E.; et al., 91m:82110
- Balachayan, G. O. Construction of the linear response theory for classical systems by the nonequilibrium statistical operator method. 91f:82050
- Berger, Jorge Szilard's demon revisited. (Not in MR)
- Bouchaud, Jean-Philippe (with Comtet, Alain; Georges, Antoine; Le Doussal, P.) Classical diffusion of a particle in a one-dimensional random force field. 91k:82047
- Brey, J. Javier (with Casado, José M.) Generalized Langevin equations with time-dependent temperature. (Not in MR)
- Casado, José M. *see* Brey, J. Javier, (Not in MR)
- Cataldo, Horacio M. Holomorphy of the Fourier transformed memory kernel in the quantum Langevin equation. 91c:82049
- Caves, Carlton M. Quantitative limits on the ability of a Maxwell demon to extract work from heat. 91d:82030
- Ciancio, V. (with Restuccia, L.) On the invariance of Onsager's reciprocal relations in the thermodynamic theory of dielectric relaxation phenomena. 91f:82051
- Comtet, Alain *see* Bouchaud, Jean-Philippe; et al., 91k:82047
- Dekker, H. Thermal activation: Kramers' theory revisited. 91m:82109
- Dunning-Davies, J. *see* Lavenda, B. H., (Not in MR)
- Englefield, M. J. A solution of a Fokker-Planck equation. 91k:82048
- Fang, J. *see* Muschik, W., 91f:82052
- Fukuda, Reijiro *see* Samino, Masayoshi, 91m:82112
- Garrido, Pedro L. (with Lebowitz, Joel L.; Maes, Christian; Spohn, Herbert) Long-range correlations for conservative dynamics. 91k:82049
- Georges, Antoine *see* Bouchaud, Jean-Philippe; et al., 91k:82047
- Graham, Robert Noise and extremum principles in macroscopic nonequilibrium systems. 91g:82047
- Grechany, O. A. ★ Стохастическая теория необратимых процессов. (Russian) [Stochastic theory of irreversible processes] 91h:82038

- Haken, Hermann *see* Ha, Gang, 91a:82054
- Ha, Gang (with Haken, Hermann) Polynomial expansion of the potential of Fokker-Planck equations with a noninvertible diffusion matrix. 91a:82054
- Klimontovich, Yu. L. Itô, Stratonovich and kinetic forms of stochastic equations. 91h:82039
- Lavenda, B. H. (with Dunning-Davies, J.) The essence of the second law is concavity. (Not in MR)
- Lebowitz, Joel L. *see* Garrido, Pedro L.; et al., 91k:82049
- Le Doussal, P. *see* Bouchaud, Jean-Philippe; et al., 91k:82047
- Maddalena, P. *see* Santamato, E.; et al., 91m:82110
- Maes, Christian *see* Garrido, Pedro L.; et al., 91k:82049
- Muschik, W. (with Fang, J.) Statistical foundation of nonequilibrium contact quantities bridging phenomenological and statistical nonequilibrium thermodynamics. 91f:82052
- Restuccia, L. *see* Ciancio, V., 91f:82051
- Robin, W. A. Nonequilibrium thermodynamics. 91j:82040
- Röpke, Gerd ★ Неравновесная статистическая механика. (Russian) [Nonequilibrium statistical mechanics] 91j:82041
- Santamato, E. (with Abbate, G.; Maddalena, P.) A new approach to global stability analysis of one-dimensional continuous dissipative systems. 91m:82110
- Sewell, Geoffrey L. Quantum macrostatistics and irreversible thermodynamics. 91m:82111
- Shimizu, Toshio Relaxation and bifurcation in Brownian motion driven by a chaotic force. 91c:82049
- Spohn, Herbert *see* Garrido, Pedro L.; et al., 91k:82049
- Samino, Masayoshi (with Fukuda, Reijiro) Classical limit of the generating functional for the nonequilibrium statistical mechanics. 91m:82112
- (Tishchenko, S. V.) *see* Röpke, Gerd, 91j:82041
- Vojta, G. Symplectic formalism for the thermodynamics of irreversible processes. (German summary) 91k:82050
- (Zubarev, D. N.) *see* Röpke, Gerd, 91j:82041

Items with secondary classifications in 82C35

- Alexander-Katz, Roberto (with Rodríguez Talavera, Rogelio) On a Wiener integral for an exact Kratky-Porod end to end distance. (Spanish summary) 91d:82046
- Anthony, K.-H. Defect dynamics and Lagrangian thermodynamics of irreversible processes. (see 91m:00030)
- Bhalekar, Anil A. On the generalized phenomenological irreversible thermodynamic theory (GPITT). 91d:80002
- (Chen, Mu Fa) *see* Li, Jun Ping, 91h:60081
- Coverage, M. On the approach to statistical equilibrium in an infinite-particle lattice dynamic model. 91f:82045
- (Danilov, Yu. A.) *see* Nicolis, John S., 91h:92002
- Eriksson, Karl-Erik (with Lindgren, Kristian; Månsson, Bengt Å.) ★ Structure, context, complexity, organization. 91c:82031
- Ford, G. W. *see* Li, Xiao Lin; et al., 91c:82041
- Ginzburg, S. L. ★ Необратимые явления в спинных стеклах. (Russian) [Irreversible phenomena in spin glasses] 91h:82001
- Hao, Bai Lin *see* Ha, Gang, 91f:58064
- Hashitsume, Natsuki *see* Shibata, Fumiaki; et al., 91b:65027
- Hawking, Stephen W. The arrow of time. (Russian) 91g:83002
- Ha, Gang (with Hao, Bai Lin) Two kinds of singularities in planar differential systems and the response to external forces. 91f:58064
- (Kadomtsev, B. B.) *see* Nicolis, John S., 91h:92002
- Kawasaki, Harumi *see* Shibata, Fumiaki; et al., 91b:65027
- Klimontovich, Yu. L. Dynamic and statistical methods in the theory of nonequilibrium processes. (Russian) 91g:82037
- Korov, V. P. (with Kurbatov, A. M.) N. N. Bogolyubov's concept of quasi-averages in the theory of disordered systems. (Russian) 91f:82074
- Kurbatov, A. M. *see* Korov, V. P., 91f:82074
- Li, Jun Ping Comment: "Multidimensional Q-processes" [Chinese Ann. Math. Ser. B 7 (1986), no. 1, 90-110; MR 88b:60169] by S. J. Yan and M. F. Chen. (Chinese) 91h:60081
- Li, Xiao Lin (with Ford, G. W.; O'Connell, R. F.) Magnetic-field effects on the motion of a charged particle in a heat bath. 91c:82041
- Lindgren, Kristian *see* Eriksson, Karl-Erik; et al., 91c:82031
- Månsson, Bengt Å. *see* Eriksson, Karl-Erik; et al., 91c:82031
- Nicolis, John S. ★ Динамика иерархических систем. (Russian) [Dynamics of hierarchical systems] 91b:92002
- Nonnenmacher, D. J. F. *see* Nonnenmacher, Theo F., 91f:82062
- Nonnenmacher, Theo F. (with Nonnenmacher, D. J. F.) Towards the formulation of a nonlinear fractional extended irreversible thermodynamics. 91f:82062
- O'Connell, R. F. *see* Li, Xiao Lin; et al., 91c:82041
- Rodríguez Talavera, Rogelio *see* Alexander-Katz, Roberto, 91d:82046
- Shibata, Fumiaki (with Watabe, Miki; Kawasaki, Harumi; Hashitsume, Natsuki) Numerical evaluation of path integrals. 91b:65027
- (Smorodinskaya, N. Ya.) *see* Hawking, Stephen W., 91g:83002
- Suchanecki, Zdzisław An L^1 extension of stochastic dynamics for irreversible systems. 91c:82046
- (with Weron, Aleksander) Applications of an operator stochastic integral in Prigogine's theory of irreversible dynamical systems. 91a:47057
- Watabe, Miki *see* Shibata, Fumiaki; et al., 91b:65027
- Weron, Aleksander *see* Suchanecki, Zdzisław, 91a:47057
- (Yan, Shi Jian) *see* Li, Jun Ping, 91h:60081

82C40 Kinetic theory of gases

- Arkerdy, Lef The Boltzmann-Enskog equation with large data; wellposedness and regularity. 91h:82041
- (with Cercignani, Carlo) On the convergence of solutions of the Enskog equation to solutions of the Boltzmann equation. 91m:82113
- On the generation of measure valued solutions on \mathbb{R}^d from Loeb solutions on \mathbb{R}^d for the Boltzmann equation. 91c:82050

- (with Cercignani, Carlo) Global existence in L^1 for the Enskog equation and convergence of the solutions to solutions of the Boltzmann equation. **91m:82114**
- Ariotti, Luisa (with Bassi, Laura; Gamba, Patrizia) A study of a nonlinear kinetic model for an ionized gas. **91h:82019**
- Arsen'ev, A. A. Justification of the direct statistical modeling method in a problem of kinetic gas theory. (Russian) **91c:82051**
- Azmy, Y. Y. see Boffi, Vinicio C.; et al., **91h:82051**
- Banach, Z. On the analogue of Grad's moment procedure for a one-dimensional gas of quasi-particles. (see **91m:00030**)
- Bardos, Claude (with Golse, François; Levermore, C. David) Macroscopic limits of kinetic equations. (see **91h:00031**)
- Bassi, Laura see Ariotti, Luisa; et al., **91h:82019**
- Bazinet, Jacques (with Giroux, Gaston) Processus de Boltzmann à interactions binomiales: convergence vers l'équilibre. (English summary) [Convergence to equilibrium of a Boltzmann process with binomial interactions] **91c:82050**
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- Bishaev, A. M. (with Rykov, V. A.) Variational principles in linear kinetic theory of gases. (Russian) **91c:82051**
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- (with Torrisi, Mariano) Methods of similarity analysis in the study of nonlinear dynamics of a gas mixture. **91m:82115**
- (with Rossani, A.) On the Boltzmann system for a mixture of reacting gases. (Italian summary) **91d:82031**
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- Are there more than five linearly-independent collision invariants for the Boltzmann equation? **91c:82053**
- Equilibrium states and trend to equilibrium in a gas according to the Boltzmann equation. (Italian summary) **91m:82116**
- see also Arkeryd, Lef, **91m:82113** and **91m:82114**
- Cornille, Henri (with Qian, Yue Hong) Solutions exactes pour un modèle de Boltzmann discrétisé unidimensionnel satisfaisant à toutes les lois de conservation. (English summary) [Exact solutions for a discrete unidimensional Boltzmann model satisfying all conservation laws] **91h:82042**
- Two-velocity discrete Boltzmann models: positivity and the H -theorem. **91c:82053**
- Degond, Pierre (with Poupaud, Frédéric; Niclot, Bernard; Guyot-Delaurens, F.) Semiconductor modelling via the Boltzmann equation. **91h:82053**
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- De Masi, A. see Caprino, S.; et al., **91d:82032**
- Dixon, J. M. (with Tuszyński, J. A.) Solutions of a generalized Emden equation and their physical significance. **91g:82048**
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- Dobrowski, P. B. Solutions of a spatially inhomogeneous equation of coagulation taking into account particle breakdown. **91f:82054**
- Dudyński, Marek On the linearized relativistic Boltzmann equation. II. Existence of hydrodynamics. **91h:82043**
- Duke, Günter On the relevance of orthogonal ($d \times d$) matrices within Nikol'skii's transformation method for ($d > 1$)-dimensional Boltzmann equations. **91h:82044**
- Ernst, M. H. see Nieuwenhuizen, Th. M.; et al., **91g:82049**
- Espósito, Raffaele (with Pulvirenti, M.) Statistical solutions of the Boltzmann equation near the equilibrium. **91c:82053**
- Esteban, María J. (with Perthame, Benoît) Solutions globales de l'équation d'Enskog modifiée avec collisions élastiques ou inélastiques. (English summary) [Global solutions for the modified Enskog equation with elastic or inelastic collisions] **91f:82055**
- Gabetta, Ester From stochastic mechanics to the discrete Boltzmann equation: the Broadwell model. **91m:82117**
- Gamba, Patrizia see Ariotti, Luisa; et al., **91h:82019**
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- Giroux, Gaston see Bazinet, Jacques, **91c:82050**
- Golse, François see Bardos, Claude; et al., **(91h:00031)**
- Guyot-Delaurens, F. see Degond, Pierre; et al., **91h:82053**
- Hershbach, Hans A cellular automaton for a solvable Boltzmann equation. **91h:82054**
- Hubner, G. F. (with Titulaer, U. M.) The kinetic boundary layer for the linearized Boltzmann equation around an absorbing sphere. **91c:82055**
- Kawashima, Shuichi Initial-boundary value problem for the discrete Boltzmann equation. **91d:82033**
- The Boltzmann equation and thirteen moments. **91h:82020**
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- Krieg, Robert Willibald (with Schmitt, K.-J.; Töepfer, C.) m -particle correlations in the N -particle McKean model. **91a:82057**
- Lachowicz, M. see Bellomo, N.; et al., **91a:82055**
- Levermore, C. David see Bardos, Claude; et al., **(91h:00031)**
- Loas, D. Linear quantum Enskog equation. I. Homogeneous quantum fluids. **91h:82040**
- Linear quantum Enskog equation. II. Inhomogeneous quantum fluids. (Not in MR)
- Lukshin, A. V. (with Yufarov, I. E.) Stochastic algorithms for solving a spatially homogeneous Boltzmann equation for a mixture of gases. (Russian) **91c:82056**
- (with Yufarov, I. E.) Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation for a gas mixture. (Russian. English summary) **91m:82118**
- Majorana, Armando Relativistic relaxation models for a simple gas. **91j:82043**
- Morozov, A. N. On the theory of obtaining kinetic equations for a two-dimensional distribution function. (Russian) **91m:82119**
- Niclot, Bernard see Degond, Pierre; et al., **91h:82053**
- Nieuwenhuizen, Th. M. (with van Velthoven, P. F. J.; Ernst, M. H.) Density expansion of transport properties on 2D site-disordered lattices. I. General theory. **91g:82049**
- Nishitani, Toshiyuki Similarity transformation of the Boltzmann equation. **91m:82120**
- Oggioni, S. (with Premuda, F.; Spiga, G.) Scattering kernel formulation of nonlinear extended kinetic theory. **91h:82041**
- Palczewski, A. (with Toscani, G.) Global solution of the Boltzmann equation for rigid spheres and initial data close to a local Maxwellian. **91c:82054**
- see also Bellomo, N.; et al., **91a:82055**
- Palmeri, John Exact solutions to the time-dependent Lorentz gas Boltzmann equation: the approach to hydrodynamics. **91c:82057**
- Pavlotskii, I. P. Bogolyubov chains and Vlasov and Wigner kinetic equations in post-Galilean approximation. (Russian) **91c:82058**
- Perthame, Benoît Higher moments for kinetic equations: the Vlasov-Poisson and Fokker-Planck cases. **91j:82044**
- see also Esteban, María J., **91f:82055**
- Petrina, D. Ya. (with Gerasimenko, V. I.) The Boltzmann-Grad limit theorem. (Russian. English summary) **91c:82055**
- see also Gerasimenko, V. I., **91j:82042**
- Petersson, Rolf On solutions to the linear Boltzmann equation with general boundary conditions and infinite-range forces. **91c:82056**
- Piechór, K. A rational construction of discrete velocity models of the Boltzmann equation. (Russian and Polish summaries) **91h:82045**
- Polewczak, Jacek Global existence in L^1 for the generalized Enskog equation. **91c:82059**
- Poupaud, Frédéric see Degond, Pierre; et al., **91h:82053**
- Premuda, F. see Oggioni, S.; et al., **91h:82041**
- Presutti, Errico see Caprino, S.; et al., **91d:82032**
- Protopopescu, V. see Boffi, Vinicio C.; et al., **91c:82052** and **91h:82051**
- Pulvirenti, M. see Espósito, Raffaele, **91c:82053** and Caprino, S.; et al., **91d:82032**
- Qian, Yue Hong see Cornille, Henri, **91h:82042**
- Rodbard, M. G. (with Kremer, G. M.) Kinetic theory for mixtures of polyatomic gases of rough spherical molecules. **91h:82046**
- Rossmann, Philip Extending hydrodynamics via the regularization of the Chapman-Enskog expansion. **91h:82047**
- Rossani, A. see Boffi, Vinicio C., **91d:82031**
- Rykov, V. A. see Bishaev, A. M., **91c:82051**
- Sakabekov, A. Solvability of systems of Boltzmann moment equations in the first approximation. **91h:82048**
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- Schmitt, K.-J. see Krieg, Robert Willibald; et al., **91a:82057**
- Sharipov, F. M. Onsager's reciprocity relations for polyatomic rarefied gas flow in an external field. **91a:82058**
- Smirnov, S. N. On the theory of a spatially homogeneous Boltzmann equation. (Russian) **91c:82057**
- Smider, R. F. A density-corrected quantum Boltzmann equation. (Not in MR)
- Spiga, G. see Boffi, Vinicio C.; et al., **91c:82052** and Oggioni, S.; et al., **91h:82041**
- Struminskii, V. V. (with Turkov, V. E.) Higher approximations of an asymptotic method for solving a system of Boltzmann kinetic equations. **91a:82059**
- Titulaer, U. M. see Hubner, G. F., **91c:82055**
- Töepfer, C. see Krieg, Robert Willibald; et al., **91a:82057**
- Tokarchuk, V. V. Barnett approximation in the theory of hydrodynamic fluctuations. **91d:82035**
- Torrisi, Mariano see Boffi, Vinicio C., **91m:82115**
- Toscani, G. see Bellomo, N.; et al., **91a:82055** and Palczewski, A., **91c:82054**
- Turkov, V. E. see Struminskii, V. V., **91a:82059**
- Tuszyński, J. A. see Dixon, J. M., **91g:82048**
- Tversky, V. see Berger, N. E., (Not in MR)
- Vedenyapina, V. V. Dissipative properties of kinetic equations. (Russian) **91j:82045**
- van Velthoven, P. F. J. see Nieuwenhuizen, Th. M.; et al., **91g:82049**
- van Velzen, G. A. Lattice Lorentz gas: kinetic theory. (Not in MR)
- Voronina, V. A. Stochastic methods for solving the Boltzmann equation for reacting gases. (Russian) **91d:82036**
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- Yufarov, I. E. see Lukshin, A. V., **91c:82056** and **91m:82118**
- Zanetti, Daniela H. A BBGKY hierarchy for the extended kinetic theory. **91h:82049**
- Zimdahl, W. Relativistic stochastic Boltzmann equation and fluctuations in general relativity. **91c:82060**

Items with secondary classifications in 82C40

- Abramov, A. A. (with Kogan, M. N.) Possible regimes of strong gas evaporation and condensation. **91c:76094**
- Anikonov, Yu. E. Some relations in inverse problems for kinetic equations. **91j:35275**
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- Argyros, Ioannis K. On quadratic equations. **91f:47094**
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- Arzen'ev, A. A. Justification of the direct statistical modeling method in a problem of the kinetic theory of gases. (Russian) **91c:82061**
- (with Buryak, O. E.) On a connection between the solution of the Boltzmann equation and the solution of the Landau-Fokker-Planck equation. **91f:35266**
- Asadzadeh, Mohammad Streamline diffusion methods for the Vlasov-Poisson equation. (French summary) **91d:65137**

- Balabanyan, G. O. Classical equilibrium generalized hydrodynamic correlation Green functions. I. **91f:82003**
- Bardos, Claude (with Golse, François; Levermore, C. David) Sur les limites asymptotiques de la théorie cinétique conduisant à la dynamique des fluides incompressibles. (English summary) [On asymptotic limits of kinetic theory leading to incompressible fluid dynamics] **91k:76139**
- Bergshoeff, E. A. (with Pope, C. N.; Romans, L. J.; Sezgin, Ergin; Shen, Xiang; Stelle, K. S.) *w_∞* gravity. **91m:81231**
- Bernardin, D. (with Sero-Guillaume, O. E.) Lattice gases mixtures models for mass diffusion. **91m:76096**
- Borgioli, Giovanni (with Totaro, Silvia) A particle transport problem with a quadratic nonlinearity and general boundary conditions: the stationary solution. (Italian summary) **91k:82029**
- Brey, J. Javier see Kim, Chang Sub; et al., **91e:76095**
- Buryak, O. E. see Arsen'ev, A. A., **91f:35266**
- Cabannes, Henri Solution globale des équations de Broadwell pour des données initiales partiellement négatives. (English summary) [Global solution of Broadwell equations for partially negative initial data] **91j:35227**
- Calogero, F. C-integrable generalization of a system of nonlinear PDEs describing nonresonant N-wave interactions. (see **91f:58001**)
- Carvalho, Maria Conceição V. A convergent virial expansion for the quantum Lorentz gas with point interactions. **91e:82038**
- Cercignani, Carlo Boltzmann equation and rarefied gas dynamics. (see **91g:00040**)
- Chauvin, Brigitte (with Giroux, Gaston) A geometric rate of convergence to the equilibrium for Boltzmann processes with multiple particle interactions. **91m:82074**
- Chung, S. K. Approximate solutions for the Carleman equation. **91g:35014**
- DiPerna, R. J. (with Lions, Pierre-Louis) Global solutions of Boltzmann's equation and the entropy inequality. **91m:76098**
- Dominguez Tenreiro, R. (with Serna, A.) H theorem and distribution functions in scale-covariant gravitation. **91f:83057**
- Duffy, James W. see Kim, Chang Sub; et al., **91e:76095**
- Galiakhmetov, A. M. see Zakharov, Aleksei Vasil'evich, **91e:83081**
- Geyer, T. (with Wick, Joachim) A deterministic particle-method solving the linearized Boltzmann equation. (German summary) **91e:76089**
- Groze, Gaston see Chauvin, Brigitte, **91m:82074**
- Goldshtein, A. I. (with Poturaev, V. N.; Shulyak, I. A.) Structure of the equations of hydrodynamics for a medium consisting of inelastic rough spheres. **91k:76006**
- Golse, François see Bardos, Claude; et al., **91k:76139**
- Greenberg, J. M. (with Moler, Cleve) Collisionless solutions to the four velocity Broadwell equations. **91m:76099**
- Greenberg, William (with Polewczak, Jacek) Averaging techniques for the transport operator and an existence theorem for the BGK equation in kinetic theory. **91d:35215**
- Hickey, K. A. see Loyalka, S. K., **91e:76096**
- Huynh-Servet, Madeleine see Pichon, Guy, **91d:35217**
- Kawashima, Shuichi (with Shizuta, Yasushi) The Navier-Stokes equation associated with the discrete Boltzmann equation. **91k:35154**
- Kim, Chang Sub (with Duffy, James W.; Santos, Andres; Brey, J. Javier) Analysis of nonlinear transport in Couette flow. **91e:76095**
- Kipnis, C. (with Olla, Stefano; Varadhan, S. R. S.) Hydrodynamics and large deviation for simple exclusion processes. **91h:60115**
- Kogan, M. N. see Abramov, A. A., **91e:76094**
- Krasnoslobodtsev, A. V. Gas dynamic and kinetic analogues in the theory of vertically inhomogeneous shallow water. (Russian. English summary) **91k:76012**
- Lavenda, B. H. Probabilistic derivation of van der Waals' equation. **91j:82025**
- Léaut, Christian A quasi-Monte Carlo method for the Boltzmann equation. **91g:65008**
- Lei, Peng (with Yang, Ming Zhu; Ye, Jian Jun) Spectral analysis of a class of abstract kinetic operators. **91f:47100**
- (with Pan, Li; Yang, Ming Zhu) Parameter distributions of a class of abstract dynamic equations and their applications. (Chinese. English summary) **91f:34081**
- Levermore, C. David see Bardos, Claude; et al., **91k:76139**
- Lions, Pierre-Louis see DiPerna, R. J., **91m:76098**
- Loyalka, S. K. (with Hickey, K. A.) The Kramers problem: velocity slip and defect for a hard sphere gas with arbitrary accommodation. **91e:76096**
- Lukshin, A. V. Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation. (Russian) **91k:82044**
- van der Mee, Cornelis V. M. see Pavari-Fontana, Stefano L.; et al., **91e:82064** and Toscani, G., **91e:35203**
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- Monaco, R. (with Pandolfi, Miriam; Platkowski, Tadeusz) Shock-waves formation by the discrete Boltzmann equation for binary gas mixtures. **91h:76068**
- Morrison, P. J. see Pfirsch, D., **91k:82063**
- Mürmann, Michael G. The nearest neighbor gradient system. A rigorous model for a version of the minimal entropy production principle. **91e:82013**
- Nedyalkov, M. see Vitanov, P., (91m:65003)
- Nonnenmacher, D. J. F. see Nonnenmacher, Theo F., **91f:82062**
- Nonnenmacher, Theo F. (with Nonnenmacher, D. J. F.) Towards the formulation of a nonlinear fractional extended irreversible thermodynamics. **91f:82062**
- Olla, Stefano see Kipnis, C.; et al., **91h:60115**
- Orlov, Yu. N. (with Pavlotskii, I. P.) Equations of weakly relativistic viscous hydrodynamics. (Russian) **91e:76118**
- Pan, Li see Lei, Peng; et al., **91f:34081**
- Pandolfi, Miriam see Monaco, R.; et al., **91h:76068**
- Pavari-Fontana, Stefano L. (with van der Mee, Cornelis V. M.; Zweifel, P. F.) A neutral gas model for electron swarms. **91e:82064**
- Pavlotskii, I. P. see Orlov, Yu. N., **91e:76118**
- Pfirsch, D. (with Morrison, P. J.) The energy-momentum tensor for the linearized Maxwell-Vlasov and kinetic guiding center theories. **91k:82063**
- Pichon, Guy (with Huynh-Servet, Madeleine) Sur une classe de solutions exactes des équations de Boltzmann en théorie discrète. (English summary) [A class of exact solutions of the Boltzmann discrete equation] **91d:35217**
- Piechór, K. Spectral problems for semidiscrete and discrete models of the Boltzmann equation. I. (Russian and Polish summaries) **91m:76100**
- Platkowski, Tadeusz see Monaco, R.; et al., **91h:76068**
- Polewczak, Jacek see Greenberg, William, **91d:35215**
- Polityukov, V. P. Solution of the Cauchy problem for the nonlinear Uehling-Uhlenbeck problem. **91j:35269**
- Pope, C. N. see Bergshoeff, E. A.; et al., **91m:81231**
- Popov, E. F. Kinetic equations for charged particles and a longitudinal electric field. **91f:82069**
- see also Vorob'eva, M. V., **91e:82039**
- Poturaev, V. N. see Goldshtein, A. I.; et al., **91k:76006**
- Poupaud, Frédéric Derivation of a hydrodynamic system hierarchy for semiconductors from the Boltzmann equation. **91j:82052**
- Romans, L. J. see Bergshoeff, E. A.; et al., **91m:81231**
- Russo, Giovanni A Lagrangian method for collisional kinetic equations. **91k:82059**
- Sakabekov, A. Solvability of a system of Boltzmann moment equations in a two-dimensional domain. (Russian. Kazakh summary) **91d:35218**
- Santos, Andres see Kim, Chang Sub; et al., **91e:76095**
- Schröter, Joachim Some remarks concerning relativistic kinetic theory. **91g:83040**
- Serna, A. see Dominguez Tenreiro, R., **91f:83057**
- Sero-Guillaume, O. E. see Bernardin, D., **91m:76096**
- Sezgin, Ergin see Bergshoeff, E. A.; et al., **91m:81231**
- Shen, Xiang see Bergshoeff, E. A.; et al., **91m:81231**
- Shizuta, Yasushi see Kawashima, Shuichi, **91k:35154**
- Shulyak, I. A. see Goldshtein, A. I.; et al., **91k:76006**
- Stelle, K. S. see Bergshoeff, E. A.; et al., **91m:81231**
- Serminskii, V. V. On the kinetic theory of turbulence. (Russian) **91g:76055**
- see also Molecular gas dynamics and the mechanics of nonhomogeneous media, **91e:82001**
- Takát, Peter The nonlinear Boltzmann equation: representation theory, super- and subalgebras. **91e:35202**
- Toscani, G. (with van der Mee, Cornelis V. M.) An abstract approach to nonlinear Boltzmann-type equations. **91e:35203**
- Totaro, Silvia see Borgioli, Giovanni, **91k:82029**
- Van den Broeck, C. Taylor dispersion revisited. **91h:76076**
- Varadhan, S. R. S. see Kipnis, C.; et al., **91h:60115**
- Vitanov, P. (with Nedyalkov, M.) Application of the Monte Carlo approach in the semiconductor physics. (see **91m:65003**)
- Vorob'eva, M. V. (with Popov, E. F.) On kinetic equations for an electron-oscillator system of a crystal lattice. (Russian. English and Ukrainian summaries) **91e:82039**
- Wick, Joachim see Geyer, T., **91e:76089**
- Yang, Ming Zhu see Lei, Peng; et al., **91f:34081** and **91f:47100**
- Ye, Jian Jun see Lei, Peng; et al., **91f:47100**
- Zakharov, Aleksei Vasil'evich (with Galiakhmetov, A. M.) On the stability of a nonsingular cosmological model in Einstein-Cartan theory. (Russian. English and Ukrainian summaries) **91e:83081**
- Zweifel, P. F. see Pavari-Fontana, Stefano L.; et al., **91e:82064**

Items listed otherwise than by author

All-Union Conference:

- Kinetic Theory of Rarefied and Dense Gas Mixtures and the Mechanics of Nonhomogeneous Media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] **91e:82001**
- Leningrad ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] **91e:82001**
- Molecular gas dynamics and the mechanics of nonhomogeneous media ★ Молекулярная газодинамика и механика неоднородных сред. (Russian) [Molecular gas dynamics and the mechanics of nonhomogeneous media] **91e:82001**

82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [see also 60J15]

- Amiry, A. A. (with Balazs, N. L.) Clusters in a one-dimensional random walk. **91m:82121**
- Aslangul, Claude (with Barthelemy, Marc; Pottier, Noëlle; Saint-James, Daniel) Microscopic dynamical exponents for random-random directed walk on a one-dimensional lattice with quenched disorder. (Not in MR)
- (with Pottier, Noëlle; Saint-James, Daniel) Random walk in a one-dimensional random medium. **91d:82037**
- Balazs, N. L. see Amiry, A. A., **91m:82121**
- Barthelemy, Marc see Aslangul, Claude; et al., (Not in MR)
- Bulgac, Aurel (with Kusnezov, Dimitri) Deterministic and time-reversal invariant description of Brownian motion. **91j:82047**
- Devillard, Pierre (with Stanley, H. Eugene) Exact enumeration approach to the directed polymer problem. **91f:82056**
- Duong-van, Minh The physics of the logistic map in the continuous-time limit. **91m:82122**
- Flesia, S. see Madras, N.; et al., **91m:82123**
- Forrester, P. J. Probability of survival for vicious walkers near a cliff. **91f:82057**
- Gaunt, D. S. see Madras, N.; et al., **91m:82123**
- Hanggi, Peter see Jung, Peter, **91f:82058**
- Hernández-Machado, A. see Yokoi, Carlos S. O.; et al., **91e:82058**
- Jung, Peter (with Hanggi, Peter) Resonantly driven Brownian motion: basic concepts and exact results. **91f:82058**
- Kusnezov, Dimitri see Bulgac, Aurel, **91j:82047**
- Li, Bin (with Sokal, Alan D.) High-precision Monte Carlo test of the conformal-invariance predictions for two-dimensional mutually avoiding walks. (Not in MR)
- Madras, N. (with Soteros, C. E.; Whittington, S. G.; Martin, J. L.; Sykes, M. F.; Flesia, S.; Gaunt, D. S.) The free energy of a collapsing branched polymer. **91m:82123**
- Martin, J. L. see Madras, N.; et al., **91m:82123**
- Pottier, Noëlle see Aslangul, Claude; et al., **91d:82037** and (Not in MR)
- Ramírez-Piscina, L. see Yokoi, Carlos S. O.; et al., **91e:82058**

- Saint-James, Daniel *see* Aslangul, Claude; et al., 91d:82037 and (Not in MR)
 Sokal, Alan D. *see* Li, Bin, (Not in MR)
 Soteros, C. E. *see* Madras, N.; et al., 91m:82123
 Stanley, H. Eugene *see* Devillard, Pierre, 91f:82056
 Stoll, Andreas Invariance principles for Brownian intersection local time and polymer measures. 91g:82051
 Sykes, M. F. *see* Madras, N.; et al., 91m:82123
 Telcs, András A note on recurrent random walks on graphs. 91m:82124
 Whittington, S. G. *see* Madras, N.; et al., 91m:82123
 Yokoi, Carlos S. O. (with Hernández-Machado, A.; Ramírez-Piscina, L.) Some exact results for the lattice covering time problem. 91c:82058

Items with secondary classifications in 82C41

- Adler, Robert J. The net charge process for interacting, signed diffusions. 91c:60272
 Aleshin, I. D. (with Migdal, Alexander A.; Zmushko, V. V.) The Ising model on the dynamical triangulated random surface. 91c:82042
 Aslangul, Claude (with Barthelemy, Marc; Pottier, Noëlle; Saint-James, Daniel) Dynamical exponents for one-dimensional random-random directed walks. 91a:82060
 Barthelemy, Marc *see* Aslangul, Claude; et al., 91a:82060
 Caracciolo, Sergio (with Pelissetto, Andrea; Sokal, Alan D.) Universal distance ratios for two-dimensional self-avoiding walks: corrected conformal-invariance predictions. 91g:81130
 De Masi, A. (with Ferrari, Pablo Augusto; Goldstein, Sheldon; Wick, W. David) An invariance principle for reversible Markov processes. Applications to random motions in random environments. 91c:60107
 Ferrari, Pablo Augusto *see* De Masi, A.; et al., 91c:60107
 Goldstein, Sheldon *see* De Masi, A.; et al., 91c:60107
 Grosberg, A. Yu. (with Khokhlov, A. R.) ★ Статистическая физика макромолекул. (Russian) [Statistical physics of macromolecules] 91f:82002
 Khokhlov, A. R. *see* Grosberg, A. Yu., 91f:82002
 Lawler, Gregory F. *see* Roerdink, J. B. T. M.; et al., 91a:82061
 Madras, N. (with Orłitsky, Alon; Shepp, Larry A.) Monte Carlo generation of self-avoiding walks with fixed endpoints and fixed length. 91b:60082
 Migdal, Alexander A. *see* Aleshin, I. D.; et al., 91c:82042
 Orłitsky, Alon *see* Madras, N.; et al., 91b:60082
 Pelissetto, Andrea *see* Caracciolo, Sergio; et al., 91g:81130
 Pottier, Noëlle *see* Aslangul, Claude; et al., 91a:82060
 Roerdink, J. B. T. M. (with Shuler, Kurt E.; Lawler, Gregory F.) Diffusion in lattices with anisotropic scatterers. 91a:82061
 Saint-James, Daniel *see* Aslangul, Claude; et al., 91a:82060
 Shepp, Larry A. *see* Madras, N.; et al., 91b:60082
 Shuler, Kurt E. *see* Roerdink, J. B. T. M.; et al., 91a:82061
 Sokal, Alan D. *see* Caracciolo, Sergio; et al., 91g:81130
 Wick, W. David *see* De Masi, A.; et al., 91c:60107
 Zmushko, V. V. *see* Aleshin, I. D.; et al., 91c:82042

82C43 Time-dependent percolation [see also 60K35]

- Given, James A. (with Stell, George) The Kirkwood-Salsburg equations for random continuum percolation. 91m:82125
 Golden, Kenneth M. Convexity and exponent inequalities for conduction near percolation. 91m:82126
 Pietronero, L. (with Stella, A. L.) Percolation as a fractal growth problem. (Not in MR)
 — (with Schneider, W. R.) Invasion percolation as a fractal growth problem. (Not in MR)
 Schneider, W. R. *see* Pietronero, L., (Not in MR)
 Stell, George *see* Given, James A., 91m:82125
 Stella, A. L. *see* Pietronero, L., (Not in MR)

Items with secondary classifications in 82C43

- Bakurov, V. G. (with Gusev, V. I.; Izmailov, A. F.; Kessel, A. R.) Dynamical percolation model of oil displacement by water in the oil reservoir. 91d:86015
 Dhar, Deepak (with Majumdar, S. N.) Abelian sandpile model on the Bethe lattice. 91m:82098
 Gusev, V. I. *see* Bakurov, V. G.; et al., 91d:86015
 Izmailov, A. F. *see* Bakurov, V. G.; et al., 91d:86015
 Kessel, A. R. *see* Bakurov, V. G.; et al., 91d:86015
 Majumdar, S. N. *see* Dhar, Deepak, 91m:82098
 Pisarenko, V. F. (with Reznikova, A. Ya.) The ideas of percolation theory in geophysics and failure theory. (see 91j:60004)
 Reznikova, A. Ya. *see* Pisarenko, V. F., (91j:60004)
 Schulman, Lawrence S. *see* Seiden, Philip E., 91f:85007
 Seiden, Philip E. (with Schulman, Lawrence S.) Percolation model of galactic structure. 91f:85007
 Shapira, Louis W. (with Stephens, A. B.) Bootstrap percolation, the Schröder numbers, and the N -kings problem. 91k:05025
 Stephens, A. B. *see* Shapira, Louis W., 91k:05025

82C44 Dynamics of disordered systems (random Ising systems, etc.)

- Aslangul, Claude (with Barthelemy, Marc; Pottier, Noëlle; Saint-James, Daniel) Dynamical exponents for one-dimensional random-random directed walks. 91a:82060
 — (with Pottier, Noëlle; Saint-James, Daniel) One-dimensional motion in a biased random medium: random potential versus random force. (Not in MR)
 Axel, Françoise (with Peyrière, Jacques) Spectrum and extended states in a harmonic chain with controlled disorder: effects of the Thue-Morse symmetry. 91b:82050
 Barthelemy, Marc *see* Aslangul, Claude; et al., 91a:82060
 van Beek, P. A small concentration expansion for the effective heat conductivity of a random disperse two-component material: an assessment of Batchelor's renormalization method. 91c:82059

- Bogachev, L. V. (with Molchanov, S. A.) Mean field models in the theory of random media. II. 91c:82061
 Bouchaud, Jean-Philippe (with Georges, Antoine) Anomalous diffusion in disordered media: statistical mechanisms, models and physical applications. (Not in MR)
 Bunimovich, L. A. (with Lambert, André; Lima, Ricardo) The emergence of coherent structures in coupled map lattices. (Not in MR)
 De Masi, A. (with Esposito, Raffaele; Lebowitz, Joel L.; Presutti, Errico) Hydrodynamics of stochastic cellular automata. 91g:82052
 Doering, Charles R. *see* Stein, D. L.; et al., 91a:82062
 Dürr, Detlef (with Zanghì, Nino; Zessin, Hans) On rigorous hydrodynamics, self-diffusion and the Green-Kubo formulae. (see 91b:00034)
 Esposito, Raffaele *see* De Masi, A.; et al., 91g:82052
 Fritz, J. Hydrodynamics in a symmetric random medium. 91c:82060
 Georges, Antoine *see* Bouchaud, Jean-Philippe, (Not in MR)
 Gredeskul, S. A. (with Pastur, L. A.; Šeba, Petr) Transmission properties of random point scatterers for waves with two-band dispersion law. 91f:82059
 van Hemmen, J. L. *see* Stein, D. L.; et al., 91a:82062
 Ito, Nobuyasu Discrete-time and single-spin-flip dynamics of the Ising chain. 91f:82060
 Kopčanský, P. *see* Marko, P.; et al., (Not in MR)
 Kupka, M. *see* Marko, P.; et al., (Not in MR)
 Lambert, André *see* Bunimovich, L. A.; et al., (Not in MR)
 Lawler, Gregory F. *see* Roerdink, J. B. T. M.; et al., 91a:82061
 Lebowitz, Joel L. *see* De Masi, A.; et al., 91g:82052
 Lima, Ricardo *see* Bunimovich, L. A.; et al., (Not in MR)
 Marko, P. (with Kupka, M.; Kopčanský, P.) The annealed many-bonds Ising model. (Not in MR)
 McLaughlin, Richard M. *see* Stein, D. L.; et al., 91a:82062
 Mello, Pier A. Averages on the unitary group and applications to the problem of disordered conductors. 91m:82127
 Molchanov, S. A. *see* Bogachev, L. V., 91c:82061
 Palmer, R. G. *see* Stein, D. L.; et al., 91a:82062
 Pastur, L. A. *see* Gredeskul, S. A.; et al., 91f:82059
 Peyrière, Jacques *see* Axel, Françoise, 91b:82050
 Pottier, Noëlle *see* Aslangul, Claude; et al., 91a:82060 and (Not in MR)
 Presutti, Errico *see* De Masi, A.; et al., 91g:82052
 Roerdink, J. B. T. M. (with Shuler, Kurt E.; Lawler, Gregory F.) Diffusion in lattices with anisotropic scatterers. 91a:82061
 Saint-James, Daniel *see* Aslangul, Claude; et al., 91a:82060 and (Not in MR)
 Schneider, Toni Relationship between classical diffusion in random media and quantum localization. (see 91j:58005)
 Šeba, Petr *see* Gredeskul, S. A.; et al., 91f:82059
 Shuler, Kurt E. *see* Roerdink, J. B. T. M.; et al., 91a:82061
 Staudacher, Matthias The Yang-Lee edge singularity on a dynamical planar random surface. 91c:82062
 Stein, D. L. (with Doering, Charles R.; Palmer, R. G.; van Hemmen, J. L.; McLaughlin, Richard M.) Escape over a fluctuating barrier: the white noise limit. 91a:82062
 Zanghì, Nino *see* Dürr, Detlef; et al., (91b:00034)
 Zessin, Hans *see* Dürr, Detlef; et al., (91b:00034)

Items with secondary classifications in 82C44

- Blanchard, Philippe (with Bolz, Georg F.; Krüger, Tyll) Mathematical modelling on random graphs of the spread of sexually transmitted diseases with emphasis on the HIV infection. 91g:92020
 Bolz, Georg F. *see* Blanchard, Philippe; et al., 91g:92020
 Bruno, Oscar P. (with Golden, Kenneth M.) Interchangeability and bounds on the effective conductivity of the square lattice. 91m:82083
 Bunimovich, L. A. Space-time chaos and the generation of coherent structures in map lattices. (Russian) 91g:58179
 Burlatskii, S. F. (with Oshanin, G. S.; Mogutov, A. V.) Direct energy transfer in polymer systems. (Not in MR)
 Chowdhury, Debashish (with Stauffer, Dietrich) Systematics of the models of immune response and autoimmune disease. 91c:92022
 De Masi, A. (with Ferrari, Pablo Augusto; Goldstein, Sheldon; Wick, W. David) An invariance principle for reversible Markov processes. Applications to random motions in random environments. 91c:60107
 Faris, William G. (with Tsay, Woody J.) Scattering of a wave packet by an interval of random medium. 91b:81174
 Ferrari, Pablo Augusto *see* De Masi, A.; et al., 91c:60107
 Geist, Karlheinz (with Lauterborn, Werner) The nonlinear dynamics of the damped and driven Toda chain. II. Fourier and Lyapunov analysis of tori. 91h:58088
 Ginzburg, S. L. ★ Необратимые явления в спинных стеклах. (Russian) [Irreversible phenomena in spin glasses] 91i:82001
 Golden, Kenneth M. (with Goldstein, Sheldon) Arbitrarily slow approach to limiting behavior. 91h:26001
 — *see also* Bruno, Oscar P., 91m:82083
 Goldstein, Sheldon *see* De Masi, A.; et al., 91c:60107 and Golden, Kenneth M., 91h:26001
 Keller, Joseph B. *see* Rubinstein, Jacob, 91c:76114 and 91c:76115
 (Kohn, Robert V.) *see* Random media and composites, 91b:00052
 Krüger, Tyll *see* Blanchard, Philippe; et al., 91g:92020
 Lauterborn, Werner *see* Geist, Karlheinz, 91h:58088
 Levermore, C. David *see* Pomraning, G. C.; et al., 91b:82052
 Maes, Christian Some aspects of the stochastic time evolution of interacting spin systems. 91m:82086
 Mézard, Marc (with Parisi, Giorgio) Interfaces in a random medium and replica symmetry breaking. (Not in MR)
 (Milton, Graeme W.) *see* Random media and composites, 91b:00052
 Mirolo, Renato E. (with Strogatz, Steven H.) Amplitude death in an array of limit-cycle oscillators. 91g:58152
 Mogutov, A. V. *see* Burlatskii, S. F.; et al., (Not in MR)

Nenhaus, Claudia One-dimensional stochastic Ising models with small migration.

91k:60116

Oshanin, G. S. *see* Burlinskii, S. F.; et al., (Not in MR)

Parisi, Giorgio *see* Mézard, Marc, (Not in MR)

Pietronero, L. (with Stella, A. L.) Percolation as a fractal growth problem. (Not in MR)

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Pomraning, G. C. (with Levermore, C. David; Wong, Joe) Transport theory in binary

statistical mixtures. 91b:82052

Roerdink, J. B. T. M. A Markov chain identity and monotonicity of the diffusion constants

for a random walk in a heterogeneous environment. 91m:60134

Rubinstein, Jacob (with Keller, Joseph B.) Sedimentation of a dilute suspension. 91c:76114

— (with Keller, Joseph B.) Particle distribution functions in suspensions. 91c:76115

— Evolution equations for stratified dilute suspensions. 91c:76116

Sanchez, Richard Linear kinetic theory in stochastic media. 91e:82066

Schneider, W. R. *see* Pietronero, L., (Not in MR)

Spohn, Herbert Tracer diffusion in lattice gases. 91m:82088

Stadje, Wolfgang Exact probability distributions for noncorrelated random walk models.

91g:60085

Stauffer, Dietrich *see* Chowdhury, Debashish, 91c:92022

Stella, A. L. *see* Pietronero, L., (Not in MR)

Strogatz, Steven H. *see* Mirolo, Renato E., 91g:58152

Tosatti, E. (with Vulpiani, Angelo; Zannetti, M.) Quantum mapping of classical diffusion

in random media in $D > 1$ space dimensions. 91g:81013

Tsay, Woody J. *see* Faris, William G., 91b:81174

Vulpiani, Angelo *see* Tosatti, E.; et al., 91g:81013

Wick, W. David *see* De Maai, A.; et al., 91c:60107

Wong, Joe *see* Pomraning, G. C.; et al., 91b:82052

Zannetti, M. *see* Tosatti, E.; et al., 91g:81013

Zegarliński, Bogusław Log-Sobolev inequalities for infinite one-dimensional lattice systems.

91g:82023

Items listed otherwise than by author

Leesburg, VA ★ Random media and composites. 91b:00052

Random media and composites ★ Random media and composites. 91b:00052

Workshop:

Random Media and Composites ★ Random media and composites. 91b:00052

82C70 Transport processes

Anistratov, D. Yu. (with Gol'din, V. Ya.) Comparison of nonlinear flow methods for the

numerical solution of the transport equation. (Russian. English summary) 91m:82128

Arsen'er, A. A. Justification of the direct statistical modeling method in a problem of the

kinetic theory of gases. (Russian) 91c:82061

Berger, Melvyn S. Nonlinear mathematical phenomena associated with semiconductor

devices. 91c:82063

Ehrlich, Gert *see* Wrigley, John D.; et al., 91k:82058

Frosali, Giovanni (with van der Mee, Cornelis V. M.) Scattering theory relevant to the

linear transport of particle swarms. 91b:82051

Gaspard, Pierre (with Nicolis, G.) Transport properties, Lyapunov exponents, and entropy

per unit time. 91h:82042

Gol'din, V. Ya. *see* Anistratov, D. Yu., 91m:82128

Guerriero, Gabriele *see* Rionero, Salvatore, 91f:82063

Haider, Nassar H. S. On eigenfunctions of the one-speed neutron transport equation in

plane geometry. 91f:82061

Handrich, Klaus Langevin-Gleichung und Fluktuation-Dissipations-Theorem für

Brownsche Teilchen bei elastischer und unelastischer Wechselwirkung. (English and

Russian summaries) [Langevin equation and fluctuation-dissipation theorem for

Brownian particles with elastic and inelastic interactions] 91a:82063

Hänsch, W. (with Schmeiser, Christian) Hot electron transport in semiconductors.

(German summary) 91c:82062

Jensen, H. Hejgaard *see* Smith, Henrik, 91k:82057

Lappa, A. V. A weighted estimate for the Monte Carlo method for calculating higher

moments of additive characteristics of the transport of particles with multiplication.

91k:82055

Levermore, C. David *see* Pomraning, G. C.; et al., 91b:82052

Malvagi, F. (with Pomraning, G. C.) Renormalized equations for linear transport in

stochastic media. 91c:82063

van der Mee, Cornelis V. M. *see* Frosali, Giovanni, 91b:82051 and Pavri-Fontana, Stefano

L.; et al., 91c:82064

Mokhtar-Kharroubi, Mustapha Effets régularisants en théorie neutronique. (English

summary) [Smoothing effects in neutron transport theory] 91e:82064

Nicolis, G. *see* Gaspard, Pierre, 91h:82042

N'Kaoua, Thierry Une nouvelle discrétisation temporelle des équations du transfert radiatif

et développement d'une méthode particulière matricielle implicite pour leur résolution.

(English summary) [A new time discretization for the radiative transfer equations and

development of an implicit matrix particle method for their solution] 91e:82065

Nonnenmacher, D. J. F. *see* Nonnenmacher, Theo F., 91f:82062

Nonnenmacher, Theo F. (with Nonnenmacher, D. J. F.) Towards the formulation of a

nonlinear fractional extended irreversible thermodynamics. 91f:82062

Oelschläger, Karl Large systems of interacting particles and the porous medium equation.

91m:82129

Pavri-Fontana, Stefano L. (with van der Mee, Cornelis V. M.; Zweifel, P. F.) A neutral gas

model for electron swarms. 91c:82064

Pavlov, B. S. Coherent conductance in a random medium. (see 91f:81005)

Pomraning, G. C. (with Levermore, C. David; Wong, Joe) Transport theory in binary

statistical mixtures. 91b:82052

— Diffusion theory via asymptotics. 91c:82065

— *see also* Malvagi, F., 91c:82063

Rionero, Salvatore (with Guerriero, Gabriele) L^1 -stability of the solutions to an integral

evolution equation of the nonlinear particle transport theory. (Italian summary)

91f:82063

Salimov, K. D. Inverse problems for a transport equation. (Russian) 91k:82056

Sanchez, Richard Linear kinetic theory in stochastic media. 91c:82066

Schmeiser, Christian *see* Hänsch, W., 91c:82062

Seidman, Thomas L. The transient semiconductor problem with generation terms.

91d:82038

Smith, Henrik (with Jensen, H. Hejgaard) ★ Transport phenomena. 91k:82057

Tezcan, C. The one-speed albedo and the slab albedo problems for the FBIS kernel.

91d:82130

Twigg, Mark E. *see* Wrigley, John D.; et al., 91k:82058

Wang, Hai Yan (with Yang, Ming Zhu; Wang, Wen Wei) Spectra of spherically symmetric

transport operators under generalized boundary conditions. (Chinese. English summary)

91a:82064

Wang, Wen Wei *see* Wang, Hai Yan; et al., 91a:82064

Wong, Joe *see* Pomraning, G. C.; et al., 91b:82052

Wrigley, John D. (with Twigg, Mark E.; Ehrlich, Gert) Lattice walks by long jumps.

91k:82058

Yang, Ming Zhu *see* Wang, Hai Yan; et al., 91a:82064

Zhuo, J. Exact solution of the diffusion-limited partial-coalescence process in one

dimension. (Not in MR)

Zweifel, P. F. *see* Pavri-Fontana, Stefano L.; et al., 91c:82064

Items with secondary classifications in 82C70

Amirat, Youcef (with Hamdache, Kamel; Ziani, Abdelhamid) Étude d'une équation de

transport à mémoire. (English summary) [On a first-order transport equation with

memory] 91k:35057

Aslangul, Claude (with Pottier, Noël; Saint-James, Daniel) Random walk in a one-

dimensional random medium. 91d:82037

Avellaneda, Marco (with Majda, Andrew J.) Mathematical models with exact renormaliza-

tion for turbulent transport. 91f:76035

Baals, D. *see* Hess, S.; et al., (91m:00029)

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gasket fractals. 91b:58139

van Beek, P. A small concentration expansion for the effective heat conductivity of a

randomly disperse two-component material: an assessment of Batchelor's renormalization

method. 91c:82059

Bellini-Morante, Aldo *see* Totaro, Silvia, 91g:65133

Biswas, G. (with Karanjai, S.) Time-dependent X - and Y -functions for a homogeneous

isotropically-scattering atmosphere by principle of invariance. 91c:85015

(Brewer, W. D.) *see* Flick, Eugen, 91m:82001

Brugarino, Tommaso (with Greco, Antonio M.) Solutions via group analysis of the

transport equation in nonlinear dispersive or dissipative systems. (French summary)

91c:35017

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elementary solutions for the transport equation. (Russian) (see 91g:35004)

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semiconductor device simulation. I. Analysis of the outer iteration. 91d:65017

Condom, Françoise Domain decomposition and mixed finite elements for the neutron

diffusion equation. 91d:82048

Dnestrovskaya, E. Ya. (with Kalitkin, N. N.) Rosenbrock schemes with complex coefficients

for the transport equation. (Russian. English summary) 91m:65306

Ernst, M. H. (with Nieuwenhuizen, Th. M.; van Velthoven, P. F. J.) Density expansion of

transport coefficients on a 2D site-disordered lattice. II. 91g:82050

— *see also* Nieuwenhuizen, Th. M.; et al., 91g:82049

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91m:82001

Fredriksson, Glenn H. *see* Shaqfeh, Eric S. G., 91b:82061

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91j:00017)

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of effective transport coefficients in quasiperiodic media. 91f:82077

Goldstein, Sheldon *see* Golden, Kenneth M.; et al., 91f:82077

Grechanov, O. A. ★ Стохастическая теория необратимых процессов. (Russian) [Stochastic

theory of irreversible processes] 91k:82038

Greco, Antonio M. *see* Brugarino, Tommaso, 91c:35017

Greengard, Claude (with Raviart, P.-A.) A boundary-value problem for the stationary

Vlasov-Poisson equations: the plane diode. 91b:82064

Hamdache, Kamel *see* Amirat, Youcef; et al., 91k:35057

Hess, O. *see* Hess, S.; et al., (91m:00029)

Hess, S. (with Baals, D.; Hess, O.; et al.) Nonequilibrium molecular dynamics studies of

the transport properties and the structure of complex fluids. (see 91m:00029)

Jerome, Joseph W. *see* Coughran, W. M., Jr., 91d:65017

Juang, Joao (with Nelson, Paul, Jr.) Abstract Riccati equations in an L^1 space of finite

measure and applications to transport theory. 91b:34100

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a path of Brownian motion with drift. 91a:60212

Knyazikhin, Yu. V. Seidel iteration in transport theory. 91d:82039

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жидкостей. (Russian) [Lectures in the theory of quantum fluids] 91k:82002

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electrons in a gas-discharge plasma. (Russian) (Not in MR)

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Kuchma, A. E. *see* Kondrat'ev, Aleksandr Sergeevich, 91k:82002

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- Lebowitz, Joel L. *see* Golden, Kenneth M.; et al., 91f:82077
- Lei, Peng (with Yang, Ming Zhu) The solvability of semi-admissible abstract boundary value problem. 91g:34029
- (with Yang, Ming Zhu; Liu, Rong Sheng; Ye, Jian Jun) The spectrum of some abstract kinetic operators in inhomogeneous media with applications. 91h:47055
- Liu, Rong Sheng *see* Lei, Peng; et al., 91h:47055
- Majda, Andrew J. *see* Avellaneda, Marco, 91f:76035
- Morel, Jim Emanuel *see* Larsen, Edward W., 91j:82002
- Nelson, Paul, Jr. *see* Juang, Jong, 91b:34100
- Nieuwenhuizen, Th. M. (with van Velhoven, P. F. J.; Ernst, M. H.) Density expansion of transport properties on 2D site-disordered lattices. I. General theory. 91g:82049
- *see also* Ernst, M. H.; et al., 91g:82050
- Palmeri, John Exact solutions to the time-dependent Lorentz gas Boltzmann equation: the approach to hydrodynamics. 91e:82057
- Pottier, Nofile *see* Aslangul, Claude; et al., 91d:82037
- Raviart, P.-A. *see* Greengard, Claude, 91b:82064
- Robin, W. A. Nonequilibrium thermodynamics. 91j:82040
- Russo, Giovanni A particle method for collisional kinetic equations. I. Basic theory and one-dimensional results. 91g:65287
- Saint-James, Daniel *see* Aslangul, Claude; et al., 91d:82037
- Sallmer, K. D. ★ Обратные задачи для системы уравнений переноса. (Russian) [Inverse problems for a system of transport equations] 91e:35219
- *see also* Bubnov, B. A., (91g:35004)
- Saenermann, G. *see* Fick, Eugen, 91m:82001
- Schmeiser, Christian On strongly reverse biased semiconductor diodes. 91f:82079
- Shaqfeh, Eric S. G. (with Fredrickson, Glenn H.) The hydrodynamic stress in a suspension of rods. 91h:82061
- Shcheprov, A. V. *see* Kotorov, V. N., (Not in MR)
- Shulaya, D. A. On the expansion of solutions of the linear multivelocity transport theory equation in eigenfunctions of the characteristic equation. 91b:45001
- Sun, Xiaoguang *see* Bedrossian, Samuel D., 91b:58139
- Szmolyan, P. Initial transients of solutions of the semiconductor device equations. 91e:65152
- Totaro, Silvia (with Bellini-Morante, Aldo) On the discrete ordinate method in particle transport. (Italian summary) 91g:65133
- van Velhoven, P. F. J. *see* Nieuwenhuizen, Th. M.; et al., 91g:82049 and Ernst, M. H.; et al., 91g:82050
- Yang, Bin² (with Yang, Ming Zhu) Existence of a discrete spectrum for a class of integro-differential equations. (Chinese) 91m:45013
- Yang, Ming Zhu *see* Lei, Peng, 91g:34029; 91h:47055 and Yang, Bin², 91m:45013
- Ye, Jian Jun *see* Lei, Peng; et al., 91h:47055
- Ziani, Abdelhamid *see* Amirat, Youcef; et al., 91k:35057

82C80 Numerical methods (Monte Carlo, series resummation, etc.)

- Baals, D. *see* Hess, S.; et al., (91m:00029)
- Boghosian, Bruce M. Lattice gases. (see 91m:00034)
- Brower, Richard C. *see* Tamayo, P.; et al., 91a:82065 and 91h:82045
- Degond, Pierre (with Guyot-Delaurens, F.) Particle simulations of the semiconductor Boltzmann equation for one-dimensional inhomogeneous structures. 91m:82131
- Guyot-Delaurens, F. *see* Degond, Pierre, 91m:82131
- Hess, O. *see* Hess, S.; et al., (91m:00029)
- Hess, S. (with Baals, D.; Hess, O.; et al.) Nonequilibrium molecular dynamics studies of the transport properties and the structure of complex fluids. (see 91m:00029)
- Inglber, Lester Statistical-mechanical aids to calculating term-structure models. 91m:82132
- Klein, William *see* Tamayo, P.; et al., 91a:82065 and 91h:82045
- Knyazikhin, Yu. V. Seidel iteration in transport theory. 91d:82039
- Lubachevsky, Boris D. (with Stillinger, Frank H.) Geometric properties of random disk packings. 91h:82043
- Lakshin, A. V. Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation. (Russian) 91h:82044
- Morozova, M. V. Numerical solution of a problem of sorption dynamics. (Russian) 91m:82133
- Russo, Giovanni A Lagrangian method for collisional kinetic equations. 91k:82059
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- Starkov, A. V. ★ О мажорантном подходе к оптимизации весовых алгоритмов метода Монте-Карло при решении уравнения переноса с энергетической зависимостью. (Russian) [The majorant approach to optimizing weighted algorithms of the Monte Carlo method in solving a transfer equation with an energy dependency] 91h:82021
- Stillinger, Frank H. *see* Lubachevsky, Boris D., 91h:82043
- Tamayo, P. (with Brower, Richard C.; Klein, William) Single-cluster Monte Carlo dynamics for the Ising model. 91a:82065
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- Bellini-Morante, Aldo *see* Totaro, Silvia, 91g:65133
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- Buryak, O. E. Fluctuation in the particle method in the solution of the Vlasov/Fokker-Planck equation. (Russian) 91e:35201
- Chen, Hudong (with Chen, Shi Yi; Doolen, Gary D.; Matthaeus, W. H.) Lattice-gas models for multiphase flows and magnetohydrodynamics. (see 91m:00034)
- (with Matthaeus, W. H.; Klein, L. W.) Theory of multicolor lattice gas: a cellular automaton Poisson solver. 91i:82015
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- Gusev, V. I. *see* Bakurov, V. G.; et al., 91d:86015
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- Hilhorst, H. J. *see* Brummelhuis, M. J. A. M., 91m:82082
- Hubner, G. F. (with Titulaer, U. M.) The kinetic boundary layer for the linearized Boltzmann equation around an absorbing sphere. 91e:82055
- Izmailov, A. F. *see* Bakurov, V. G.; et al., 91d:86015
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- (with Yuferov, I. E.) Stochastic algorithms of the mathematical theory of the spatially inhomogeneous Boltzmann equation for a gas mixture. (Russian. English summary) 91m:82118
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- Meneveau, Charles (with Chhabra, Ashvin B.) Two-point statistics of multifractal measures. 91d:58158
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- Poland, Douglas The one-dimensional kinetic Ising model: a series expansion study. 91f:82047
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- Totaro, Silvia (with Bellini-Morante, Aldo) On the discrete ordinate method in particle transport. (Italian summary) 91g:65133
- Vallés, J. L. *see* Nielaba, P.; et al., 91e:82043
- Vitanov, P. (with Nedyalkov, M.) Application of the Monte Carlo approach in the semiconductor physics. (see 91m:65003)
- Yuferov, I. E. *see* Lakshin, A. V., 91e:82056 and 91m:82118
- Zhikov, V. V. Remarks on a problem of residual diffusion. 91d:35095

82C99 None of the above, but in this section

- Aramson, I. S. (with Rabinovich, M. I.) Dynamics of spiral waves in nonequilibrium media. 91h:82046
- Battezzati, M. The diffusion equation for a classical mechanical system in an anharmonic potential. 91f:82065
- Beznosyuk, S. A. (with Muldakhmetov, Z. M.) Quantum-field topology of clusters: the theory of chemical superstructures of compact molecules of condensed states. (Russian) 91d:82040
- Bishop, Alan R. Coherence and chaos in condensed matter. (see 91i:00022)
- Bruinsma, R. The statistical mechanics of meandering. (French summary) 91h:82053
- Cataldo, Horacio M. Non-Markovian relaxation of a quantum system. 91f:82066
- Cheng, Zheming (with Redner, S.) Kinetics of fragmentation. 91a:82066
- Donald, Matthew J. Quantum theory and the brain. 91d:82041
- Edwards, S. F. (with Schwartz, Moshe) Dynamics of deformable bodies with variable membrane. 91m:82134
- Herrmann, Hans J. Cellular automata. 91i:82022
- Imaeda, Tatsuhiro (with Kawasaki, Kyozu) Multipole expansion in the Ostwald ripening theory. 91a:82067
- Kawasaki, Kyozu *see* Imaeda, Tatsuhiro, 91a:82067
- (Mandelbrot, Benoit B.) *see* Vicsek, Tamás, 91c:82067
- Mekjian, A. Z. Distribution of cluster sizes from evaporation to total multifragmentation. 91c:82066
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- Muldakhmetov, Z. M. *see* Beznosyuk, S. A., 91d:82040
- Nagatsi, Takashi A growth model with phase transition. (Japanese. English summary) (Not in MR)
- Osborne, A. R. *see* Provenzale, A.; et al., (Not in MR)
- Pietronero, L. *see* Vespignani, A., 91m:82135
- Provenzale, A. (with Osborne, A. R.; Soj, R.) Convergence of the K_2 entropy for random noises with power law spectra. (Not in MR)
- Pustyl'nikov, L. D. A new mechanism for accelerating particles and the number of rotations. 91f:82067
- Rabinovich, M. I. *see* Aramson, I. S., 91h:82046
- Redner, S. *see* Cheng, Zheming, 91a:82066
- Ruelle, David Is there screening in turbulence? 91k:82060
- Schwartz, Moshe *see* Edwards, S. F., 91m:82134
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- Vicsek, Tamás ★ Fractal growth phenomena. 91c:82067

Wollensak, Matthias ★ Quantendiffusion und Quantenkohärenz im periodischen Potential. (German) [Quantum diffusion and quantum coherence in periodic potential] 91g:82053

Items with secondary classifications in 82C99

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- Bressloff, P. C. (with Taylor, John G.) Random iterative networks. 91k:92008
- Chen, Zhong Ying see Reichl, L. E.; et al., 91g:58262
- Christiansen, Freddy (with Paladin, G.; Rugh, Hans Henrik) Determination of correlation spectra in chaotic systems. 91g:58181
- Delbourgo, R. (with Kenny, Brian G.) Fractal dimension associated with a critical circle map with an arbitrary-order inflection point. 91g:58182
- Ellbeck, J. C. (with Scott, Alwyn C.) Theory and applications of the discrete self-trapping equation. (see 91j:58005)
- Felderhof, B. Ubbo Dynamics of hard sphere suspensions. 91j:76067
- Fox, Ronald F. (with Keizer, Joel) Amplification of intrinsic fluctuations by chaotic dynamics in physical systems. 91j:58106
- Frisch, H. L. (with Privman, V.; Nicolis, C.; Nicolis, G.) Exact solution of the diffusion in a bistable piecewise linear potential. (Not in MR)
- Gerling, R. W. Classification of 3-state and 4-state cellular automata. (Not in MR)
- Hata, Hiroki see Ishizaki, Ryuji; et al., 91g:58186
- Horita, Takehiko see Ishizaki, Ryuji; et al., 91g:58186
- Ichikawa, Yoshi H. (with Nomura, Yasuyuki; Kamimura, Tetsuo) Period-3 catastrophe and enhanced diffusion in two-dimensional Hamiltonian systems. 91g:58204
- Ishizaki, Ryuji (with Hata, Hiroki; Horita, Takehiko; Mori, Hazime) Long-time correlations and anomalous diffusion due to accelerator modes in the standard maps. 91g:58186
- Jetschke, Gottfried ★ Mathematik der Selbstorganisation. (German) [Mathematics of self-organization] 91g:58259
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- Joets, A. see Ribotta, R., 91g:76039
- Kamimura, Tetsuo see Ichikawa, Yoshi H.; et al., 91g:58204
- Kaneko, Kunihiro Globally coupled chaos violates the law of large numbers but not the central-limit theorem. 91g:58190
- Kapral, Raymond Discrete models for chemically reacting systems. (Not in MR)
- Keizer, Joel see Fox, Ronald F., 91j:58106
- Kenny, Brian G. see Delbourgo, R., 91g:58182
- Kuramoto, Yoshiki On the reduction of evolution equations in extended systems—the underlying universal structure. 91h:58168
- Lebowitz, Joel L. (with Orlandi, Enza; Presutti, Errico) Convergence of stochastic cellular automaton to Burgers' equation: fluctuations and stability. 91m:76001
- Makhan'kov, V. G. ★ Soliton phenomenology. 91m:35204
- Millonas, M. M. see Reichl, L. E.; et al., 91g:58262
- Mori, Hazime see Ishizaki, Ryuji; et al., 91g:58186
- Nicolas, C. see Frisch, H. L.; et al., (Not in MR) and Nicolis, G.; et al., (91j:58005)
- Nicolas, G. (with Subba Rao, G.; Subba Rao, J.; Nicolis, C.) Generation of spatially asymmetric, information-rich structures in far from equilibrium systems. (see 91j:58005)
- see also Frisch, H. L.; et al., (Not in MR)
- Nomura, Yasuyuki see Ichikawa, Yoshi H.; et al., 91g:58204
- Orlandi, Enza see Lebowitz, Joel L.; et al., 91m:76001
- Ortoleva, Peter J. Nonequilibrium reaction-diffusion structures in rigid and visco-elastic media: knots and unstable noninertial flows. 91a:35092
- Ozorio de Almeida, Alfredo M. Mathematical methods of nonlinear physics. 91k:58031
- Paladin, G. see Christiansen, Freddy; et al., 91g:58181
- Pellegrinotti, A. Errata: "Evidence for the Poisson distribution for quasi-energies in the quantum kicked-rotator model" [J. Statist. Phys. 53 (1988), no. 5-6, 1327-1336]. 91d:28037
- Presutti, Errico see Lebowitz, Joel L.; et al., 91m:76001
- Privman, V. see Frisch, H. L.; et al., (Not in MR)
- Reichl, L. E. (with Chen, Zhong Ying; Millonas, M. M.) Stochastic manifestation of chaos. 91g:58262
- Ribotta, R. (with Joets, A.) Defects and disorder of nonlinear waves in convection. 91g:76039
- Rössler, O. E. Explicit observers. 91a:58174
- Rugh, Hans Henrik see Christiansen, Freddy; et al., 91g:58181
- Scott, Alwyn C. see Ellbeck, J. C., (91j:58005)
- Sherwood, J. D. Random sequential adsorption of lines and ellipses. 91f:82064
- Steiner, F. see Aurich, R., 91f:81037
- Stone, Emily F. Power spectra of the stochastically forced Duffing oscillator. 91f:70022
- Subba Rao, G. see Nicolis, G.; et al., (91j:58005)
- Subba Rao, J. see Nicolis, G.; et al., (91j:58005)
- Taylor, John G. see Bressloff, P. C., 91k:92008
- Voorhees, Burton Entropy of additive cellular automata. 91b:68086

82Dxx Applications to specific types of physical systems

82D05 Gases

- Anderson, James L. (with Nowotny, Ekkehard) Stochastic forces and fluctuation-dissipation theorems in a relativistic one-component gas. 91b:82054
- Nowotny, Ekkehard see Anderson, James L., 91b:82054

Items with secondary classifications in 82D05

- De Haan, M. Derivation of a kinetic equation for an inhomogeneous gas of particles bearing a spin and obeying quantum statistics. 91c:82052

82D10 Plasmas

- Abdel-Gawad, H. I. Solution of a class of partial differential equations. Some diffusion equations. 91b:82055
- Alastuey, A. (with Martin, Philippe André) Absence of exponential clustering in quantum Coulomb fluids. 91b:82056
- Arlotti, Luisa On the asymptotic behaviour of electrons in an ionized gas. 91b:82057
- Atamanjuk, B. see Turski, A. J., 91m:82141
- Balescu, R. Is Onsager symmetry relevant in the transport equations for magnetically confined plasmas? 91k:82061
- Blum, Jacques ★ Numerical simulation and optimal control in plasma physics. 91f:82068
- Cavalleri, G. (with Mauri, Giovanni) Integral expansion often reducing to the density-gradient expansion, extended to non-Markov stochastic processes: consequent non-Markovian stochastic equation whose leading terms coincide with Schrödinger's. 91b:82058
- Crawford, John David see Hsiang, Peter D., 91b:82060
- Dressler, Klaus Steady states in plasma physics—the Vlasov-Fokker-Planck equation. 91k:82062
- Dubois, Marc A. Anomalous transport of energy in tokamaks and the beasts model. 91m:82136
- von Flückenstein, Karl Graf Flück Difference methods for quasilinear parabolic systems from plasma physics. (Not in MR)
- Gandolfo, D. (with Hoegh-Krohn, Raphael J.; Rodriguez, Roger) A stochastic model for plasma dynamics. (see 91h:00034)
- Glassey, Robert T. (with Strauss, Walter A.) Large velocities in the relativistic Vlasov-Maxwell equations. 91b:82059
- (with Schaeffer, Jack W.) On the "one and one-half dimensional" relativistic Vlasov-Maxwell system. 91g:82054
- Hsiang, Peter D. (with Crawford, John David) Application of spectral deformation to the Vlasov-Poisson system. II. Mathematical results. 91b:82060
- Hoegh-Krohn, Raphael J. see Gandolfo, D.; et al., (91h:00034)
- Koterov, V. N. (with Shcheprov, A. V.) Calculation of spatially nonequilibrium transport of electrons in a gas-discharge plasma. (Russian) (Not in MR)
- Martin, Philippe André see Alastuey, A., 91b:82056
- Mauri, Giovanni see Cavalleri, G., 91b:82058
- Morrison, P. J. (with Pfirsch, D.) The free energy of Maxwell-Vlasov equilibria. 91j:82048
- see also Pfirsch, D., 91k:82063
- Nejoh, Yasunori New spiky solitary waves, explosive modes and periodic progressive waves in a magnetised plasma. 91m:82137
- Nikonov, S. V. see Vlasov, M. A., 91m:82142
- Novikov, V. N. A method for solving kinetic equations of Fokker-Planck type for a plasma. (Russian) 91g:82055
- Pfirsch, D. (with Morrison, P. J.) The energy-momentum tensor for the linearized Maxwell-Vlasov and kinetic guiding center theories. 91k:82063
- see also Morrison, P. J., 91j:82048
- Popov, E. F. Kinetic equations for charged particles and a longitudinal electric field. 91f:82069
- Kinetic equations for charged particles and the electromagnetic field generated by them. 91m:82138
- Requardt, M. (with Wagner, H. J.) Wigner crystallization and its relation to the poor decay of pair correlations in one-component plasmas of arbitrary dimension. 91m:82139
- Rodriguez, Roger see Gandolfo, D.; et al., (91h:00034)
- Schaeffer, Jack W. see Glassey, Robert T., 91g:82054
- Shcheprov, A. V. see Koterov, V. N., (Not in MR)
- Strauss, Walter A. see Glassey, Robert T., 91b:82059
- Tolstomogov, D. A. Properties of stationary solutions of a mathematical model for the balance of densities of plasma in a gas-dynamic trap. (Russian. English summary) 91m:82140
- Turski, A. J. (with Atamanjuk, B.) Far field solutions of Vlasov-Maxwell equations and wave-particle interactions. (Russian and Polish summaries) 91m:82141
- Verhulst, Ferdinand (with Zegeling, P. A.) An asymptotic-numerical approach to the coronal loop problem. (Not in MR)
- Vlasov, M. A. (with Nikonov, S. V.) Transport, compression and stability of electron beam in positively charged plasma. 91m:82142
- Wagner, H. J. see Requardt, M., 91m:82139
- Zegeling, P. A. see Verhulst, Ferdinand, (Not in MR)

Items with secondary classifications in 82D10

- Acker, Andrew On the nonconvexity of solutions in free-boundary problems arising in plasma physics and fluid dynamics. 91a:35167
- Ambrosetti, Antonio (with Calahorra, Marco; Dobarro, F.) Remarks on the Grad-Shafranov equation. 91k:35085
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- Benachour, Said Analyticité des solutions des équations de Vlasov-Poisson. [Analyticity of the solutions of the Vlasov-Poisson equations] 91j:35006
- Bertrand, P. see Ghizzi, A.; et al., (Not in MR)
- Borovskii, A. V. (with Galkin, A. L.; Prilimak, V. G.; Chizhonkov, E. V.) Methods for the simultaneous solution of equations of gas dynamics and the kinetics of a multiply charged plasma. (Russian) (Not in MR)
- Bychenkov, V. Yu. (with Silin, V. P.; Tikhonchuk, V. T.) Two-dimensional vortex structures in an anisotropic plasma. 91c:76126
- Calahorra, Marco see Ambrosetti, Antonio; et al., 91k:35085 and 91m:35229
- Charakhchyan, A. A. Computation of viscous plasma heating under compression by a striker in a conical target. (Russian) 91g:76106
- Chizhonkov, E. V. see Borovskii, A. V.; et al., (Not in MR)
- D'Ambrogio, Enos Duffing-like behavior in extended turbulence mode models. 91f:76029
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- Debarre, F. *see* Ambrosetti, Antonio; et al., 91k:35085 and 91m:35229
- Feix, M. R. *see* Ghizzo, A.; et al., (Not in MR)
- Fijalkow, E. *see* Ghizzo, A.; et al., (Not in MR)
- Forrester, P. J. Exact results for the two-dimensional, two-component plasma at $\Gamma = 2$ in doubly periodic boundary conditions. 91m:82024
- Galkin, A. L. *see* Borovskii, A. V.; et al., (Not in MR)
- Ghizzo, A. (with Bertrand, P.; Shoucri, M. M.; Johnston, T. W.; Fijalkow, E.; Feix, M. R.) A Vlasov code for the numerical simulation of stimulated Raman scattering. (Not in MR)
- Herman, Russell L. The stochastic, damped KdV equation. 91d:35189
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- Horst, E. Global solutions of the relativistic Vlasov-Maxwell system of plasma physics. 91m:35222
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- Kiesling, Michael K.-H. A complementary thermodynamic limit for classical Coulomb matter. 91k:82022
- Krftin, L. The intrinsic stochasticity of near-integrable Hamiltonian systems. 91g:58159
- Laurence, Peter (with Stredulinsky, Edward) Convergence of a sequence of free boundary problems associated with the Grad variational problem in plasma physics. 91c:35164
- Lima, Ricardo (with Rahibe, Mohamed) A crossover in the scaling law of the Lyapunov exponent. 91c:82038
- Lysenko, W. P. *see* Holm, Darryl D.; et al., 91g:58081
- Macris, N. (with Martin, Philippe André¹) Ionization equilibrium in the electron-proton gas. 91m:82013
- Martin, Philippe André¹ *see* Macris, N., 91m:82013
- Maschke, E. K. Dynamical systems in plasma theory. 91b:76085
- van der Mee, Cornelis V. M. *see* Pavri-Fontana, Stefano L.; et al., 91c:82064
- Mustieles, Francisco-José *see* Degond, Pierre, 91c:59010
- Nefedov, V. V. (with Popov, A. M.) Evolution conditions in the problem of the bifurcation of a plasma cylinder. (Russian. English summary) 91d:76041
- Newton, Paul K. Wave interactions in the singular Zakharov system. 91k:35245
- O'Dwyer, Brian P. *see* Victory, Harold Dean, Jr., 91d:35219
- Pavri-Fontana, Stefano L. (with van der Mee, Cornelis V. M.; Zweifel, P. F.) A neutral gas model for electron swarms. 91c:82064
- Popov, A. M. *see* Nefedov, V. V., 91d:76041
- Poupaud, Frédéric On a system of nonlinear Boltzmann equations of semiconductor physics. 91b:35315
- Priznak, V. G. *see* Borovskii, A. V.; et al., (Not in MR)
- Rahibe, Mohamed *see* Lima, Ricardo, 91c:82038
- Rein, Gerhard Generic global solutions of the relativistic Vlasov-Maxwell system of plasma physics. 91m:35227
- Rünger, Gudula Attractors of a Schrödinger-Poisson system. 91j:35255
- Schröter, Joachim Some remarks concerning relativistic kinetic theory. 91g:83040
- Scovel, James C. *see* Holm, Darryl D.; et al., 91g:58081
- Shivamoggi, Bhimsen K. The Painlevé analysis of the Zakharov-Kuznetsov equation. 91j:35260
- Shoucri, M. M. *see* Ghizzo, A.; et al., (Not in MR)
- Silin, V. P. *see* Bychenkov, V. Yu.; et al., 91c:76126
- Strauss, Walter A. ★ Nonlinear wave equations. 91g:35002
- Stredulinsky, Edward *see* Laurence, Peter, 91c:35164
- Subbarao, D. *see* Uma, R., 91b:76113
- Swanson, D. G. ★ Plasma waves. 91g:76107
- Thomas, Gary E. *see* Kaup, D. J., 91a:76090 and (Not in MR)
- Tikhonchuk, V. T. *see* Bychenkov, V. Yu.; et al., 91c:76126
- Uma, R. (with Subbarao, D.) Intrinsic chaos in a plasma wave. 91b:76113
- Victory, Harold Dean, Jr. (with O'Dwyer, Brian P.) On classical solutions of Vlasov-Poisson Fokker-Planck systems. 91d:35219
- Zweifel, P. F. *see* Pavri-Fontana, Stefano L.; et al., 91c:82064
- ### 82D15 Liquids
- Dobrushin, R. L. (with Pellegrinotti, A.; Sukhov, Yu. M.) One-dimensional harmonic lattice caricature of hydrodynamics: a higher correction. 91j:82049
- Felderhof, B. Ubbo Hydrodynamics of suspensions. (see 91k:82003)
- Fredrickson, Glenn H. *see* Shaqfeh, Eric S. G., 91k:82061
- Gonchar, N. S. (with Rudyk, A. B.) Oscillation of the radial distribution function and singularity of the approximate equation of state for the hard sphere model. 91k:82064
- Kikuchi, Ryoichi *see* Schlüper, Antoine G., (Not in MR)
- Kovalevskii, M. Ya. (with Krasnikov, V. A.; Peletminskii, S. V.) The connection between fluxes of additive integrals of motion in a state of statistical equilibrium in condensed media. 91c:82068
- Krasnikov, V. A. *see* Kovalevskii, M. Ya.; et al., 91c:82068
- Peletminskii, S. V. *see* Kovalevskii, M. Ya.; et al., 91c:82068
- Pellegrinotti, A. *see* Dobrushin, R. L.; et al., 91j:82049
- Rudyk, A. B. *see* Gonchar, N. S., 91k:82064
- Schlüper, Antoine G. (with Kikuchi, Ryoichi) A variational approach to distribution function theory. (Not in MR)
- Shaqfeh, Eric S. G. (with Fredrickson, Glenn H.) The hydrodynamic stress in a suspension of rods. 91b:82061
- Sukhov, Yu. M. *see* Dobrushin, R. L.; et al., 91j:82049
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- Alexanian, Moorad (with Sanders, Frank C.) Equation of state for hard disks and spheres: the Kirkwood transition. 91f:82028
- Altshuler, M. V. (with Moiseev, S. S.) Supersymmetry in hydrodynamics: vorticity as a ghost charge. (Not in MR)
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- Fesljan, S. (with Percus, J. K.) Collective modes in a one-dimensional nonuniform fluid model. 91c:82090
- Golse, François *see* Bardos, Claude; et al., 91k:76139
- Gonchar, N. S. (with Rudyk, A. B.) New approximate equations of the condensed substance state. (Russian. English summary) 91f:82042
- van Hemmen, J. L. *see* Stein, D. L.; et al., 91a:82062
- Koch, Donald L. *see* Shaqfeh, Eric S. G., 91e:76015
- Kurtović, Z. *see* Dawson, K. A., 91a:82014
- Levermore, C. David *see* Bardos, Claude; et al., 91k:76139
- McLaughlin, Richard M. *see* Stein, D. L.; et al., 91a:82062
- Moiseev, S. S. *see* Altshuler, M. V., (Not in MR)
- Orlov, Yu. N. Equations in hydrodynamics in post-Galilean approximation. (Russian) 91c:76009
- Ott, Edward *see* Yu, Lei; et al., 91m:58108
- Palmer, R. G. *see* Stein, D. L.; et al., 91a:82062
- Percus, J. K. *see* Fesljan, S., 91c:82090
- Qian, Jian Spectral dynamics of passive scalar convected by homogeneous 2-dimensional turbulence. 91k:76081
- Roepstorff, Gert *see* Beck, Christian, 91f:82032
- Rowlinson, J. S. *see* Baram, A., 91b:82002
- Rudyk, A. B. *see* Gonchar, N. S., 91f:82042
- Sanders, Frank C. *see* Alexanian, Moorad, 91f:82028
- Schwartz, Moshe *see* Edwards, S. F., 91m:82134
- Shaqfeh, Eric S. G. (with Koch, Donald L.) Orientational dispersion of fibers in extensional flows. 91c:76015
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- Grafelf, M. A. Energy changes accompanying first-order phase transitions with small inherent deformation in solids. 91e:73010
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- Kinderlehrer, David Phase transitions in crystals: towards the analysis of microstructure. 91k:73014
- King, John Robert Mathematical analysis of a model for substitutional diffusion. 91g:80006
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- Nettel, S. *see* Radzihovsky, L., 91d:81050
- Pittler, Mario On a statistical-kinetic model for generalized continua. 91k:73002
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- Sado, Jean-François (with Mosseri, Rémy) A new method to generate quasicrystalline structures: examples in 2D tilings. (French summary) 91c:82073
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Zheng, Song Mu *see* Spekreijjs, Jürgen, 91m:82097

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82D25 Crystals (For crystallographic group theory, see 20H15.)

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- Avellaneda, Marco Iterated homogenization and the effective properties of polycrystals. 91g:82056
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- Burns, Gerald (with Glazer, A. M.) ★ Spece groups for solid state scientists. 91c:82071
- Glazer, A. M. *see* Burns, Gerald, 91c:82071
- Helming, Kurt *see* Matthies, Siegfried; et al., 91a:82070 and 91b:82062
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- Kalugin, P. A. (with Levitov, L. S.) Topological constraints for quasicrystals. 91f:82071
- Kléman, Maurice Curved crystals, defects and disorder. 91m:82144
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- Kramer, Peter *see* Baake, M.; et al., 91k:82065
- Lada, Andrzej Some solutions for the spin glass system and for systems originating from it. 91m:82146
- Levitov, L. S. *see* Kalugin, P. A., 91f:82071
- Mardix, S. Homomorphism in close-packed structures. 91a:82069
- Matthies, Siegfried (with Vinet, Galina W.; Helming, Kurt) ★ Standard distributions in texture analysis. Vol. 1. 91a:82070
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- Mermin, N. David (with Rabson, David A.; Rokhsar, Daniel S.; Wright, David C.) Stacking quasicrystallographic lattices. 91c:82072
- Mosseri, Rémy *see* Sadoc, Jean-François, 91c:82073 and Sire, Clément, 91j:82050
- Nileski, Komajiro Self-similarity of quasilattices in two dimensions. III. Inflation by a nonunit PV number. 91b:82047
- Icosahedral black-and-white Bravais quasilattices and order-disorder transformations of icosahedral quasicrystals. 91b:82048
- Three-dimensional black-and-white Bravais quasilattices with (2 + 1)-reducible point groups. (Not in MR)
- Rabson, David A. *see* Mermin, N. David; et al., 91c:82072
- Rivier, N. The topological structure of grain boundaries. 91b:82049
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- Rudner, S. V. Application of elliptic Riemannian geometry to problems of crystallography. 91c:82068
- Sadoc, Jean-François (with Mosseri, Rémy) A new method to generate quasicrystalline structures: examples in 2D tilings. (French summary) 91c:82073
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- Verger-Gaugry, J.-L. Calculation of 6D atomic surfaces from a given approximant crystalline structure using approximate icosahedral periodic tilings. 91f:82073
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- Barnes, I. S. (with Hyde, S. T.; Ninham, B. W.) The cesium chloride zero potential surface is not the Schwarz P-surface. (French summary) 91k:3013
- Billiet, Yves *see* Masmoudi, Korch, 91c:20037
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- Fedorov, A. F. *see* Fedorov, F. I., 91k:73049
- Fedorov, F. I. (with Fedorov, A. F.) On the structure of the Green-Christoffel tensor. 91k:73049
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- Gibbs, G. V. *see* Bolsen, M. B., Jr.; et al., 91f:20056
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- (with Luck, J. M.) Quasiperiodicity and randomness in tilings of the plane. 91c:52025
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- Gómez, Alfredo *see* Aragón, J. L.; et al., 91j:82020
- Grabowski, Marek (with Hawrylak, Paweł) Wave propagation in a nonlinear periodic medium. 91g:78009
- Grebille, D. (with Weigel, D.; Veyseyre, R.; Phan, Thérèse) Crystallography, geometry and physics in higher dimensions. VII. The different types of symbols of the 371 monoincommensurate superspace groups. 91c:20065
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- Hyde, S. T. *see* Barnes, I. S.; et al., 91k:53013
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- A classification of special points of quasilattices in two dimensions. 91c:52021
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- Ninham, B. W. *see* Barnes, I. S.; et al., 91k:53013
- Oguy, Christophe *see* Dunesau, Michel; et al., 91c:52024 and 91c:52032
- Phan, Thérèse *see* Grebille, D.; et al., 91c:20065
- Ping, Jia Lun *see* Lja, Fa; et al., 91k:20053
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- Punkhish, S. A. Quasicrystallographic groups in the sense of Novikov. 91b:20076
- Porta, Horacio A. (with Stolarsky, Kenneth B.) Half-silvered mirrors and Wythoff's game. 91b:11019
- Preisinger, A. *see* Zobetz, E., 91j:52024
- Ramano, Antonio *see* Iannace, Donatella, 91m:73004
- Sadoc, Jean-François *see* Sire, Clément; et al., 91c:52026
- Sahoo, Debdranath *see* Venkataraman, Ganesan; et al., 91c:82069
- Salon, Olivier Quelles tuiles! (Pavages aperiodesques du plan et automates bidimensionnels). (English summary) [Aperiodic tilings of the plane and two-dimensional automata] 91b:52014
- Schlottmann, M. *see* Baake, M.; et al., 91b:52013 and Kramer, Peter, 91g:52012
- Schmahl, Wolfgang Wilhelm Search tree method for the determination of similarity operators between arbitrary lattices. 91c:52026
- Scholz, Erhard ★ Symmetrie—Gruppe—Dualität. (German) [Symmetry—group—duality] 91j:01029
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- Stolarsky, Kenneth B. *see* Porta, Horacio A., 91b:11019
- Taylor, Jean *see* Senechal, Marjorie, 91a:52028
- Tolimieri, Richard *see* An, Myoung; et al., 91f:65223
- Trebin, Hans-Rainer *see* Longa, Lech, 91m:82148
- Trubowitz, Eugene *see* Feldman, Joel, 91f:81257

- Vanquickenborne, L. G. *see* Ceulemans, A., 91a:92017
 Vázquez Polo, G. *see* Aragón, J. L.; et al., 91j:52020
 Venkataraman, Ganesan (with Sahoo, Debendranath; Balakrishnan, Venkataraman)
 ★ Beyond the crystalline state. 91c:20069
 Veyseyre, R. *see* Grebille, D.; et al., 91c:20065
 Wang, D. M. (with Wong, K. W.) A study of order to order phase transition. 91f:82030
 Weigel, D. *see* Grebille, D.; et al., 91c:20065
 Westcott, M. *see* Gates, D. J., 91b:82016
 Whittaker, E. J. W. Graphic representation and nomenclature of the four-dimensional crystal classes. V. Enantiomorphic classes. (Not in MR)
 Wondratschek, H. *see* Boisen, M. B., Jr.; et al., 91f:20056
 Wong, K. W. *see* Wang, D. M., 91f:82030
 Zeldler, D. *see* Baake, M.; et al., 91b:52013
 Zohetz, E. (with Preisinger, A.) Vertex frequencies in generalized Penrose patterns. 91j:52024
 Zucker, I. J. Further relations amongst infinite series and products. II. The evaluation of three-dimensional lattice sums. 91b:11107

Items listed otherwise than by author

Introduction to the mathematics of quasicrystals ★ Introduction to the mathematics of quasicrystals. 91a:52030

82D30 Random media, disordered materials (including liquid crystals and spin glasses)

- Ahmed, Elsayed Mohamed (with Hegazi, A. S.) On generalization of the Sinal theorem in the random site problem. 91d:82042
 Beletskii, Yu. A. (with Ivanov, B. A.; Sukstanskii, A. L.) Nonlinear dynamics and solitons in spin glasses. 91m:82147
 Beletskii, E. D. (with Mignarov, N. G.; Tomchuk, P. M.) Construction of generalized thermodynamic potentials by the method of Lie algebras. 91b:82063
 Botet, R. *see* Jullien, R., 91g:82058
 Chukhovskii, F. N. *see* Petrashev, P. V., 91k:82067
 Cwiliich, Gabriel (with Kirkpatrick, T. R.) Mean-field theory and fluctuations in Potts spin glasses. I. 91a:82071
 De Dominicis, Cyrano (with Kondor, I.) Contradictions in spin glass field theory and a possible way out. 91c:82074
 — *see also* Goldschmidt, Yadin Y., 91a:82072
 van Enter, A. C. D. Stiffness exponent, number of pure states, and Almeida-Thouless line in spin-glasses. 91g:82057
 Georges, Antoine (with Mézard, Marc; Yedidia, Jonathan S.) Low-temperature phase of the Ising spin glass on a hypercubic lattice. 91c:82075
 Goldschmidt, Yadin Y. (with De Dominicis, Cyrano) Replica symmetry breaking in the spin-glass model on lattices with finite connectivity: application to graph partitioning. 91a:82072
 — (with Lai, Pik-Yin) Ising spin glass in a transverse field: replica-symmetry-breaking solution. 91a:82073
 Greengard, Claude (with Raviart, P.-A.) A boundary-value problem for the stationary Navier-Poisson equations: the plane diode. 91b:82064
 Hegazi, A. S. *see* Ahmed, Elsayed Mohamed, 91d:82042
 Ivanov, B. A. *see* Beletskii, Yu. A.; et al., 91m:82147
 Jagannathan, A. (with Rudnick, J.) The spherical model for spin glasses revisited. 91a:82074
 Jullien, R. (with Botet, R.) ★ Aggregation and fractal aggregates. 91g:82058
 Kirkpatrick, T. R. *see* Cwiliich, Gabriel, 91a:82071
 Kondor, I. *see* De Dominicis, Cyrano, 91c:82074
 Kovrov, V. P. (with Kurbatov, A. M.) N. N. Bogolyubov's concept of quasi-averages in the theory of disordered systems. (Russian) 91f:82074
 Kozhukhar', S. P. *see* Moskalenko, V. A., 91c:82076
 Kurbatov, A. M. *see* Kovrov, V. P., 91f:82074
 Lai, Pik-Yin *see* Goldschmidt, Yadin Y., 91a:82073
 Longa, Lech (with Trebin, Hans-Rainer) Spontaneous polarization in chiral biaxial liquid crystals. 91m:82148
 Mézard, Marc (with Parisi, Giorgio; Virasoro, Miguel Angel) ★ Spin glass theory and beyond. 91k:82066
 — *see also* Georges, Antoine; et al., 91c:82075
 Mignarov, N. G. *see* Beletskii, E. D.; et al., 91b:82063
 Moskalenko, V. A. (with Kozhukhar', S. P.) An axial model of quadrupole glasses. (Russian) 91c:82076
 Nigmatullin, R. R. (with Sutugin, N. N.) Structure of inhomogeneous media within the random fractal model. 91b:82065
 Osipov, V. A. A monopole-like solution for static disclinations in continuum media. 91c:82077
 Parga, N. Ultrametricity in spin-glasses and other systems. (see 91k:92004)
 Parisi, Giorgio *see* Mézard, Marc; et al., 91k:82066
 Petrashev, P. V. (with Chukhovskii, F. N.) Restoration of the phase of an x-ray wave diffracted by a layered monocystal structure. 91k:82067
 Raviart, P.-A. *see* Greengard, Claude, 91b:82064
 Rudnick, J. *see* Jagannathan, A., 91a:82074
 Sukstanskii, A. L. *see* Beletskii, Yu. A.; et al., 91m:82147
 Sutugin, N. N. *see* Nigmatullin, R. R., 91b:82065
 Tomchuk, P. M. *see* Beletskii, E. D.; et al., 91b:82063
 Trebin, Hans-Rainer *see* Longa, Lech, 91m:82148
 Tsura, Hideo Stability analysis of nematics between two concentric cylinders. 91m:82149
 Virasoro, Miguel Angel *see* Mézard, Marc; et al., 91k:82066
 Wreszinski, Walter F. On the distribution of the effective field for a spin glass on a Cayley tree at zero temperature. 91a:82075
 Yedidia, Jonathan S. *see* Georges, Antoine; et al., 91c:82075

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 Bérissard, Jean *see* Nakamura, Shu, 91j:46084
 Dodd, R. K. (with Morris, Hedley C.) Transition layer dynamics. 91j:35145
 Doering, Charles R. *see* Stein, D. L.; et al., 91a:82062
 Ermilov, A. N. An analytic method of studying the stochastic Potts model. 91c:82034
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 Georges, Antoine *see* Yedidia, Jonathan S., 91c:82075
 Glaquinta, Mariano (with Modica, Giuseppe; Souček, Jiří) Liquid crystals: relaxed energies, dipoles, singular lines and singular points. 91m:58034
 Gutfreund, H. From statistical mechanics to neural networks and back. 91a:82053
 van Hemmen, J. L. *see* Stein, D. L.; et al., 91a:82062
 Huse, David A. *see* Gelfand, Martin P.; et al., 91j:81109
 Kléman, Maurice Curved crystals, defects and disorder. 91m:82144
 Lieb, Elliott H. *see* Almogren, Frederick J., Jr., 91d:58049 and 91g:58052
 Martins, Márcio José *see* Alcaraz, Francisco Castillo, 91c:82009
 McLaughlin, Richard M. *see* Stein, D. L.; et al., 91a:82062
 Modica, Giuseppe *see* Glaquinta, Mariano; et al., 91m:58034
 Morris, Hedley C. *see* Dodd, R. K., 91j:35145
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 Palmer, R. G. *see* Stein, D. L.; et al., 91a:82062
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 Peyrière, Jacques *see* Axel, Françoise, 91b:82050
 Rein, Gerhard A two-species plasma in the limit of large ion mass. 91d:76089
 Singh, Rajiv R. P. *see* Gelfand, Martin P.; et al., 91j:81109 and Fisher, Michael Ellis, 91j:82021
 Souček, Jiří *see* Glaquinta, Mariano; et al., 91m:58034
 Stein, D. L. (with Doering, Charles R.; Palmer, R. G.; van Hemmen, J. L.; McLaughlin, Richard M.) Escape over a fluctuating barrier: the white noise limit. 91a:82062
 Stewart, I. W. A uniqueness theorem for the coagulation-fragmentation equation. 91k:45010
 Yedidia, Jonathan S. (with Georges, Antoine) The fully frustrated Ising model in infinite dimensions. 91c:82035
 Zegarliński, Bogusław On equivalence of spin and field pictures of lattice systems. 91h:82021

82D35 Metals

- Luft, M. (with Peletminskii, S. V.) Structure of the collision integral in the theory of normal Fermi liquids. 91c:82069
 Oleinik, V. L. Asymptotic behavior of energy band associated with a negative energy level. 91h:82050
 Peletminskii, S. V. *see* Luft, M., 91c:82069
 Items with secondary classifications in 82D35
 Brandt, U. (with Fiedlerjohann, A.; Hülsebeck, G.) New phases in a spin-1/2 Falicov-Kimball model. (Not in MR)
 Fiedlerjohann, A. *see* Brandt, U.; et al., (Not in MR)
 Hülsebeck, G. *see* Brandt, U.; et al., (Not in MR)
 Kirsch, Werner (with Pastur, L. A.) The large-time asymptotics of some Wiener integrals and the interband light absorption coefficient in the deep fluctuation spectrum. 91m:82067
 Kondrat'ev, Aleksandr Sergeevich (with Kuchma, A. E.) ★ Лекции по теории квантовых жидкостей. (Russian) [Lectures in the theory of quantum fluids] 91k:82002
 Kuchma, A. E. *see* Kondrat'ev, Aleksandr Sergeevich, 91k:82002
 Pastur, L. A. *see* Kirsch, Werner, 91m:82067
 Shastry, B. Sriram (with Sutherland, Bill) Twisted boundary conditions and effective mass in Heisenberg-Ising and Hubbard rings. 91m:82029
 Sutherland, Bill *see* Shastry, B. Sriram, 91m:82029

82D40 Magnetic materials

- Gong, Chang De *see* Holz, A., 91c:82078
 Holz, A. (with Gong, Chang De) Semi-classical theory of a doped two-dimensional Heisenberg antiferromagnet. 91c:82078
 Khapnev, Mikhail Mikhailovich *see* Osipov, S. G., 91h:82051
 Li, Bo Zang *see* Pu, Fu Ke, 91d:82043
 Osipov, S. G. (with Khapnev, Mikhail Mikhailovich) On the nonlinear dynamics of a domain boundary. 91h:82051
 Peletminskii, S. V. *see* Virchenko, Yu. P., 91c:82070
 Pu, Fu Ke (with Li, Bo Zang) The bifurcation analysis for the continuous and discontinuous transitions of the magnetization distribution in ferromagnets. 91d:82043
 Virchenko, Yu. P. (with Peletminskii, S. V.) Solutions of equations of the dynamics of spiral exchange magnetic structures. 91c:82070

Items with secondary classifications in 82D40

Bishop, Alan R. *see* Schmeltzer, D., 91a:82024

Schmeltzer, D. (with Bishop, Alan R.) Anyons in the XY model induced by charged holes. 91a:82024

Shankar, Ramamurti Holes in a quantum antiferromagnet: a formalism and some exact results. 91c:82019

82D50 Superfluids

Banks, Thomas (with Lykken, Joseph D.) Landau-Ginzburg description of anyonic superconductors. 91c:82079

Bogolyubov, N. N., Jr. (with Kovalevskii, M. Yu.; Kurbatov, A. M.; Peletminskii, S. V.; Tarasov, A. N.) On the microscopic theory of superfluid liquids. 91b:82066

Davis, Richard Lynn Quantum turbulence. 91b:82067

Kovalevskii, M. Yu. *see* Bogolyubov, N. N., Jr.; et al., 91b:82066

Krasil'nikov, V. V. (with Peletminskii, S. V.; Yatsenko, A. A.) On the theory of a superfluid Fermi liquid. 91c:82080

Kurbatov, A. M. *see* Bogolyubov, N. N., Jr.; et al., 91b:82066

Lykken, Joseph D. *see* Banks, Thomas, 91c:82079

MacKowiak, J. On the Bose-Einstein condensation of a quantum liquid. 91c:82081

Peletminskii, S. V. *see* Bogolyubov, N. N., Jr.; et al., 91b:82066 and Krasil'nikov, V. V.; et al., 91c:82080

Pismen, L. M. (with Rubinstein, Jacob) Motion of vortex lines in the Ginzburg-Landau model. (Not in MR)

Rubinstein, Jacob *see* Pismen, L. M., (Not in MR)

Tarasov, A. N. *see* Bogolyubov, N. N., Jr.; et al., 91b:82066

Yatsenko, A. A. *see* Krasil'nikov, V. V.; et al., 91c:82080

Items with secondary classifications in 82D50

Einarsson, Torbjörn Fractional statistics on a torus. 91b:81051

Jensen, H. Højgaard *see* Smith, Henrik, 91k:82057

Kondrat'ev, Aleksandr Sergeevich (with Kuchma, A. E.) ★ Лекция по теории квантовых жидкостей. (Russian) [Lectures in the theory of quantum fluids] 91k:82002

Kuchma, A. E. *see* Kondrat'ev, Aleksandr Sergeevich, 91k:82002

Orid'ko, I. A. Topological charges of gauge field configurations and order parameter configurations in heterophase systems. 91g:81085

Ristig, M. L. The structure of quantum fluids. 91b:81196

Sankovich, D. P. Infrared bounds in the theory of phase transitions. (Russian) 91a:82031

Smith, Henrik (with Jensen, H. Højgaard) ★ Transport phenomena. 91k:82057

Yang, Yisong Boundary value problems of the Ginzburg-Landau equations. 91b:35306

82D55 Superconductors

Bogolyubov, N. M. (with Korepin, V. E.) The Cooper coupling mechanism in the one-dimensional Hubbard model. (Russian) 91b:82052

Bogolyubov, N. N. A new method in the theory of superconductivity. (Russian) 91a:82076

Chen, Yang Holes in Heisenberg antiferromagnets. 91d:82044

Chen, Yi-Hong (with Wilczek, Frank; Witten, Edward; Halperin, Bertrand I.) On anyon superconductivity. 91f:82075

Chukbar, K. V. Hall effect in thin films. 91k:82068

Englman, R. (with Weger, M.) Mathematical properties of gap-functions in strongly coupled superconductors. (Not in MR)

Halperin, Bertrand I. *see* Chen, Yi-Hong; et al., 91f:82075

Itoyama, Hiroshi (with McCoy, Barry M.; Perk, Jacques H. H.) Level crossing, spontaneous parity violation, high T_c superconductivity mechanisms and the chiral Potts chain. 91d:82045

Izmailov, A. F. (with Kessel, A. R.) Exact quantum partition function of the BCS model. 91j:82051

Kazakov, A. Ya. An asymptotic analysis of the current-voltage characteristic of the Josephson junction. (Russian. English summary) (Not in MR)

Kessel, A. R. *see* Izmailov, A. F., 91j:82051

Kogan, V. G. Forces upon vortices in anisotropic superconductors. 91a:82077

Korepin, V. E. *see* Bogolyubov, N. M., 91b:82052

Leviter, L. S. Phyllotaxis of flux lattices in layered superconductors. 91m:82150

Lin, San Yih (with Yang, Yisong) Computation of superconductivity in thin films. 91g:82059

McCoy, Barry M. *see* Itoyama, Hiroshi; et al., 91d:82045

Perk, Jacques H. H. *see* Itoyama, Hiroshi; et al., 91d:82045

Sewell, Geoffrey L. Off-diagonal long-range order and the Meissner effect. (Not in MR)

Weger, M. *see* Englman, R., (Not in MR)

Wilczek, Frank *see* Chen, Yi-Hong; et al., 91f:82075

Witten, Edward *see* Chen, Yi-Hong; et al., 91f:82075

Yang, Yisong *see* Lin, San Yih, 91g:82059

Items with secondary classifications in 82D55

Affleck, Ian (with Harvey, Jeffrey A.; Palla, László; Semenoff, Gordon W.) The Chern-Simons term versus the monopole. 91d:81060

Allaga, Jorge (with Cerdeira, Hilda A.) Josephson tunneling and information theory. 91c:94010

Balachandran, A. P. (with Landi, Giovanni; Rai, Balram) A modified Chern-Simons term: chiral spin systems and anyon superconductivity. (Not in MR)

Boutet de Monvel-Berthier, Anne Sur une version à deux dimensions du modèle de Ginzburg et Landau pour la superconductivité. [On the two-dimensional version of the Ginzburg-Landau model for superconductivity] 91d:58047

Burns, Gerald (with Glazer, A. M.) ★ Space groups for solid state scientists. 91c:82071

Cerdeira, Hilda A. *see* Allaga, Jorge, 91c:94010

Chen, Yi-Ying Vortices for the Ginzburg-Landau equations—the nonsymmetric case in bounded domain. 91g:35218

Franklin, Eduardo (with Schaposnik, Fidel A.) Chern-Simons gauge theories, confinement, and the chiral spin liquid. 91j:81042

Fukuyama, Hidetoshi *see* Narikiyo, Osamu; et al., 91b:82020

Gambini, R. (with Setaro, L.) Stringlike excitations with fractional spin in 3 + 1 dimensions. 91k:81129

Glazer, A. M. *see* Burns, Gerald, 91c:82071

Gredeskul, S. A. (with Pastur, L. A.; Seba, Petr) Transmission properties of random point scatterers for waves with two-band dispersion law. 91f:82059

Gutshabash, E. S. (with Lipovskii, V. D.) A boundary value problem for a two-dimensional elliptic sine-Gordon equation and its application to the theory of the stationary Josephson effect. (Russian. English summary) 91b:35282

Harvey, Jeffrey A. *see* Affleck, Ian; et al., 91d:81060

Hloušek, Zvonimir (with Sénéchal, David; Tye, S.-H. Henry) Induced Hopf term in the nonlinear σ model. 91k:81095

Jensen, H. Højgaard *see* Smith, Henrik, 91k:82057

Kawakami, Norio (with Yang, Sung-Kil) Correlation functions in the one-dimensional t - J model. 91g:82024

Kuboki, Kazuhiro *see* Narikiyo, Osamu; et al., 91b:82020

Landi, Giovanni *see* Balachandran, A. P.; et al., (Not in MR)

Lipovskii, V. D. *see* Gutshabash, E. S., 91b:35282

Mori, Hiroyuki Fractional-statistics gas in the boson representation. 91m:82079

Narikiyo, Osamu *see* Kuboki, Kazuhiro; Fukuyama, Hidetoshi) Anyons in extended t - J model. 91k:82020

Olaussen, Kåre *see* Solle, Roger, 91m:81335

Palla, László *see* Affleck, Ian; et al., 91d:81060

Pastur, L. A. *see* Gredeskul, S. A.; et al., 91f:82059

Polyakov, A. M. Two-dimensional quantum gravity. Superconductivity at high T_c . 91k:81177

Rai, Balram *see* Balachandran, A. P.; et al., (Not in MR)

Randjbar-Daemi, S. (with Salam, Abdus; Strathdee, J. A.) Chern-Simons superconductivity at finite temperature. 91f:81104

Rieckers, Alfred On the quasiparticle- and super-current at the finite temperature Josephson junction. (see 91m:82002)

Salam, Abdus *see* Randjbar-Daemi, S.; et al., 91f:81104

Schaposnik, Fidel A. *see* Franklin, Eduardo, 91j:81042

Seba, Petr *see* Gredeskul, S. A.; et al., 91f:82059

Semenoff, Gordon W. *see* Affleck, Ian; et al., 91d:81060

Sénéchal, David *see* Hloušek, Zvonimir; et al., 91k:81095

Setaro, L. *see* Gambini, R., 91k:81129

Smith, Henrik (with Jensen, H. Højgaard) ★ Transport phenomena. 91k:82057

Solle, Roger (with Olaussen, Kåre) Fractional quantum Hall effect on the 2-sphere: a quasispin analysis. 91m:81335

Strathdee, J. A. *see* Randjbar-Daemi, S.; et al., 91f:81104

Trugman, S. A. Exact results for the $U = \infty$ Hubbard model. (Not in MR)

Tye, S.-H. Henry *see* Hloušek, Zvonimir; et al., 91k:81095

Yang, Sung-Kil *see* Kawakami, Norio, 91g:82024

Yang, Yisong Existence of the massive SO(3) vortices. 91m:81155

Zurbrugg, Ch. Periodic solutions of a pendulum-like integrodifferential equation with infinite retardation describing Josephson tunneling. (German and Russian summaries) 91k:34118

82D60 Polymers

Alexander, Francis J. (with Lebowitz, Joel L.) Driven diffusive systems with a moving obstacle: a variation on the Brazil nuts problem. 91a:82078

Alexander-Katz, Roberto (with Rodríguez Talavera, Rogelio) On a Wiener integral for an exact Kratky-Porod end to end distance. (Spanish summary) 91d:82046

Barrett, A. J. On the Domb-Joyce model for self-avoiding walks in the continuum. 91a:82079

Berger, Mitchell A. Third-order link integrals. 91f:82023

Bouchaud, Jean-Philippe (with Orland, Henri) On the Bethe ansatz for random directed polymers. (Not in MR)

Duplantier, Bertrand Two-dimensional polymers and conformal invariance. 91g:82060

Eichinger, B. E. *see* Wei, Gaoxuan, 91a:82083

Geurts, Bernard J. (with Van Damme, Ruud) Complexes of block copolymers in solution: tree approximation. 91a:82080a

— *see also* Van Damme, Ruud, 91a:82080b

Janse van Rensburg, E. J. (with Whittington, S. G.) The knot probability in lattice polygons. 91f:82076

Kholodenko, Arkady L. Fermi-Bose transmutation from semiflexible polymers to superstrings. 91k:82053

Kumar, Sanjay (with Singh, Yashwant X.) Collapse transition of linear polymers on a family of truncated n -simplex lattices. 91m:82151

Lawler, Gregory F. The Edwards model and the weakly self-avoiding walk. 91a:82081

Lebowitz, Joel L. *see* Alexander, Francis J., 91a:82078

Nechaev, S. K. Overview of polymer topology. (Not in MR)

Orland, Henri *see* Bouchaud, Jean-Philippe, (Not in MR)

Pasche, J. The one-dimensional Edwards model for long polymer chains. 91a:82082

Rodríguez Talavera, Rogelio *see* Alexander-Katz, Roberto, 91d:82046

Schäfer, Lothar On polymer solutions in the dense limit. (Not in MR)

Serra, Pablo (with Stick, Jürgen F.) Tricritical points in polymer systems. (Not in MR)

Singh, Yashwant X. *see* Kumar, Sanjay, 91m:82151

Soteros, C. E. (with Whittington, S. G.) Lattice models of branched polymers: effects of geometrical constraints. 91m:82152

Stick, Jürgen F. *see* Serra, Pablo, (Not in MR)

Van Damme, Ruud (with Geurts, Bernard J.) Complexes of block copolymers in solution: a graph-theoretical approach. 91a:82080b

— *see also* Geurts, Bernard J., 91a:82080a

Warstat, Volker A cluster property of systems of interacting polymers. 91d:82047

Wei, Gaoxuan (with Eichinger, B. E.) Evaluations of distribution functions for flexible macromolecules by the saddle-point method. 91a:82083

Whittington, S. G. *see* Janse van Rensburg, E. J., 91f:82076 and Soteros, C. E., 91m:82152

Items with secondary classifications in 82D60

- Ahmed, Elsayed Mohamed (with Hegazi, A. S.) On generalization of the Sinal theorem in the random site problem. 91d:82042
- Bolthausen, Erwin A note on the diffusion of directed polymers in a random environment. 91a:60270
- Buffet, E. (with Pulé, J. V.) On Lushnikov's model of gelation. 91f:82048
- Chorin, Alexandre Joel Constrained random walks and vortex filaments in turbulence theory. 91j:76038
- Cohen, Donald S. (with Erneux, Thomas) Changing time history in moving boundary problems. 91c:35161
- (with White, Andrew B., Jr.) Sharp fronts due to diffusion and viscoelastic relaxation in polymers. 91k:35058
- Cook, Joanna (with Derrida, Bernard) Polymers on disordered hierarchical lattices: a nonlinear combination of random variables. 91a:82040
- (with Derrida, Bernard) Directed polymers in a random medium: $1/d$ expansion and the n -tree approximation. 91b:82026
- (with Derrida, Bernard) Lyapunov exponents of large, sparse random matrices and the problem of directed polymers with complex random weights. 91k:82033
- Derrida, Bernard see Cook, Joanna, 91a:82040; 91b:82026 and 91k:82033
- Devillard, Pierre (with Stanley, H. Eugene) Exact enumeration approach to the directed polymer problem. 91f:82056
- Dominguez-Adame, F. Exact solutions of the Dirac equation with surface delta interactions. 91d:81013
- Erneux, Thomas see Cohen, Donald S., 91c:35161
- Flesia, S. see Madras, N.; et al., 91m:82123
- Gaunt, D. S. see Madras, N.; et al., 91m:82123
- Gaveau, Bernard (with Schulman, Lawrence S.) Charged polymer in an electric field. 91k:82034
- Grosberg, A. Yu. (with Khokhlov, A. R.) ★ Статистическая физика макромолекул. (Russian) [Statistical physics of macromolecules] 91f:82002
- Hattori, Kumiko (with Hattori, Tetsuya; Kusuoka, Shigeo) Self-avoiding paths on the pre-Sierpinski gasket. 91b:82022
- Hattori, Tetsuya see Hattori, Kumiko; et al., 91b:82022
- Hegazi, A. S. see Ahmed, Elsayed Mohamed, 91d:82042
- Heurich, Gert see Stepanow, Semjon, 91a:82039
- Jansson, Kalvis M. An analytical bound on the asymmetry of a section of a typical three-dimensional Brownian path. 91d:82020
- Jiang, Li Shang (with Primicerio, M.; Xie, Wei Qing) A class of diffraction problems in diffusive absorption phenomena. 91m:35101
- Khandekar, D. C. (with Wieg, Frederik W.) Path-integral treatment of entangled polymers. (see 91k:81004)
- Khokhlov, A. R. (with Ternovskii, F. F.; Zheligovskaya, E. A.) Statistics of a polymer chain in an array of obstacles. 91m:82058
- see also Grosberg, A. Yu., 91f:82002
- Kokholm, Niels Jørgen Spectral analysis of perturbed multiplication operators occurring in polymerization chemistry. 91k:47084
- Kusuoka, Shigeo see Hattori, Kumiko; et al., 91b:82022
- Madras, N. (with Soteros, C. E.; Whittington, S. G.; Martin, J. L.; Sykes, M. F.; Flesia, S.; Gaunt, D. S.) The free energy of a collapsing branched polymer. 91m:82123
- Majumdar, S. N. An ideal polymer chain in arbitrary dimensions near an attractive site. 91m:82048
- Mann, J. Adin, Jr. see Pittel, Boris; et al., 91f:60122
- Martin, J. L. see Madras, N.; et al., 91m:82123
- Masoliver, Jaume see Weiss, George H.; et al., 91b:82029
- Parisi, Giorgio A soluble model for random directed polymers in the very long range limit. (Italian summary) 91k:82036
- On the replica approach to random directed polymers in two dimensions. 91f:82029
- Pittel, Boris (with Woyczyński, Wojbor A.; Mann, J. Adin, Jr.) Random tree-type partitions as a model for acyclic polymerization: Holtsmark ($\frac{1}{2}$ -stable) distribution of the supercritical gel. 91f:60122
- (with Woyczyński, Wojbor A.) A graph-valued Markov process as rings-allowed polymerization model: subcritical behavior. 91b:82026
- Poland, Douglas On the enumeration of the end-to-end distance distribution in lattice polymers. 91f:82036
- Primicerio, M. see Jiang, Li Shang; et al., 91m:35101
- Pulé, J. V. see Buffet, E., 91f:82048
- Schulman, Lawrence S. see Gaveau, Bernard, 91k:82034
- Shuler, Kurt E. see Weiss, George H.; et al., 91b:82029
- Slemrod, M. Trend to equilibrium in the Becker-Döring cluster equations. 91c:82041
- Soteros, C. E. see Madras, N.; et al., 91m:82123
- Stanley, H. Eugene see Devillard, Pierre, 91f:82056
- Stepanow, Semjon (with Heinrich, Gert) Perkolations, Potts-Modell und Quellung von Gelen. (English and Russian summaries) [Percolation, Potts model and swelling of gels] 91a:82039
- Sykes, M. F. see Madras, N.; et al., 91m:82123
- Ternovskii, F. F. see Khokhlov, A. R.; et al., 91m:82058
- Weiss, George H. (with Masoliver, Jaume; Shuler, Kurt E.) On the asymmetry of a random walk in the presence of a field. 91b:82029
- White, Andrew B., Jr. see Cohen, Donald S., 91k:35058
- Whittington, S. G. see Madras, N.; et al., 91m:82123
- Whittle, P. The statistics of random directed graphs. 91b:60286
- Wieg, Frederik W. see Khandekar, D. C., (91k:81004)
- Woyczyński, Wojbor A. see Pittel, Boris; et al., 91f:60122 and 91b:82026
- Xie, Wei Qing see Jiang, Li Shang; et al., 91m:35101
- Zheligovskaya, E. A. see Khokhlov, A. R.; et al., 91m:82058

82D75 Nuclear reactor theory

- Bellini-Morante, Aldo (with Lauro, Giuliana) Neutron transport and heat transfer in a region with free boundaries. (Italian summary) 91k:82069

- (with Lauro, Giuliana) The kinetics equations in a multiplying medium with free boundaries. 91m:82153
- Bruna, G. B. (with Planchard, Jacques) Flux neutroniques dans un réacteur légèrement sous-critique en présence de sources. [Neutron fluxes in a slightly subcritical reactor in the presence of external sources] (Not in MR)
- Chen, Gen Shun Transport equation with delayed neutrons. 91m:82154
- Coulomb, Françoise Domain decomposition and mixed finite elements for the neutron diffusion equation. 91d:82048
- Huang, Ai Xiang (with Zhang, Bo) Convergence of nodal expansion methods for neutron diffusion eigenvalue problems. (Chinese. English summary) 91c:82082
- Kalmanbetov, M. K. see Sharshenaliev, Zh.; et al., 91b:82054
- Lauro, Giuliana see Bellini-Morante, Aldo, 91k:82069 and 91m:82153
- Planchard, Jacques see Brunna, G. B., (Not in MR)
- Rafatov, R. R. see Sharshenaliev, Zh.; et al., 91b:82054
- Sharshenaliev, Zh. (with Rafatov, R. R.; Kalmanbetov, M. K.) Optimization of the particle transport process according to the criterion of generalized work. (Russian) 91b:82054
- Smelev, V. V. Formulation of the iterative process on subdomains for transport theory problems in odd P_{N+1} -approximation. 91c:82083
- Zhang, Bo see Huang, Ai Xiang, 91c:82082

Items with secondary classifications in 82D75

- Bazhenov, M. V. (with Goryachenko, V. D.) A study of the stability of a self-coupled system with delays. (Russian) 91f:34099
- Goryachenko, V. D. see Bazhenov, M. V., 91f:34099
- Mokhtar-Kharroubi, Mustapha Effets régularisants en théorie neutronique. (English summary) [Smoothing effects in neutron transport theory] 91c:82064

82D99 None of the above, but in this section

- (Bellemans, A.) see Prigogine, Ilya, 91g:82061
- Belyanin, M. P. On the asymptotic behavior of the solution of a problem on the breakdown of a semiconductor device. 91a:82084
- Blue, James L. (with Wilson, Charles L.) Modelling gallium arsenide transistors. 91c:82084
- Cohen, E. G. D. see Pusey, P. N.; et al., 91a:82085
- Degond, Pierre (with Markowich, Peter A.) On a one-dimensional steady-state hydrodynamic model for semiconductors. 91m:82155
- Edwards, S. F. (with Oakeshott, R. B. S.) Theory of powders. 91b:82068
- see also Mehta, Anita, 91b:82071
- Elenin, G. G. (with Troshchikov, Yu. V.) Existence, uniqueness and multiplicity of solutions that correspond to the superstructure $C(2 \times 2)$ in a nonideal layer of adsorbate. (Russian. English summary) 91c:82085
- (Glazov, M. V.) see Prigogine, Ilya, 91g:82061
- (Glazov, V. M.) see Prigogine, Ilya, 91g:82061
- Golden, Kenneth M. (with Goldstein, Sheldon; Lebowitz, Joel L.) Discontinuous behavior of effective transport coefficients in quasiperiodic media. 91f:82077
- Goldstein, Sheldon see Golden, Kenneth M.; et al., 91f:82077
- Gryn', V. I. (with Kerimov, M. K.; Oviyannikov, V. A.) On coagulation models and the calculation of optical properties of aerosols. 91b:82069
- Kerimov, M. K. see Gryn', V. I.; et al., 91b:82069
- Kryuchkov, S. V. see Volkov, V. T.; et al., 91c:82086
- Lawson, William S. The Pierce diode with an external circuit. I. Oscillations about nonuniform equilibria. 91b:82070a
- The Pierce diode with an external circuit. II. Chaotic behavior. 91b:82070b
- Lebowitz, Joel L. see Golden, Kenneth M.; et al., 91f:82077
- Lekkerkerker, H. N. W. see Pusey, P. N.; et al., 91a:82085
- Markowich, Peter A. see Degond, Pierre, 91m:82155
- (Mathot, V.) see Prigogine, Ilya, 91g:82061
- Mehta, Anita (with Edwards, S. F.) Statistical mechanics of powder mixtures. 91b:82071
- Mitlin, V. S. Nonlinear theory of subsolidus transformations of solid solutions of rock-forming minerals. (Russian) 91f:82078
- Oakeshott, R. B. S. see Edwards, S. F., 91b:82068
- Obukhov, I. A. see Volkov, V. T.; et al., 91c:82086
- Odeh, F. M. see Thomann, Enrique, 91f:82080
- Oviyannikov, V. A. see Gryn', V. I.; et al., 91b:82069
- Poupaud, Frédéric Derivation of a hydrodynamic system hierarchy for semiconductors from the Boltzmann equation. 91j:82052
- Prigogine, Ilya ★ Молекулярная теория растворов. (Russian) [The molecular theory of solutions] 91g:82061
- Pusey, P. N. (with Lekkerkerker, H. N. W.; Cohen, E. G. D.; de Schepper, I. M.) Analogies between the dynamics of concentrated charged colloidal suspensions and dense atomic liquids. 91a:82085
- Rumyantsev, S. V. see Volkov, V. T.; et al., 91c:82086
- de Schepper, I. M. see Pusey, P. N.; et al., 91a:82085
- Schmeiser, Christian On strongly reverse biased semiconductor diodes. 91f:82079
- Schwendeman, Donald W. Nonlinear diffusion of impurities in semiconductors. 91m:82156
- Steinrück, Herbert Asymptotic analysis of the current-voltage curve of a $pnpn$ semiconductor device. 91a:82086
- Thomann, Enrique (with Odeh, F. M.) Remarks on the well-posedness of the hydrodynamic model for semiconductor devices. 91f:82080
- Torquato, Sal Random heterogeneous media: microstructure and improved bounds on effective properties. 91k:82070
- Troshchikov, Yu. V. see Elenin, G. G., 91c:82085
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- Volkov, V. T. (with Kryuchkov, S. V.; Obukhov, I. A.; Rumyantsev, S. V.) Numerical-asymptotic analysis of transient processes in semiconductors. 91c:82086
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- Belyanin, M. P. (with Vasil'eva, A. B.; Voronov, A. V.; Tikhonravov, A. V.) An asymptotic approach to the problem of designing a semiconductor device. (Russian) 91b:78021
- Bestehorn, M. (with Friedrich, R.; Fuchs, Armin; Haken, Hermann; Kuhn, A.; Wunderlin, A.) Synergetics applied to pattern formation and pattern recognition. 91b:58169
- Bonilla, Luis L. Solitary waves in semiconductors with finite geometry and the Gunn effect. 91m:35220
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- Coughran, W. M., Jr. (with Jerome, Joseph W.) Modular algorithms for transient semiconductor device simulation. I. Analysis of the outer iteration. 91d:65017
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83-XX Relativity and gravitational theory

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Halliwel, Jonathan J. A bibliography of papers on quantum cosmology. (Not in MR)

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83-02 Research exposition (monographs, survey articles)

Bergmann, Peter G. Problems in general relativity. (Not in MR)

Hawking, Stephen W. The arrow of time. (Russian) 91g:83002

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(Bytsenko, A. A.) see West, Peter C., 91f:81003

(DeWitt-Morette, Cécile) see Futterman, J. A. H.; et al., 91d:83081

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Logunov, A. A. ★ Lectures in relativity and gravitation. 91k:83066

Matzner, R. A. see Futterman, J. A. H.; et al., 91d:83081

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Ponomarenko, S. F. see Asanov, G. S., 91a:53097

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Sachs, Mendel ★ Quantum mechanics from general relativity. 91k:81002

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83-03 Historical (must also be assigned at least one classification number from Section 01)

Blackmore, John Ernst Mach leaves "The church of physics". 91b:83001

Hoyer, Ulrich Verallgemeinerte Gravitationstheorie. (English summary) [Generalized theory of gravitation] 91f:83001

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Mittelstaedt, Peter Die Bedeutung der kosmologischen Antinomien in der Kritik der reinen Vernunft für die moderne physikalische Kosmologie. [The importance of cosmological antinomies in the Critique of pure reason for modern physical cosmology] (see 91f:00018)

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83-04 Explicit machine computation and programs (not the theory of computation or programming)

- Bishop, N. T. (with Clarke, C. J. S.; d'Inverno, R. A.) Numerical relativity on a transputer array. 91f:83002
- Clarke, C. J. S. see Bishop, N. T.; et al., 91f:83002
- Holcomb, Katherine A. A computer code for the study of spherically-symmetric cosmological space-times. 91e:83003
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83-06 Proceedings, conferences, collections, etc.

- (Altschuler, Daniel R.) see Cosmology and elementary particles, 91h:83001
- (Bergmann, Peter G.) see Topological properties and global structure of space-time, 91k:83003
- (Céspedes, J.) see Recent developments in gravitation, 91i:83003
- (De Sabbata, Vessio) see Topological properties and global structure of space-time, 91k:83003
- (Garriga, Jaime) see Recent developments in gravitation, 91i:83003
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- Gravitation and cosmos ★ Gravitation und Kosmos. (German) [Gravitation and cosmos] 91i:83002
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- Audretsch, J. (with Lämmerzahl, C.) Establishing space-time geometry by means of light rays and particle interferometry. 91e:83008
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- Perlick, V. On redshift and parallaxes in general relativistic kinematical world models. 91g:83006
- Schutz, Bernard F. Gravitational waves. (see 91i:83003)
- Sivaram, C. *see* De Sabbata, Venzo, 91b:83006
- Items with secondary classifications in 83B05
- Calanelli, Eduardo R. (with Gasperini, M.; Scarpetta, G.) Phenomenological consequences of a geometric model with limited proper acceleration. (Italian and Russian summaries) 91g:83053
- Choudhry, R. K. *see* Kedia, Lalita, 91k:70007
- De Sabbata, Venzo (with Gasperini, M.) Gravitation without Lorentz invariance. (see 91e:83003)
- Gaifsov, D. V. (with Masar, E.) Motion of bodies in Schwarzschild space-time with conical singularities. 91h:83012
- Gasperini, M. *see* Calanelli, Eduardo R.; et al., 91g:83053 and De Sabbata, Venzo, 91e:83003
- Kedia, Lalita (with Choudhry, R. K.) On the libration points in relativistic elliptic restricted problem of three bodies. 91k:70007
- Masar, E. *see* Gaifsov, D. V., 91h:83012
- Nelson, Robert A. Post-Newtonian approximation for an accelerated, rotating frame of reference. 91g:83023

- Perlick, V. *see* Rindler, W., 91e:83018; (Not in MR) and (Not in MR)
- Rindler, W. (with Perlick, V.) Rotating coordinates as tools for calculating circular geodesics and gyroscopic precession. 91e:83018
- (with Perlick, V.) Erratum: "Rotating coordinates as tools for calculating circular geodesics and gyroscopic precession" [Gen. Relativity Gravitation 22 (1990), no. 9, 1067–1081]. (Not in MR)
- (with Perlick, V.) Erratum: "Rotating coordinates as tools for calculating circular geodesics and gyroscopic precession" [Gen. Relativity Gravitation 22 (1990), no. 9, 1067–1081; MR 91e:83018]. (Not in MR)
- Scarpetta, G. *see* Calanelli, Eduardo R.; et al., 91g:83053

83Cxx General relativity

83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)

- Bengtsson, Ingemar. A new phase for general relativity? 91k:83007
- (with Peldán, Peter) Ashtekar's variables, the δ -term, and the cosmological constant. 91g:83007
- Bhui, B. *see* Chatterjee, Sujit, (Not in MR)
- Bombelli, Luca (with Torrence, R. J.) Perfect fluids and Ashtekar variables, with applications to Kantowski-Sachs models. 91h:83006
- Bonanos, S. The vacuum Einstein equations as closed ideals of matrix-valued differential forms. 91h:83008
- Cagnac, F. (with Noutchegueme, N.) Semi-global solutions of Einstein equations, Minkowskian near past infinity. 91e:83010
- Capovilla, Riccardo (with Dell, John; Jacobson, Ted) A pure spin-connection formulation of gravity. 91m:83005
- Chatterjee, Sujit (with Bhui, B.) Homogeneous cosmological model in higher dimension. (Not in MR)
- Chrusiński, Piotr T. On space-times with $U(1) \times U(1)$ symmetric compact Cauchy surfaces. 91h:83007
- Culep, H. The special conformal transformation and Einstein's equations. (Italian and Russian summaries) 91e:83011
- Dadhich, Naresh (with Koshti, Sucheta; Kahrsagar, Abhijit) On constraints of pure-connection formulation of general relativity for nonzero cosmological constant. 91m:83006
- Damour, Thibault (with Schmidt, Bernd Gerhard) Reliability of perturbation theory in general relativity. 91m:83007
- Dell, John *see* Capovilla, Riccardo; et al., 91m:83005
- Ferrasse, Giorgio. Intrinsic formulation of the Cauchy problem in general relativity. 91e:83012
- Floranini, Roberto (with Percacci, R.) Canonical algebra of $GL(4)$ -invariant gravity. 91e:83013
- (with Percacci, R.) Palatini formalism and new canonical variables for $GL(4)$ -invariant gravity. 91h:83008
- Fuchs, Helmut. Ein Hamilton-Prinzip für Probekörper mit innerer Struktur. (English summary) [A Hamilton principle for test particles with internal structure] (see 91f:83002)
- Fujitara, Yoshihisa (with Soda, Jiro) Teichmüller motion of $(2+1)$ -dimensional gravity with the cosmological constant. 91h:83009
- Fukuyama, Takeshi *see* Kamimura, Kiyoshi, 91c:83001
- Gaffet, B. On Einstein's equations with two commuting Killing vectors. 91e:83004
- Giulini, Domenico. Interaction energies for three-dimensional wormholes. 91g:83008
- Husain, Viqar (with Kuchař, Karel V.) General covariance, new variables, and dynamics without dynamics. 91i:83005
- Isenberg, James A. (with Moncrief, Vincent) Asymptotic behavior of the gravitational field and the nature of singularities in Gowdy spacetimes. 91d:83007
- Jacobson, Ted *see* Capovilla, Riccardo; et al., 91m:83005
- Jantzen, Robert T. *see* Rosquist, Kjell; et al., 91e:83015a and 91e:83015b
- Jezierski, Jacek (with Kijowski, Jerzy) The localization of energy in gauge field theories and in linear gravitation. 91h:83006
- Kamimura, Kiyoshi (with Fukuyama, Takeshi) Ashtekar's formalism in first-order tetrad form. 91c:83001
- Kijowski, Jerzy *see* Jezierski, Jacek, 91h:83006
- Koc, Piotr *see* Malec, Edward, 91h:83011
- Kodama, Hideo *see* Seriu, Masafumi, 91h:83007
- Koshti, Sucheta *see* Dadhich, Naresh; et al., 91m:83006
- Kahrsagar, Abhijit *see* Dadhich, Naresh; et al., 91m:83006
- Kuchař, Karel V. *see* Husain, Viqar, 91i:83005
- Laserra, E. A particular property of the Einstein equations. (Italian. English summary) 91e:83014
- Liebscher, Dierck-Ekkehard. Relativistische Feldtheorie und metrische Raumstruktur. (English summary) [Relativistic field theory and metric space structures] (see 91i:83002)
- Linet, Bernard. Le problème de Cauchy pour les équations de la gravitation topologiquement massive. (English summary) [The Cauchy problem for the equations of topologically massive gravitation] 91d:83008
- Malec, Edward (with Koc, Piotr) Trapped surfaces in monopole-like Cauchy data of Einstein-Yang-Mills-Higgs equations. 91h:83011
- Manojlovic, N. Alternative loop variables for canonical gravity. 91f:83005
- Erratum: "Alternative loop variables for canonical gravity" [Classical Quantum Gravity 7 (1990), no. 9, 1633–1645; MR 91f:83005]. 91m:83008
- Moncrief, Vincent *see* Isenberg, James A., 91d:83007
- Neugebauer, Gernot. Minimal surface approach to static gravitational fields in general relativity. (German summary) 91h:83007
- Noutchegueme, N. *see* Cagnac, F., 91e:83010
- Ove, Roger. Properties of a model Einstein equation. 91e:83006
- Peldán, Peter. Gravity coupled to matter without the metric. 91j:83001
- *see also* Bengtsson, Ingemar, 91g:83007

- Percacci, R. *see* Floreani, Roberto, 91e:83013 and 91h:83008
- Rendall, Alan D. Convergent and divergent perturbation series and the post-Minkowskian approximation scheme. 91d:83009
- Reduction of the characteristic initial value problem to the Cauchy problem and its applications to the Einstein equations. 91a:83004
- Robinson, D. C. (with Soteriou, C.) Ashtekar's new variables and the vacuum constraint equations. 91e:83008
- Rosquist, Kjell (with Ugaglia, Claes; Jantzen, Robert T.) Extended dynamics and symmetries in vacuum Bianchi cosmologies. 91e:83015a
- (with Ugaglia, Claes; Jantzen, Robert T.) Extended dynamics and symmetries in perfect fluid Bianchi cosmologies. 91e:83015b
- Rosoy, Luc À propos de la conjecture de la balle liquide en relativité générale. [On the liquid-sphere conjecture in general relativity] 91d:83010
- Schmidt, Bernd Gerhard *see* Damour, Thibault, 91m:83007
- Seria, Masafumi (with Kodama, Hideo) New canonical formulation of the Einstein theory. 91h:83007
- Shen, You Gen (with Tan, Zhen Qiang) Wormhole in the Einstein-Yang-Mills theory. 91h:83009
- Soda, Jiro Linearized analysis of $(2+1)$ -dimensional Einstein-Maxwell theory. 91h:83010
- *see also* Fujiwara, Yoshihisa, 91h:83009
- Soteriou, C. *see* Robinson, D. C., 91e:83008
- Tan, Zhen Qiang *see* Shen, You Gen, 91h:83009
- Tod, K. P. Isotropic singularities and the $\gamma = 2$ equation of state. 91h:83008
- Torrence, R. J. *see* Bombelli, Luca, 91h:83006
- Ugaglia, Claes *see* Rosquist, Kjell; et al., 91e:83015a and 91e:83015b
- Waelbroeck, Henri Do universes with parallel cosmic strings or two-dimensional wormholes have closed timelike curves? 91j:83002
- Wallner, R. P. New variables in gravity theories. 91e:83007
- Wütsch, Volkmar Cauchy's problem and Huygens' principle for the linearized Einstein field equations. 91g:83009
- Items with secondary classifications in 83C05
- Andersson, Lars Åke On the space of asymptotically flat solutions of Einstein's equations. 91d:83031
- Ashtekar, Abhay (with Romano, Joseph D.; Tate, Ranjeet S.) New variables for gravity: inclusion of matter. 91d:83091
- Bengtsson, Ingemar Self-dual Yang-Mills fields and Ashtekar's variables. 91j:81040
- Bishop, N. T. (with Clarke, C. J. S.; d'Inverno, R. A.) Numerical relativity on a transputer array. 91f:83002
- Capovilla, Riccardo (with Jacobson, Ted; Dell, John) General relativity without the metric. 91e:83072
- Carfora, M. *see* Isenberg, James A.; et al., 91g:58276
- Christodoulou, D. (with Klainerman, S.) Asymptotic properties of linear field equations in Minkowski space. 91a:58202
- Clarke, C. J. S. *see* Bishop, N. T.; et al., 91f:83002
- Crupi, Giovanni General remarks on the relative formulation of electrodynamics in general relativity. (Italian) 91h:3063
- Dell, John *see* Capovilla, Riccardo; et al., 91e:83072
- Dolan, B. P. On the generating function for Ashtekar's canonical transformation. 91e:83031
- Ershov, A. A. (with Galtsov, D. V.) Nonexistence of regular monopoles and dyons in the $SU(2)$ Einstein-Yang-Mills theory. 91h:81094
- Fackerell, Edward D. (with Kersten, Paul H. M.) Vacuum Einstein fields with a single nonnull Killing vector. 91h:83026
- Fraudenzi, Jörg Geometric description of energy-momentum pseudotensors. 91e:83073
- Galtsov, D. V. *see* Ershov, A. A., 91h:81094
- Górnica, Agnieszka *see* Kijowski, Jerzy; et al., 91h:83064
- Harrison, B. Kent Search for prolongation structure for Einstein vacuum equations with one Killing vector. 91h:83027
- d'Inverno, R. A. *see* Bishop, N. T.; et al., 91f:83002
- Isenberg, James A. (with Carfora, M.; Jackson, Martin) On the smoothing of cosmological spacetimes and Ricci flow. 91g:58276
- Jackson, Martin *see* Isenberg, James A.; et al., 91g:58276
- Jacobson, Ted *see* Capovilla, Riccardo; et al., 91e:83072
- Kersten, Paul H. M. *see* Fackerell, Edward D., 91h:83026
- Kijowski, Jerzy (with Smólski, Adam; Górnica, Agnieszka) Hamiltonian theory of self-gravitating perfect fluid and a method of effective deparametrization of Einstein's theory of gravitation. 91h:83064
- Klainerman, S. *see* Christodoulou, D., 91a:58202
- Korotki, D. A. Finite gap solutions of $SU(1, 1)$ and $SU(2)$ duality equations and their axially symmetric stationary reductions. (Russian) 91m:81144a
- Erratum: "Finite gap solutions of $SU(1, 1)$ and $SU(2)$ duality equations and their axially symmetric stationary reductions" [Mat. Sb. 181 (1990), no. 7, 923–933]. (Russian) 91m:81144b
- Lake, Kayll Some notes on the propagation of discontinuities in solutions to the Einstein equations. 91a:83017
- Lewandowski, Jerzy (with Nurowski, Paweł; Tafel, Jacek) Einstein's equations and realizability of CR manifolds. 91j:32021
- Mates, Tomatuh Chiral equations in theories of gravitation. (Spanish. English summary) 91e:83034
- Meccrief, Vincent Reduction of the Einstein equations in $2+1$ dimensions to a Hamiltonian system over Teichmüller space. 91d:58032
- Müller zum Hagen, H. Characteristic initial value problem for hyperbolic systems of second order differential equations. (French summary) 91m:58155
- Nester, James M. Positive energy via the teleparallel Hamiltonian. 91h:83043
- Nurowski, Paweł *see* Lewandowski, Jerzy; et al., 91j:32021
- Parnowski, S. L. A general solution of gravitational equations near their singularities. 91a:83053
- Romano, Joseph D. *see* Ashtekar, Abhay; et al., 91d:83091
- Shahid-Saleh, Bahman Palatini variation of curvature-squared action and gravitational collapse. 91h:83068

- Smólski, Adam *see* Kijowski, Jerzy; et al., 91h:83064
- Tafel, Jacek *see* Lewandowski, Jerzy; et al., 91j:32021
- Tate, Ranjeet S. *see* Ashtekar, Abhay; et al., 91d:83091
- Wojtkiewicz, Jacek Naked singularities in initial surfaces. 91e:83029

83C10 Equations of motion

- Abd Eltwab, Y. A. A charged particle in the Gödel universe unified by a magnetic field. 91m:83009
- Abdussattar *see* Singh, Kamala P., 91a:83005
- Bagrov, V. G. (with Obukhov, V. V.) Separation of variables for the Klein-Gordon equation in special Stäckel spacetimes. 91h:83009
- Bakhar'kov, A. A. (with Ryabushko, A. P.) The influence of supplementary conditions for Papapetrou equations on the Lyapunov stability of motion. (German summary) 91h:83010
- Bandyopadhyay, G. Equations of motion in the general theory of relativity. (Not in MR)
- Becia, M. I. (with Corciovei, A.) The motion of thin planar walls in a gravitational field. 91d:83011
- Calvão, M. O. (with Soares, I. Damiao; Tiomno, J.) Geodesics in Gödel-type space-times. 91e:83016
- Carciolov, A. *see* Becia, M. I., 91d:83011
- Cordani, B. (with Fehér, L. Gy.; Horváthy, Peter A.) Kepler-type dynamical symmetries of long-range monopole interactions. 91d:83012
- Fehér, L. Gy. *see* Cordani, B.; et al., 91d:83012
- de Felice, Fernando Potential surfaces for time-like geodesics in the Curzon metric. 91j:83003
- Fuchs, Helmut Paralleltransport and geodesic deviation in static spherically symmetric space-times. 91e:83017
- Galtsov, D. V. (with Masar, E.) Motion of bodies in Schwarzschild space-time with conical singularities. 91h:83012
- Horváthy, Peter A. *see* Cordani, B.; et al., 91d:83012
- Ilier, B. Z. ★ On the first order deviation equations and some quantities connected with them. 91m:83010
- Ishizuka, Toshihisa *see* Takahashi, Masaaki; et al., 91h:83009
- Kasai, Masumi *see* Tazawa, Kengo, 91h:83010
- Lotze, Karl-Helmut Exact solutions of the Dirac equation in Robertson-Walker flat universes. 91h:83013
- Marmo, G. (with Rubano, C.; Thompson, Gerard) When does the motion of test particles determine the metric tensor? 91j:83004
- Masar, E. *see* Galtsov, D. V., 91h:83012
- Mitskevich, N. V. Dragging phenomenon and the space-time symmetry. 91d:83013
- Miodziński, M. S. Exact solution of the equations of null geodesic deviation in Schwarzschild space-time. 91e:83002
- Obukhov, V. V. *see* Bagrov, V. G., 91h:83009
- Perlick, V. Light propagation in conformally stationary space-times and applications to gravitational lens theory. 91d:83014
- *see also* Rindler, W., 91e:83018; (Not in MR) and (Not in MR)
- Qiang, Wen Chao Timelike geodesic motions in space-time outside a nonrotating uncharged sphere in vector graviton field theory. (Chinese. English summary) (Not in MR)
- Null geodesic motion in space-time outside a nonrotating uncharged sphere in the theory of vector graviton fields. (Chinese. English summary) (Not in MR)
- Rindler, W. (with Perlick, V.) Rotating coordinates as tools for calculating circular geodesics and gyroscopic precession. 91e:83018
- (with Perlick, V.) Erratum: "Rotating coordinates as tools for calculating circular geodesics and gyroscopic precession" [Gen. Relativity Gravitation 22 (1990), no. 9, 1067–1081]. (Not in MR)
- (with Perlick, V.) Erratum: "Rotating coordinates as tools for calculating circular geodesics and gyroscopic precession" [Gen. Relativity Gravitation 22 (1990), no. 9, 1067–1081; MR 91k:83018]. (Not in MR)
- Rubano, C. *see* Marmo, G.; et al., 91j:83004
- Ryabushko, A. P. *see* Bakhar'kov, A. A., 91h:83010
- Shahid-Saleh, Bahman Local gravitomagnetism. 91e:83008
- Shishkin, G. V. Some exact solutions of the Dirac equation in gravitational fields. 91j:83005
- Singh, Kamala P. (with Abdussattar) Motion of a charged particle in Reissner-Nordström field. 91a:83005
- Soares, I. Damiao *see* Calvão, M. O.; et al., 91e:83016
- Song, De Ming The dependence of a body's acceleration on its velocity in a Schwarzschild field. (Chinese. English summary) (Not in MR)
- Takahashi, Masaaki (with Ishizuka, Toshihisa; Yokosawa, Masayoshi) Geodesics of sound waves and their wave fronts in curved space-time. 91k:83009
- Tazawa, Kengo (with Kasai, Masumi) On the motion of test particles around a Kerr black hole. 91k:83010
- Thompson, Gerard *see* Marmo, G.; et al., 91j:83004
- Tiomno, J. *see* Calvão, M. O.; et al., 91e:83016
- Virbhadra, K. S. Speed of a freely falling particle in Reissner-Nordström spacetime. (Not in MR)
- Yokosawa, Masayoshi *see* Takahashi, Masaaki; et al., 91h:83009
- Items with secondary classifications in 83C10
- Alt Moussa, Karim (with Clément, Gérard) Geodesic motion and scattering in the field of a Kaluza-Klein dyon. 91m:83078
- Barraco, D. (with Kozameh, Carlos N.; Newman, Ezra T.; Tod, K. P.) Geodesic deviation and Minikowski space. 91e:53071
- Borghani, P. *see* Krori, K. D.; et al., 91a:81150
- Chen, Fang Pei General equations of motion of test particles in space-time with torsion. 91f:83055
- Clément, Gérard *see* Alt Moussa, Karim, 91m:83078
- Coleman, Robert Alan (with Korte, Herbert) Harmonic analysis of directing fields. 91e:83078

- Dadhich, Nareesh. *see* Wagh, Sanjay M., 91d:83089
- Das, Dipali. *see* Krori, K. D.; et al., 91a:81150
- de Felice, Fernando. On the circular motion in general relativity: energy threshold and gravitational strength. (Italian summary) 91d:83019
- Hayashi, Kenji (with Shirafuji, Takeshi). Static, isotropic spacetime in new general relativity. 91g:83044
- Islam, Jamal Nazrul (with Islam, Md. Nurul). On the Einstein-Maxwell equations admitting a null Killing vector. (Bengali summary) 91c:83009
- Islam, Md. Nurul. *see* Islam, Jamal Nazrul, 91c:83009
- Kar, P. *see* Krori, K. D.; et al., 91a:81150
- Korte, Herbert. *see* Coleman, Robert Alan, 91f:53078
- Kozameh, Carlos N. *see* Barraco, D.; et al., 91f:53071
- Krori, K. D. (with Sarmah, J. C.). A magnetized object in Kaluza-Klein theory. (French summary) 91c:83083
- (with Borgohain, P.; Kar, P.; Das, Dipali). Spinor solution in a Kasner universe. 91a:81150
- Mohanty, Ganeshwar. *see* Pattanai, R. R., 91j:83013
- Newman, Ezra T. *see* Barraco, D.; et al., 91f:53071
- Pattanai, R. R. (with Mohanty, Ganeshwar). An analogue of de Sitter universe. 91j:83013
- Perceco, U. *see* Villalba, Victor M., 91f:83022
- Petrov, Aleksandr Nikolaevich. New harmonic coordinates for the Schwarzschild geometry. 91j:83014
- Piazzese, F. (with Rizzi, G.). Self-interaction of a point charge in a Kerr spacetime. 91m:83050
- Rizzi, G. *see* Piazzese, F., 91m:83050
- Sakina, Ken-ichi. The motion of a gyroscope freely falling into a Schwarzschild black hole. 91j:83050
- Sarmah, J. C. *see* Krori, K. D., 91a:83083
- Schlicker, Thomas. The gravitational cross section of massless particles. 91a:83047
- Shirafuji, Takeshi. *see* Hayashi, Kenji, 91g:83044
- Tod, K. P. *see* Barraco, D.; et al., 91f:53071
- Villalba, Victor M. (with Perceco, U.). Separation of variables and exact solution to Dirac and Weyl equations in Robertson-Walker space-times. 91f:83022
- Wagh, Sanjay M. (with Dadhich, Nareesh). The energetics of black holes in electromagnetic fields by the Penrose process. 91d:83089

83C15 Exact solutions

- Abdussattar (with Quraishi, Rehana). L. R. S. Bianchi type I universes filled with electromagnetic radiation and some collineation properties. (Hindi. English summary) (Not in MR)
- Aguirregabiria, J. M. (with Chamorro, A.; Etxebarria, J. R.; Rivas, Martín). Embedding of a Demiański cavity with small rotation parameter in a perturbation of a Friedmann universe with cosmological constant. 91g:83010
- Aliev, A. N. (with Galtsov, D. V.). Exact solutions for magnetized black holes. 91b:83011
- Arianrhod, R. *see* McIntosh, C. B. G., 91f:83019
- Arnaiz, J. V. *see* Sáez, D., (91i:83003)
- Azad, Md. Abul Kalam. Explicit form of the metric and the number density of a member of Winicour's class of solutions in general relativity. (Bengali summary) 91a:83006
- Balbinot, Roberto (with Poisson, Eric). Stability of the Schwarzschild-de Sitter model. 91d:83015
- Ball, Raj (with Tyagi, Atul). A plane-symmetric inhomogeneous cosmological model of perfect fluid distribution with electromagnetic field. 91b:83010
- Banerjee, Asit Kumar (with Dutta Choudhury, S. B.). Viscous fluid universe with cosmological constant. 91b:83012
- *see also* Chatterjee, Sujit; et al., 91b:83014
- Banerjee, Shyamal Kumar. *see* Roy, S. R., 91d:83027
- Basu, Ashis (with Ganguly, Susmita; Ray, Dipankar). Perfect fluid in a static isotropic universe. 91c:83019
- Beesham, Aroonkumar. *see* Maharaj, S. D.; et al., 91c:83003
- Bernas, Marcelo Samuel. Inhomogeneous inflation with spinning fluid. (Not in MR)
- Kantowski-Sachs cosmological models with constant deceleration parameter. (Not in MR)
- *see also* Som, M. M., 91b:83024
- Bhambra, K. S. *see* Singh, Kojam Manihar, (Not in MR)
- Bhattacharjee, R. *see* Krori, K. D., 91a:83016
- Bhui, B. *see* Chatterjee, Sujit; et al., 91b:83014
- Blechl, T. (with Das, Anadijiban). On exact-shearing perfect-fluid solutions of the nonstatic spherically symmetric Einstein field equations. (French summary) 91k:83011
- Bokhari, Ashfaq H. (with Pervaz, Amjad; Mughal, Muhammad A.). Nonstatic axisymmetric universe model and its evolution. (Not in MR)
- Bona García, Carlos (with Coll, Bartolomé). Invariant conformal vectors in static spacetimes. 91m:83011
- Bonner, W. B. The C-metric in Bondi's coordinates. 91k:83012
- The physical interpretation of a certain static vacuum space-time. (Not in MR)
- Borgohain, P. *see* Krori, K. D.; et al., 91a:83017
- Boyd, Patricia T. (with Centrella, Joan M.; Klasky, Scott A.). Properties of gravitational "solitons". 91m:83012
- Bretón Baez, Nora. *see* García Díaz, Alberto, 91b:83015
- Carmeli, M. (with Manor, Ran). Nonvacuum Taub-type cosmological model. 91j:83006
- Carr, Bernard J. (with Yahil, A.). Self-similar perturbations of a Friedmann universe. 91f:83009
- Castellón-Amendó, José (with Man'ko, V. S.). On a stationary rotating mass with an arbitrary multipole structure. 91c:83021
- (with Man'ko, V. S.). Superposition of the Kerr metric with the generalized Erez-Rosen solution. 91c:83020
- Centrella, Joan M. *see* Boyd, Patricia T.; et al., 91m:83012
- Chamorro, A. A Kerr inhomogeneity with a small rotation parameter in Friedmann universes. 91f:83010
- *see also* Aguirregabiria, J. M.; et al., 91g:83010
- Chatterjee, Sujit (with Bhui, B.; Banerjee, Asit Kumar). Higher-dimensional Vaidya metric with an electromagnetic field. 91b:83014
- Chaudhury, Tarakeswar. *see* Krori, K. D.; et al., 91a:83015
- Chimento, Luis P. (with Pensa, Fabián G.). Exact Bianchi type-(I, V) solutions of the Einstein equations with scalar and spinor fields. 91f:83011
- Chinea, F. J. (with González-Romero, L. M.). Interior gravitational field of a stationary, axially symmetric perfect fluid in irrotational motion. 91d:83016
- Christodoulakis, Th. (with Grammenos, Th.; Kolassis, Ch.). On the radiative Kerr metric. 91b:83011
- Clément, Gérard. Rotating string sources in three-dimensional gravity. 91f:83012
- Coll, Bartolomé. *see* Bona García, Carlos, 91m:83011
- Curry, Charles (with Lake, Kayll). Vacuum solutions of Einstein's equations in double-null coordinates. 91m:83013
- Dagotto, Andrés D. (with Gleiser, Reinaldo J.; González, Gabriela; Pullin, Jorge A.). Nonstationary one-soliton solutions of the vacuum Einstein equations with Alekseev's inverse scattering technique. 91d:83017
- Das, Anadijiban. *see* Blechl, T., 91k:83011
- Das, Kanika. *see* Krori, K. D.; et al., 91a:83017
- Davidson, W. A solution for a family of perfect fluid cylinders in general relativity. 91b:83018
- Internal and external metrics for a perfect fluid cylinder in general relativity. 91g:83011
- Deng, Yaobing (with Mannheim, Philip D.). Shear-free spherically symmetric inhomogeneous cosmological model with heat flow and bulk viscosity. 91c:83022
- Dray, Tevian. Bouncing shells. 91f:83013
- Dunn, Ken A. An orthogonal form of the Schwarzschild metric. 91c:83023
- Dutta Choudhury, S. B. *see* Banerjee, Asit Kumar, 91b:83012
- Ellis, George F. R. (with Matravers, D. R.). A note on the evolution of anisotropy in a Robertson-Walker cosmology. 91j:83007
- (with Madsen, Mark S.). Exact scalar field cosmologies. 91m:83014
- Ershov, A. A. *see* Galtsov, D. V., 91a:83009
- Etxebarria, J. R. *see* Aguirregabiria, J. M.; et al., 91g:83010
- Fan, Li (with Liang, Can Bin). A conformally spherically [plane] symmetric electro-vacuum solution must be the Reissner-Nordström [Kerr] gauge. (Chinese. English summary) 91a:83007
- Fayos, F. (with Ferrando, Joan Josep; Jaén, X.). Electromagnetic and gravitational perturbation of type D space-times. 91b:83013
- de Felice, Fernando. Repulsive gravity: a current state of understanding. 91k:83013
- On the circular motion in general relativity: energy threshold and gravitational strength. (Italian summary) 91d:83019
- Ferrando, Joan Josep. *see* Fayos, F.; et al., 91b:83013
- Ferrari, Valeria (with Pendenza, Paolo). Boosting the Kerr metric. 91j:83008
- Frolov, V. P. (with Markov, M. A.; Mukhanov, V. F.). Black holes as possible sources of closed and semiclosed worlds. 91a:83008
- (with Garfinkle, David). Interaction of cosmic strings with gravitational waves. 91j:83009
- Gaete, Patricio (with Hojman, Roberto). General exact solution for homogeneous time-dependent self-gravitating perfect fluids. 91b:83014
- Gafoir, N. Violeta (with López Bonilla, José Luis; Morales, Jesús; Navarrete G., David; Ovando Zúñiga, Gerardo). Spin tensor for the Kerr metric. (Spanish. English summary) 91j:83010
- Galtsov, D. V. (with Ershov, A. A.). An exact solution of Teukolsky and Klein-Gordon radial equations in a class of vacuum metrics of type D. 91a:83009
- *see also* Aliev, A. N., 91b:83011
- Ganguly, Susmita. *see* Basu, Ashis; et al., 91c:83019
- García Díaz, Alberto (with Bretón Baez, Nora). Magnetic generalizations of the Carter metrics. 91b:83015
- Type D divergenceless charged perfect fluid solutions. 91f:83014
- (with Mitskevich, N. V.). On polarization properties of strong Einstein-Maxwell waves. (Not in MR)
- Stationary axisymmetric interior metric for a charged perfect fluid source. 91k:83014
- Garfinkle, David. Traveling waves in strongly gravitating cosmic strings. 91a:83010
- (with Vuille, Chris). Gravitational collapse with a cosmological constant. 91m:83015
- *see also* Frolov, V. P., 91j:83009
- Glass, E. N. A spherical collapse solution with neutrino outflow. 91g:83012
- Gleiser, Reinaldo J. *see* Dagotto, Andrés D.; et al., 91d:83017
- González, Gabriela. *see* Dagotto, Andrés D.; et al., 91d:83017
- González-Romero, L. M. *see* Chinea, F. J., 91d:83016
- Gott, J. Richard, III. Closed timelike curves produced by pairs of moving cosmic strings: exact solutions. 91k:83015
- Grammenos, Th. *see* Christodoulakis, Th.; et al., 91b:83011
- Grøn, Øyvind. Viscous inflationary universe models. 91b:83012
- Gunzig, Edgar. *see* Van den Bergh, Norbert; et al., 91g:83014
- Gutsunav, Ts. I. (with Man'ko, V. S.). On a stationary generalisation of the Schwarzschild solution. 91d:83020
- Haggag, Salah. A static axisymmetric anisotropic fluid solution in general relativity. (Not in MR)
- A fluid source for the Kerr metric. 91a:83011
- (with Hajj-Boutros, Joseph). New stiff matter solutions are really not stiff. Correction to: "New stiff matter solutions to Einstein equations" [Internat. J. Theoret. Phys. 28 (1989), no. 1, 105-110; MR 90c:83016] by Hajj-Boutros. 91m:83016
- *see also* Hajj-Boutros, Joseph, 91f:83013
- Hajj-Boutros, Joseph (with Haggag, Salah). Cosmological models with dynamic equations of state. (Arabic summary) 91b:83013
- *see also* Haggag, Salah, 91m:83016
- Harriott, Tina A. (with Williams, Jeffrey George). Imperfect fluid solution for a kinked metric. 91b:83016
- Harvey, Alex. Will the real Kasner metric please stand up. 91k:83016
- Hoenselaers, C. (with Perjés, Zoltán). Factor structure of rational vacuum metrics. 91m:83017
- Hogan, P. A. McVittie's mass particle in an expanding universe and related solutions of Einstein's equations. 91c:83024

- Hojman, Roberto *see* Gaete, Patricio, 91b:83014
- Horsky, Jan (with Mitskevich, N. V.) Killing vectors of vacuum space times and electromagnetic four potentials. 91a:83012
- (with Mitskevich, N. V.) Generalised Kramer's metric. 91a:83025
- Islam, Md. Nurul (with Shahabuddin, Md.) Approximate solutions of Ernst form of Einstein equations. 91a:83013
- Jain, X. *see* Fayos, F.; et al., 91b:83013
- John, Reiner W. Zur Weltfunktion der Reißner-Weyl-Metrik bei verschwindendem Massenparameter. (English summary) [On the world function of the Reißner-Weyl metric for vanishing mass parameter] (*see* 91b:83002)
- Kalnina, E. G. (with Miller, Willard, Jr.) Complete sets of functions for perturbations of Robertson-Walker cosmologies and spin 1 equations in Robertson-Walker-type spacetimes. 91b:83017
- Katz, Joseph *see* Lynden-Bell, Donald, 91j:83011
- Kerr, R. P. A general theorem on gravitational metrics in prolate spheroidal coordinates. 91a:83014
- (with Wilson, W. B.) A simplified representation of stationary axially symmetric metrics. 91a:83026
- Khakimov, Sh. A. *see* Mar'ka, V. S., 91m:83019
- Klasky, Scott A. *see* Boyd, Patricia T.; et al., 91m:83012
- Kolassis, Ch. *see* Christodoulakis, Th.; et al., 91b:83011
- Koppar, Sharda S. (with Patel, L. K.) A rotating Bianchi type II viscous fluid cosmological model with heat flux. (Not in MR)
- Kramer, Dietrich On a special case of differential rotation. 91f:83015
- Kruti, K. D. (with Borgohain, P.; Das, Kanika) A new form of Reissner-Nordström metric. 91b:83017
- (with Chaudhury, Tarakeswar; Mahanta, Chandra Rekha; Mazumdar, Ajanta) Some exact solutions in string cosmology. 91a:83015
- (with Bhattacharjee, R.) A Kerr object embedded in a gravitational field. II. 91a:83016
- Künzle, H. P. (with Masood-ul-Alam, A. K. M.) Spherically symmetric static SU(2) Einstein-Yang-Mills fields. 91b:83015
- Ladino Luna, Delfino (with López Bonilla, José Luis) Spacetime of class one. (Spanish. English summary) 91d:83021
- Lake, Kayll Some notes on the propagation of discontinuities in solutions to the Einstein equations. 91a:83017
- *see also* Curry, Charles, 91m:83013
- Leach, P. G. L. *see* Maharaj, S. D.; et al., 91m:83018
- Leko, M. D. The Einstein tensor of the Kepler-type space-time. (Not in MR)
- One more general Kepler-type metrics of the space-time. (Not in MR)
- Letelier, Patricio S. On solution solutions to the vacuum Einstein equations obtained from a general seed solution. 91a:83018
- Multiple cosmic walls. 91f:83016
- Liang, Can Bin *see* Fan, Li, 91a:83007
- López Bonilla, José Luis *see* Ladino Luna, Delfino, 91d:83021 and Gafai N., Violeta; et al., 91b:83010
- López Lacasta, Carlos Geometry of rotating charged bubbles in general relativity. 91d:83022
- Lynden-Bell, Donald (with Katz, Joseph) Geometric extension through Schwarzschild $r = 0$. 91j:83011
- Maartens, R. *see* Maharaj, S. D.; et al., 91c:83003 and 91m:83018
- MacCallum, Malcolm A. H. On "generalized Kasner" metrics and the solutions of Harris and Zund. 91b:83018
- Madsen, Mark S. *see* Ellis, George F. R., 91m:83014
- Mahanta, Chandra Rekha *see* Kruti, K. D.; et al., 91a:83015
- Maharaj, S. D. (with Maartens, R.; Beesham, Aroonkumar) Massless scalar field in Robertson-Walker space-time. 91c:83003
- (with Leach, P. G. L.; Maartens, R.) Shear-free spherically symmetric solutions with conformal symmetry. 91m:83018
- Maheswara Rao, Velagapudi Uma *see* Shanthi, K.; et al., (Not in MR)
- Mal'tsev, V. K. The principle of the existence of space and the de Sitter metric. 91b:83019
- Maniharisingh, Koljam Rotating charged perfect-fluid universes coupled with scalar field in general relativity. 91f:83017
- Mar'ka, V. S. On the description of the external field of a static deformed mass. 91d:83023
- (with Khakimov, Sh. A.) General static axisymmetric solution of the vacuum Einstein equations possessing a regular event horizon. 91m:83019
- New exact solution for the exterior gravitational field of a spinning mass. 91a:83019
- Erratum: "New exact solution for the exterior gravitational field of a spinning mass" [Phys. Rev. Lett. 64 (1990), no. 14, 1625-1627; MR 91a:83019]. (Not in MR)
- *see also* Gutsumav, Ts. I., 91d:83020; Castejón-Amenedo, José, 91c:83020 and 91e:83021
- Mannheim, Philip D. *see* Deng, Yaobing, 91c:83022
- Manor, Ran *see* Carmeli, M., 91j:83006
- Marcus, Neil An exact solution of Einstein's equation with a dilaton field. 91f:83018
- Markov, M. A. *see* Frolov, V. P.; et al., 91a:83008
- Marmo, G. *see* de Ritis, R.; et al., 91c:83028
- Mashhoon, Bahram *see* Quevedo, Hernando, 91j:83015
- Masood-ul-Alam, A. K. M. *see* Künzle, H. P., 91b:83015
- Matravers, D. R. *see* Ellis, George F. R., 91j:83007
- Mazumdar, Ajanta *see* Kruti, K. D.; et al., 91a:83015
- Mazumdar, Ashish Flat Bianchi I Friedmann-Robertson-Walker space-times. 91b:83014
- McIntosh, C. B. G. (with Arianrhod, R.) Kundt solutions of Einstein's equations with one nonnull Killing vector. 91f:83019
- Miller, Willard, Jr. *see* Kalnina, E. G., 91b:83017
- Mitskevich, N. V. (with Tsalakou, Georgios A.) Charged fluid without electric field: a generalization of the Gödel solution. 91j:83012
- *see also* Horsky, Jan, 91a:83012; 91a:83025 and García Díaz, Alberto, (Not in MR)
- Mohanty, Ganeshwar (with Pattanaik, R. R.) Cosmological mass model in general relativity. 91a:83020
- (with Pattanaik, R. R.) Cosmological electrovac model in Bertotti-Robinson space-time. 91g:83013
- (with Pattanaik, R. R.) Anisotropic, spatially homogeneous, bulk viscous cosmological model. (Not in MR)
- *see also* Pattanaik, R. R., 91j:83013
- Morales, Jesús *see* Gafai N., Violeta; et al., 91j:83010
- Mughal, Muhammad A. *see* Bokhari, Ashfaq H.; et al., (Not in MR)
- Mukhanov, V. F. *see* Frolov, V. P.; et al., 91a:83008
- Müller-Holissen, Folkert Nonminimal coupling from higher dimensions and four-dimensional black holes. 91a:83021
- Muslimov, A. G. On the scalar field dynamics in a spatially flat Friedmann universe. 91c:83027
- Nardone, Pascal *see* Van den Bergh, Norbert; et al., 91g:83014
- Navarrete G., David *see* Gafai N., Violeta; et al., 91j:83010
- Nevia, J. M. String dust solutions of the Einstein field equations with spherical or static cylindrical symmetry. 91m:83020
- Obukhov, Yu. N. (with Piskareva, O. B.) The development of small perturbations of cosmological models in the general theory of relativity: spin effects. (Not in MR)
- On, Chih *see* To, F. T., 91b:83017
- Orlando Zúñiga, Gerardo *see* Gafai N., Violeta; et al., 91j:83010
- Pandya, Bharat M. *see* Patel, L. K., 91d:83025
- Papadopoulos, Demetrios (with Xanthopoulos, Basilis C.) Tomimatsu-Sato solutions describe cosmic strings interacting with gravitational waves. 91d:83024
- Patel, L. K. (with Pandya, Bharat M.) Some rotating Bianchi type II cosmologies with heat flow. 91d:83025
- *see also* Koppar, Sharda S., (Not in MR)
- Pattanaik, R. R. (with Mohanty, Ganeshwar) An analogue of de Sitter universe. 91j:83013
- *see also* Mohanty, Ganeshwar, 91a:83020; 91g:83013 and (Not in MR)
- Pendenza, Paolo *see* Ferrari, Valeria, 91j:83008
- Pensa, Fabián G. *see* Chimento, Luis P., 91f:83011
- Percoco, U. *see* Villalba, Victor M., 91f:83022
- Perjés, Zoltán Approaches to axisymmetry by man and machine. 91a:83022
- *see also* Hoenselaers, C., 91m:83017
- Pervez, Amjad *see* Bokhari, Ashfaq H.; et al., (Not in MR)
- Petrov, Aleksandr Nikolaevich New harmonic coordinates for the Schwarzschild geometry. 91j:83014
- Pfister, Herbert Zur Frage nach globalen Lösungen der Einsteinschen Feldgleichungen für rotierende Sterne. (English summary) [The quest for global solutions of Einstein's field equations for rotating stars] (Not in MR)
- Piskareva, O. B. *see* Obukhov, Yu. N., (Not in MR)
- Platania, G. *see* de Ritis, R.; et al., 91c:83028
- Poisson, Eric *see* Balbinot, Roberto, 91d:83015
- Pullin, Jorge A. Stiff-matter solitons in cosmology. 91b:83015
- *see also* Dagotto, Andrés D.; et al., 91d:83017
- Punsly, Brian The Kerr space-time near the ring singularity. 91b:83018
- Quevedo, Hernando (with Mashhoon, Bahram) Exterior gravitational field of a charged rotating mass with arbitrary quadrupole moment. 91j:83015
- Quraishi, Rehana *see* Abdussattar, (Not in MR)
- Ray, Dipankar *see* Basu, Ashis; et al., 91c:83019
- Raychaudhuri, A. K. A homogeneous static universe with a false vacuum and magnetic field. 91d:83026
- Reddy, D. R. K. (with Venkateswarlu, R.) Bianchi type-VI₀ model in the Lyttleton-Bondi universe. 91b:83019b
- *see also* Venkateswarlu, R., 91b:83019a; 91f:83021; (Not in MR) and Shanthi, K.; et al., (Not in MR)
- de Ritis, R. (with Marmo, G.; Platania, G.; Rubano, C.; Scudellaro, P.; Stornaiolo, C.) New approach to find exact solutions for cosmological models with a scalar field. 91c:83028
- Rivas, Martín *see* Aguirregabiria, J. M.; et al., 91g:83010
- Roy, A. R. *see* Tupper, B. O. J., 91d:83028
- Roy, S. R. (with Banerjee, Shyamal Kumar) Some Bianchi type II universes with special free-gravitational fields. 91d:83027
- Rubano, C. *see* de Ritis, R.; et al., 91c:83028
- Sáez, D. (with Arnau, J. V.) On the Tolman Bondi solution of Einstein equations. Numerical applications. (*see* 91f:83003)
- Saló, Nikolaus On the fitting problem of spherical symmetric solutions of Einstein's field equations. 91j:83016
- Sarkar, R. P. A modified Robertson-Walker cosmological model. 91b:83020
- Schmidt, Hans-Jürgen New exact solutions for power-law inflation Friedmann models. 91b:83021
- Scott, Susan M. Conjectures related to the Weyl curvature hypothesis. 91b:83022
- Scudellaro, P. *see* de Ritis, R.; et al., 91c:83028
- Shahabuddin, Md. *see* Islam, Md. Nurul, 91a:83013
- Shanthi, K. (with Maheswara Rao, Velagapudi Uma; Reddy, D. R. K.) Bianchi type-III model in the Lyttleton-Bondi universe. (Not in MR)
- Singh, Koljam Manihar (with Bhamra, K. S.) Radiating viscous universes coupled with zero-mass scalar field: exact solutions. (Not in MR)
- Singleton, David B. On global existence and convergence of vacuum Robinson-Trautman solutions. 91b:83023
- Som, M. M. (with Berman, Marcelo Samuel) de Sitter phase in conformally flat spacetime. 91b:83024
- Steele, J. D. On homogeneous pure radiation fields. 91a:83023
- Stornaiolo, C. *see* de Ritis, R.; et al., 91c:83028
- Sessman, Roberto A. Spherically symmetric solutions admitting a spacelike self-similar motion. 91m:83021
- Takagi, Shin Space-time of constant acceleration. 91b:83016
- Tikekar, Ramesh Exact model for a relativistic star. 91b:83025
- To, F. T. (with Ou, Chih) On exact soliton solutions to Einstein's equations. 91b:83017
- Tomonaga, Yasuó Galaxies and general relativity. (Not in MR)
- Tsalakou, Georgios A. *see* Mitskevich, N. V., 91b:83012
- Tsoobelis, D. (with Wang, A. Z.) Impulsive shells of null dust colliding with gravitational plane waves. 91b:83026

- Tupper, B. O. J. Comment on: "Robertson-Walker Lyttleton-Bondi universe with cosmological constant" [Astrophys. and Space Sci. 136 (1987), no. 2, 415-417; MR 89f:83032] by M. N. Varma and A. R. Roy. 91d:83028
- Conformally Ricci-flat viscous fluids. 91j:83017
- Turakulov, Z. Ya. Relativistic rotating disk: the general solution. 91b:83018
- Tyagi, Atul. *see* Ball, Raj, 91d:83010
- Uggla, Claes. New exact perfect fluid solutions of Einstein's equations. 91f:83020
- Van den Bergh, Norbert (with Gunzig, Edgar; Nardone, Pascal). Exact radiative solutions for conformally invariant fields on a conformally flat background. 91g:83014
- (Varma, M. N.) *see* Tupper, B. O. J., 91d:83028
- Venkateswarlu, R. (with Reddy, D. R. K.). Bianchi type-V Lyttleton-Bondi universe. 91b:83019a
- (with Reddy, D. R. K.). Exact Bianchi type-II Lyttleton-Bondi universe. 91f:83021
- (with Reddy, D. R. K.). Exact Bianchi type-II Lyttleton-Bondi universe. (Not in MR)
- *see also* Reddy, D. R. K., 91b:83019b
- Villalba, Víctor M. (with Percoco, U.). Separation of variables and exact solution to Dirac and Weyl equations in Robertson-Walker space-times. 91f:83022
- Virbhadra, K. S. Angular momentum distribution in Kerr-Newman spacetime. 91e:83029
- Visser, Matt. Traversable wormholes from surgically modified Schwarzschild spacetimes. 91g:83015
- Vuille, Chris. *see* Garfinkle, David, 91m:83015
- Wang, A. Z. *see* Tsoubelis, D., 91b:83026
- Williams, Jeffrey George. *see* Harriott, Tina A., 91b:83016
- Wils, Patrick. A class of inhomogeneous perfect fluid cosmologies. 91e:83030
- Physical properties of Buchdahl's three-parameter static spherically symmetric perfect fluid metrics. 91f:83023
- A class of exact solutions of the Einstein-Dirac equations. 91b:83019
- Wilson, W. B. *see* Kerr, R. P., 91e:83026
- Xanthopoulos, Basilis C. *see* Papadopoulos, Demetrios, 91d:83024
- Yahil, A. *see* Carr, Bernard J., 91f:83009
- Yu, Hong Wei. Gravitational field of a family of SU(5) dyons. 91k:83020
- Items with secondary classifications in 83C15
- Abd Eltwah, Y. A. A charged particle in the Gödel universe unified by a magnetic field. 91m:83009
- Anderson, Michael T. Short geodesics and gravitational instantons. 91b:83040
- Azaki, Huzihiro. Selfadjointness and positivity of a certain partial differential operator associated with the Kerr metric in general relativity. 91c:58139
- Bičák, Jiří. Axisymmetric asymptotically flat radiative space-times with another symmetry: the general definition and comments. 91b:83022
- Biesiada, Marek (with Szydlowski, Marek). Multidimensional cosmological world models as two-dimensional dynamical systems. 91d:83129
- Bilge, A. H. An asymptotically flat vacuum solution. 91b:83023
- Bizón, Piotr. Colored black holes. 91d:83079
- Bombelli, Luca (with Torrence, R. J.). Perfect fluids and Ashtekar variables, with applications to Kantowski-Sachs models. 91b:83006
- Borghain, P. *see* Krüsi, K. D.; et al., 91j:83063
- Bretón Baez, Nora. *see* García Díaz, Alberto; et al., 91c:83005
- Bruni, Marco. *see* Ellis, George F. R.; et al., 91e:83062
- Carot, J. *see* Di Prisco, A.; et al., 91b:83099
- Chandrasekhar, Subrahmanyan. The Teukolsky-Starobinsky constant for arbitrary spin. 91b:83036a
- Erratum: "The Teukolsky-Starobinsky constant for arbitrary spin". 91b:83036b
- Charlton, N. (with Clarke, C. J. S.). On the outcome of Kerr-like collapse. 91f:83048
- Chimento, Luis P. Exact solutions of the Einstein equations including quantum effects and cosmological constant. 91d:83069
- Clarke, C. J. S. *see* Charlton, N., 91f:83048
- Das, Kanika. *see* Krüsi, K. D.; et al., 91j:83063
- Di Prisco, A. (with Herrera, Luis; Carot, J.). On the chaotic behaviour induced by surface phenomena in some general relativistic stellar models. 91b:83099
- Ehlers, Jürgen. *see* Hübner, Peter, 91b:83079
- Ellis, George F. R. (with Bruni, Marco; Hwang, Jai-chan). Density-gradient-vorticity relation in perfect-fluid Robertson-Walker perturbations. 91e:83062
- Ershov, A. A. *see* Galt'sov, D. V., 91b:81086
- Fabér, L. Gy. Dynamical symmetries of the Kaluza-Klein monopole. 91b:83084
- de Felice, Fernando. Potential surfaces for time-like geodesics in the Curzon metric. 91j:83003
- Ferrari, José A. Static cylindrically symmetric solution of the Kaluza-Klein equations. 91a:83076
- Fransdiener, Jörg (with Hoenselaers, C.; Konrad, W.). A shell around a black hole. 91b:83067
- Galt'sov, D. V. (with Ershov, A. A.). Nonabelian baldness of colored black holes. 91b:81086
- García Díaz, Alberto (with Bretón Baez, Nora; Téllez, Jorge). A class of interior stationary axisymmetric type D charged rotating perfect fluid solutions. 91c:83005
- Goode, Stephen W. Isotropic singularities and the Penrose-Weyl tensor hypothesis. 91m:83059
- Gorini, Vittorio (with Grillo, Gabriele; Pelizza, Mauro). Black holes in Tolman-Bondi spacetimes. 91c:83025
- Grebó, Guy. *see* Letelier, Patricio S.; et al., 91b:83100
- Grillo, Gabriele. *see* Gorini, Vittorio; et al., 91c:83025
- Gru, Öyvind (with Soleng, Harald H.). Dynamical instability of the González-Díaz black hole model. 91d:83082
- Gutsunaev, Ts. I. (with Man'ko, V. S.). An electrovacuum solution of the general-relativity equations that has the Schwarzschild limit. 91b:83037
- Halliwel, Jonathan J. (with Laflamme, Raymond). Conformal scalar field wormholes. 91g:83033
- Herrera, Luis. *see* Di Prisco, A.; et al., 91b:83099
- Hoenselaers, C. Exact solutions since the last Marcel-Grossmann-meeting. 91d:83032
- Axisymmetric stationary vacuum solutions near a ring singularity. 91a:83051
- *see also* Fransdiener, Jörg; et al., 91b:83067
- Holvorcem, Paulo R. *see* Letelier, Patricio S.; et al., 91b:83100
- Hübner, Peter (with Ehlers, Jürgen). Inflation in curved model universes with noncritical density. 91b:83079
- Hwang, Jai-chan. *see* Ellis, George F. R.; et al., 91e:83062
- Israel, Werner. *see* Poisson, Eric, 91c:83071
- Jensen, Lars Gerhard (with Stein-Schabes, Jaime A.). A no-hair theorem for inhomogeneous cosmologies. 91a:83096
- Kalnins, E. G. (with Miller, Willard, Jr.; Williams, Graeme C.). Killing-Yano tensors and variable separation in Kerr geometry. 91a:83033
- Karas, Vladimir. *see* Vokrouhlický, D., 91i:83017
- Konrad, W. *see* Fransdiener, Jörg; et al., 91b:83067
- Kroil, P. An approach to spherically symmetric perfect fluid solution in general relativity using thin layers. (Not in MR)
- Krüsi, K. D. (with Borghain, P.; Das, Kanika). A Marder-like solution in higher dimensions. 91j:83063
- Kyriakopoulos, E. New series of asymptotically flat axisymmetric and stationary gravitational solutions. II. 91b:83029
- Laflamme, Raymond. *see* Halliwel, Jonathan J., 91g:83033
- Letelier, Patricio S. (with Holvorcem, Paulo R.; Grebó, Guy). Cosmic loops and bubbles in expanding universes. 91b:83100
- Liang, Can Bin. Conformal Birkhoff and Taub theorems in higher dimensions. 91e:83084
- Lun, A. W.-C. *see* McIntosh, C. B. G.; et al., 91b:83032
- Man'ko, V. S. *see* Gutsunaev, Ts. I., 91b:83037
- McIntosh, C. B. G. (with Lun, A. W.-C.; Singleton, David B.). Vacuum Robinson-Trautman solutions of Petrov types II and III. 91b:83032
- Miller, Willard, Jr. *see* Kalnins, E. G.; et al., 91a:83033
- Mohanty, Ganeshwar (with Panigrahi, U. K.). An anisotropic model for coupled electromagnetic and scalar fields. I. 91g:83022
- Moylan, Patrick Joseph. Integral transforms on homogeneous spaces of the de Sitter and conformal groups. (see 91m:81007)
- Panigrahi, U. K. *see* Mohanty, Ganeshwar, 91g:83022
- Pelizza, Mauro. *see* Gorini, Vittorio; et al., 91c:83025
- Perjes, Zoltán. Factor structure of the Tomimatsu-Sato metrics. 91b:83033
- Piazzese, F. (with Rizzi, G.). Self-interaction of a point charge in a Kerr spacetime. 91m:83050
- Poisson, Eric (with Israel, Werner). Internal structure of black holes. 91e:83071
- Ram, Shri. Bianchi type V perfect-fluid space-times. 91e:83034
- Raychaudhuri, A. K. Cosmic strings in general relativity. 91d:83135
- Rey, Soo-Jong. Space-time wormholes with Yang-Mills fields. 91f:81130
- Rizzi, G. *see* Piazzese, F., 91m:83050
- Singleton, David B. Numerical evolution of the Robinson-Trautman equation. 91d:83003
- *see also* McIntosh, C. B. G.; et al., 91b:83032
- Soleng, Harald H. *see* Gru, Öyvind, 91d:83082
- Stein-Schabes, Jaime A. *see* Jensen, Lars Gerhard, 91a:83096
- Straumann, Norbert (with Zhou, Zhi-Hong). Instability of the Bartnik-McKinnon solution of the Einstein-Yang-Mills equations. 91f:81107
- Szydlowski, Marek. *see* Biesiada, Marek, 91d:83129
- Téllez, Jorge. *see* García Díaz, Alberto; et al., 91c:83005
- Torrence, R. J. *see* Bombelli, Luca, 91b:83006
- Verbin, Y. Yang-Mills instantons in closed Friedmann universes. 91d:81089
- Villalba, Víctor M. Exact solution of the Dirac equation in a reducible Einstein space. 91b:83057
- Vokrouhlický, D. (with Karas, Vladimir). A massive magnetic dipole. 91b:83017
- Williams, Graeme C. *see* Kalnins, E. G.; et al., 91a:83033
- Yu, Yun Qiang. On the nonsingular spherical black hole. (Italian summary) 91j:83051
- Zhou, Zhi-Hong. *see* Straumann, Norbert, 91f:81107

83C20 Classes of solutions; algebraically special solutions, metrics with symmetries

- Ares de Parga, Gonzalo (with Chavoya-Aceves, Oscar; López Bonilla, José Luis; Morales, Jesús; Fernández Chapou, José L.). The Lanczos superpotential. (Spanish. English summary) 91b:83020
- Arianrhod, R. *see* McIntosh, C. B. G., 91g:83018
- Arik, Metin (with Mungan, Muhittin). Symmetry changes during the evolution of the universe. 91j:83018
- Barnes, Alan (with Rowlingson, Robert R.). Killing vectors in conformally flat perfect fluid spacetimes. 91b:83021
- Becerril, R. (with Gafit, V.; López Bonilla, José Luis; Morales, Jesús). Brans-Edgar equations. (Spanish. English summary) 91b:83021
- Bičák, Jiří. Axisymmetric asymptotically flat radiative space-times with another symmetry: the general definition and comments. 91b:83022
- Exact radiative space-times. 91d:83029
- Bilge, A. H. An asymptotically flat vacuum solution. 91b:83023
- Bizón, Piotr (with Malec, Edward; Ó Murchadha, Niall). Binding energy for spherical stars. 91j:83019
- Bonanos, S. Integrability conditions and the integration of the Bianchi identities in Petrov type-I vacuum space-times. 91m:83022
- Bretón Baez, Nora. *see* García Díaz, Alberto; et al., 91c:83005
- Carmichael, J. Petrov type III, shear-free, perfect fluid space-times in general relativity. 91b:83024
- Carot, J. Exact solutions for space-times admitting nonnull special conformal Killing vectors. 91b:83022
- Castro-Alamendosa, José (with MacCallum, Malcolm A. H.). On finding hypersurface orthogonal Killing fields. 91b:83023
- Chavoya-Aceves, Oscar. *see* Ares de Parga, Gonzalo; et al., 91b:83020
- Chinea, F. J. Twisting, type-N vacuum fields with two Killing vectors. 91d:83030
- Coley, Alan A. (with Tupper, B. O. J.). Spacetimes admitting inheriting conformal Killing vector fields. 91b:83027

- (with Tupper, B. O. J.) Space-times admitting special affine conformal vectors. 91b:83025
- Equations of state and plane-autonomous systems in Bianchi V imperfect fluid cosmology. 91b:83024
- Collins, C. B. Higher symmetries in a class of cosmological models. 91m:83023
- Collins, J. M. (with d'Inverno, R. A.; Vickers, J. A. G.) The Karhede classification of type D vacuum spacetimes. 91j:83020
- Degen, F. On the n th-order structure of solitonic wormholes. 91c:83004
- Den, Mitsue *see* Tadaki, Shin Ichi; et al., 91d:83036
- Duong Phan Axisymmetric vacuum Einstein fields. 91b:83025
- Fackerell, Edward D. (with Kersten, Paul H. M.) Vacuum Einstein fields with a single nonnull Killing vector. 91b:83026
- Feinstein, Alexander *see* Hassan, Zaki; et al., 91d:83031
- Fernández Chapon, José L. *see* Ares de Parga, Gonzalo; et al., 91b:83020
- Francisco, G. Information aspects of type IX models. 91b:83028
- Gaffet, B. The Einstein equations with two commuting Killing vectors. 91b:83026
- Gafoir, V. *see* Becerril, R.; et al., 91b:83021
- Gafoir N., Violeta (with López Bonilla, José Luis; Navarrete G., David; Ovando Zúñiga, Gerardo) On some Lanczos invariants. (Spanish. English summary) 91b:83029
- García de Andrade, L. C. Ricci recurrent space-times with torsion. 91m:83024
- García Díaz, Alberto (with Bretón Baez, Nora; Téllez, Jorge) A class of interior stationary axisymmetric type D charged rotating perfect fluid solutions. 91c:83005
- Hallisey, Mustafa Distinct family of colliding gravitational waves in general relativity. 91c:83031
- Separable wave equation in the space of colliding waves. 91m:83025
- Harrison, B. Kent Search for prolongation structure for Einstein vacuum equations with one Killing vector. 91b:83027
- Hassan, Zaki (with Feinstein, Alexander; Man'ko, V. S.) Asymmetric collision between plane gravitational waves with variable polarisation. 91d:83031
- Hayward, S. A. Transmutation of matter via colliding waves. 91a:83024
- Hewitt, C. G. (with Wainwright, J.) Orthogonally transitive G_2 cosmologies. 91m:83026
- An exact tilted Bianchi II cosmology. 91m:83027
- Hoenselaers, C. Exact solutions since the last Marcel-Grossmann-meeting. 91d:83032
- Huang, Wang Hong Anisotropic cosmological models with energy density dependent bulk viscosity. 91g:83016
- Effects of the shear viscosity on the character of cosmological evolution. 91b:83027
- d'Inverno, R. A. *see* Collins, J. M.; et al., 91j:83020
- Jantzen, Robert T. Power law lapse time gauge and its spacelike analog. 91b:83028
- *see also* Uggla, Claes; et al., 91j:83023
- Jones, Bernard J. T. *see* Rugh, Svend E., 91f:83024
- Kersten, Paul H. M. *see* Fackerell, Edward D., 91b:83026
- Kitamura, Shin-ichi On spherically symmetric and plane symmetric perfect fluid solutions and their imbedding of class one. 91j:83021
- Koppar, Sharda S. *see* Patel, L. K.; et al., 91c:83033
- Kramer, Dietrich Perfect fluids with conformal motion. 91b:83030
- Kyriakopoulos, E. New series of asymptotically flat axisymmetric and stationary gravitational solutions. II. 91b:83029
- Ladino Lana, Delfino Spacetime of class one with perfect fluid. (Spanish. English summary) (Not in MR)
- Lapeta, Andrzej *see* Szydlowski, Marek, 91f:83026
- van Leeuwen, W. A. (with Miedema, P. G.; Salvati, G. A. Q.; Wiersma, S. H.) Viscous Bianchi universes with magnetic field. II. Conclusion. 91a:83025
- Lemos, José P. S. (with Letelier, Patricio S.) Topological defects from counter rotating disks. 91m:83028
- Letelier, Patricio S. *see* Lemos, José P. S., 91m:83028
- Lewandowski, Jerzy (with Nuroski, Paweł) Algebraically special twisting gravitational fields and CR structures. 91b:83030
- Conformal symmetries of pure radiation. 91d:83033
- Li, Ying Hua² The Petrov type of the Kerr-Newman-Kasuya metric. (Chinese. English summary) 91g:83017
- López Bonilla, José Luis *see* Ares de Parga, Gonzalo; et al., 91b:83020; Becerril, R.; et al., 91b:83021 and Gafoir N., Violeta; et al., 91b:83029
- Ludwig, Garry Algebraically special spacetimes. 91b:83031
- Lun, A. W.-C. *see* McIntosh, C. B. G.; et al., 91b:83032
- MacCallum, Malcolm A. H. *see* Castejón-Amendó, José, 91b:83023
- Maheswara Rao, Velagapudi Uma *see* Shanthi, K., 91j:83022
- Maloc, Edward *see* Bizoń, Piotr; et al., 91j:83019
- Man'ko, V. S. *see* Hassan, Zaki; et al., 91d:83031
- Marmo, G. *see* de Ritis, R.; et al., 91b:83031
- Mason, D. P. *see* Tsamparlis, M., 91b:83029
- Matos, Tonatiah Chiral equations in theories of gravitation. (Spanish. English summary) 91d:83034
- Solitons in four-dimensional gravity. (Spanish. English summary) 91e:83032
- McIntosh, C. B. G. (with Lun, A. W.-C.; Singleton, David B.) Vacuum Robinson-Trautman solutions of Petrov types II and III. 91b:83032
- (with Arianrhod, R.) "Degenerate" nondegenerate spacetime metrics. 91g:83018
- Miedema, P. G. *see* van Leeuwen, W. A.; et al., 91a:83025
- Morales, Jesús *see* Ares de Parga, Gonzalo; et al., 91b:83020 and Becerril, R.; et al., 91b:83021
- Mungan, Muhittin *see* Arık, Metin, 91j:83018
- Nahmad-Achar, E. Geometric properties of generalized Kerr-Schild transformations. 91d:83035
- Navarrete G., David *see* Gafoir N., Violeta; et al., 91b:83029
- Nuroski, Paweł *see* Lewandowski, Jerzy, 91b:83030
- Ohnishi, Kouji *see* Tadaki, Shin Ichi; et al., 91d:83036
- Ó Murchadha, Niall *see* Bizoń, Piotr; et al., 91j:83019
- Ovando Zúñiga, Gerardo *see* Gafoir N., Violeta; et al., 91b:83029
- Pandya, N. R. *see* Patel, L. K.; et al., 91c:83033
- Patel, L. K. (with Koppar, Sharda S.; Pandya, N. R.) Imparting inhomogeneity to Bianchi type II, VIII and IX space-times with electromagnetic field. 91a:83033
- (with Singh, Tejinder) Rotating Bianchi type VIII & IX analogues of de Sitter universe. (Not in MR)
- Perjés, Zoltán Robinson-Trautman space-times. 91c:83006
- Factor structure of the Tomimatsu-Sato metrics. 91b:83033
- Platanía, G. *see* de Ritis, R.; et al., 91b:83031
- Prasad, A. *see* Roy, S. R., 91c:83007
- Przanowski, M. Killing vector fields in self-dual, Euclidean Einstein spaces with $\Lambda \neq 0$. 91m:83029
- Ram, Shri Bianchi type V perfect-fluid space-times. 91c:83034
- de Ritis, R. (with Marmo, G.; Platanía, G.; Rubano, C.; Scudellaro, P.; Stornaiolo, C.) New exact solutions of cosmological equations with considerations upon the cosmological constant. 91b:83031
- Rosquist, Kjell *see* Uggla, Claes; et al., 91j:83023
- Rowlison, Robert R. *see* Barnes, Alan, 91b:83021
- Roy, S. R. (with Prasad, A.) Some inhomogeneous generalizations of Bianchi type VI_h cosmological models in general relativity. 91c:83007
- Rubano, C. *see* de Ritis, R.; et al., 91b:83031
- Rugh, Svend E. (with Jones, Bernard J. T.) Chaotic behaviour and oscillating three-volumes in Bianchi IX universes. 91f:83024
- Salvati, G. A. Q. *see* van Leeuwen, W. A.; et al., 91a:83025
- Sassi, G. Parametrical embeddings of static spherically symmetric spacetimes. 91b:83028
- Scudellaro, P. *see* de Ritis, R.; et al., 91b:83031
- Senevillat, José M. M. New class of inhomogeneous cosmological perfect-fluid solutions without big-bang singularity. 91a:83026
- Shanthi, K. (with Maheswara Rao, Velagapudi Uma) Bianchi type-II cosmological models in the presence of zero-mass scalar fields. 91j:83022
- Siegl, Roman Spherically symmetric vacuum spacetimes: global approach. 91f:83025
- Singh, Tejinder *see* Patel, L. K., (Not in MR)
- Singleton, David B. Homothetic motions and vacuum Robinson-Trautman solutions. 91b:83032
- *see also* McIntosh, C. B. G.; et al., 91b:83032
- Stornaiolo, C. *see* de Ritis, R.; et al., 91b:83031
- Sussman, Roberto A. Radial conformal Killing vectors in spherically symmetric shear-free space-times. 91b:83034
- Szydlowski, Marek (with Lapeta, Andrzej) Pseudo-Riemannian manifold of mixmaster dynamical systems. 91f:83026
- Tadaki, Shin Ichi (with Den, Mitsue; Ohnishi, Kouji; Yamada, Yoshiyuki) Classification of conformal cosmological models. 91d:83036
- Téllez, Jorge *see* García Díaz, Alberto; et al., 91c:83005
- Tsamparlis, M. (with Mason, D. P.) Ricci collineation vectors in fluid space-times. 91b:83029
- Tupper, B. O. J. *see* Coley, Alan A., 91b:83025 and 91b:83027
- Uggla, Claes (with von Zur-Mühlen, Hans) Compactified and reduced dynamics for locally rotationally symmetric Bianchi type IX perfect fluid models. 91d:83037
- (with Rosquist, Kjell; Jantzen, Robert T.) Geometrizing the dynamics of Bianchi cosmology. 91j:83023
- Van den Bergh, Norbert *see* Wils, Patrick, 91b:83035
- Vickers, J. A. G. *see* Collins, J. M.; et al., 91j:83020
- Wainwright, J. *see* Hewitt, C. G., 91m:83026
- Ward, R. S. Einstein-Weyl spaces and SU(∞) Toda fields. 91g:83019
- Wiersma, S. H. *see* van Leeuwen, W. A.; et al., 91a:83025
- Wils, Patrick (with Van den Bergh, Norbert) Petrov type D pure radiation fields of Kundt's class. 91b:83035
- Aligned twisting pure radiation fields of Petrov type D do not exist. 91b:83033
- Wünsch, Volkmar Conformal C- and Einstein spaces. 91b:83034
- Yamada, Yoshiyuki *see* Tadaki, Shin Ichi; et al., 91d:83036
- Zannias, T. Spacetimes admitting a three-parameter group of isometries and quasilocal gravitational mass. 91b:83030
- Zhang, Zai Zhe New cylindrically gravitational wave solutions. 91g:83020
- von Zur-Mühlen, Hans *see* Uggla, Claes, 91d:83037

Items with secondary classifications in 83C20

- Arianrhod, R. *see* McIntosh, C. B. G., 91f:83019
- Azad, Md. Abul Kalam Explicit form of the metric and the number density of a member of Winicour's class of solutions in general relativity. (Bengali summary) 91a:83006
- Bagrov, V. G. (with Obukhov, V. V.) Separation of variables for the Klein-Gordon equation in special Stäckel spacetimes. 91b:83009
- Beig, R. Conformal properties of static spacetimes. 91m:83038
- Bokhari, Ashfaq H. (with Qadir, Asghar) Killing vectors of static spherically symmetric metrics. Correction to: "Symmetries of static, spherically symmetric space-times" [J. Math. Phys. 28 (1987), no. 5, 1019-1022; erratum: MR 90e:83046ab]. 91b:83045
- Bona García, Carlos (with Coll, Bartolomé) Invariant conformal vectors in static spacetimes. 91m:83011
- Burd, A. B. (with Buric, N.; Ellis, George F. R.) A numerical analysis of chaotic behaviour in Bianchi IX models. 91b:83002
- (with Buric, N.; Tavakol, R. K.) Chaos, entropy and cosmology. 91m:83092
- Buric, N. *see* Burd, A. B.; et al., 91b:83002 and 91m:83092
- Chinea, F. J. Clifford algebra approach to gravitation: applications to symmetries and to twisting, type-N fields. 91m:83057
- Coll, Bartolomé *see* Bona García, Carlos, 91m:83011
- Dagotto, Andrés D. (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) New exact solution describing the interaction of Einstein-Maxwell radiation and a rotating cosmic string. 91m:83030
- (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) Regular cylindrically symmetric Einstein-Maxwell metrics of Petrov type D. 91m:83031
- Di Prisco, A. *see* Herrera, Luis; et al., 91b:83052
- Ellis, George F. R. *see* Burd, A. B.; et al., 91b:83002
- Ferrari, Valeria (with Xanthopoulos, Basilis C.) Can black holes support a gravitating massive scalar field? 91j:83048

- Gaete, Patricia (with Hojman, Roberto) General exact solution for homogeneous time-dependent self-gravitating perfect fluids. 91b:83014
- Gaffet, B. On Einstein's equations with two commuting Killing vectors. 91b:83004
- García Díaz, Alberto Type D divergenceless charged perfect fluid solutions. 91b:83014
- Generation of colliding gravitational-electromagnetic waves by means of the Harrison transformation. 91b:83037
- Gleiser, Reinaldo J. see Dagotto, Andrés D.; et al., 91m:83030 and 91m:83031
- Gunzig, Edgar see Van den Bergh, Norbert; et al., 91b:83014
- Hall, G. S. (with Steele, J. D.) Homothety groups in space-time. 91b:83048
- Harvey, Alex Will the real Kasner metric please stand up. 91b:83016
- Herrera, Luis (with Ibañez, J.; Di Prisco, A.) Shear as a source of inhomogeneity in general relativistic stellar models. 91m:83052
- Hojman, Roberto see Gaete, Patricia, 91b:83014
- Holcomb, Katherine A. A computer code for the study of spherically-symmetric cosmological space-times. 91b:83003
- Horsky, Jan (with Mitskevich, N. V.) Generalised Kramer's metric. 91b:83025
- Ibañez, J. see Herrera, Luis; et al., 91m:83052
- Islam, Jamal Nazrul (with Islam, Md. Nurul) On the Einstein-Maxwell equations admitting a null Killing vector. (Bengali summary) 91b:83009
- Islam, Md. Nurul see Islam, Jamal Nazrul, 91b:83009
- Jaklitsch, M. J. First order field equations for Bianchi types II-VII₁. 91a:83032
- Jantzen, Robert T. see Rosquist, Kjell; et al., 91b:83015a and 91b:83015b
- Joly, G. C. (with MacCallum, Malcolm A. H.) Computer-aided classification of the Ricci tensor in general relativity. 91a:83001
- Kerr, R. P. (with Wilson, W. B.) A simplified representation of stationary axially symmetric metrics. 91b:83026
- Kinnersley, William The Hou-Li transformations. 91b:83036
- Kramer, Dietrich On a special case of differential rotation. 91b:83015
- Ladino Luna, Delfino (with López Bonilla, José Luis; Morales, Jesús; Ovando Zúñiga, Gerardo) R_4 embedded in E_5 . (Spanish. English summary) 91b:83054
- Leach, P. G. L. see Maharaj, S. D.; et al., 91m:83018
- López Bonilla, José Luis see Ladino Luna, Delfino; et al., 91b:83054
- Maartens, R. see Maharaj, S. D.; et al., 91m:83018
- MacCallum, Malcolm A. H. see Joly, G. C., 91a:83001
- Maeda, Kei-ichi see Yokoyama, Jun'ichi, 91b:83037
- Maharaj, S. D. (with Leach, P. G. L.; Maartens, R.) Shear-free spherically symmetric solutions with conformal symmetry. 91m:83018
- Mazumder, Ashish Flat Bianchi I Friedmann-Robertson-Walker space-times. 91b:83014
- McIntosh, C. B. G. (with Arianrhod, R.) Kundt solutions of Einstein's equations with one nonnull Killing vector. 91b:83019
- Meier, Wolfgang On vectorial irreversible processes in homogeneous isotropic cosmological models. 91b:83059
- Mitskevich, N. V. Dragging phenomenon and the space-time symmetry. 91b:83013
- see also Horsky, Jan, 91b:83025
- Morales, Jesús see Ladino Luna, Delfino; et al., 91b:83054
- Nardone, Pascal see Van den Bergh, Norbert; et al., 91b:83014
- Nicasio, Carlos O. see Dagotto, Andrés D.; et al., 91m:83030 and 91m:83031
- Obukhov, V. V. see Bagrov, V. G., 91b:83009
- Ori, Amos (with Piran, Tsvi) Naked singularities and other features of self-similar general-relativistic gravitational collapse. 91b:83049
- Ovando Zúñiga, Gerardo see Ladino Luna, Delfino; et al., 91b:83054
- Perjés, Zoltán Approaches to axisymmetry by man and machine. 91a:83022
- Piran, Tsvi see Ori, Amos, 91b:83049
- Qadir, Asghar see Bakhtari, Ashfaq H., 91b:83045
- Rosquist, Kjell (with Uggla, Claes; Jantzen, Robert T.) Extended dynamics and symmetries in vacuum Bianchi cosmologies. 91b:83015a
- (with Uggla, Claes; Jantzen, Robert T.) Extended dynamics and symmetries in perfect fluid Bianchi cosmologies. 91b:83015b
- Schmidt, Hans-Jürgen The massive scalar field in a closed Friedmann universe model—new rigorous results. (German summary) 91b:83078
- Shen, You Gen (with Tan, Zhen Qiang) Wormhole in the Einstein-Yang-Mills theory. 91b:83009
- Steele, J. D. see Hall, G. S., 91b:83048
- Tan, Zhen Qiang see Shen, You Gen, 91b:83009
- Tavakol, R. K. see Burd, A. B.; et al., 91m:83092
- Tepper, B. O. J. Conformally Ricci-flat viscous fluids. 91b:83017
- Uggla, Claes New exact perfect fluid solutions of Einstein's equations. 91b:83020
- see also Rosquist, Kjell; et al., 91b:83015a and 91b:83015b
- Van den Bergh, Norbert (with Gunzig, Edgar; Nardone, Pascal) Exact radiative solutions for conformally invariant fields on a conformally flat background. 91b:83014
- Walwright, J. On the asymptotic states of orthogonal spatially homogeneous cosmologies. 91b:83044
- Wilson, W. B. see Kerr, R. P., 91b:83026
- Xanthopoulos, Basilis C. see Ferrari, Valeria, 91b:83048
- Yokoyama, Jun'ichi (with Maeda, Kei-ichi) Quantum cosmological approach to the cosmic no-hair conjecture in the Bianchi type-IX spacetime. 91b:83037
- Burnett, Gregory A. (with Wald, Robert M.) A conserved current for perturbations of Einstein-Maxwell space-times. 91b:83035
- Carminali, J. Type D perfect-fluid spacetimes with a nonnull electromagnetic field. I. 91b:83031
- Cataldo, M. (with Horsky, Jan; Mitskevich, N. V.) Killing vectors and Einstein-Maxwell field. 91b:83036
- Dagotto, Andrés D. (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) A time shift phenomenon in self-interacting Einstein-Maxwell solitons. 91b:83024
- (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) New exact solution describing the interaction of Einstein-Maxwell radiation and a rotating cosmic string. 91m:83030
- (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) Regular cylindrically symmetric Einstein-Maxwell metrics of Petrov type D. 91m:83031
- (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) Interaction of Einstein-Maxwell radiation and a cosmic string: special solutions with hypersurface-orthogonal Killing vectors. 91m:83032
- Fakioglu, S. see Arzafah, M. R.; et al., 91b:83038
- Faridi, Abbas M. Einstein-Maxwell equations and the groups of homothetic motion. 91b:83008
- García Díaz, Alberto Generation of colliding gravitational-electromagnetic waves by means of the Harrison transformation. 91b:83037
- Gleiser, Reinaldo J. see Dagotto, Andrés D.; et al., 91b:83024; 91m:83030; 91m:83031 and 91m:83032
- Gutsunaev, Ts. I. (with Man'ko, V. S.) An electrovacuum solution of the general-relativity equations that has the Schwarzschild limit. 91b:83037
- see also Abramyan, S. M., 91b:83035
- Hallsoy, Mustafa Large family of colliding waves in the Einstein-Maxwell theory. 91m:83033
- see also Arzafah, M. R.; et al., 91b:83038
- Hartley, D. H. (with Önder, Metin; Tucker, R. W.) On the Einstein-Maxwell equations for a "stiff" membrane. 91b:83038
- Horsky, Jan see Cataldo, M.; et al., 91b:83036
- Islam, Jamal Nazrul (with Islam, Md. Nurul) On the Einstein-Maxwell equations admitting a null Killing vector. (Bengali summary) 91b:83009
- Islam, Md. Nurul (with Shahabuddin, Md.) Derivation of new solutions of Einstein-Maxwell equations. 91b:83038
- see also Islam, Jamal Nazrul, 91b:83009
- Karas, Vladimir see Vokrouhlický, D., 91b:83017
- Korotkin, D. A. (with Matveev, V. B.) Algebraic-geometric solutions of gravitation equations. 91b:83021
- Lessner, Gerhard Einstein-Maxwell null fields and extended massless particles with helicity. 91b:83025
- Li, Jian Zeng (with Liang, Can Bin) A class of semi-plane-symmetric electrovacuum spacetimes. (Chinese. English summary) 91b:83039
- Liang, Can Bin see Li, Jian Zeng, 91b:83039
- Man'ko, V. S. New axially symmetric solutions of the Einstein-Maxwell equations. 91b:83039
- see also Gutsunaev, Ts. I., 91b:83037
- Matveev, V. B. see Korotkin, D. A., 91b:83021
- Mitskevich, N. V. see Cataldo, M.; et al., 91b:83036
- Mohanty, Ganeshwar (with Panigrahi, U. K.) Axially symmetric Einstein-Maxwell-scalar fields. 91b:83027
- (with Panigrahi, U. K.) An anisotropic model for coupled electromagnetic and scalar fields. I. 91b:83022
- (with Panigrahi, U. K.) Axially symmetric Einstein-Maxwell and scalar fields with self-gravitating stiff fluid. 91b:83040
- Nicasio, Carlos O. see Dagotto, Andrés D.; et al., 91b:83024; 91m:83030; 91m:83031 and 91m:83032
- Önder, Metin see Hartley, D. H.; et al., 91b:83038
- Ori, Amos The general solution for spherical charged dust. 91b:83040
- Panigrahi, U. K. see Mohanty, Ganeshwar, 91b:83040; 91b:83027 and 91b:83022
- Shahabuddin, Md. see Islam, Md. Nurul, 91b:83038
- Silgatullin, N. R. Exact finite-multipolar solutions of a system of Einstein-Maxwell equations. (Russian) 91b:83041
- Tucker, R. W. see Hartley, D. H.; et al., 91b:83038
- Vokrouhlický, D. (with Karas, Vladimir) A massive magnetic dipole. 91b:83017
- Wald, Robert M. see Burnett, Gregory A., 91b:83035
- Woodhouse, N. M. J. Ward's splitting construction for stationary axisymmetric solutions of the Einstein-Maxwell equations. 91b:83042

83C22 Electromagnetic fields, Einstein-Maxwell equations

- Abramyan, S. M. (with Gutsunaev, Ts. I.) A class of asymptotically flat solutions of the static Einstein-Maxwell equations. 91b:83035
- Aherkar, S. M. (with Asgekar, G. G.) A mathematical model for infinitely conducting spherically symmetric matter distributions in curved space-time admitting conformal motions. 91b:83016
- Ahmed, Maimuddin (with Ansari, Abdullah) Matter fields in the Plebański-Demiański space-time. 91b:83036
- Ansari, Abdullah see Ahmed, Maimuddin, 91b:83036
- Arzafah, M. R. (with Fakioglu, S.; Hallsoy, Mustafa) Exact Faraday rotation in the cylindrical Einstein-Maxwell waves. 91b:83038
- Asgekar, G. G. see Aherkar, S. M., 91b:83016

83C25 Approximation procedures, weak fields

- Blanchet, Luc Beyond the quadrupole moment formalism. 91b:83043
- Mixed post-Newtonian and multipolar-post-Minkowskian approximation methods. 91b:83044
- (with Damour, Thibault) Post-Newtonian generation of gravitational waves. (French summary) 91b:83010

- Chandrasekhar, Subrahmanyan (with Ferrari, Valeria) The flux integral for axisymmetric perturbations of static space-times. 91a:83027
- The Teukolsky-Starobinsky constant for arbitrary spin. 91h:83036a
- Erratum: "The Teukolsky-Starobinsky constant for arbitrary spin". 91h:83036b
- Couch, W. E. (with Torrence, R. J.) Progressing wave gravitational perturbations of Robertson-Walker space-times. 91k:83032
- see also Torrence, R. J., 91k:83033
- Crichton, James H. (with Medina, Thomas J.) Spin matrices for gravitons and the Hubble decomposition of the angular momentum of gravitational radiation in the linearized theory. 91h:83039
- Damour, Thibault (with Grishchuk, L. P.; Kopetkin, S. M.; Schäfer, Gerhard) Higher-order relativistic dynamics of binary systems. 91c:83011
- see also Blanchet, Luc, 91c:83010
- Dautcourt, G. On the Newtonian limit of general relativity. 91j:83026
- Demisov, V. I. (with Turyshv, V. G.) Motion of extended bodies in the extended parametrized post-Newtonian formalism. 91d:83045
- Edgar, S. B. On Chandrasekhar's perturbation analysis. I. The superfluity of the N.P. system. 91h:83040
- Ferrari, Valeria see Chandrasekhar, Subrahmanyan, 91a:83027
- Gambi Fernández, José Ma. (with San Miguel, A.; Vicente Ruiz, Francisco) Post-Newtonian equations for the metric perturbation generated by a rotating elastic earth. 91j:83027
- Gangopadhyay, Debashis Gauge fixing for linearized gravity and antisymmetric tensor fields. 91h:83041
- Grishchuk, L. P. see Damour, Thibault; et al., 91c:83011
- Hwang, Jai-chan Cosmological perturbations: gauge-invariant vs. synchronous gauge analysis. 91j:83028
- Kopetkin, S. M. Asymptotic matching of gravitational fields in the solar system. 91d:83046
- see also Damour, Thibault; et al., 91c:83011
- Kulak, Andrzej see Woszczyzna, Andrzej, 91c:83041
- Medina, Thomas J. see Crichton, James H., 91h:83039
- Nelson, Robert A. Post-Newtonian approximation for an accelerated, rotating frame of reference. 91g:83023
- Rana, N. C. see Roy, Rajat, 91c:83012
- Robinson, D. C. Normal coordinates and adapted frames. 91h:83042
- Roy, Rajat (with Rana, N. C.) Coordinate gauge conditions in the N -body equations of motion in the first-order post-Newtonian approximation of general relativity. 91c:83012
- San Miguel, A. see Gambi Fernández, José Ma.; et al., 91j:83027
- Schäfer, Gerhard see Damour, Thibault; et al., 91c:83011
- Torrence, R. J. (with Couch, W. E.) Master equation for some gauge invariant gravitational perturbations. 91k:83033
- see also Couch, W. E., 91k:83032
- Torres del Castillo, G. F. Generation of perturbations by means of decoupled equations and their adjoints. 91j:83029
- Multipole expansion of the gravitational field in the linearized Einstein theory. 91h:83018
- Turyshv, V. G. see Demisov, V. I., 91d:83045
- Vicente Ruiz, Francisco see Gambi Fernández, José Ma.; et al., 91j:83027
- Woszczyzna, Andrzej (with Kulak, Andrzej) Cosmological perturbations—extension of Olson's gauge-invariant method. 91c:83041
- Zimdahl, W. Gauge-invariant cosmological perturbations from a thermodynamical point of view. 91m:83034
- Items with secondary classifications in 83C25
- Ahmed, Mainuddin (with Ansary, Abdullah) Matter fields in the Plebański-Demiański space-time. 91h:83036
- Ansary, Abdullah see Ahmed, Mainuddin, 91h:83036
- Bruni, Marco see Ellis, George F. R.; et al., 91c:83062
- Carr, Bernard J. (with Yahl, A.) Self-similar perturbations of a Friedmann universe. 91f:83009
- Chamorro, A. A Kerr inhomogeneity with a small rotation parameter in Friedmann universes. 91f:83010
- Choquet-Bruhat, Yvonne High frequency waves for stringy gravity. 91d:83117
- Chugreev, Yu. V. Post-Newtonian approximation of the relativistic theory of gravitation against a cosmological background. 91a:83061
- Damour, Thibault (with Schmidt, Bernd Gerhard) Reliability of perturbation theory in general relativity. 91m:83007
- Deser, S. Gravitational anyons. 91h:83071
- (DeWitt-Morette, Cécile) see Futterman, J. A. H.; et al., 91d:83081
- Ellis, George F. R. (with Bruni, Marco; Hwang, Jai-chan) Density-gradient-vorticity relation in perfect-fluid Robertson-Walker perturbations. 91c:83062
- Futterman, J. A. H. (with Handler, F. A.; Matzner, R. A.) ★ Scattering from black holes. 91d:83081
- Handler, F. A. see Futterman, J. A. H.; et al., 91d:83081
- Heimberger, Joachim (with Soffel, Michael; Ruder, Hanns) Relativistic effects in the motion of artificial satellites: the oblateness of the central body. II. 91c:70050
- Herrera, Luis see Martí, José Ma.; et al., 91d:83078
- Hoenselaers, C. Axisymmetric stationary vacuum solutions near a ring singularity. 91c:83051
- (with Perjés, Zoltán) Multipole moments of axisymmetric electrovacuum spacetimes. 91h:83038
- Holmes, G. (with Joly, G. C.; Smallwood, J.) On the application of computer algebra to velocity dominated approximations. 91d:83002
- Hwang, Jai-chan see Ellis, George F. R.; et al., 91c:83062
- Ibáñez Cabanell, J. M. see Martí, José Ma.; et al., 91d:83078
- Ichinose, Shoichi (with Kaminaga, Yasuhito) Inevitable ambiguity in perturbation around flat space-time. 91c:83009
- Islam, Md. Nurul (with Shahabuddin, Md.) Approximate solutions of Ernst form of Einstein equations. 91a:83013
- Jezierski, Jacek (with Kijowski, Jerzy) The localization of energy in gauge field theories and in linear gravitation. 91h:83006
- Joly, G. C. see Holmes, G.; et al., 91d:83002
- Kalnins, E. G. (with Miller, Willard, Jr.) Complete sets of functions for perturbations of Robertson-Walker cosmologies and spin 1 equations in Robertson-Walker-type space-times. 91k:83017
- Kaminaga, Yasuhito see Ichinose, Shoichi, 91c:83009
- Kijowski, Jerzy see Jezierski, Jacek, 91h:83006
- Kundu, Prasun K. Gravitational radiation field of an isolated system at null infinity. 91h:83039
- Martí, José Ma. (with Miralles, Juan A.; Ibáñez Cabanell, J. M.; Herrera, Luis) The nonadiabatic general-relativistic stellar oscillations. 91d:83078
- Matzner, R. A. see Futterman, J. A. H.; et al., 91d:83081
- Miller, Willard, Jr. see Kalnins, E. G., 91k:83017
- Miralles, Juan A. see Martí, José Ma.; et al., 91d:83078
- Obukhov, Yu. N. (with Piskareva, O. B.) The development of small perturbations of cosmological models in the general theory of relativity: spin effects. (Not in MR)
- Perjés, Zoltán see Hoenselaers, C., 91h:83038
- Piskareva, O. B. see Obukhov, Yu. N., (Not in MR)
- Rendall, Alan D. Convergent and divergent perturbation series and the post-Minkowskian approximation scheme. 91d:83009
- Ruder, Hanns see Soffel, Michael; et al., 91c:70049 and Heimberger, Joachim; et al., 91c:70050
- Schäfer, Gerhard Reduced Hamiltonian formalism for general-relativistic adiabatic fluids and applications. 91c:83065
- Schastok, J. see Soffel, Michael; et al., 91c:70049
- Schmidt, Bernd Gerhard see Damour, Thibault, 91m:83007
- Schneider, Manfred see Soffel, Michael; et al., 91c:70049
- Shahabuddin, Md. see Islam, Md. Nurul, 91a:83013
- Smallwood, J. see Holmes, G.; et al., 91d:83002
- Soffel, Michael (with Wirrer, R.; Schastok, J.; Ruder, Hanns; Schneider, Manfred) Relativistic effects in the motion of artificial satellites: the oblateness of the central body. I. 91c:70049
- see also Heimberger, Joachim; et al., 91c:70050
- Teyssandier, P. New solutions in linearized $R + R^2$ gravity. 91f:83063
- Wirrer, R. see Soffel, Michael; et al., 91c:70049
- Yahl, A. see Carr, Bernard J., 91f:83009
- 83C27 Lattice gravity, Regge calculus and other discrete methods**
- Agihtein, Michael E. (with Migdal, Alexander A.) Geometry of a two-dimensional quantum gravity: numerical study. 91k:83034
- Brewin, Lee Arnwitt-Deser-Misner energy and three-momentum for a simplicial space. 91m:83035
- Brightwell, Graham (with Gregory, Ruth) Structure of random discrete spacetime. 91j:83030
- Budach, Lothar On the combinatorial foundations of Regge-calculus. (German summary) 91h:83035
- Caselle, M. (with D'Adda, A.; Magnea, L.) Regge calculus as a local theory of the Poincaré group. 91a:83028
- D'Adda, A. see Caselle, M.; et al., 91a:83028
- Dehal, Mark R. Relativistic collapse using Regge calculus. I. Spherical collapse equations. 91m:83036a
- Relativistic collapse using Regge calculus. II. Spherical collapse results. 91m:83036b
- Gregory, Ruth see Brightwell, Graham, 91j:83030
- Kheifets, Arkady (with LaFave, Norman J.; Miller, Warner Allen) A few insights into the nature of classical and quantum gravity via null-strut calculus. 91d:83047
- (with LaFave, Norman J.; Miller, Warner Allen) Null-strut calculus. I. Kinematics. 91h:83031a
- (with LaFave, Norman J.; Miller, Warner Allen) Null-strut calculus. II. Dynamics. 91j:83031b
- LaFave, Norman J. see Kheifets, Arkady; et al., 91d:83047; 91j:83031a and 91j:83031b
- Magnea, L. see Caselle, M.; et al., 91a:83028
- Migdal, Alexander A. see Agihtein, Michael E., 91k:83034
- Miller, Warner Allen see Kheifets, Arkady; et al., 91d:83047; 91j:83031a and 91j:83031b
- Rutens, Paul Some results of $SU(2)$ spinorial lattice gravity. 91d:83048
- Ryder, Yu. A. Extremal properties of Synge's world function and discrete geometry. 91k:83036
- Shimono, Masato Fermions and gravitational anomaly in lattice gravity. 91i:83019
- Waelbroeck, Henri 2 + 1 lattice gravity. 91c:83042
- Items with secondary classifications in 83C27
- Agihtein, Michael E. (with Jacobs, Laurence; Migdal, Alexander A.; Richardson, John L.) Geometric characterization of states in two-dimensional quantum gravity. 91d:81004
- DeWitt, Bryce S. Nonlinear sigma models in 4 dimensions as toy models for quantum gravity. 91c:83018
- Jacobs, Laurence see Agihtein, Michael E.; et al., 91d:81004
- Migdal, Alexander A. see Agihtein, Michael E.; et al., 91d:81004
- Richardson, John L. see Agihtein, Michael E.; et al., 91d:81004
- Turakulov, Z. Ya. Relativistic rotating disk: the general solution. 91h:83018
- 83C30 Asymptotic procedures (radiation, news functions, \mathcal{H} spaces, etc.)**
- Ahmed, Mainuddin Gravitational radiation reaction in the NUT-de Sitter spacetime. 91d:83049
- Aller, A. N. (with Gal'tsov, D. V.) Absence of gravitational radiation in collision of two straight cosmic strings. 91c:83043
- Ashtekar, Abhay (with Bombelli, Luca; Reula, Oscar A.) The covariant phase space of asymptotically flat gravitational fields. 91m:83037
- Bartnik, Robert Results and conjectures in mathematical relativity. 91g:83024
- A new definition of quasi-local mass. 91j:83032

- Beig, R. Conformal properties of static spacetimes. 91m:83038
- Bičák, Jiří Is there a new function for an infinite cosmic string? 91h:83037
- Bombelli, Luca *see* Ashtekar, Abhay; et al., 91m:83037
- Gal'tsov, D. V. *see* Aliev, A. N., 91e:83043
- Hamity, Victor H. (with Reula, Oscar A.; Winicour, Jeffrey) Prescriptions for gravitational initial data as judged by a simple radiating model. 91a:83029
- Hoenselaers, C. (with Perjés, Zoltán) Multipole moments of axisymmetric electrovacuum spacetimes. 91h:83038
- Kachot, K. R. *see* Krishna Rao, J., 91d:83050
- Krishna Rao, J. (with Kachot, K. R.) Linear superposition of a pure radiation field on a nonempty axially symmetric rotating and nonstationary space-times. 91d:83050
- Kundu, Prasun K. Gravitational radiation field of an isolated system at null infinity. 91h:83039
- Moreschi, Osvaldo M. Future null infinity of Robertson-Walker space-times. 91a:83030
- Nester, James M. Positive energy via the teleparallel Hamiltonian. 91h:83043
- Newman, Richard P. A. C. The shape of infinity. 91b:83044
- Nikishov, A. I. (with Ritus, V. I.) Gravitational radiation from electromagnetic systems. 91a:83031
- Perjés, Zoltán *see* Hoenselaers, C., 91h:83038
- Reula, Oscar A. *see* Hamity, Victor H.; et al., 91a:83029 and Ashtekar, Abhay; et al., 91m:83037
- Ritus, V. I. *see* Nikishov, A. I., 91a:83031
- Wainwright, J. On the asymptotic states of orthogonal spatially homogeneous cosmologies. 91e:83044
- Winicour, Jeffrey *see* Hamity, Victor H.; et al., 91a:83029

Items with secondary classifications in 83C30

- Ahmed, Mainuddin (with Ansary, Abdullah) Matter fields in the Plebański-Demiański space-time. 91b:83036
- Andersson, Lars Åke On the space of asymptotically flat solutions of Einstein's equations. 91d:83031
- Ansary, Abdullah *see* Ahmed, Mainuddin, 91b:83036
- Bičák, Jiří Exact radiative space-times. 91d:83029
- Castellón-Amenedo, José (with MacCallum, Malcolm A. H.; Man'ko, V. S.) On event horizons in static vacuum spacetimes. 91e:83047
- Couch, W. E. (with Torrence, R. J.) Progressing wave gravitational perturbations of Robertson-Walker space-times. 91h:83032
- Dagotto, Andrés D. (with Gleiser, Reinaldo J.; Nicasio, Carlos O.) A time shift phenomenon in self-interacting Einstein-Maxwell solitons. 91j:83024
- (DeWitt-Morette, Cécile) *see* Futterman, J. A. H.; et al., 91d:83081
- Dolan, B. P. On the generating function for Ashtekar's canonical transformation. 91f:83031
- Friedman, John L. (with Higuchi, Atsushi) Symmetry and internal time on the superspace of asymptotically flat geometries. 91c:83019
- Futterman, J. A. H. (with Handler, F. A.; Matzner, R. A.) ★ Scattering from black holes. 91d:83081
- Giulini, Domenico Interaction energies for three-dimensional wormholes. 91g:83008
- Gleiser, Reinaldo J. *see* Dagotto, Andrés D.; et al., 91j:83024
- Goldberg, Joshua N. Conserved quantities at spatial and null infinity: the Penrose potential. 91c:83015
- Handler, F. A. *see* Futterman, J. A. H.; et al., 91d:83081
- Hawking, Stephen W. Gravitational radiation from collapsing cosmic string loops. 91f:83046
- Higuchi, Atsushi *see* Friedman, John L., 91c:83019
- Isenberg, James A. (with Moncrief, Vincent) Asymptotic behavior of the gravitational field and the nature of singularities in Gowdy spacetimes. 91d:83007
- Israel, Werner *see* Poisson, Eric, 91e:83071
- Katz, Joseph (with Ori, Amos) Localisation of field energy. 91a:83034
- Kozameh, Carlos N. (with Ortiz, Omar; Newman, Ezra T.) Maxwell fields on asymptotically simple space-times. 91e:83061
- MacCallum, Malcolm A. H. *see* Castellón-Amenedo, José; et al., 91f:83047
- Man'ko, V. S. *see* Castellón-Amenedo, José; et al., 91f:83047
- Matzner, R. A. *see* Futterman, J. A. H.; et al., 91d:83081
- Moncrief, Vincent *see* Isenberg, James A., 91d:83007
- Newman, Ezra T. *see* Kozameh, Carlos N.; et al., 91j:83024
- Nicasio, Carlos O. *see* Dagotto, Andrés D.; et al., 91j:83024
- Ori, Amos *see* Katz, Joseph, 91a:83034
- Ortiz, Omar *see* Kozameh, Carlos N.; et al., 91j:83024
- Perjés, Zoltán Robinson-Trautman space-times. 91c:83006
- Poisson, Eric (with Israel, Werner) Internal structure of black holes. 91e:83071
- Prażmowski, M. The group theoretic analysis of hyperheavenly equations. 91i:83165
- Torrence, R. J. *see* Couch, W. E., 91h:83032
- Van den Bergh, Norbert *see* Wils, Patrick, 91b:83035
- Vissner, Matt Traversable wormholes from surgically modified Schwarzschild spacetimes. 91g:83015
- Wils, Patrick (with Van den Bergh, Norbert) Petrov type D pure radiation fields of Kundt's class. 91b:83035

83C35 Gravitational waves

- Denisov, V. I. General solution of equations of relative motion in a plane gravitational wave field. (Russian) 91d:83051
- Ernst, Frederick J. *see* Hauser, Isidore, 91c:83013 and 91m:83039
- Feinstein, Alexander Physics versus metaphysics in collision between plane gravitational waves. (see 91i:83003)
- Griffiths, J. B. Colliding plane gravito-electromagnetic waves. 91e:83045
- Hauser, Isidore (with Ernst, Frederick J.) Initial value problem for colliding gravitational plane waves. III. 91c:83013
- (with Ernst, Frederick J.) Initial value problem for colliding gravitational plane waves. IV. 91m:83039
- Hayward, S. A. The interaction of plane asymptotic gravitational waves. 91c:83014

- Lamoureux-Brousse, L. Gravitational waves as sources for finite conjugacy waves of elastic continua in general relativity. (Italian summary) 91e:83046
- Mashhoon, Bahram (with Quevedo, Hernando) Rotating gravitational waves. 91j:83033
- Quevedo, Hernando *see* Mashhoon, Bahram, 91j:83033
- Sokolowski, Leszek M. Multidimensional gravitational waves. I. Purely radiative space-times. 91j:83034
- Taub, A. H. Interaction of null dust clouds fronted by impulsive plane gravitational waves. 91k:83037

Items with secondary classifications in 83C35

- Aliev, A. N. (with Gal'tsov, D. V.) Absence of gravitational radiation in collision of two straight cosmic strings. 91e:83043
- Blanchet, Luc (with Damour, Thibault) Post-Newtonian generation of gravitational waves. (French summary) 91c:83010
- Couch, W. E. (with Torrence, R. J.) Progressing wave gravitational perturbations of Robertson-Walker space-times. 91h:83032
- *see also* Torrence, R. J., 91h:83033
- Damour, Thibault *see* Blanchet, Luc, 91c:83010
- Feinstein, Alexander (with MacCallum, Malcolm A. H.; Senovilla, José M. M.) On the ambiguous evolution and the production of matter in spacetimes with colliding waves. 91c:83023
- *see also* Hassan, Zaki; et al., 91d:83031
- Gal'tsov, D. V. *see* Aliev, A. N., 91e:83043
- Grishchuk, L. P. (with Solokhin, M.) Spectra of relic gravitons and the early history of the Hubble parameter. 91m:83095
- Hallisoy, Mustafa Distinct family of colliding gravitational waves in general relativity. 91c:83031
- Hassan, Zaki (with Feinstein, Alexander; Man'ko, V. S.) Asymmetric collision between plane gravitational waves with variable polarisation. 91d:83031
- MacCallum, Malcolm A. H. *see* Feinstein, Alexander; et al., 91c:83023
- Man'ko, V. S. *see* Hassan, Zaki; et al., 91d:83031
- Ou, Chih *see* To, F. T., 91b:83017
- Papadopoulos, Demetrios (with Xanthopoulos, Basilis C.) Tomimatsu-Sato solutions describe cosmic strings interacting with gravitational waves. 91d:83024
- Schutz, Bernard F. Gravitational waves. (see 91i:83003)
- Senovilla, José M. M. *see* Feinstein, Alexander; et al., 91c:83023
- Solokhin, M. *see* Grishchuk, L. P., 91m:83095
- Steele, J. D. On homogeneous pure radiation fields. 91a:83023
- To, F. T. (with Ou, Chih) On exact soliton solutions to Einstein's equations. 91b:83017
- Torrence, R. J. (with Couch, W. E.) Master equation for some gauge invariant gravitational perturbations. 91k:83033
- *see also* Couch, W. E., 91h:83032
- Tsoubelis, D. (with Wang, A. Z.) Impulsive shells of null dust colliding with gravitational plane waves. 91h:83026
- Wang, A. Z. *see* Tsoubelis, D., 91h:83026
- Xanthopoulos, Basilis C. *see* Papadopoulos, Demetrios, 91d:83024
- Zhong, Zai Zhe New cylindrically gravitational wave solutions. 91g:83020

83C40 Gravitational energy and conservation laws; groups of motions

- Bagrov, V. G. (with Shapovalov, A. V.; Evseevich, A. A.) Separation of variables in the Dirac equation in Stäckel spaces. 91f:83028
- Balański, Stanisław L. (with Zyla, Piotr) A Gauss type law for gravity with a cosmological constant. 91d:83052
- Bokhari, Ashfaq H. (with Qadir, Asghar) Killing vectors of static spherically symmetric metrics. Correction to: "Symmetries of static, spherically symmetric space-times" [J. Math. Phys. 28 (1987), no. 5, 1019-1022; erratum: MR 90e:83046ab]. 91b:83045
- Collinson, C. D. Tetrad symmetries. 91i:83020
- Del-Castillo-Negrete, Diego (with Hojman, Sergio) Symmetries of space-time and geodesic symmetries. 91c:83047
- Doi, Hideo (with Okamoto, Kiyosato) A survey of the generalized Geroch conjecture. 91g:83025
- Evseevich, A. A. *see* Bagrov, V. G.; et al., 91f:83028
- Floresanini, Roberto (with Lina, Jean-Marc; Vinet, Luc; Winternitz, Pavel) Symmetries of semiclassical gravity in two dimensions. 91b:83046
- Ge, Mo Lin *see* Wang, Jun Yi, 91d:83056
- Goldberg, Joshua N. Conserved quantities at spatial and null infinity: the Penrose potential. 91c:83015
- Grosso, Roberto (with Stephani, Hans) Bianchi types of Lie point symmetries arising for differentially rotating stationary axisymmetric fluids. 91j:83035
- (with Stephani, Hans) Bianchi types of Lie point symmetries arising for differential rotating stationary axisymmetric fluids. 91d:83053
- Gürses, Metin Soliton geometry for the vacuum gravitational field equations. 91b:83047
- Hall, G. S. (with Steele, J. D.) Homothety groups in space-time. 91b:83048
- Conformal symmetries and fixed points in space-time. 91d:83054
- Hojman, Sergio *see* Del-Castillo-Negrete, Diego, 91c:83047
- Hou, Bo Yu (with Li, Wei) A new approach to the generation of rigorous solutions to the Ernst equations by the Riemann-Hilbert method. (Chinese. English summary) 91g:83026
- Jaklitsch, M. J. First order field equations for Bianchi types II-VII_h. 91a:83032
- Kalins, E. G. (with Müller, Willard, Jr.; Williams, Graeme C.) Killing-Yano tensors and variable separation in Kerr geometry. 91a:83033
- (with Williams, Graeme C.) Symmetry operators and separation of variables for spin-wave equations in oblate spheroidal coordinates. 91e:83048
- Katz, Joseph (with Ori, Amos) Localisation of field energy. 91a:83034
- *see also* Lynden-Bell, Donald, 91m:83040
- Kinnersley, William The Hou-Li transformations. 91j:83036
- Leibowitz, E. *see* Nissani, N., 91d:83055
- Li, Wei? *see* Hou, Bo Yu, 91g:83026
- Lina, Jean-Marc *see* Floresanini, Roberto; et al., 91b:83046

- Lynden-Bell, Donald (with Katz, Joseph) Energy (non-)conservation near black and white holes. 91m:83040
- Miller, Willard, Jr. see Kuhn, E. G.; et al., 91a:83033
- Nissani, N. (with Leibowitz, E.) Energy conservation in curved spacetime. 91d:83055
- Novotny, Jan Identities connected with the second theorem of E. Noether in generally invariant gravitational theories. 91g:83027
- Okamoto, Kiyosato see Dai, Hideo, 91g:83025
- Ori, Amos see Katz, Joseph, 91a:83034
- Ortiz, Miguel E. Homogeneous spacetimes with isotropy in 2 + 1 dimensions as solutions to topologically massive gravity. 91g:83028
- Ore, Roger Anomalous foliations of Einstein space-times. 91g:83029
- Park, Q-Han Extended conformal symmetries in real heavens. 91e:83049
- Self-dual gravity as a large- N limit of the 2D nonlinear sigma model. 91f:83029
- Qadir, Asghar see Bokhari, Ashfaq H., 91b:83045
- Shapovalov, A. V. see Bagrov, V. G.; et al., 91f:83028
- Steele, J. D. see Hall, G. S., 91b:83048
- Stephani, Hans see Grosse, Roberto, 91d:83053 and 91j:83035
- Tartaglia, A. Gravity without Lorentz symmetry? 91e:83050
- Tentyakov, M. N. * Структура сохраняющихся токов в теории гравитации с фоновой связностью. (Russian) [The structure of conserved currents in the theory of gravitation with background connection] 91f:83021
- Vinet, Luc see Floreani, Roberto; et al., 91b:83046
- Virbhadra, K. S. Energy associated with a Kerr-Newman black hole. 91a:83035
- Wang, Jun Yi (with Ge, Mo Lin) The Lagrange form, Noether currents and inverse scattering equations for the Chandrasekhar equation. (Chinese. English summary) 91d:83056
- Williams, Graeme C. see Kuhn, E. G.; et al., 91a:83033 and 91j:83048
- Winternitz, Pavel see Floreani, Roberto; et al., 91b:83046
- Żyta, Piotr see Bałucki, Stanisław L., 91d:83052
- Items with secondary classifications in 83C40
- Aherkar, S. M. (with Asgekar, G. G.) A mathematical model for infinitely conducting spherically symmetric matter distributions in curved space-time admitting conformal motions. 91f:83016
- Arik, Metin (with Mungan, Muhittin) Symmetry changes during the evolution of the universe. 91j:83018
- Asgekar, G. G. see Aherkar, S. M., 91f:83016
- Barbero, F. (with Julve, J.; Tiemblo, A.; Tresguerres, R.) Coset group realizations and space-time local symmetries. (Italian and Russian summaries) 91a:81106
- Bartnik, Robert A new definition of quasi-local mass. 91j:83032
- Bizon, Piotr (with Malec, Edward; Ó Murchadha, Niall) Binding energy for spherical stars. 91j:83019
- Bombelli, Luca (with Torrence, R. J.) Perfect fluids and Ashtekar variables, with applications to Kantowski-Sachs models. 91h:83006
- Cataldo, M. (with Horšky, Jan; Mitsukevich, N. V.) Killing vectors and Einstein-Maxwell field. 91c:83036
- Chandrasekhar, Subrahmanyan (with Ferrari, Valeria) The flux integral for axisymmetric perturbations of static space-times. 91a:83027
- Duong Phan Axisymmetric vacuum Einstein fields. 91h:83025
- Farfidi, Abbas M. Einstein-Maxwell equations and the groups of homothetic motion. 91d:83008
- Ferrari, Valeria see Chandrasekhar, Subrahmanyan, 91a:83027
- Friedman, John L. (with Higuchi, Atsushi) Symmetry and internal time on the superspace of asymptotically flat geometries. 91c:83019
- Gaffet, B. On Einstein's equations with two commuting Killing vectors. 91f:83064
- Higuchi, Atsushi see Friedman, John L., 91c:83019
- Horšky, Jan (with Mitsukevich, N. V.) Killing vectors of vacuum space times and electromagnetic four potentials. 91a:83012
- see also Cataldo, M.; et al., 91c:83036
- Jantzen, Robert T. see Rosquist, Kjell; et al., 91e:83015a and 91e:83015b
- Julve, J. see Barbero, F.; et al., 91a:81106
- Letelier, Patricio S. On soliton solutions to the vacuum Einstein equations obtained from a general seed solution. 91a:83018
- Lewandowski, Jerzy Conformal symmetries of pure radiation. 91d:83033
- Malec, Edward see Bizon, Piotr; et al., 91j:83019
- Matos, Tonatihu Chiral equations in theories of gravitation. (Spanish. English summary) 91d:83034
- Mendoza, A. (with Restuccia, A.) Infinitesimal Bäcklund transformations and Kac-Moody algebras in general relativity. 91m:58142
- Mitsukevich, N. V. see Horšky, Jan, 91a:83012 and Cataldo, M.; et al., 91c:83036
- Mungan, Muhittin see Arik, Metin, 91j:83018
- Nakanishi, Noboru Local supersymmetry of gravity different from supergravity. 91d:83126
- Ó Murchadha, Niall see Bizon, Piotr; et al., 91j:83019
- Przanowski, M. The group theoretical analysis of gravitational instanton equations. 91i:58164
- Killing vector fields in self-dual, Euclidean Einstein spaces with $\Lambda \neq 0$. 91m:83029
- Raychaudhuri, A. K. A homogeneous static universe with a false vacuum and magnetic field. 91d:83026
- Restuccia, A. see Mendoza, A., 91m:58142
- Rosquist, Kjell (with Ugla, Claes; Jantzen, Robert T.) Extended dynamics and symmetries in vacuum Bianchi cosmologies. 91e:83015a
- (with Ugla, Claes; Jantzen, Robert T.) Extended dynamics and symmetries in perfect fluid Bianchi cosmologies. 91e:83015b
- Singleton, David B. Homothetic motions and vacuum Robinson-Trautman solutions. 91h:83032
- Śniatycki, Jędrzej On the role of boundary conditions in conservation laws in field theory. 91i:58038
- Tiemblo, A. see Barbero, F.; et al., 91a:81106
- Torrence, R. J. see Bombelli, Luca, 91h:83006
- Tresguerres, R. see Barbero, F.; et al., 91a:81106
- Ugla, Claes see Rosquist, Kjell; et al., 91e:83015a and 91e:83015b
- ### 83C45 Quantization of the gravitational field
- Abbott, L. F. (with Farhi, Edward) Wormholes with a past. 91f:83022
- Abe, Mitsuo Supersymmetric extension of local Lorentz symmetry in the vierbein formalism of Einstein gravity. 91m:83041
- Ahn, Chang-Jun (with Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk; Kim, Won Tae; Cho, Byung Ha) Two-dimensional quantum gravity in the conformal gauge. 91e:83051
- Alvarez, Enrique Low energy effects of quantum gravity. 91h:83038
- de Alwis, S. P. see Carlip, Steven, 91j:83037
- Aneziris, C. (with Balachandran, A. P.; Bourdeau, Michelle Hilda; Jo, S.-G.; Ramadas, T. R.; Sorkin, R. D.) Statistics and general relativity. 91h:83040
- Aurilia, Antonio (with Spallucci, Euro) Minisuperspace approach to quantum bubble dynamics. 91h:83041
- Balachandran, A. P. see Aneziris, C.; et al., 91h:83040
- Bandopadhyay, Pratim Quantum gravity, supergravity and torsion. 91d:83057
- Barvinskii, A. O. (with Kamenshchik, A. Yu.) 1-loop quantum cosmology: the normalisability of the Hartle-Hawking wavefunction and the probability of inflation. 91d:83058
- The general semiclassical solution of the Wheeler-DeWitt equations and the issue of unitarity in quantum cosmology. 91k:83039
- Berezin, V. A. (with Kuz'min, V. A.; Tkachev, I. I.) $O(3)$ -invariant processes at false vacuum decay in general relativity. 91m:83042
- Blencowe, M. P. The Hamiltonian constraint in quantum gravity. 91m:83043
- Bleyer, Ulrich (with Liebscher, Dierck-Ekkehard; Schmidt, Hans-Jürgen; Zhuk, A. I.) On the Wheeler-DeWitt equation in multidimensional cosmology with phenomenological matter. 91g:83030
- Bombelli, Luca (with Meyer, David A.) The origin of Lorentzian geometry. 91c:83016
- Bond, J. R. see Salopek, D. S., 91k:83046
- von Borzeszkowski, Horst-Helmo Quantisierung der Gravitation und Äquivalenzprinzip. (English summary) [Quantization of gravity and the principle of equivalence] (see 91i:83002)
- Bourdeau, Michelle Hilda see Aneziris, C.; et al., 91h:83040
- Braham, Stephen P. Inhomogeneous quantum cosmology: an infinite-parameter model. 91f:83030
- Brown, J. David (with York, James W., Jr.) Jacobi's action and the recovery of time in general relativity. 91a:83036
- Tunneling in perfect-fluid (minisuperspace) quantum cosmology. 91b:83049
- Bukhbinder, I. L. (with Odintsov, S. D.; Fonarev, O. A.) Two-loop effective action in quantum gravity. 91i:83023
- Campbell, L. M. (with Garay, L. J.) Quantum wormholes in Kantowski-Sachs spacetime. 91k:83040
- Carlip, Steven (with de Alwis, S. P.) Wormholes in 2 + 1 dimensions. 91j:83037
- Observables, gauge invariance, and time in (2 + 1)-dimensional quantum gravity. 91h:83044
- Castagnolo, Mario A. (with Mazzitelli, Francisco D.) Probabilistic time and the quantum gravity interpretation. 91h:83050
- Chmielewski, Piotr Wave functions on a minisuperspace of higher-dimensional geometries. 91d:83059
- Cho, Byung Ha see Ahn, Chang-Jun; et al., 91e:83051
- Coleman, Sidney (with Lee, Kimyeong) Big wormholes and little interactions. 91e:83052
- Coquereaux, R. (with Esposito-Farese, G.) 1-loop divergences in quantum gravity: the Einstein-Maxwell-Kaluza-Klein system. 91d:83060
- Coule, David H. (with Maeda, Kei-ichi) Wormholes with scalar fields. 91c:83017
- van Dam, H. see Ng, Y. Jack, 91f:83033
- Deser, S. (with Yang, Zhu) Is topologically massive gravity renormalisable? 91h:83042
- DeWitt, Bryce S. Nonlinear sigma models in 4 dimensions as toy models for quantum gravity. 91c:83018
- Dolan, B. P. On the generating function for Ashtekar's canonical transformation. 91f:83031
- Dowker, H. F. Electromagnetic wormhole vertex. 91e:83053
- Duncan, M. J. (with Jensen, Lars Gerhard) Is the Universe Euclidean? 91h:83043
- Esposito, Giamplero V. M. Recent developments in quantum cosmology. 91a:83037
- Esposito-Farese, G. see Coquereaux, R., 91d:83060
- (Fang, Li Zhi) see Quantum cosmology, 91i:83033
- Farhi, Edward see Abbott, L. F., 91f:83022
- Flewood, G. R. A new approach to quantum gravity and the structure of space-time. 91e:83054
- Fonarev, O. A. see Bukhbinder, I. L.; et al., 91i:83023
- Friedman, John L. (with Higuchi, Atsushi) Symmetry and internal time on the superspace of asymptotically flat geometries. 91c:83019
- Fukuyama, Takeshi (with Morikawa, Masahiro) Time dependence of the Baum-Hawking mechanism for the vanishing of the cosmological constant. 91d:83061
- Garay, L. J. see Campbell, L. M., 91k:83040
- Gell-Mann, Murray (with Hartle, James B.) Quantum mechanics in the light of quantum cosmology. (see 91m:81004)
- Ghorokha, Karmo Field theory of universes and the cosmological constant. 91m:83045
- Gibbons, Gary W. (with Hartle, James B.) Real tunneling geometries and the large-scale topology of the universe. 91j:83038
- González-Díaz, P. F. The quantum wormhole. 91h:83044
- What is really being lost in wormholes? 91h:83024
- Greenleis, J. Ehrenfest's principle in quantum gravity. 91m:83046
- Griest, Benjamin (with Maharana, Jnanadeva; Sudarsky, Daniel) All orders vertex operators for axionic wormholes. 91g:83031
- Hahbi, Salman (with Laflamme, Raymond) Wigner function and decoherence in quantum cosmology. 91i:83025
- Hájček, Petr Dirac quantisation of systems with quadratic constraints. 91g:83032
- Halliwel, Jonathan J. Derivation of the Wheeler-DeWitt equation from a path integral for minisuperspace models. 91h:83051
- (with Laflamme, Raymond) Conformal scalar field wormholes. 91g:83033

- (with Louko, Jorma) Steepest-descent contours in the path-integral approach to quantum cosmology. I. The de Sitter minisuperspace model. 91a:83038
 - (with Louko, Jorma) Steepest-descent contours in the path-integral approach to quantum cosmology. II. Microsuperspace. 91a:83039
 - (with Myers, Robert C.) Multiple-sphere configurations in the path-integral representation of the wave function of the Universe. 91g:83034
 - (with Hartle, James B.) Integration contours for the no-boundary wave function of the universe. 91d:83062
 - Hartle, James B. Time and prediction in quantum cosmology. 91c:83020
 - see also Halliwell, Jonathan J., 91d:83062; Gibbons, Gary W., 91g:83038 and Gell-Mann, Murray, 91m:81004
 - Hawking, Stephen W. (with Page, Don N.) Spectrum of wormholes. 91i:83026
 - Higuchi, Atsushi see Friedman, John L., 91c:83019
 - Husain, Viqar (with Pullin, Jorge A.) Quantum theory of space-times with one Killing field. 91d:83063
 - Ilieva, N. (with Litov, L.; Pervushin, V. N.) ★ Minimal quantization of linearized gravity. 91j:83039
 - Ivashchuk, V. D. (with Melnikov, V. N.; Zhuk, A. I.) On Wheeler-DeWitt equation in multidimensional cosmology. (Italian and Russian summaries) 91h:83045
 - Jensen, Lars Gerhard see Duncan, M. J., 91h:83043
 - Jo, S.-G. see Aneziris, C.; et al., 91h:83040
 - Kamenichik, A. Yu. see Barvinskii, A. O., 91d:83058
 - Kawai, Hikaru (with Ninomiya, Masao) Renormalization group and quantum gravity. 91e:83055
 - Kiefer, Claus Quantum gravity and Brownian motion. 91e:83056
 - Wave packets in quantum cosmology and the cosmological constant. 91e:83057
 - Interpretation of the decoherence functional in quantum cosmology. 91h:83041
 - Kim, Kee Yong see Ahn, Chang-Jun; et al., 91e:83051
 - Kim, Won Tae see Ahn, Chang-Jun; et al., 91e:83051
 - Kim, Yong Duk see Ahn, Chang-Jun; et al., 91e:83051
 - Klauder, John R. see Navarro-Salas, José, 91h:83043
 - Kodama, Hideo Quantum cosmology in terms of the Wigner function. 91d:83064
 - Holomorphic wave function of the Universe. 91i:83027
 - Kowalski-Glikman, Jerzy (with Vink, Jeroen C.) Gravity-matter mini-superspace: quantum regime, classical regime and in between. 91h:83046
 - Krauss, Lawrence M. Nonclassical hair on black holes. 91a:83040
 - Kuchař, Karel V. (with Ryan, Michael P., Jr.) Is minisuperspace quantization valid? Taub in mixmaster. 91h:83042
 - (with Torre, Charles G.) Gaussian reference fluid and interpretation of quantum geometrodynamics. 91m:83047
 - Kur'min, V. A. see Berezin, V. A.; et al., 91m:83042
 - Lafamme, Raymond see Halliwell, Jonathan J., 91g:83033 and Habib, Salman, 91i:83025
 - Lee, Bum-Hoon (with Nishino, Hitoshi) Wormhole effects on masses of vector and gravitino fields. 91a:83041
 - Lee, Chang-Young (with Ne'eman, Yuval) Renormalization of gauge-affine gravity. 91d:83065
 - Lee, Kimyeong see Coleman, Sidney, 91e:83052
 - Liebcher, Dierck-Ekkehord see Bleyer, Ulrich; et al., 91g:83030
 - Litov, L. see Ilieva, N.; et al., 91j:83039
 - Louko, Jorma (with Ruback, Peter J.) Spatially flat quantum cosmology. 91m:83048
 - Discontinuity in quantum gravity at $\Lambda \rightarrow 0$? 91m:83049
 - see also Halliwell, Jonathan J., 91a:83038 and 91a:83039
 - Maeda, Kei-ichi see Coule, David H., 91c:83017 and Yokoyama, Jun'ichi, 91f:83037
 - Maharana, Jnanadeva see Grinstein, Benjamin; et al., 91g:83031
 - Matsuo, Naoki Einstein gravity as spontaneously broken Weyl gravity. 91d:83066
 - Einstein gravity as spontaneously broken Weyl gravity. 91a:83042
 - Mazur, Pawel O. (with Mottola, Emil) The path integral measure, conformal factor problem and stability of the ground state of quantum gravity. 91i:83028
 - Mazzitelli, Francisco D. (with Rodrigues, Ligia M. C. S.) Quantum instability of Minkowski spacetime. 91j:83040
 - see also Castagnolo, Mario A., 91h:83050
 - McGuigan, Michael Fundamental regions of superspace. 91h:83052
 - Mellor, Felicity (with Moss, Ian) Black holes and gravitational instantons. 91e:83059
 - (with Moss, Ian) Black holes and quantum wormholes. 91e:83058
 - Melnikov, V. N. see Ivashchuk, V. D.; et al., 91h:83045
 - Meyer, David A. see Bombelli, Luca, 91c:83016
 - Miramontes, J. Luis (with Sánchez Guillén, Joaquín; Vozmediano, María A. H.) A quantum mechanical framework for pure two-dimensional gravity. 91j:83041
 - Morikawa, Masahiro see Fukuyama, Takeshi, 91d:83061
 - Moss, Ian (with Poletti, Stephen) Boundary conditions for quantum cosmology. 91f:83032
 - see also Mellor, Felicity, 91e:83058 and 91e:83059
 - Mottola, Emil see Mazur, Pawel O., 91i:83028
 - Myers, Robert C. Baby universes in higher-dimensional theories. 91a:83043
 - Domain walls, wormholes and the cosmological constant. 91a:83044
 - see also Halliwell, Jonathan J., 91g:83034
 - Nakanishi, Noboru Interchanging the roles of spacetime and Faddeev-Popov ghost in quantum Einstein gravity. 91a:83045
 - Navarro-Salas, José (with Klauder, John R.) The affine group model for gravity, revisited. 91h:83043
 - Ne'eman, Yuval see Lee, Chang-Young, 91d:83065
 - Ng, Y. Jack (with van Dam, H.) Possible solution to the cosmological-constant problem. 91f:83033
 - Ninomiya, Masao see Kawai, Hikaru, 91e:83055
 - Nishino, Hitoshi see Lee, Bum-Hoon, 91a:83041
 - Odintsov, S. D. see Buchbinder, I. L.; et al., 91h:83023
 - Padmanabhan, T. (with Singh, Tejinder Pal) On the semiclassical limit of the Wheeler-DeWitt equation. 91h:83053
 - Page, Don N. Is the Universe infinitely old? 91h:83044
 - see also Hawking, Stephen W., 91i:83026
 - Park, Young-Jai see Ahn, Chang-Jun; et al., 91e:83051
 - Perit, Holger (with Pohle, Hans-Jürgen) Wave packets with dissipation in minisuperspace. 91h:83045
 - Pervushin, V. N. see Ilieva, N.; et al., 91j:83039
 - Pohle, Hans-Jürgen see Perit, Holger, 91h:83045
 - Polchinski, Joseph Decoupling versus excluded volume or return of the giant wormholes. 91i:83029
 - Poletti, Stephen see Moss, Ian, 91f:83032
 - Preskill, John Wormholes in spacetime and the constants of nature. 91a:83046
 - Prugovečki, Eduard Geometro-stochastic quantization of gravity. I. 91h:83047
 - Geometro-stochastic quantization of gravity. II. 91h:83048
 - Erratum: "Geometro-stochastic quantization of gravity. I, II" [Found. Phys. Lett. 2 (1989), no. 1, 81–104; MR 91h:83047; ibid. 2 (1989), no. 2, 163–190; MR 91h:83048]. 91h:83049
 - Generally covariant geometro-stochastic quantum gravity. (Italian and Russian summaries) 91c:83021
 - Pullin, Jorge A. see Husain, Viqar, 91d:83063
 - Ragadakis, C. N. A four-dimensional extended conformal model. 91i:83030
 - Ramadas, T. R. see Aneziris, C.; et al., 91h:83040
 - Rayner, D. Hermitian operators on quantum general relativity loop space. 91f:83034
 - A formalism for quantising general relativity using nonlocal variables. 91h:83050
 - Rodrigues, Ligia M. C. S. see Mazzitelli, Francisco D., 91j:83040
 - Rovelli, Carlo (with Smolin, Lee) Loop space representation of quantum general relativity. 91i:83031
 - Time in quantum gravity: an hypothesis. 91j:83042
 - Ruback, Peter J. see Louko, Jorma, 91m:83048
 - Rubakov, V. A. (with Tinyakov, P. G.) Creation of universes in superspace and the problem of a negative cosmological constant. 91f:83035
 - (Ruffini, Remo) see Quantum cosmology, 91i:83033
 - Ryan, Michael P., Jr. see Kuchař, Karel V., 91h:83042
 - Salepek, D. S. (with Bond, J. R.) Nonlinear evolution of long-wavelength metric fluctuations in inflationary models. 91h:83046
 - Sánchez, Norma see de Vega, H. J., (91m:00033)
 - Sánchez Guillén, Joaquín see Miramontes, J. Luis; et al., 91j:83041
 - Schmidt, Hans-Jürgen see Bleyer, Ulrich; et al., 91g:83030
 - Shen, You Gen Quantum cosmology with scalar-spinor interaction field. 91c:83022
 - Singh, Tejinder Pal Gravity induced corrections to quantum mechanical wavefunctions. 91d:83067
 - see also Padmanabhan, T., 91h:83053
 - Smolin, Lee see Rovelli, Carlo, 91i:83031
 - Sorkin, R. D. see Aneziris, C.; et al., 91h:83040
 - Spallucci, Euro see Aurilia, Antonio, 91h:83041
 - Strominger, Andrew Baby universes. (see 91k:81003)
 - Sudarsky, Daniel see Grinstein, Benjamin; et al., 91g:83031
 - Taylor, T. R. (with Veneziano, G.) Quantum gravity at large distances and the cosmological constant. 91g:83035
 - Tinyakov, P. G. see Rubakov, V. A., 91f:83035
 - Tkachev, I. I. see Berezin, V. A.; et al., 91m:83042
 - Toller, M. Maximal acceleration, maximal angular velocity, and causal influence. 91g:83036
 - Torre, Charles G. Perturbations of gravitational instantons. 91h:83047
 - see also Kuchař, Karel V., 91h:83047
 - Unruh, W. G. Time and quantum gravity. 91h:83051
 - de Vega, H. J. (with Sánchez, Norma) Strings and quantum gravity. (see 91m:00033)
 - Veneziano, G. see Taylor, T. R., 91g:83035
 - Venturi, G. Minisuperspace, matter and time. 91g:83037
 - Vink, Jeroen C. see Kowalski-Glikman, Jerzy, 91h:83046
 - Visser, Matt Wormholes, baby universes, and causality. 91f:83036
 - Vozmediano, María A. H. see Miramontes, J. Luis; et al., 91j:83041
 - Yamada, Atsushi Transition amplitudes in $2+1$ -dimensional quantum gravity. 91i:83032
 - Yang, Zhu see Deser, S., 91h:83042
 - Yokoyama, Jun'ichi (with Maeda, Kei-ichi) Quantum cosmological approach to the cosmic no-hair conjecture in the Bianchi type-IX spacetime. 91f:83037
 - York, James W., Jr. see Brown, J. David, 91a:83036
 - Zhuk, A. I. see Bleyer, Ulrich; et al., 91g:83030 and Ivashchuk, V. D.; et al., 91h:83045
- Items listed otherwise than by author
- Quantum cosmology ★ Quantum cosmology. 91i:83033
- Items with secondary classifications in 83C45
- Agishtein, Michael E. (with Migdal, Alexander A.) Recursive sampling of planar graphs and fractal properties of a two-dimensional quantum gravity. 91g:81160
- (with Jacobs, Laurence; Migdal, Alexander A.; Richardson, John L.) Geometric characterization of states in two-dimensional quantum gravity. 91d:81004
- (with Migdal, Alexander A.) Geometry of a two-dimensional quantum gravity: numerical study. 91k:83034
- Ambjær, Jan (with Makeenko, Yu. M.) Properties of loop equations for the Hermitian matrix model and for two-dimensional quantum gravity. 91i:81065
- Anderson, Arlen On predicting correlations from Wigner functions. 91e:81043
- Aneziris, C. (with Balachandran, A. P.; Bourdeau, Michelle Hilda; Jo, S.-G.; Sorkin, R. D.; Ramadas, T. R.) Aspects of spin and statistics in generally covariant theories. 91i:81108
- Ashtekar, Abhay (with Bombelli, Luca; Reula, Oscar A.) The covariant phase space of asymptotically flat gravitational fields. 91m:83037
- Awada, Moustafa A. (with Chamseddine, A. H.) The partition function of two-dimensional quantum gravity. 91d:81115
- Balachandran, A. P. see Aneziris, C.; et al., 91i:81108
- Banks, Thomas (with Lykken, Joseph D.) String theory and two-dimensional quantum gravity. 91c:81093
- (with Douglas, Michael R.; Seiberg, Nathan; Shenker, Stephen H.) Microscopic and macroscopic loops in nonperturbative two-dimensional gravity. 91c:81123

- Baulieu, Laurent (with Bilal, Adel; Picco, Marco) Stochastic quantization of 2D gravity and its link with 3D gravity and topological 4D gravity. 91b:81073
- Berger, B. K. see Matsuki, Takayuki, 91b:83090
- Bilal, Adel see Baulieu, Laurent; et al., 91b:81073
- Bleyer, Ulrich see Treder, Hans-Jürgen, 91c:83031
- Bombelli, Luca see Ashtekar, Abhay; et al., 91m:83037
- Bourdeau, Michelle Hilda see Aneziris, C.; et al., 91c:81108
- (Brandenberger, Robert) see Linde, A. D., 91g:83060
- Calheiros, A. (with Maia, M. D.) A model for two-dimensional gravity. 91b:81124
- Chamseddine, A. H. (with Reuter, M.) Induced two-dimensional quantum gravity and SL(2, R) Kac-Moody current algebra. 91a:81064
- see also Awada, Mustafa A., 91d:81115
- Chapline, George Superstrings and quantum gravity. 91b:81123
- Danielsson, Ulf Three ways of doing 2D quantum gravity. 91m:81238
- Das, Sumit R. (with Dhar, Avinash; Wadia, Spenta R.) Critical behavior in two-dimensional quantum gravity and equations of motion of the string. 91c:81128
- Davidi, François Louis Loop equations and nonperturbative effects in two-dimensional quantum gravity. 91m:81239
- Dhar, Avinash see Das, Sumit R.; et al., 91c:81128
- Dorn, H. (with Otto, H.-J.) On scaling dimensions of vertex operators in conformally gauged 2D quantum gravity. 91b:81126
- Douglas, Michael R. see Banks, Thomas; et al., 91c:81123
- Egorsian, E. S. (with Manvelyan, R. P.) Canonical formulation of 2D induced gravity. (Not in MR)
- Fujiwara, Kunio Point to string transformation, or frame-dependent notion of "locality": an attempt to finitize field theories including gravitation. (Not in MR)
- Fukuyama, Takeshi (with Kanimura, Kiyoshi) Complex action and quantum gravity. 91b:81060
- Gangopadhyay, Debashis Gauge fixing for linearized gravity and antisymmetric tensor fields. 91b:83041
- (Gardner, Martin) see Penrose, Roger, 91c:00010
- Garriga, Jaume (with Verdaguer, Enric) Quantum particles produced during cosmic string formation. (see 91f:83003)
- Gibbons, Gary W. (with Ruiz Ruiz, Fernando; Vachaspati, Tanmay) The nonrelativistic Coulomb problem on a cone. 91d:81155
- Ginsparg, Paul (with Zinn-Justin, J.) 2D gravity + 1D matter. 91c:81134
- Gottlöber, Stefan (with Schmidt, Hans-Jürgen; Starobinskiĭ, A. A.) Sixth-order gravity and conformal transformations. 91b:83077
- Grishchuk, L. P. (with Solokhin, M.) Spectra of relic gravitons and the early history of the Hubble parameter. 91m:83095
- Gross, David J. (with Migdal, Alexander A.) A nonperturbative treatment of two-dimensional quantum gravity. 91b:81078
- Hájček, Petr see Schön, Martin, 91c:58062
- Hawking, Stephen W. Do wormholes fix the constants of nature? 91d:83132
- The arrow of time. (Russian) 91g:83002
- Helayël-Neto, José A. (with Mokhtari, Susan; Smith, A. William) Quantum gravity in two dimensions and the SL(2, R) current algebra. 91f:81185
- Horváth, Zoltán (with Palla, László; Vecsernyés, P.) BRS cohomology and 2d gravity. 91c:81161
- Husain, Viqar (with Kuchař, Karel V.) General covariance, new variables, and dynamics without dynamics. 91b:83005
- Jacobs, Laurence see Agishtein, Michael E.; et al., 91d:81004
- Jo, S.-G. see Aneziris, C.; et al., 91c:81108
- Kanamura, Kiyoshi see Fukuyama, Takeshi, 91b:81060
- Kheifets, Arkady (with LaFave, Norman J.; Miller, Warner Allen) A few insights into the nature of classical and quantum gravity via null-strut calculus. 91d:83047
- Kim, Jewan (with Lee, Taejin) Two-dimensional quantum gravity and anomalous gauge theory. 91m:81252
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) Two-particle scattering in the Chern-Simons-Witten theory of gravity in 2 + 1 dimensions. 91b:81082
- Kuchař, Karel V. see Husain, Viqar, 91b:83005
- LaFave, Norman J. see Kheifets, Arkady; et al., 91d:83047
- Lee, Taejin see Kim, Jewan, 91m:81252
- Li, Xin Zhou (with Zhong, Yu) Wormhole and the dimensionality of spacetime in Einstein-gauge theories. 91g:83056
- Linde, A. D. ★ Inflation and quantum cosmology. 91g:83060
- Low, Robert J. see Madsen, Mark S., 91g:83047
- Lykken, Joseph D. see Banks, Thomas, 91c:81093
- Lyons, Alex Wormholes and effective actions in two dimensions. 91b:81125
- Madsen, Mark S. (with Low, Robert J.) The stability of vacuum solutions in generalised gravity. 91g:83047
- Maeda, Kei-ichi Inflation and cosmic no hair conjecture. 91b:83101
- Maia, M. D. see Calheiros, A., 91b:81124
- Makeenko, Yu. M. see Ambjørn, Jan, 91f:81065
- Manojlovic, N. Alternative loop variables for canonical gravity. 91f:83005
- Erratum: "Alternative loop variables for canonical gravity" [Classical Quantum Gravity 7 (1990), no. 9, 1633-1645; MR 91f:83005]. 91m:83008
- Mansouri, F. see Koehler, Kenneth Rowland; et al., 91b:81082
- Manvelyan, R. P. see Egorsian, E. S., (Not in MR)
- Martin, Stephen P. Observables in 2 + 1-dimensional gravity. 91d:81069
- Matsuki, Takayuki (with Berger, B. K.) Consistent quantization of a plane symmetric cosmology. 91b:83090
- Matsuo, Yutaka Remarks on fractal H -gravity. 91c:81143
- McGuigan, Michael Constraints for toroidal cosmology. 91f:83070
- Mena Marugán, G. A. Classical and quantum Lovelock cosmology. 91b:83075
- Migdal, Alexander A. see Agishtein, Michael E.; et al., 91d:81160; Gross, David J., 91f:81078 and Agishtein, Michael E., 91b:83034
- Miller, Warner Allen see Kheifets, Arkady; et al., 91d:83047
- Mokhtari, Susan see Helayël-Neto, José A.; et al., 91f:81185
- Myers, Robert C. (with Perlmutter, Vipul) Exactly solvable self-dual strings. 91c:81110
- Nelson, J. E. (with Regge, Tullio E.) Homotopy groups and (2 + 1)-dimensional quantum gravity. 91b:81073
- (with Regge, Tullio E.; Zertuche, F.) Homotopy groups and (2 + 1)-dimensional quantum de Sitter gravity. 91m:81171
- Nicolai, H. Noncompact symmetries, extended supergravities and the Wheeler-DeWitt equation. 91b:83096
- Odintsov, S. D. Vilkoviskii effective action in quantum gravity with matter. 91b:83057
- Otto, H.-J. see Dorn, H., 91b:81126
- Palla, László see Horváth, Zoltán; et al., 91c:81161
- Penrose, Roger Fundamental asymmetry in physical laws. 91c:83002
- ★ The emperor's new mind. 91c:00010
- Perlmutter, Vipul see Myers, Robert C., 91c:81110
- Picco, Marco see Baulieu, Laurent; et al., 91b:81073
- Ramadas, T. R. see Aneziris, C.; et al., 91c:81108
- Regge, Tullio E. see Nelson, J. E., 91b:81073 and 91m:81171
- Reutein, Paul Some results of SU(2) spinorial lattice gravity. 91d:83048
- Reula, Oscar A. see Ashtekar, Abhay; et al., 91m:83037
- Reuter, M. see Chamseddine, A. H., 91a:81064
- Richardson, John L. see Agishtein, Michael E.; et al., 91d:81064
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., 91d:81155
- Rylov, Yu. A. Extremal properties of Sygne's world function and discrete geometry. 91b:83036
- Sabra, Wafic A. (with Thomas, Steven) Perturbation in induced two-dimensional quantum gravity. 91b:81081
- (with Thomas, Steven) Perturbing induced quantum supergravity in 1 + 1 dimensions. 91c:83042
- Schmidt, Hans-Jürgen The metric in the superspace of Riemannian metrics and its relation to gravity. 91g:58038
- see also Gottlöber, Stefan; et al., 91b:83077
- Schön, Martin (with Hájček, Petr) Topology of quadratic super-Hamiltonians. 91c:58062
- Seiberg, Nathan see Banks, Thomas; et al., 91c:81123
- Sharatchandra, H. S. Some implications of string theories for classical gravity, quantum gravity and cosmology. 91b:83077
- Shenker, Stephen H. see Banks, Thomas; et al., 91c:81123
- Smith, A. William see Helayël-Neto, José A.; et al., 91f:81185
- (Smorodinskaya, N. Ya.) see Hawking, Stephen W., 91g:83002
- Solokhin, M. see Grishchuk, L. P., 91m:83095
- Sorkin, R. D. see Aneziris, C.; et al., 91c:81108
- Starobinskiĭ, A. A. see Gottlöber, Stefan; et al., 91b:83077
- Takagi, Shin On the detachment of an isolated closed universe by Hawking evaporation. 91d:83073
- Thomas, Steven see Sabra, Wafic A., 91b:81081 and 91c:83042
- Treder, Hans-Jürgen (with Bleyer, Ulrich) Quantum gravodynamics and pregeometry. 91c:83031
- Tseytlin, A. A. Two-dimensional quantum gravity and strings. 91c:81148
- Vachaspati, Tanmay see Gibbons, Gary W.; et al., 91d:81155
- Vaz, Cenalo see Koehler, Kenneth Rowland; et al., 91b:81082
- Vecsernyés, P. see Horváth, Zoltán; et al., 91c:81161
- Verdaguer, Enric see Garriga, Jaume, 91f:83003
- Verlinde, Herman Conformal field theory, two-dimensional quantum gravity and quantization of Teichmüller space. 91c:81149
- Wadia, Spenta R. see Das, Sumit R.; et al., 91c:81128
- Witten, L. see Koehler, Kenneth Rowland; et al., 91b:81082
- Yang, Zhu BRS analysis of 2D gravity models. 91b:81138
- Zertuche, F. see Nelson, J. E.; et al., 91m:81171
- Zhong, Yu see Li, Xin Zhou, 91g:83056
- Zinn-Justin, J. see Ginsparg, Paul, 91c:81134

83C47 Quantum field theory aspects [see also 81T20]

- Balbosunov, M. B. (with Gurovich, V. T.; Imanaliev, U. M.) The early Universe with quantum nonconformal fields. 91b:83052
- Barua, Madhumita see Krüger, K. D.; et al., 91b:83036
- Bordag, M. On the vacuum-interaction of two parallel cosmic strings. (German summary) 91d:83068
- Borghain, P. see Krüger, K. D.; et al., 91b:83036
- Brown, J. David (with Comer, G. L.; Martinez, E. A.; Meised, J.; Whiting, Bernard F.; York, James W., Jr.) Thermodynamic ensembles and gravitation. 91g:83038
- Castagnino, Mario A. (with Ferraro, Rafael) Hamiltonian diagonalization in foliable spacetimes: a method to find the modes. 91f:83038
- (with Sztrajman, Jorge B.) Electromagnetic vacuum for irrotational observers in general foliable spacetimes. 91b:83048
- Chimento, Luis P. Exact solutions of the Einstein equations including quantum effects and cosmological constant. 91d:83069
- (with Jakubi, Alejandro S.; Pensa, Fabián G.) Cosmological solutions of the semiclassical Einstein-Dirac equations. 91d:83070
- Comer, G. L. see Brown, J. David; et al., 91g:83038
- Das, Kanika see Krüger, K. D.; et al., 91b:83036
- Dragliev, V. M. Vacuum polarization for a scalar field in anisotropic multidimensional cosmology. 91b:83034
- Elizalde, E. On the solutions of quantum field equations in curved space-time. 91b:83049
- Ferraro, Rafael see Castagnino, Mario A., 91f:83038
- Frolov, V. P. (with Thorne, Kip S.) Equivalence principle in the quantum domain and quantum effects near a black hole. 91f:83039
- (with Thorne, Kip S.) Renormalized stress-energy tensor near the horizon of a slowly evolving, rotating black hole. 91b:83054
- Fulling, Stephen A. When is stability in the eye of the beholder? Comments on a singular initial-value problem for a nonlinear differential equation arising in semiclassical cosmology. 91b:83035

- Graham, Robert (with Szépfalusy, Péter) Quantum creation of a generic universe. 91h:83053
- Grishchuk, L. P. (with Sidorov, Yuri Vladimirovich) Squeezed quantum states of relic gravitons and primordial density fluctuations. 91h:83043
- Gurovich, V. T. see Balbosunov, M. B.; et al., 91h:83052
- Hortaça, M. Quantum fluctuations in the field of an impulsive spherical gravitational wave. 91f:83040
- Huang, Wang Hong Coleman-Weinberg symmetry breaking in the early Universe with an inhomogeneity. 91j:83044
- Imanaliyev, U. M. see Balbosunov, M. B.; et al., 91h:83052
- Jakubi, Alejandro S. see Chimento, Luis P.; et al., 91d:83070
- Joshi, P. S. Conformal quantisation in singular spacetimes. (see 91k:83003)
- Kaminaga, Yasuhiro "Trace anomaly approach" to black hole evaporation—a critique. 91h:83055
- Kandrup, Henry E. (with Mazur, Pawel O.) A topological Hawking effect. 91h:83056
- Kirsten, Klaus High-temperature expansion in the adiabatic approximation. 91h:83054
- Kroer, K. D. (with Borghain, P.; Barua, Madhumita; Das, Kanika) Quantum-interference effects in some fields. (French summary) 91h:83036
- Li, Yuan Jie A new mechanism of releasing gravitational energy in curved spacetime. (Not in MR)
- Liddle, Andrew R. (with Stephens, C. R.) Vacuum instability near compact stars. 91h:83055
- Linet, Bernard Stationary, cylindrically symmetric sources in the linearized limit of topologically massive gravity. 91j:83045
- Lotze, Karl-Heinz Production of photons in anisotropic spacetimes. 91h:83056
- Madsen, Mark S. The role of Hawking radiation in the inflationary universe. 91h:83057
- Martinez, E. A. see Brown, J. David; et al., 91g:83038
- Mazur, Pawel O. see Kandrup, Henry E., 91h:83056
- Meister, A. Complex manifold methods in quantum field theory in curved space-time. 91h:83050
- Meined, J. see Brown, J. David; et al., 91g:83038
- Mishima, Takashi Hawking effect in the spacetime with a boundary. 91d:83071
- Müller, Volker Zum Einfluß von Vakuum polarisation und nicht-minimaler Kopplung auf die kosmologische Entwicklung. (English summary) [On the influence of vacuum polarization and nonminimal coupling on the cosmological evolution] (see 91h:83002)
- Nakayama, Akihiro Hawking radiation in de Sitter space of arbitrary dimension. 91f:83041
- Odintsov, S. D. Vilkovskii effective action in quantum gravity with matter. 91h:83057
- Padmanabhan, T. see Singh, Tejinder Pal, 91d:83072
- Parón, Diego The generalised second law and extended thermodynamics. 91h:83058
- Pensa, Fabian G. see Chimento, Luis P.; et al., 91d:83070
- Qadir, Asghar (with Siddiqui, Azad A.) On quantum effects near a black-hole singularity. 91c:83060
- Raychandhuri, A. K. Cosmological models and entropy. 91h:83059
- Schücker, Thomas The gravitational cross section of massless particles. 91a:83047
- Siddiqui, Azad A. see Qadir, Asghar, 91c:83060
- Sidorov, Yuri Vladimirovich see Grishchuk, L. P., 91j:83043
- Singh, Tejinder Pal (with Padmanabhan, T.) Notes on semiclassical gravity. 91d:83072
- Stephens, C. R. see Liddle, Andrew R., 91h:83055
- Szépfalusy, Péter see Graham, Robert, 91h:83053
- Sztrajman, Jorge B. see Castagnino, Mario A., 91h:83048
- Takagi, Shin On the detachment of an isolated closed universe by Hawking evaporation. 91d:83073
- Thorne, Kip S. see Frolov, V. P., 91h:83054 and 91f:83039
- Tomozawa, Yukio Exact solution of the quantum Einstein equation and the nature of singularity. 91h:83060
- Uhlmann, Armin Über Klein-Gordon-Teilchen bei Robertson-Walker-Metrik. (English summary) [On Klein-Gordon particles in the Robertson-Walker metric] 91h:83051
- Wang, Hui Yu see Xu, Dian Yan, 91h:83037
- Whiting, Bernard F. Nonclassical geometries in gravitational thermodynamics. 91h:83061
- Black holes and gravitational thermodynamics. 91f:83042
- see also Brown, J. David; et al., 91g:83038
- Xu, Dian Yan (with Wang, Hui Yu) Vacuum polarization energymomentum tensors for scalar field in curved spacetime. 91f:83037
- Hawking radiation of charged Fermi particles in six-dimensional spherically symmetric spacetime. (Not in MR)
- York, James W., Jr. see Brown, J. David; et al., 91g:83038
- Zaslavskii, O. B. Quasiclassical decay width of a metastable state in the Schwarzschild gravitational field. 91f:83043
- Items with secondary classifications in 83C47
- Amendola, Luca (with Litterio, Marco; Occhionero, Franco) The phase-space view of inflation. I. The non-minimally coupled scalar field. 91h:83055
- Anderson, Malcolm R. Invariant length of a cosmic string. 91h:83073
- Anderson, Paul R. (with Hiscock, William A.; Holman, R.) Quantum effects of domain-wall formation in the early Universe. 91d:83128
- Andretsch, J. (with Lämmerzahl, C.) Establishing space-time geometry by means of light rays and particle interferometry. 91c:83008
- Balachandran, A. P. (with Jo, S.-G.; Srivastava, A. M.) What becomes of the vacuum angle in generally covariant gauge theories and the vielbein approach to gravity. 91h:81083
- Banerjee, Narayan (with Malik, S.) Density fluctuation in the de Sitter universe. (Not in MR)
- Barroso, Augusto see Moniz, P.; et al., 91c:81088
- Barvinskii, A. O. (with Vilkovskii, G. A.) Effective equations for expectation values. 91c:81078
- Berezin, V. A. On a quantum mechanical model of a black hole. 91h:83056
- Bonacina, G. (with Gamba, A.; Martellini, M.) A note on the strong coupling regime of two-dimensional quantum gravity. (Not in MR)
- Borghain, P. see Kroer, K. D.; et al., 91g:83042
- Brandt, Friedemann (with Dragon, Norbert; Kreuzer, Maximilian) The gravitational anomalies. 91m:81277
- Bukhbinder, I. L. (with Odintsov, S. D.; Shapiro, I. L.) Renormalization group approach to quantum field theory in curved space-time. 91c:81067
- (with Gitman, D. M.; Fradkin, E. S.) Quantum electrodynamics in curved space-time. (Russian) 91h:81049
- Cal, Y. Q. (with Papini, G.) Applying Berry's phase to problems involving weak gravitational and inertial fields. 91j:81095
- Cocke, W. J. (with Lloyd-Hart, Michael) Fermion wave-mechanical operators in curved space-time. 91f:81123
- Crawford, P. see Moniz, P.; et al., 91c:81088
- Das, Dipali see Kroer, K. D.; et al., 91g:83042
- Douglas, Michael R. (with Seiberg, Nathan; Shenker, Stephen H.) Flow and instability in quantum gravity. 91h:81160
- Dowker, H. F. Electromagnetic wormhole vertex. 91c:83053
- Dowker, J. S. (with Schofield, J. P.) Conformal transformations and the effective action in the presence of boundaries. 91c:81081
- Dragon, Norbert see Brandt, Friedemann; et al., 91m:81277
- Dunning-Davies, J. see Lavenda, B. H., (Not in MR)
- Floreani, Roberto (with Percacci, R.) Topological pregeometry. 91h:81214
- Ford, L. H. (with Roman, Thomas A.) Moving mirrors, black holes, and cosmic censorship. 91d:83093
- Fradkin, E. S. see Bukhbinder, I. L.; et al., 91h:81049
- Frolov, V. P. see Novikov, I. D., 91d:83084 and Ginzburg, V. L., 91g:81098
- Fulling, Stephen A. ★ Aspects of quantum field theory in curved space-time. 91h:81002
- Gaina, A. B. ★ Квантовые частицы в полях Эйнштейна-Максвелла. (Russian) [Quantum particles in Einstein-Maxwell fields] 91a:81148
- Gamba, A. see Bonacina, G.; et al., (Not in MR)
- Ginzburg, V. L. (with Frolov, V. P.) A vacuum in a homogeneous gravitational field and excitation of a uniformly accelerated detector. (Russian) 91g:81098
- Gitman, D. M. see Bukhbinder, I. L.; et al., 91h:81049
- Gross, David J. (with Klebanov, Igor R.) Fermionic string field theory of $c = 1$ two-dimensional quantum gravity. (Not in MR)
- Grove, Peter G. Observations on particle creation by static gravitational fields. 91f:81126
- Günzig, Edgar see Van den Bergh, Norbert; et al., 91g:83014
- Hacyan, S. Quantization of the Dirac field in de Sitter space. (Spanish summary) 91a:81149
- Hill, C. T. see Rester, M., 91f:81129
- Hiscock, William A. Semiclassical gravitational effects around global monopoles. 91h:81112
- see also Andersen, Paul R.; et al., 91d:83128
- Holman, R. see Andersen, Paul R.; et al., 91d:83128
- Iser, K. (with Schmid, Christoph H.; Trugenberg, Carlo A.) Normal-ordering prescription for the energy-momentum tensor of $(1+1)$ -dimensional fermions in curved spacetimes. 91m:81170
- Iyer, Balasubramanian Ramakrishna Quantum field theory in black hole spacetimes. 91c:81084
- Jo, S.-G. see Balachandran, A. P.; et al., 91h:81083
- Kaburaki, Osamu (with Okamoto, Isao) Kerr black holes as a Carnot engine. 91j:83049
- Kaminaga, Yasuhiro A dynamical model of an evaporating charged black hole and quantum instability of Cauchy horizons. 91c:83068
- Kay, Bernard S. (with Wald, Robert M.) Some recent developments related to the Hawking effect. 91c:81086
- Kim, Kee Yong see I'Yi, W. S.; et al., 91m:81300
- Kim, Yong Duk see I'Yi, W. S.; et al., 91m:81300
- (Klein, V. L.) see Novikov, I. D., 91d:83084
- Klebanov, Igor R. see Gross, David J., (Not in MR)
- Kovalyov, Mikhail (with Légaré, M.) The Dirac equation in Robertson-Walker spaces: a class of solutions. 91g:81099
- Kowalski-Glikman, Jerzy (with Vink, Jeroen C.) Gravity-matter mini-superspace: quantum regime, classical regime and in between. 91h:83046
- Kreuzer, Maximilian see Brandt, Friedemann; et al., 91m:81277
- Kroer, K. D. (with Borghain, P.; Das, Dipali) Quantum fluctuations near a black-hole singularity. 91g:83042
- Lämmerzahl, C. see Andretsch, J., 91c:83008
- Lavenda, B. H. (with Dunning-Davies, J.) The essence of the second law is concavity. (Not in MR)
- Légaré, M. see Kovalyov, Mikhail, 91g:81099
- Litterio, Marco see Amendola, Luca; et al., 91h:83055
- Lloyd-Hart, Michael see Cocke, W. J., 91f:81123
- Malik, S. see Banerjee, Narayan, (Not in MR)
- Martellini, M. see Bonacina, G.; et al., (Not in MR)
- Meller, Felicity (with Moss, Ian) Black holes and gravitational instantons. 91c:83059
- (with Moss, Ian) Black holes and quantum wormholes. 91c:83058
- Moniz, P. (with Crawford, P.; Barroso, Augusto) Spontaneous symmetry breaking in curved spacetime. 91c:81088
- Moss, Ian see Meller, Felicity, 91c:83058 and 91c:83059
- Nakamura, Takashi see Sasaki, Miao, 91h:83062
- Nardone, Pascal see Van den Bergh, Norbert; et al., 91g:83014
- Novikov, I. D. (with Frolov, V. P.) ★ Physics of black holes. 91d:83084
- Occhionero, Franco see Amendola, Luca; et al., 91h:83055
- Odintsov, S. D. see Bukhbinder, I. L.; et al., 91h:81049
- Okamoto, Isao see Kaburaki, Osamu, 91j:83049
- Padmanabhan, T. (with Singh, Tejinder Pal) On the semiclassical limit of the Wheeler-DeWitt equation. 91h:83053
- Panchapakesan, N. Quantum field theory in curved space time. 91f:81128
- Papini, G. see Cal, Y. Q., 91j:81095
- Park, Young-Jai see I'Yi, W. S.; et al., 91m:81300
- Percacci, R. see Floreani, Roberto, 91h:81214
- Pohle, Hans-Jürgen Triviality of \mathcal{L}_p^4 theory in $3+1$ -dimensional spatially flat Robertson-Walker space in Gaussian approximation. 91h:81103
- Polarski, David Massive scalar field on the static de Sitter space. 91a:81152

- Papova, A. D. Nonlinear quantum mechanics with nonclassical gravitational self-interaction. 91a:81153
- Renter, M. (with Hill, C. T.) Moving mirrors in Schrödinger picture. 91f:81129
- Roman, Thomas A. *see* Ford, L. H., 91d:83093
- Russo, Jorge G. 2D induced quantum gravity and topological phase of the Thirring model. 91i:81088
- Sasaki, Misao (with Nakamura, Takashi) Gravitational radiation from an extreme Kerr black hole. 91h:83062
- Schmid, Christoph H. *see* Isler, K.; et al., 91m:81170
- Schofield, J. P. *see* Dowker, J. S., 91c:81081
- Selberg, Nathan *see* Douglas, Michael R.; et al., 91h:81160
- Shapiro, I. L. *see* Buchbinder, I. L.; et al., 91e:81067
- Shenker, Stephen H. *see* Douglas, Michael R.; et al., 91h:81160
- Singh, Tejinder Pal *see* Padmanabhan, T., 91h:83053
- Srivastava, A. M. *see* Balachandran, A. P.; et al., 91h:81083
- Tadaki, Shin-ichi (with Takagi, Shin) Quantum field theory in two-dimensional Schwarzschild-de Sitter spacetime. I. Empty space. 91h:81104
- (with Takagi, Shin) Quantum field theory in two-dimensional Schwarzschild-de Sitter spacetime. II. Space with a collapsing star. 91h:81105
- Takagi, Shin *see* Tadaki, Shin-ichi, 91h:81104 and 91h:81105
- Tomerawa, Yukio Black hole oscillation: quantum effects on gravity and the nature of black holes. 91c:83024
- Trugenberger, Carlo A. *see* Isler, K.; et al., 91m:81170
- Turyan, Michael The graviton propagator in maximally symmetric spaces. 91k:81113
- Van den Bergh, Norbert (with Gunzig, Edgar; Nardone, Pascal) Exact radiative solutions for conformally invariant fields on a conformally flat background. 91g:83014
- Vilkoviskii, G. A. *see* Barvinskii, A. O., 91c:81078
- Vink, Jeroen C. *see* Kowalski-Glikman, Jerzy, 91h:83046
- Wald, Robert M. *see* Kay, Bernard S., 91c:81086
- (Yankovskii, E. M.) *see* Novikov, I. D., 91d:83084
- Yi, W. S. (with Kim, Kee Yong; Park, Young-Jai; Kim, Yong Duk) Gravitational anomaly and gauged BRST symmetry. 91m:81300

83C50 Electromagnetic fields

- Accioly, A. J. (with Wichoski, U. F.) Pseudogravitational non-minimally coupled theories. 91h:83062
- Crapi, Giovanni General remarks on the relative formulation of electrodynamics in general relativity. (Italian) 91h:83063
- Helliwell, T. M. (with Konkowski, D. A.) Electromagnetic fields in Khan-Penrose spacetime. 91h:83058
- Herdegen, Andrzej Reduction of Maxwell equations in the compacted spin coefficient formalism and multipole fields. 91a:83048
- Hewler, Markus (with Kiefer, Claus; Straumann, Norbert) Self-energy of a thin charged shell in general relativity. 91i:83038
- Kiefer, Claus *see* Hewler, Markus; et al., 91i:83038
- Konkowski, D. A. *see* Helliwell, T. M., 91h:83058
- Kozameh, Carlos N. (with Ortiz, Omar; Newman, Ezra T.) Maxwell fields on asymptotically simple space-times. 91e:83061
- Mekhlisvili, M. R. Metric properties for generalized radiating Bertotti-Robinson spaces. (Russian and Georgian summaries) 91i:83039
- Newman, Ezra T. *see* Kozameh, Carlos N.; et al., 91e:83061
- Ortiz, Omar *see* Kozameh, Carlos N.; et al., 91e:83061
- Peng, Huel A new approach to studying local gravitomagnetic effects on a superconductor. 91a:83049
- Piazzese, F. (with Rizzi, G.) Self-interaction of a point charge in a Kerr spacetime. 91m:83050
- Pokharial, G. P. Electromagnetic tensor field structures. 91d:83074
- Rizzi, G. *see* Piazzese, F., 91m:83050
- Straumann, Norbert *see* Hewler, Markus; et al., 91i:83038
- Wallace, G. (with Zund, J. D.) Electromagnetic theory in general relativity. VII. The super-energy tensor. 91m:83051
- Wichoski, U. F. *see* Accioly, A. J., 91h:83062
- Zund, J. D. *see* Wallace, G., 91m:83051

Items with secondary classifications in 83C50

- Abd Elwah, Y. A. A charged particle in the Gödel universe unified by a magnetic field. 91m:83009
- Banerjee, Asit Kumar *see* Chatterjee, Sujit; et al., 91h:83014
- Bhui, B. *see* Chatterjee, Sujit; et al., 91h:83014
- Bitis, Gr. Operators and Maxwell equations in semi-Riemannian manifolds with torsion. 91a:83087
- Burnett, Gregory A. (with Wald, Robert M.) A conserved current for perturbations of Einstein-Maxwell space-times. 91h:83035
- Carminati, J. Type D perfect-fluid spacetimes with a nonnull electromagnetic field. I. 91k:83031
- Castagnino, Mario A. (with Sotrajman, Jorge B.) Electromagnetic vacuum for irrotational observers in general foliable spacetimes. 91k:83048
- Chatterjee, Sujit (with Bhui, B.; Banerjee, Asit Kumar) Higher-dimensional Vaidya metric with an electromagnetic field. 91h:83014
- Dadhich, Naresh *see* Wagh, Sanjay M., 91d:83089
- Dray, Tevian Bouncing shells. 91f:83013
- Fayos, F. (with Ferrando, Joan Josep; Jaén, X.) Electromagnetic and gravitational perturbation of type D space-times. 91h:83013
- Ferrando, Joan Josep *see* Fayos, F.; et al., 91h:83013
- Griffiths, J. B. Colliding plane gravito-electromagnetic waves. 91e:83045
- Glven, R. Hertz potentials in higher dimensions. 91h:83085
- Horsky, Jan (with Mitskevich, N. V.) Generalised Kramer's metric. 91e:83025
- Jaén, X. *see* Fayos, F.; et al., 91h:83013

- López Lacasta, Carlos Geometry of rotating charged bubbles in general relativity. 91d:83022
- Mitskevich, N. V. *see* Horsky, Jan, 91e:83025
- Mohanty, Ganeshwar (with Pattanaik, R. R.) Cosmological mass model in general relativity. 91a:83020
- (with Panigrahi, U. K.) Axially symmetric Einstein-Maxwell and scalar fields with self gravitating stiff fluid. 91e:83040
- Nikishov, A. I. (with Ritus, V. I.) Gravitational radiation from electromagnetic systems. 91a:83031
- Panigrahi, U. K. *see* Mohanty, Ganeshwar, 91e:83040
- Pattanaik, R. R. *see* Mohanty, Ganeshwar, 91a:83020
- Rey, Soo-Jong Space-time wormholes with Yang-Mills fields. 91f:81130
- Ritus, V. I. *see* Nikishov, A. I., 91a:83031
- Steele, J. D. On homogeneous pure radiation fields. 91a:83023
- Sotrajman, Jorge B. *see* Castagnino, Mario A., 91k:83048
- Wagh, Sanjay M. (with Dadhich, Naresh) The energetics of black holes in electromagnetic fields by the Penrose process. 91d:83089
- Wald, Robert M. *see* Burnett, Gregory A., 91h:83035

83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)

- Aspekar, G. G. *see* Surve, G. P., (Not in MR)
- Bruni, Marco *see* Ellis, George F. R.; et al., 91c:83062
- Caricato, G. On the fundamental equation of the relativistic mechanics of a continuous system. (Italian summary) 91d:83075
- Carminati, J. Shear-free perfect fluids in general relativity. II. Aligned, Petrov type III space-times. 91k:83052
- Coll, Bartolomé (with Ferrando, Joan Josep) Thermodynamic perfect fluid. Its Rainich theory. 91h:83040
- Di Prisco, A. *see* Herrera, Luis; et al., 91m:83052
- Dubal, Mark R. A particle-grid method for general relativistic hydrodynamics. I. Formalism and test applications. 91k:83053
- Ellis, George F. R. (with Bruni, Marco; Hwang, Jai-chen) Density-gradient-vorticity relation in perfect-fluid Robertson-Walker perturbations. 91e:83062
- Feinstein, Alexander (with MacCallum, Malcolm A. H.; Senovilla, José M. M.) On the ambiguous evolution and the production of matter in spacetimes with colliding waves. 91c:83023
- Ferrando, Joan Josep (with Morales, Juan Antonio; Portilla, Miquel) The energy-momentum tensor of two perfect fluids. (see 91i:83063)
- (with Morales, Juan Antonio; Portilla, Miquel) Two-perfect fluid interpretation of an energy tensor. 91g:83039
- *see also* Coll, Bartolomé, 91h:83040
- Geroch, Robert (with Lindblom, Lee) Dissipative relativistic fluid theories of divergence type. 91d:83076
- Giambò, S. (with Palumbo, A.) Barometric formulas for a heat conducting relativistic fluid. (Italian summary) 91c:83024
- Górnica, Agnieszka *see* Kijowski, Jerzy; et al., 91b:83064
- Gou, Hong Jun *see* Wang, Yong Jin, 91e:83066
- Hehl, Friedrich W. (with Mielke, Eckehard W.) Improved expressions for the energy-momentum current of matter. 91f:83044
- Herrera, Luis (with Ibáñez, J.; Di Prisco, A.) Shear as a source of inhomogeneity in general relativistic stellar models. 91m:83052
- *see also* Martí, José Ma.; et al., 91d:83078
- Hiscock, William A. *see* Olson, Timothy S., 91e:83064 and 91m:83053
- Hwang, Jai-chen *see* Ellis, George F. R.; et al., 91e:83062
- Ibáñez, J. *see* Herrera, Luis; et al., 91d:83078
- Ibáñez Cabanell, J. M. *see* Martí, José Ma.; et al., 91d:83078
- Kijowski, Jerzy (with Smólski, Adam; Górnica, Agnieszka) Hamiltonian theory of self-gravitating perfect fluid and a method of effective deparametrization of Einstein's theory of gravitation. 91h:83064
- Knutson, Henning Solutions for static gas spheres in general relativity. 91d:83077
- A comment on an exact solution with a stiff equation of state. 91e:83063
- Kroll, P. An approach to spherically symmetric perfect fluid solution in general relativity using thin layers. (Not in MR)
- Lindblom, Lee *see* Geroch, Robert, 91d:83076
- MacCallum, Malcolm A. H. *see* Feinstein, Alexander; et al., 91c:83023
- Martí, José Ma. (with Miralles, Juan A.; Ibáñez Cabanell, J. M.; Herrera, Luis) The nonadiabatic general-relativistic stellar oscillations. 91d:83078
- Meier, Wolfgang On vectorial irreversible processes in homogeneous isotropic cosmological models. 91h:83059
- Mielke, Eckehard W. *see* Hehl, Friedrich W., 91f:83044
- Miralles, Juan A. *see* Martí, José Ma.; et al., 91d:83078
- Morales, Juan Antonio *see* Ferrando, Joan Josep; et al., 91g:83039 and (91i:83063)
- Neugebauer, Gernot Newtonian minimal surfaces of rotating bodies. 91i:83046
- Olson, Timothy S. Stability and causality in the Israel-Stewart energy frame theory. 91k:83054
- (with Hiscock, William A.) Plane steady shock waves in Israel-Stewart fluids. 91m:83053
- (with Hiscock, William A.) Stability, causality, and hyperbolicity in Carter's "regular" theory of relativistic heat-conducting fluids. 91e:83064
- Palumbo, A. *see* Giambò, S., 91c:83024
- Portilla, Miquel *see* Ferrando, Joan Josep; et al., 91g:83039 and (91i:83063)
- Raigorodskii, L. D. A dustlike matter in the curved space-time. (Not in MR)
- Raja, C. K. Distributional matter tensors in relativity. 91f:83045
- Schäfer, Gerhard Reduced Hamiltonian formalism for general-relativistic adiabatic fluids and applications. 91e:83065
- Schröter, Joachim Some remarks concerning relativistic kinetic theory. 91g:83040
- Senovilla, José M. M. *see* Feinstein, Alexander; et al., 91c:83023
- Smólski, Adam *see* Kijowski, Jerzy; et al., 91b:83064

- Surve, G. P. (with Asgekar, G. G.) The conformal Killing vectors in relativistic magnetohydrodynamics. (Not in MR)
 Wang, Yong Jiu (with Guo, Hong Jun) Magnetohydrodynamic equations in general relativity and their solutions. (Chinese) 91e:83066

Items with secondary classifications in 83C55

- Ball, Raj (with Tyagi, Atul) A plane-symmetric inhomogeneous cosmological model of perfect fluid distribution with electromagnetic field. 91e:83010
 Banerjee, Asit Kumar (with Dutta Choudhury, S. B.) Viscous fluid universe with cosmological constant. 91b:83012
 Barilaro, M. (with Giambò, S.) Sur la dynamique relativiste d'un fluide magnétisable. (English and Italian summaries) [On the relativistic dynamics of a magnetizable fluid] (Not in MR)
 Berman, Marcelo Samuel see Som, M. M., 91h:83024
 Blech, T. (with Das, Anadijiban) On exact-shearing perfect-fluid solutions of the nonstatic spherically symmetric Einstein field equations. (French summary) 91k:83011
 Carminati, J. Petrov type III, shear-free, perfect fluid space-times in general relativity. 91b:83024
 Chinea, F. J. (with González-Romero, L. M.) Interior gravitational field of a stationary, axially symmetric perfect fluid in irrotational motion. 91d:83016
 Das, Anadijiban see Blech, T., 91k:83011
 Davidson, W. A solution for a family of perfect fluid cylinders in general relativity. 91d:83018
 Deng, Yaobing (with Mannheim, Philip D.) Shear-free spherically symmetric inhomogeneous cosmological model with heat flow and bulk viscosity. 91e:83022
 Durgapal, M. C. see Negi, P. S.; et al., 91d:83134
 Dutta Choudhury, S. B. see Banerjee, Asit Kumar, 91b:83012
 García Díaz, Alberto Stationary axisymmetric interior metric for a charged perfect fluid source. 91k:83014
 Giambò, S. (with Valenti, Giovanna) Isometric motions of a relativistic simple fluid. 91a:76091
 — see also Barilaro, M., (Not in MR)
 Glass, E. N. A spherical collapse solution with neutrino outflow. 91g:83012
 González-Romero, L. M. see Chinea, F. J., 91d:83016
 Grosso, Roberto (with Stephani, Hans) Bianchi types of Lie point symmetries arising for differentially rotating stationary axisymmetric fluids. 91j:83035
 Huang, Wang Hong Anisotropic cosmological models with energy density dependent bulk viscosity. 91g:83016
 Kopper, Sharda S. (with Patel, L. K.) A rotating Bianchi type II viscous fluid cosmological model with heat flux. (Not in MR)
 Ladino Luna, Delfino Spacetime of class one with perfect fluid. (Spanish. English summary) (Not in MR)
 Mannheim, Philip D. see Deng, Yaobing, 91e:83022
 Mészáros, M. see Molnár, P., 91i:83057
 Molnár, P. (with Mészáros, M.) Dissipative model of the universe. (German summary) 91i:83057
 Muscato, Orazio Simple wave solutions for a radiation-dominated magnetofluid. 91j:76078
 Negi, P. S. (with Pande, A. K.; Durgapal, M. C.) A core-envelope massive distribution with a parabolic density distribution in the core. 91d:83134
 Ori, Amos The general solution for spherical charged dust. 91d:83040
 Pande, A. K. see Negi, P. S.; et al., 91d:83134
 Pandya, Bharat M. see Patel, L. K., 91d:83025
 Patel, L. K. (with Pandya, Bharat M.) Some rotating Bianchi type II cosmologies with heat flow. 91d:83025
 — see also Kopper, Sharda S., (Not in MR)
 Reay, Iac. A propos de la conjecture de la balle liquide en relativité générale. [On the liquid-sphere conjecture in general relativity] 91d:83010
 Som, M. M. (with Berman, Marcelo Samuel) de Sitter phase in conformally flat spacetime. 91h:83024
 Stephani, Hans see Grosso, Roberto, 91j:83035
 Tyagi, Atul see Ball, Raj, 91i:83010
 Uggla, Claes (with von Zur-Mühlen, Hans) Compactified and reduced dynamics for locally rotationally symmetric Bianchi type IX perfect fluid models. 91d:83037
 Valenti, Giovanna see Giambò, S., 91a:76091
 Zimdahl, W. Relativistic stochastic Boltzmann equation and fluctuations in general relativity. 91e:82060
 von Zur-Mühlen, Hans see Uggla, Claes, 91d:83037

83C57 Black holes

- Barrabès, C. (with Israel, Werner; Poisson, Eric) Collision of light-like shells and mass inflation in rotating black holes. 91h:83055
 Berezin, V. A. On a quantum mechanical model of a black hole. 91k:83056
 Binó, Piotr Colored black holes. 91d:83079
 Borghain, P. see Krüsi, K. D.; et al., 91g:83042
 Bowick, Mark J. Axionic black holes and wormholes. 91h:83065
 Braden, Harry W. (with Brown, J. David; Whiting, Bernard F.; York, James W., Jr.) Charged black hole in a grand canonical ensemble. 91j:83047
 Brown, J. David see Braden, Harry W.; et al., 91j:83047
 Campbell, Bruce A. (with Duncan, M. J.; Kaloper, Nemanja; Olive, Keith A.) Axion hair for Kerr black holes. 91h:83060
 Dadhich, Naresh see Wagh, Sanjay M., 91d:83089
 Das, Dipali see Krüsi, K. D.; et al., 91g:83042
 Davies, P. C. W. Thermodynamic phase transitions of Kerr-Newman black holes in de Sitter space. 91e:83067
 Deng, Kai (with Liang, Can Bin) The topological anomaly in the spacetime of two Schwarzschild black holes. (Chinese. English summary) 91d:83080
 — (with Liang, Can Bin) The singularity in the overlapping region in spacetime of two Schwarzschild black holes. (Chinese. English summary) 91h:83061
 (DeWitt-Morette, Cécile) see Futterman, J. A. H.; et al., 91d:83081
 Duncan, M. J. see Campbell, Bruce A.; et al., 91h:83060
 Ebert, R. New solutions for black holes. 91h:83066
 Eisenstaedt, J. Dark body and black hole horizons. (Not in MR)
 Ferrari, Valeria (with Xanthopoulos, Basilis C.) Can black holes support a gravitating massive scalar field? 91j:83048
 Frauendiener, Jörg (with Hoenselaers, C.; Konrad, W.) A shell around a black hole. 91h:83067
 Frolov, V. P. see Novikov, I. D., 91d:83084
 Futterman, J. A. H. (with Handler, F. A.; Matzner, R. A.) ★ Scattering from black holes. 91d:83081
 Galtsov, D. V. see Volkov, M. S., 91d:83088
 Gorini, Vittorio (with Grillo, Gabriele; Pelizza, Mauro) Black holes in Tolman-Bondi spacetimes. 91c:83025
 Grillo, Gabriele see Gorini, Vittorio; et al., 91c:83025
 Grøn, Øyvind (with Soleng, Harald H.) Dynamical instability of the González-Díaz black hole model. 91d:83082
 Gurin, V. S. (with Trofimenko, A. P.) White holes in Kaluza-Klein theory: windows from higher dimensions. 91g:83041
 Handler, F. A. see Futterman, J. A. H.; et al., 91d:83081
 Hawking, Stephen W. Gravitational radiation from collapsing cosmic string loops. 91f:83046
 Hayward, Geoff (with Pavón, Diego) Primordial black holes and FRW cosmology. (see 91i:83003)
 Hoenselaers, C. see Frauendiener, Jörg; et al., 91h:83067
 Israel, Werner see Poisson, Eric, 91d:83085; 91d:83086; 91e:83071 and Barrabès, C.; et al., 91i:83055
 Kaburaki, Osamu (with Okamoto, Isao) Kerr black holes as a Carnot engine. 91j:83049
 Kaloper, Nemanja see Campbell, Bruce A.; et al., 91h:83060
 Kaminaga, Yasuhiro A dynamical model of an evaporating charged black hole and quantum instability of Cauchy horizons. 91e:83068
 (Klein, V. L.) see Novikov, I. D., 91d:83084
 Konrad, W. see Frauendiener, Jörg; et al., 91h:83067
 Krauss, Lawrence M. see Preskill, John, 91m:83056
 Krüsi, K. D. (with Borghain, P.; Das, Dipali) Quantum fluctuations near a black-hole singularity. 91g:83042
 Leaver, Edward W. Quasinormal modes of Reissner-Nordström black holes. 91d:83083
 Lee, Seng Chye (with Shiekh, A. Y.) Information loss down a black hole. 91m:83054
 Liang, Can Bin see Deng, Kai, 91d:83080 and 91h:83061
 Matzner, R. A. see Futterman, J. A. H.; et al., 91d:83081
 Mellor, Felicity (with Moss, Ian) Stability of black holes in de Sitter space. 91e:83069
 Metzen, William E. Appearance of distant objects to an observer in a charged-black-hole spacetime. 91e:83070
 Mitskevich, N. V. (with Nesterov, A. I.) An invariant criterion of proximity to the horizon of a black hole. 91m:83055
 Moss, Ian see Mellor, Felicity, 91e:83069
 Nakamura, Takashi see Sasaki, Misao, 91h:83062
 Nesterov, A. I. see Mitskevich, N. V., 91m:83055
 Novikov, I. D. (with Frolov, V. P.) ★ Physics of black holes. 91d:83084
 Okamoto, Isao see Kaburaki, Osamu, 91j:83049
 Olive, Keith A. see Campbell, Bruce A.; et al., 91h:83060
 Pavón, Diego see Hayward, Geoff, (91i:83003)
 Pelizza, Mauro see Gorini, Vittorio; et al., 91c:83025
 Poisson, Eric (with Israel, Werner) Eschatology of the black hole interior. 91d:83085
 — (with Israel, Werner) Inner-horizon instability and mass inflation in black holes. 91d:83086
 — (with Israel, Werner) Internal structure of black holes. 91e:83071
 — see also Barrabès, C.; et al., 91i:83055
 Preskill, John (with Krauss, Lawrence M.) Local discrete symmetry and quantum-mechanical hair. 91m:83056
 Qadir, Asghar Black holes in closed universes. 91d:83087
 Qin, Yuan Xun Problem of mathematical deduction of the existence of black holes. 91a:83050
 Sakina, Ken-ichi The motion of a gyroscope freely falling into a Schwarzschild black hole. 91j:83050
 Sasaki, Misao (with Nakamura, Takashi) Gravitational radiation from an extreme Kerr black hole. 91h:83062
 Shiekh, A. Y. see Lee, Seng Chye, 91m:83054
 Soleng, Harald H. see Grøn, Øyvind, 91d:83082
 Tomozawa, Yukio Black hole oscillation: quantum effects on gravity and the nature of black holes. 91c:83026
 Trofimenko, A. P. see Gurin, V. S., 91g:83041
 Volkov, M. S. (with Galtsov, D. V.) Black holes in Einstein-Yang-Mills theory. 91d:83088
 Wagh, Sanjay M. (with Dadhich, Naresh) The energetics of black holes in electromagnetic fields by the Penrose process. 91d:83089
 Weinstein, Gilbert On rotating black holes in equilibrium in general relativity. 91h:83063
 Whiting, Bernard F. The black hole stability problem. 91d:83090
 — see also Braden, Harry W.; et al., 91j:83047
 Xanthopoulos, Basilis C. see Ferrari, Valeria, 91j:83048
 (Yankovskii, E. M.) see Novikov, I. D., 91d:83084
 York, James W., Jr. see Braden, Harry W.; et al., 91j:83047
 Yu, Yun Qiang On the nonsingular spherical black hole. (Italian summary) 91j:83051

Items with secondary classifications in 83C57

- Abramyan, S. M. (with Gutsunaev, Ts. I.) A class of asymptotically flat solutions of the static Einstein-Maxwell equations. 91e:83035
 Borghain, P. see Krüsi, K. D.; et al., 91g:83042
 Das, Kanika see Krüsi, K. D.; et al., 91g:83042
 Ford, L. H. (with Roman, Thomas A.) Moving mirrors, black holes, and cosmic censorship. 91d:83093

- Prolov, V. P. (with Thorne, Kip S.) Equivalence principle in the quantum domain and quantum effects near a black hole. 91f:83039
 — (with Thorne, Kip S.) Renormalized stress-energy tensor near the horizon of a slowly evolving, rotating black hole. 91b:83054
 Grishchak, L. P. (with Sidorov, Yuri Vladimirovich) Squeezed quantum states of relic gravitons and primordial density fluctuations. 91f:83043
 Gutsmann, Ts. I. see Abramyan, S. M., 91e:83035
 't Hooft, G. The black hole interpretation of string theory. 91e:83089
 Kaminaga, Yasuhito "Trace anomaly approach" to black hole evaporation—a critique. 91b:83055
 Korotkin, D. A. (with Matveev, V. B.) Algebraic-geometric solutions of gravitation equations. 91g:83021
 Krori, K. D. (with Borghain, P.; Das, Kanika) Higher-dimensional Florides-like solution with cosmological constant. 91b:83088
 Matveev, V. B. see Korotkin, D. A., 91g:83021
 Mellor, Felicity (with Moss, Ian) Black holes and gravitational instantons. 91e:83059
 — (with Moss, Ian) Black holes and quantum wormholes. 91e:83058
 Moss, Ian see Mellor, Felicity, 91e:83058 and 91e:83059
 Petrov, Aleksandr Nikolaevich New harmonic coordinates for the Schwarzschild geometry. 91j:83014
 Qadir, Asghar (with Siddiqui, Azad A.) On quantum effects near a black-hole singularity. 91e:83060
 Roman, Thomas A. see Ford, L. H., 91d:83093
 Sharatchandra, H. S. Some implications of string theories for classical gravity, quantum gravity and cosmology. 91h:83077
 Siddiqui, Azad A. see Qadir, Asghar, 91e:83060
 Sidorov, Yuri Vladimirovich see Grishchak, L. P., 91f:83043
 Thorne, Kip S. see Prolov, V. P., 91b:83054 and 91f:83039
 Whiting, Bernard F. Black holes and gravitational thermodynamics. 91f:83042

83C60 Spinor and twistor methods

- Ashtekar, Abhay (with Romano, Joseph D.; Tate, Ranjeet S.) New variables for gravity: inclusion of matter. 91d:83091
 Capovilla, Riccardo (with Jacobson, Ted; Dell, John) General relativity without the metric. 91e:83072
 Chinea, F. J. Clifford algebra approach to gravitation: applications to symmetries and to twisting, type- N fields. 91m:83057
 Dell, John see Capovilla, Riccardo; et al., 91e:83072
 Fraundt, Jörg Geometric description of energy-momentum pseudotensors. 91e:83073
 Jacobson, Ted see Capovilla, Riccardo; et al., 91e:83072
 Keller, Jaime Spinors and multivectors as a unified tool for spacetime geometry and for elementary particle physics. 91m:83058
 Low, Robert J. Twistor linking and causal relations. 91f:83041
 Merkulov, S. A. Superconformally flat superspace. 91c:83027
 Romano, Joseph D. see Ashtekar, Abhay; et al., 91d:83091
 Sardanashvili, G. A. see Zakharov, O. A., 91c:83028
 Tate, Ranjeet S. see Ashtekar, Abhay; et al., 91d:83091
 Villalba, Víctor M. Exact solution of the Dirac equation in a reducible Einstein space. 91k:83057
 Zakharov, O. A. (with Sardanashvili, G. A.) The Higgs property of a gravitational field. 91c:83028

Items with secondary classifications in 83C60

- Bailey, T. N. Some geometry associated with the Einstein bundle. 91b:32033
 — see also *Twistors in mathematics and physics*, 91k:32033
 Bandos, I. A. (with Zheltukhin, A. A.) Twistors, harmonics, and zero-super- p -branes. 91h:81163
 (Baston, R. J.) see *Twistors in mathematics and physics*, 91k:32033
 Bengtsson, Ingemar (with Pedázar, Peter) Ashtekar's variables, the θ -term, and the cosmological constant. 91g:83007
 Bonanos, S. The vacuum Einstein equations as closed ideals of matrix-valued differential forms. 91k:83008
 Buchdahl, H. A. On a modification of the spinor calculus of Infeld and van der Waerden. 91e:53031
 Capovilla, Riccardo (with Dell, John; Jacobson, Ted) A pure spin-connection formulation of gravity. 91m:83005
 Crawford, J. P. Bispinor geometry for even-dimensional space-time. 91h:81053
 Crichton, James H. (with Medina, Thomas J.) Spin matrices for gravitons and the Hubble decomposition of the angular momentum of gravitational radiation in the linearized theory. 91b:83039
 Dell, John see Capovilla, Riccardo; et al., 91m:83005
 Deser, S. (with Yang, Zhu) Inconsistency of spin 4-spin 2 gauge field couplings. 91h:81110
 Fukuyama, Takeshi see Kamimura, Kiyoshi, 91c:83001
 Goldberg, Joshua N. Conserved quantities at spatial and null infinity: the Penrose potential. 91c:83015
 Herdegen, Andrzej Reduction of Maxwell equations in the compacted spin coefficient formalism and multipole fields. 91a:83048
 Holm, Christian Erratum: "The hyperspin structure of unitary groups" [J. Math. Phys. 29 (1988), no. 4, 978–986; MR 90b:83081]. 91a:83080
 Jacobson, Ted see Capovilla, Riccardo; et al., 91m:83005
 Kalnins, E. G. (with Miller, Willard, Jr.; Williams, Graeme C.) Killing-Yano tensors and variable separation in Kerr geometry. 91a:83033
 Kamimura, Kiyoshi (with Fukuyama, Takeshi) Ashtekar's formalism in first-order tetrad form. 91c:83001
 Kodama, Hideo see Seria, Masafumi, 91b:83007
 Lahiri, Daksh On general "spin" connections, gravitation and electrodynamics. 91a:53110
 Low, Robert J. The causal geometry of twistor space. 91a:53111
 Ludwig, Garry Algebraically special spacetimes. 91b:83031
 Medina, Thomas J. see Crichton, James H., 91b:83039

- Miller, Willard, Jr. see Kalnins, E. G.; et al., 91a:83033
 Park, Q-Han Self-dual gravity as a large- N limit of the 2D nonlinear sigma model. 91f:83029
 Parra, Josep Manel Why do spinors appear in relativity? 91m:15040
 Pedázar, Peter see Bengtsson, Ingemar, 91g:83007
 Seria, Masafumi (with Kodama, Hideo) New canonical formulation of the Einstein theory. 91b:83007
 Ward, R. S. (with Wells, Raymond O., Jr.) ★ Twistor geometry and field theory. 91b:32034
 Wells, Raymond O., Jr. see Ward, R. S., 91b:32034
 Williams, Graeme C. see Kalnins, E. G.; et al., 91a:83033
 Wils, Patrick A class of exact solutions of the Einstein-Dirac equations. 91k:83019
 Yang, Zhu see Deser, S., 91h:81110
 Zheltukhin, A. A. see Bandos, I. A., 91h:81163

Items listed otherwise than by author

Twistors in mathematics and physics ★ Twistors in mathematics and physics. 91k:32033

83C75 Space-time singularities, cosmic censorship, etc.

- Bizon, Piotr (with Malec, Edward; Ó Murchadha, Niall) The trapped surface conjecture in spherically symmetric geometries. 91b:83068
 Castejón-Amendó, José (with MacCallum, Malcolm A. H.; Man'ko, V. S.) On event horizons in static vacuum spacetimes. 91f:83047
 Charlton, N. (with Clarke, C. J. S.) On the outcome of Kerr-like collapse. 91f:83048
 Chruściel, Piotr T. (with Isenberg, James A.; Moncrief, Vincent) Strong cosmic censorship in polarized Gowdy spacetimes. 91f:83042
 Clarke, C. J. S. see Charlton, N., 91f:83048
 Dray, Tevian see Harris, Steven G., 91b:83069
 Exposito, Giampiero V. M. The singularity problem for space-times with torsion. (Italian and Russian summaries) 91d:83092
 Ford, L. H. (with Roman, Thomas A.) Moving mirrors, black holes, and cosmic censorship. 91d:83093
 García de Andrade, L. C. The structure of singularities in space-times with torsion. 91e:83074
 — Singularities in spacetimes with torsion. 91f:83043
 Goode, Stephen W. Isotropic singularities and the Penrose-Weyl tensor hypothesis. 91m:83059
 Harris, Steven G. (with Dray, Tevian) The causal boundary of the trousers space. 91b:83069
 Heller, Michael see Woszczyzna, Andrzej, 91j:83052
 Hoenselaers, C. Axisymmetric stationary vacuum solutions near a ring singularity. 91a:83051
 Isenberg, James A. see Chruściel, Piotr T.; et al., 91f:83042
 Joshi, P. S. Causal functions in general relativity. II. 91a:83052
 Kriele, Marcus Causality violations and singularities. 91e:83075
 Low, Robert J. Spaces of causal paths and naked singularities. 91d:83094
 MacCallum, Malcolm A. H. see Castejón-Amendó, José; et al., 91f:83047
 Malec, Edward see Bizon, Piotr; et al., 91b:83068
 Man'ko, V. S. see Castejón-Amendó, José; et al., 91f:83047
 Moncrief, Vincent see Chruściel, Piotr T.; et al., 91f:83042
 Newman, Richard P. A. C. Cosmic censorship and the strengths of singularities. 91m:83060
 Ó Murchadha, Niall see Bizon, Piotr; et al., 91b:83068
 Ori, Amos (with Piran, Tsvi) Naked singularities and other features of self-similar general-relativistic gravitational collapse. 91f:83049
 Parnowski, S. L. A general solution of gravitational equations near their singularities. 91a:83053
 Piran, Tsvi see Ori, Amos, 91f:83049
 Roman, Thomas A. see Ford, L. H., 91d:83093
 Råde, Petra An example of a nontrivial causally simple space-time having interesting consequences for boundary constructions. 91d:83095
 Semiz, Ibrahim Dyon black holes do not violate cosmic censorship. 91a:83054
 Shapiro, Stuart L. (with Teukolsky, Saul A.) Formation of naked singularities: the violation of cosmic censorship. 91k:83058
 Teukolsky, Saul A. see Shapiro, Stuart L., 91k:83058
 Vickers, J. A. G. Quasi-regular singularities and cosmic strings. 91d:83096
 Wojtkiewicz, Jacek Naked singularities in initial surfaces. 91c:83029
 Woszczyzna, Andrzej (with Heller, Michael) Is a horizon-free cosmology possible? 91j:83052

Items with secondary classifications in 83C75

- Bombelli, Luca (with Meyer, David A.) The origin of Lorentzian geometry. 91c:83016
 Bonner, W. B. The C-metric in Bondi's coordinates. 91k:83012
 Borchers, H.-J. (with Sen, Rathindra Nath) Theory of ordered spaces. 91m:51015
 Calanelli, Eduardo R. (with Gasperini, M.; Scarpetta, G.) Inflation and singularity prevention in a model for extended-object-dominated cosmology. 91m:83093
 Carmeli, M. (with Manor, Ran) Nonvacuum Taub-type cosmological model. 91j:83006
 Castejón-Amendó, José (with Man'ko, V. S.) On a stationary rotating mass with an arbitrary multipole structure. 91e:83021
 Deng, Kai (with Liang, Can Bin) The singularity in the overlapping region in spacetime of two Schwarzschild black holes. (Chinese. English summary) 91h:83061
 Ebert, R. New solutions for black holes. 91b:83066
 Ehrlich, Paul E. (with Galloway, Gregory J.) Timelike lines. 91f:83063
 Ferrari, Valeria (with Xanthopoulos, Basilis C.) Can black holes support a gravitating massive scalar field? 91j:83048
 Francisco, G. Information aspects of type IX models. 91k:83028
 Prolov, V. P. (with Markov, M. A.; Mukhanov, V. F.) Black holes as possible sources of closed and semiclosed worlds. 91a:83008
 — see also Novikov, I. D., 91d:83084
 Galloway, Gregory J. see Ehrlich, Paul E., 91f:83063

- Garfinkle, David (with Vuille, Chris) Gravitational collapse with a cosmological constant. 91m:83015
- Gasparini, M. see Calaniello, Eduardo R.; et al., 91m:83093
- Gibbons, Gary W. (with Ortiz, Miguel E.; Ruiz Ruiz, Fernando) Stringy cosmic strings with horizons. 91k:83078
- Glass, E. N. A spherical collapse solution with neutrino outflow. 91g:83012
- Gott, J. Richard, III Closed timelike curves produced by pairs of moving cosmic strings: exact solutions. 91k:83015
- Gruszczak, Jacek Cauchy boundaries of space-times. 91a:53091
- Harris, Steven G. Stability of the causal boundary of the flat trousers space. 91d:83093
- Helliwell, T. M. (with Konkowski, D. A.) Electromagnetic fields in Khan-Penrose spacetime. 91h:83058
- Holmes, G. (with Joly, G. C.; Smallwood, J.) On the application of computer algebra to velocity dominated approximations. 91d:83002
- Isenberg, James A. (with Moncrief, Vincent) Asymptotic behavior of the gravitational field and the nature of singularities in Gowdy spacetimes. 91d:83007
- Joly, G. C. see Holmes, G.; et al., 91d:83002
- Katanev, M. O. (with Volovich, I. V.) Two-dimensional gravity with dynamical torsion and strings. 91c:81085
- Katz, Joseph see Lynden-Bell, Donald, 91j:83011
- Kawai, Toshiharu (with Toma, Naoki) Singularities of "Schwarzschild-like" space-time in new general relativity. 91a:83065
- (Kisin, V. I.) see Novikov, I. D., 91d:83084
- Konkowski, D. A. see Helliwell, T. M., 91h:83058
- Lee, Seng Chye (with Shiekh, A. Y.) Information loss down a black hole. 91m:83054
- Lemos, José P. S. (with Letelier, Patricio S.) Topological defects from counter rotating disks. 91m:83028
- Letelier, Patricio S. see Lemos, José P. S., 91m:83028
- Liang, Can Bin see Deng, Kai, 91h:83061
- Louko, Jorma (with Ruback, Peter J.) Spatially flat quantum cosmology. 91m:83048
- Lynden-Bell, Donald (with Katz, Joseph) Geometric extension through Schwarzschild = 0. 91j:83011
- Man'ko, V. S. see Castañeda-Amendó, José, 91e:83021
- Manor, Ran see Carmeli, M., 91j:83006
- Markov, M. A. see Frolov, V. P.; et al., 91a:83008
- Meyer, David A. see Bombelli, Luca, 91c:83016
- Moncrief, Vincent see Isenberg, James A., 91d:83007
- Mukhanov, V. F. see Frolov, V. P.; et al., 91a:83008
- Newman, Richard P. A. C. The shape of infinity. 91b:83044
- Novikov, I. D. (with Frolov, V. P.) Physics of black holes. 91d:83084
- Ortiz, Miguel E. see Gibbons, Gary W.; et al., 91k:83078
- Padmanabhan, T. Phase volume occupied by a test particle around an incipient black hole. 91a:83057
- Panuly, Brian The Kerr space-time near the ring singularity. 91k:83018
- Qadir, Asghar Black holes in closed universes. 91d:83087
- (with Siddiqui, Azad A.) On quantum effects near a black-hole singularity. 91e:83060
- Qia, Yuan Xian Problem of mathematical deduction of the existence of black holes. 91a:83050
- Ruback, Peter J. see Louko, Jorma, 91m:83048
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., 91k:83078
- Sánchez, Norma see de Vega, H. J., 91d:83124
- Scarpetta, G. see Calaniello, Eduardo R.; et al., 91m:83093
- Scott, Susan M. Conjectures related to the Weyl curvature hypothesis. 91h:83022
- Sen, Rathindra Nath see Borchers, H.-J., 91m:51015
- Shiekh, A. Y. see Lee, Seng Chye, 91m:83054
- Siddiqui, Azad A. see Qadir, Asghar, 91e:83060
- Singh, G. P. see Singh, Triloki, 91f:83062
- Singh, Triloki (with Singh, G. P.) Static spherically symmetric solutions in general projective relativity. 91f:83062
- Smallwood, J. see Holmes, G.; et al., 91d:83002
- Sussman, Roberto A. Spherically symmetric solutions admitting a spacelike self-similar motion. 91m:83021
- Szabados, L. B. Causal boundaries. 91c:53062
- Tod, K. P. Isotropic singularities and the $\gamma = 2$ equation of state. 91h:83008
- Toma, Naoki see Kawai, Toshiharu, 91a:83065
- de Vega, H. J. (with Sánchez, Norma) Quantum string propagation through gravitational shock waves. 91d:83124
- Volovich, I. V. see Katanev, M. O., 91c:81085
- Vuille, Chris see Garfinkle, David, 91m:83015
- Xanthopoulos, Basilis C. see Ferrari, Valeria, 91j:83048
- (Yankovskii, E. M.) see Novikov, I. D., 91d:83084
- 83C99 None of the above, but in this section**
- Ares de Parga, Gonzalo (with Chavoya-Aceves, Oscar; López Bonilla, José Luis; Ovando Zúñiga, Gerardo) Algebraic classification of the conformal tensor. (Spanish. English summary) 91a:83055
- de Barros, J. A. see da Costa, Newton C. A.; et al., 91g:83043
- Bleyer, Ulrich see Treder, Hans-Jürgen, 91c:83063
- Brandt, Howard E. Maximal proper acceleration and the structure of spacetime. 91b:83070
- Chavoya-Aceves, Oscar see Ares de Parga, Gonzalo; et al., 91a:83055
- Chernikov, N. A. Эйнштейновская теория гравитации с точки зрения тензорного анализа. (Russian) [Einstein's gravitation theory from the point of view of tensor analysis] 91j:83053
- Coll, Bartolomé (with Ferrando, Joan Josep) Almost-product structures in relativity. 91k:83059
- da Costa, Newton C. A. (with Doria, F. A.; de Barros, J. A.) A Suppes predicate for general relativity and set-theoretically generic spacetimes. 91g:83043
- Denisov, V. I. (with Logunov, A. A.) Once more on the inequality of inertial and gravitational masses in GTR. 91k:83060
- Deser, S. (with McCarthy, James G.) Self-dual formulations of $D = 3$ gravity theories. 91k:83061a
- (with McCarthy, James G.) Addendum: "Self-dual formulations of $D = 3$ gravity theories". 91k:83061b
- Gravitational anyons. 91b:83071
- Doria, F. A. see da Costa, Newton C. A.; et al., 91g:83043
- Ferrando, Joan Josep see Coll, Bartolomé, 91k:83059
- Ferraris, Marco (with Francaviglia, Mauro) Covariant first-order Lagrangians, energy-density and superpotentials in general relativity. 91f:83050
- Francaviglia, Mauro see Ferraris, Marco, 91f:83050
- Gasparini, M. (with Scarpetta, G.) Some physical consequences of the maximal proper acceleration. 91a:83056
- Gautreaux, Ronald General relativity in Newtonian form. 91b:83072
- Hall, G. S. Covariantly constant tensors and holonomy structure in general relativity. 91m:83061
- Logunov, A. A. see Denisov, V. I., 91k:83060
- López Bonilla, José Luis see Ares de Parga, Gonzalo; et al., 91a:83055
- Mann, Robert B. see Sikken, Arnold E., 91k:83062
- McCarthy, James G. see Deser, S., 91k:83061a and 91k:83061b
- Mondalini, R. P. Towards a unified theory of strings and gravity via areal spaces. 91c:83030
- Murphy, George L. Energy and momentum from the Palatini formalism. 91f:83051
- Nester, James M. Special orthonormal frames and energy localization. 91j:83054
- Ovando Zúñiga, Gerardo see Ares de Parga, Gonzalo; et al., 91a:83055
- Padmanabhan, T. Phase volume occupied by a test particle around an incipient black hole. 91a:83057
- Rosen, Nathan Can one have a universal time in general relativity? 91m:83062
- Scarpetta, G. see Gasparini, M., 91a:83056
- Sen, Dipak Kumar Lorentz action on the space of relative velocities and relativity on a three-manifold. 91f:83052
- Sikken, Arnold E. (with Mann, Robert B.) Gravitation and cosmology in $(1 + 1)$ dimensions. 91k:83062
- Smrz, P. K. de Sitter gauge structure of space-time. 91e:83076
- Construction of space-time from linear connections. 91m:83063
- Treder, Hans-Jürgen (with Bleyer, Ulrich) Quantum gravodynamics and pregeometry. 91c:83031
- Waelbroeck, Henri Time-dependent solutions of $2 + 1$ gravity. 91a:83058
- Items with secondary classifications in 83C99**
- Abramowicz, Marek A. Centrifugal force: a few surprises. 91e:83004
- Aceloly, A. J. (with Wichoski, U. F.) Pseudogravitational non-minimally coupled theories. 91b:83062
- Amici, Oriella (with Casciaro, Biagio) On the conservation laws of the Einstein equations on Lagrange spaces. 91b:53028
- Bagrov, V. G. (with Shapovalov, A. V.; Evseevich, A. A.) Separation of variables in the Dirac equation in Stäckel spaces. 91f:83028
- Bartnik, Robert Maximal surfaces: existence and nonexistence. 91d:53081
- (with Chrusciel, Piotr T.; Ó Murchadha, Niall) On maximal surfaces in asymptotically flat space-times. 91b:53078
- Beem, John K. (with Parker, Phillip E.) Degenerate sections and acceleration. 91c:53060
- Bel, Luis Rigid motion invariance of Newtonian and Einstein's theories of general relativity. 91m:83066
- Bleyer, Ulrich Kausalstruktur und gestörte Lorentz-Invarianz. (English summary) [Causal structure and disturbed Lorentz invariance] (see 91i:83002)
- Buchdahl, H. A. Perturbed characteristic functions. III. 91b:70033
- Carrier, Martin Constructing or completing physical geometry? On the relation between theory and evidence in accounts of space-time structure. (Not in MR)
- Casciaro, Biagio see Amici, Oriella, 91b:53028
- Chrusciel, Piotr T. see Bartnik, Robert; et al., 91b:53078
- Deser, S. (with McCarthy, James G.) Spin and statistics of gravitational anyons. 91i:81071
- Dimakis, Aristophanes (with Müller-Hoissen, Folkert) Spinor fields and the positive energy theorem. 91c:53066
- Duggal, K. L. Space time manifolds and contact structures. 91g:53034
- Essén, Hanno General relativity as a conformally invariant scalar gauge field theory. 91h:83076
- Evseevich, A. A. see Bagrov, V. G.; et al., 91f:83028
- Fedorov, F. I. A nonlinear problem. (Russian. English summary) 91e:15035
- Floreanini, Roberto (with Percacci, R.) Canonical algebra of $GL(4)$ -invariant gravity. 91a:83013
- Gerlach, Rita (with Wunsch, Volkmar) Über konforminvariante Tensoren ungerader Stufe in gekrümmten Raum-Zeiten. [On conformally invariant tensors of odd order in curved space-times] (Not in MR)
- Griffiths, J. B. see Singh, Parvinder, 91a:83069
- Hagen, C. R. (with Ramaswamy, Sriram) Comment on: "Gravitational corrections to Yang-Mills Chern-Simons terms" [Phys. Rev. Lett. 62 (1989), no. 11, 1217–1220; MR 90d:81091] by A. Lerda and P. van Nieuwenhuizen. 91a:81114
- Harvey, Alex On the algebraic invariants of the four-dimensional Riemann tensor. 91f:53020
- Hehl, Friedrich W. see McCrea, J. Dermott; et al., 91m:83070
- Isham, Christopher J. (with Kubyshin, Yu. A.; Renteln, Paul) Quantum norm theory and the quantisation of metric topology. 91k:81197
- van Kampen, N. G. Thermal equilibrium in a gravitational field. (see 91i:81001)
- Kopczyński, Wojciech Variational principles for gravity and fluids. 91j:58052
- Kubyshin, Yu. A. see Isham, Christopher J.; et al., 91k:81197
- (Lerda, A.) see Hagen, C. R., 91a:81114
- Linet, Bernard Abelian Higgs model with a Chern-Simons term in 3-dimensional gravitation. 91g:81084
- McCarthy, James G. see Deser, S., 91k:83061
- McCrea, J. Dermott (with Hehl, Friedrich W.; Mielke, Eckehard W.) Mapping Noether identities into Bianchi identities in general relativistic theories of gravity and in the field theory of static lattice defects. 91m:83070

- Mielke, Eckehard W. Generating function for new variables in general relativity and Poincaré gauge theory. **91m:83072a**
 — Erratum: "Generating function for new variables in general relativity and Poincaré gauge theory". **91m:83072b**
 — see also McCrea, J. Dermott; et al., **91m:83070**
 Müller-Hoissen, Folkert see Dimakis, Aristophanes, **91c:53066**
 (van Nieuwenhuizen, Peter) see Hagen, C. R., **91a:81114**
 Obukhov, Yu. N. (with Solodukhin, S. N.) Dynamical gravity and conformal and Lorentz anomalies in two dimensions. **91m:81280**
 Ó Murchadha, Niall see Bartnik, Robert; et al., **91b:53078**
 Papini, G. Quantum mechanics and the geometry of spacetime. **91h:81194**
 Parker, Phillip E. see Beem, John K., **91c:53060**
 Percacci, R. see Floreanini, Roberto, **91c:83013**
 Perjés, Zoltán Parametric manifolds. **91k:53077**
 Ramaswamy, Sriram see Hagen, C. R., **91a:81114**
 Renteln, Paul see Isham, Christopher J.; et al., **91k:81197**
 Röger, Alexander Complementarity meets general relativity: a study in ontological commitments and theory unification. **91c:81109**
 Sedov, L. I. Some remarks on the relativistic concepts of velocity and acceleration. **91f:83064**
 Shapovalov, A. V. see Bagrov, V. G.; et al., **91f:83028**
 Singh, Parvinder (with Griffiths, J. B.) The application of spin coefficient techniques in the vacuum quadratic Poincaré gauge field theory. **91a:83069**
 Solodukhin, S. N. see Obukhov, Yu. N., **91m:81280**
 Wald, Robert M. On identically closed forms locally constructed from a field. **91g:58001**
 Wichoski, U. F. see Accioly, A. J., **91b:83062**
 Wülsch, Volkmar see Gerlach, Rita, (Not in MR)
- 83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories**
- Agop, Marcel (with Zet, Gh.) A theory of gravitation based on the concept of physical frame. (Romanian summary) (Not in MR)
 Albanese, C. (with de Ritis, R.) Conformal equivalence in U_4 -scalar field theories. **91f:83053**
 Amendola, Luca (with Occhionero, Franco) Global stability analysis for scalar-tensor models. (Not in MR)
 Arcidaccone, G. see Singh, Trilokki; et al., **91b:83082**
 Asanov, G. S. Jet extension of Finslerian gauge approach. **91k:83063**
 de Azeredo Campos, R. Lagrange multipliers and Gauss-Bonnet-type invariants in Riemann-Cartan space. **91f:83054**
 Baker, William M. Cosmic strings in Riemann-Cartan spacetimes. **91d:83097**
 Barriola, Manuel (with Vachaspati, Tanmay) Strong gravity of a self-similar global texture. **91m:83064**
 Barrow, John D. (with Sirousse-Zia, H.) Erratum: "Mixmaster cosmological model in the theories of gravity with a quadratic Lagrangian" [Phys. Rev. D (3) 39 (1989), no. 8, 2187–2191; MR 90a:83059]. **91a:83059**
 Beesham, Aroonkumar A note on the Cauchy problem in the scale covariant theory of gravitation. **91d:83098**
 — Some Friedmann cosmological solutions in the scale covariant theory of gravitation. **91m:83065**
 Bel, Luis Rigid motion invariance of Newtonian and Einstein's theories of general relativity. **91m:83066**
 Berman, Marcelo Samuel (with Som, M. M.) Whitrow-Randall's relation and Brans-Dicke cosmology. **91a:83060**
 — (with Som, M. M.) Brans-Dicke models with time-dependent cosmological term. (Not in MR)
 — Density perturbations in a Brans-Dicke cosmological model. (Not in MR)
 — Brans-Dicke cosmology with time-dependent cosmological term. (Not in MR)
 — Brans-Dicke theory and the duration of the early universe. (Not in MR)
 — A static universe with magnetic field in Einstein-Cartan's theory. (Not in MR)
 Bornea, M. Nonlinear equations with higher derivatives. (Romanian summary) (see **91c:00034**)
 Borovka, E. V. Spaces with flat symmetry in Poincaré gauge gravitation theory. (Not in MR)
 Bradfield, Terry A note on the physical interpretation of Weyl gauging. **91b:83073**
 Brownstein, J. R. see Moffat, J. W., **91d:83107**
 Bruckman, W. Scalar-tensor theories à la Kaluza Klein. **91b:83074**
 Cal, Y. Q. (with Papini, G.) The Jacobi equation in a conformally invariant theory of gravitation and electromagnetism. **91b:83075**
 Chen, Fang Pei General equations of motion of test particles in space-time with torsion. **91f:83055**
 Chen, Yi Han see Xu, Ji Zhong, (Not in MR)
 Chi, L. K. New cosmological models in the five-dimensional space-time-mass gravity theory. **91c:83064**
 Chugreer, Yu. V. Post-Newtonian approximation of the relativistic theory of gravitation against a cosmological background. **91a:83061**
 Clément, Gérard Stationary solutions with point sources in topologically massive gravity. **91h:83065**
 Coquereaux, R. (with Exposito-Farese, G.) The theory of Kaluza-Klein-Jordan-Thiry revisited. (French summary) **91d:83099**
 Dautcourt, G. Cosmological Coriolis fields in the Newton-Cartan theory. **91d:83100**
 Dehnen, H. see Shao, Chang Gui; et al., **91f:83061**
 Deruelle, Nathalie (with Farfà-Busto, Luis) Lovelock gravitational field equations in cosmology. **91f:83056**
 De Sabbata, Venzò (with Gasperini, M.) Gravitation without Lorentz invariance. (see **91k:83003**)
 Deser, S. (with McCarthy, James G.) Gauge invariance of Poincaré generators in free higher spin gauge theories. **91d:83101**
 Dimakis, Aristophanes The initial value problem of the Poincaré gauge theory in vacuum. I. Second order formalism. (French summary) **91a:83062a**
 — The initial value problem of the Poincaré gauge theory in vacuum. II. First order formalism. (French summary) **91a:83062b**
 Domínguez Tenreiro, R. (with Serna, A.) H theorem and distribution functions in scale-covariant gravitation. **91f:83057**
 Dubec, Miloslav Cosmology and a flat space. (Not in MR)
 Exposito-Farese, G. see Coquereaux, R., **91d:83099**
 Essén, Hanno General relativity as a conformally invariant scalar gauge field theory. **91b:83076**
 Farfà-Busto, Luis see Deruelle, Nathalie, **91f:83056**
 Ferraris, Marco see Magnano, Guido; et al., **91c:83032**
 Francaviglia, Mauro see Magnano, Guido; et al., **91c:83032**
 Galakhmetov, A. M. see Zakharov, Aleksei Vasil'evich, **91c:83081**
 Garcia de Andrade, L. C. Nonlinear electrodynamics in space-times with torsion. **91d:83102**
 — Nonlinear electrodynamics and torsion. (Not in MR)
 Gasperini, M. see De Sabbata, Venzò, **(91k:83003)**
 Goenner, H. F. M. Exact solutions of the SO(3)-Yang-Mills-Higgs system coupled to gravitation within Poincaré gauge theory. **91d:83103**
 Gottliber, Stefan (with Schmidt, Hans-Jürgen; Starobinski, A. A.) Sixth-order gravity and conformal transformations. **91b:83077**
 Griffiths, J. B. see Singh, Parvinder, **91a:83069** and **91g:83050**
 Grigoryan, L. Sh. (with Saaryan, A. A.) The generalized bimetric theory of gravitation. (Not in MR)
 Grishchuk, L. P. The general theory of relativity: familiar and unfamiliar. **91m:83069**
 Guzmán, Enrique Comments on: "Comment on the Guzman-Bianchi type-VII_h solutions" [Astrophys. Space Sci. 161 (1989), no. 1, 163–164; MR 90j:83109] by D. Lorenz-Petold. **91k:83064**
 Hammond, Richard T. Second-order equations and quadratic Lagrangians. **91f:83058**
 Harpaz, Amos (with Rosen, Nathan) Stability of a collapsed star in bimetric general relativity. **91a:83063**
 Hayashi, Kenji (with Shirafuji, Takeshi) Static, isotropic spacetime in new general relativity. **91g:83044**
 Hecht, R. D. (with Lemke, Jürgen; Wallner, R. P.) Tachyonic torsion shock waves in Poincaré gauge theory. **91j:83055**
 Hehl, Friedrich W. see McCrea, J. Dermott; et al., **91m:83070**
 Hochberg, David Lorentzian wormholes in higher order gravity theories. **91h:83066**
 Hwang, Jai-chan Cosmological perturbations in generalized gravity theories: formulation. **91f:83059**
 — Cosmological perturbations in generalized gravity theories: solutions. **91h:83067**
 — Cosmological perturbations in generalized gravity theories: inflationary spectrum. **91k:83065**
 Hyman, A. T. A new interpretation of Whitehead's theory. (Italian and Russian summaries) **91b:83078**
 Ikeda, Satoshi On the theory of gravitational field in Finsler spaces. III. (German summary) **91c:83077**
 — A Finslerian extension of the gravitational field. III. **91j:83056**
 Jakubiec, Andrzej (with Kijowski, Jerzy) On the Cauchy problem for the theory of gravitation with nonlinear Lagrangian. **91g:83045**
 Jarvis, P. D. The Jordan-Brans-Dicke model from graded higher dimensions. **91g:83046**
 Kawaguchi, Tomoki (with Miron, Radu) A Lagrangian model for gravitation and electromagnetism. **91h:83044**
 Kawai, Toshiharu Extended spinor structure and exotic spinor field in Poincaré gauge theory of gravity. **91a:83064**
 — (with Toma, Naoki) Singularities of "Schwarzschild-like" space-time in new general relativity. **91a:83065**
 Kijowski, Jerzy see Jakubiec, Andrzej, **91g:83045**
 Klotz, A. H. Birkhoff's theorem in the generalized field theory. **91m:83067**
 Kroll, P. see Schmutzer, Ernst, **91b:83071**
 Lemke, Jürgen see Hecht, R. D.; et al., **91j:83055**
 Liao, Zheng Ren (with Shao, Chang Gui) Gravity and gauge theories of gravitation. (Chinese. English summary) (Not in MR)
 Logunov, A. A. Fundamental principles of the relativistic theory of gravitation. **91h:83068**
 — ★ Lectures in relativity and gravitation. **91k:83066**
 — The principles of the relativistic theory of gravitation. (Not in MR)
 — The relativistic theory of gravitation. **91m:83068**
 (Lorenz-Petold, D.) see Guzmán, Enrique, **91k:83064**
 Loskutov, Yu. M. A central-symmetric problem in the relativistic theory of gravitation with a μ -term. **91k:83067**
 Low, Robert J. see Madsen, Mark S., **91g:83047**
 Lukačević, Ilija Conformally equivalent metrics in bimetric general relativity. **91c:83078**
 Ma, Guang Wen Wesson's gravity and Mach's principle. **91d:83104**
 Madsen, Mark S. The plane gravitational wave in quadratic gravity. **91a:83066**
 — (with Low, Robert J.) The stability of vacuum solutions in generalised gravity. **91g:83047**
 Magnano, Guido (with Ferraris, Marco; Francaviglia, Mauro) Legendre transformation and dynamical structure of higher-derivative gravity. **91c:83032**
 Maheswara Rao, Velagapudi Uma (with Shanthi, K.) Bianchi type-VI₀ cosmological models in Schwinger's scalar-tensor theory. **91b:83079**
 — see also Shanthi, K., **91h:83046** and (Not in MR)
 Mangiarotti, Luigi (with Marathe, Kishore B.; Sardanashvili, G. A.) Equivalence principle, Lorentz structures and theories of gravitation. **91j:83057**
 Marathe, Kishore B. see Mangiarotti, Luigi; et al., **91j:83057**
 Marques-Bonham, S. The Dirac equation in a non-Riemannian manifold. II. An analysis using an internal local n -dimensional space of the Yang-Mills type. **91h:83069**
 McCarthy, James G. see Deser, S., **91d:83101**
 McCrea, J. Dermott (with Hehl, Friedrich W.; Mielke, Eckehard W.) Mapping Noether identities into Bianchi identities in general relativistic theories of gravity and in the field theory of static lattice defects. **91m:83070**
 Mena Maragón, G. A. Lovelock gravity and classical wormholes. **91m:83071**
 Mézardos, A. Cartan's contortion as a system of spin-2 and spin-0 fields. **91d:83105**

- Mielke, Eckehard W. Generating function for new variables in general relativity and Poincaré gauge theory. 91m:83072a
 — Erratum: "Generating function for new variables in general relativity and Poincaré gauge theory". 91m:83072b
 — Positive-gravitational-energy proof from complex variables? 91m:83073
 — see also McCrea, J. Dermott; et al., 91m:83070
 Miron, Radu (with Radivoi-Tatoiu, M.) Extended Lagrangian theory of electromagnetism. 91b:83070
 — see also Kawaguchi, Tomoaki, 91b:83044
 Modanese, G. (with Toller, M.) Radial gauge in Poincaré gauge field theories. 91d:83106
 Moffat, J. W. (with Brownstein, J. R.) Spinning test particles and the motion of a gyroscope according to the nonsymmetric gravitation theory. 91d:83107
 Mohanty, Ganeshwar (with Panigrahi, U. K.) Solution of Sen-Dunn vacuum model. 91d:83108
 Nguyen Hong Chuong Cosmological constant and regular Bianchi type-I models with radiation in the minimum quadratic gauge theory of gravity. 91a:83067
 — Cosmological constant and the dynamics of the Bianchi type I models with spin and torsion: a qualitative investigation. 91g:83048
 Nikolić, Ignjat A. Schwinger's energy-energy brackets in the U_4 theory of gravity. 91g:83049
 Nishleka, Michio On the magnitude of length scale of a vector in Weyl's geometry and a generalized Killing equation. 91a:83068
 Occhionero, Franco see Amendola, Luca, (Not in MR)
 Ogino, Shin-uke Stability of the Friedmann universe in the Poincaré gauge theory. 91b:83080
 de Oliveira, H. P. see Romero, Carlos Augusto, 91d:83109
 Ortiz, Miguel E. Homogeneous solutions to topologically massive gravity. 91f:83060
 Panigrahi, U. K. see Mohanty, Ganeshwar, 91d:83108
 Papini, G. see Cai, Y. Q., 91d:83075
 Petry, Walter Angular momentum and gyroscope in flat space-time theory of gravitation. (Not in MR)
 Pullin, Jorge A. Massive solutions to Einstein-Cartan-Dirac theory. 91b:83081
 Qian, Si Ming (with Wu, You Lin) T_4 gauge theory of gravity and new general relativity. 91m:83074a
 — (with Wu, You Lin) Erratum: " T_4 gauge theory of gravity and new general relativity". 91m:83074b
 Radivoi-Tatoiu, M. see Miron, Radu, 91b:83070
 Reddy, D. R. K. see Venkateswarlu, R., (Not in MR) and Shanthi, K.; et al., (Not in MR)
 (Re)ev, A. P. see Logunov, A. A., 91b:83066
 de Ritis, R. see Albanese, C., 91f:83053
 Romero, Carlos Augusto (with de Oliveira, H. P.) A comment on the paper: "Exact solutions in Brans-Dicke theory: a dynamical system approach" [Astrophys. Space Sci. 159 (1989), no. 1, 1-9; MR 90m:83083]. 91d:83109
 Rosen, Nathan The space-time of the bimetric general relativity theory. (see 91k:83003)
 — see also Harpaz, Amos, 91a:83063
 Rydzinska, Ewa Bellert's general relativity theory. 91j:83058
 Saaryan, A. A. see Grigoryan, L. Sh., (Not in MR)
 Sardashevski, G. A. see Mangiarotti, Luigi; et al., 91j:83057
 Schmidt, Hans-Jürgen Variational derivatives of arbitrarily high order and multi-inflation cosmological models. 91d:83110
 — see also Gottlöber, Stefan; et al., 91b:83077
 Schmutzer, Ernst (with Kroll, P.) First order approximation of the 5-dimensional projective unified field theory. (German summary) 91b:83071
 — Homogeneous isotropic cosmology on the basis of a new 5-dimensional projective unified field theory. (German summary) 91b:83045
 Serre, A. see Dominguez Tenreiro, R., 91f:83057
 Shahid-Saleh, Bahman Curvature-squared cosmology in the first-order formalism. 91b:83072
 — Palatini variation of curvature-squared action and gravitational collapse. 91k:83068
 Shanthi, K. (with Maheswara Rao, Velagapudi Uma) Bianchi type- VI_0 cosmological model in the general scalar-tensor theory of gravitation. 91b:83046
 — (with Maheswara Rao, Velagapudi Uma; Reddy, D. R. K.; Venkateswarlu, R.) Vacuum Bianchi type-III cosmological models in Ross and Dunn theories of gravitation. (Not in MR)
 — see also Maheswara Rao, Velagapudi Uma, 91b:83079
 Shao, Chang Gui (with Wang, Chun Hou; Dehnen, H.) de Sitter gauge theories of gravity. 91f:83061
 — see also Liu, Zheng Ren, (Not in MR)
 Shirafuji, Takeshi see Hayashi, Kenji, 91g:83044
 Shiraishi, Kiyoshi see Yoshida, Kensuke, (Not in MR)
 Simon, Jonathan Z. Higher-derivative Lagrangians, nonlocality, problems, and solutions. 91d:83111
 Singh, G. P. see Singh, Triloki, 91a:83070; 91b:83082 and 91f:83062
 Singh, Parvinder On null tractorial torsion in vacuum quadratic Poincaré gauge field theory. 91b:83047
 — (with Griffiths, J. B.) The application of spin coefficient techniques in the vacuum quadratic Poincaré gauge field theory. 91a:83069
 — (with Griffiths, J. B.) A new class of exact solutions of the vacuum quadratic Poincaré gauge field theory. 91g:83050
 — On axial vector torsion in vacuum quadratic Poincaré gauge field theory. 91d:83112
 Singh, Triloki (with Singh, G. P.; Arcidiacono, G.) A stationary axially symmetric field in general projective relativity. 91b:83082
 — (with Singh, G. P.) Nonstatic cylindrically symmetric fields in general projective relativity. 91a:83070
 — (with Singh, G. P.) Static spherically symmetric solutions in general projective relativity. 91f:83062
 Siromse-Zia, H. see Barrow, John D., 91a:83059
 Spidini, Torgny A scalar Euclidean theory of gravitation: motion in a static spherically symmetric field. 91k:83069
 Soleng, Harald H. Spin-polarised cylinder in Einstein-Cartan theory. 91e:83079
 Som, M. M. see Berman, Marcelo Samuel, 91a:83060 and (Not in MR)
 Starobinski, A. A. see Gottlöber, Stefan; et al., 91b:83077
 Tentyukov, M. N. The generally covariant representation of the energy-momentum pseudotensor of the gravitational field. (Russian. English summary) 91g:83051
 Teyssandier, P. New solutions in linearized $R + R^2$ gravity. 91f:83063
 Toller, M. see Modanese, G., 91d:83106
 Toma, Naoki see Kawai, Toshiharu, 91a:83065
 Vachaspati, Tanmay see Barriola, Manuel, 91m:83064
 Venkateswarlu, R. (with Reddy, D. R. K.) Bianchi type-I models in self-creation theory of gravitation. (Not in MR)
 — see also Shanthi, K.; et al., (Not in MR)
 Verwimp, Theo Fibre bundle generated theory of higher-dimensional gravity. 91k:83070
 Vlachynsky, Eugen J. Exact solutions of the NGT-Maxwell field equations. 91b:83083
 Vlasov, A. A. On spherically symmetric solutions in the relativistic theory of gravitation. 91d:83113
 Wallner, R. P. Exact solutions in U_4 gravity. I. The ansatz for self double dual curvature. 91m:83075
 — see also Hecht, R. D.; et al., 91j:83055
 Wang, Chun Hou see Shao, Chang Gui; et al., 91f:83061
 Wesson, Paul S. Clarification of an extended theory of gravity and a reply to Grøn and Soleng. 91m:83076
 Wintenberg, F. Maxwell's equations and Einstein-gravity in the Planck aether model of a unified field theory. (Not in MR)
 Wu, You Lin see Qian, Si Ming, 91m:83074a and 91m:83074b
 Xu, Ji Zhong (with Chen, Yi Han) Intermediate-range force and the scalar-tensor theory with torsion. (Not in MR)
 Yilmaz, Hüseyin Narrow road to a far province. 91g:83052
 — Toward a field theory of gravity. (Not in MR)
 Yoshida, Kensuke (with Shiraishi, Kiyoshi) A new vector-tensor theory and higher-dimensional cosmology. (Not in MR)
 Yu, Shen The Ω -field theory of gravitation and cosmology. 91d:83114
 — A nondualistic unified field theory of gravitation, electromagnetism and spin. 91e:83080
 Zakharov, Aleksei Vasil'evich (with Galiakhmetov, A. M.) On the stability of a nonsingular cosmological model in Einstein-Cartan theory. (Russian. English and Ukrainian summaries) 91e:83081
 Zet, Gh. see Agop, Marcel, (Not in MR)
 Ziegler, L. L. Field equations for a Riemannian space with torsion. 91m:83077
- Items with secondary classifications in 83D05
- Amici, Oriella (with Casciaro, Biagio) The conservation laws of the Einstein equations and Miron-Landsberg spaces. 91c:53025
 Annibaldi, Davide (with Mangiarotti, Luigi) Invariant Lagrangians and operators. 91f:83064a
 Antoci, S. The origin of the electromagnetic interaction in Einstein's unified field theory with sources. 91k:83077
 Assad, M. J. D. (with Letelier, Patricio S.) On a class of inflationary universes of the self-consistent Einstein-Cartan theory. 91e:83091
 Berkin, Andrew L. (with Maeda, Kei-ichi) Effects of R^3 and $R \square R$ terms on R^2 inflation. 91b:83056
 — R^2 inflation in anisotropic universes. 91f:83074
 Bleyer, Ulrich (with Schmidt, Hans-Jürgen) Inflation in Kaluza-Klein cosmology. II. Friedmann models. 91j:83067
 Byrnes, Graham B. Complex manifolds and geometrical quantisation. 91b:58048
 Casciaro, Biagio see Amici, Oriella, 91c:53025
 Chernikov, N. A. * Эйнштейновская теория гравитации с точки зрения тензорного анализа. (Russian) [Einstein's gravitation theory from the point of view of tensor analysis] 91j:83053
 Dautcourt, G. On the Newtonian limit of general relativity. 91j:83026
 Derrell, T. (with Üçoluk, G.) Kaluza-Klein reduction of generalised theories of gravity and nonminimal gauge couplings. 91g:83055
 Dervelle, Nathalie (with Spindel, Philippe) Kaluza-Klein Bianchi I cosmologies in the R^2 theory of gravity. 91j:83059
 De Sabbata, Venzo (with Sivaram, C.) Fifth force as a manifestation of torsion. 91b:83006
 Deser, S. Gravitational anyons. 91b:83071
 Esposito, Giampiero V. M. The singularity problem for space-times with torsion. (Italian and Russian summaries) 91d:83092
 Ferraris, Marco (with Francaviglia, Mauro) Covariant first-order Lagrangians, energy-density and superpotentials in general relativity. 91f:83050
 Francaviglia, Mauro see Ferraris, Marco, 91f:83050
 Garcia de Andrade, L. C. The structure of singularities in space-times with torsion. 91e:83074
 — Singularities in spacetimes with torsion. 91b:83043
 — Ricci recurrent space-times with torsion. 91m:83024
 González-Martín, Gustavo Physical geometry: a unified theory of gravitation, electromagnetism and other interactions. 91m:83119
 Gou, San Kui (with Li, Zhi Ji) The quasi-torsion field in Kaluza-Klein-Jordan-Brans-Dicke theory and its simple solutions in cosmology. (Chinese. English summary) (Not in MR)
 Granda, L. N. (with Pyzh, V. M.) Gauge six-dimensional gravity in the fibre bundle formalism. (Russian. English summary) 91a:83078
 Ikeda, Satoshi On the theory of fields in Finsler spaces. V. 91g:53023
 Islam, Mohammed Ahsraf On exact solutions of Jordan-Brans-Dicke theory. (Bengali summary) (Not in MR)
 Lee, Chang-Yeong (with Ne'eman, Yuval) Renormalization of gauge-affine gravity. 91d:83065
 Letelier, Patricio S. see Assad, M. J. D., 91e:83091
 Li, Zhi Ji see Gou, San Kui, (Not in MR)
 Maeda, Kei-ichi see Berkin, Andrew L., 91b:83056
 Mangiarotti, Luigi see Annibaldi, Davide, 91f:83064a
 Mannheim, Philip D. Conformal cosmology with no cosmological constant. 91b:83102
 Martin, Geoffrey Fermi transport and Weylian electromagnetism. 91d:53036
 Matsuo, Naoki Einstein gravity as spontaneously broken Weyl gravity. 91d:83066

- Einstein gravity as spontaneously broken Weyl gravity. **91a:83042**
- Mignemi, S. The generalization of the Schwarzschild solution in quasi-Riemannian theories. **91j:83065**
- Müller, Volker (with Schmidt, Hans-Jürgen; Starobinski, A. A.) Power-law inflation as an attractor solution for inhomogeneous cosmological models. **91d:83133**
- Ne'eman, Yuval see Lee, Chang-Yeong. **91d:83065**
- Popova, A. D. Nonlinear quantum mechanics with nonclassical gravitational self-interaction. **91a:81153**
- Pyzh, V. M. see Granda, L. N. **91a:83078**
- Schmidt, Hans-Jürgen Inflation in Kaluza-Klein cosmology. I. Transformation to fourth-order gravity. **91j:83066**
- see also Müller, Volker; et al., **91d:83133** and Bleyer, Ulrich, **91j:83067**
- Sivaram, C. see De Sabbata, Venzo. **91b:83066**
- Spindel, Philippe see Deruelle, Nathalie. **91j:83059**
- Starobinski, A. A. see Müller, Volker; et al., **91d:83133**
- Steinbach, J. Nonmetricity driven inflation. **91m:83097**
- Tartaglia, A. Gravity without Lorentz symmetry? **91e:83050**
- Tauber, G. E. A geometrical foundation of a unified field theory: an alternative to Kaluza-Klein. **91d:83121**
- Üçoluk, G. see Dereli, T., **91g:83055**
- Wallner, R. P. New variables in gravity theories. **91f:83007**
- Yu, Shen A nondualistic unified field theory of gravitation, electromagnetism and spin. **91h:83080**

83Exx Unified, higher-dimensional and super field theories

83E05 Geometrodynamics

- Anderson, Malcolm R. Invariant length of a cosmic string. **91h:83073**
- Garriga, Jaume (with Verdager, Eric) Quantum particles produced during cosmic string formation. (see **91i:83063**)
- Hammon, K. S. (with Norris, L. K.) New geometrical approach to Rainich-Misner-Wheeler theory. **91d:83115**
- Norris, L. K. see Hammon, K. S., **91d:83115**
- Verdager, Eric see Garriga, Jaume, (91i:83063)
- Items with secondary classifications in 83E05
- Abbott, L. F. (with Farhi, Edward) Wormholes with a past. **91i:83022**
- Farhi, Edward see Abbott, L. F., **91i:83022**
- Mena Marugán, G. A. Lovelock gravity and classical wormholes. **91m:83071**
- Waelbroeck, Henri Do universes with parallel cosmic strings or two-dimensional wormholes have closed timelike curves? **91j:83002**
- Wheeler, John Archibald The simplicity of gravity. **91k:83002**

83E10 Asymmetric field theories (1985)

- Kreisel, Eckhard Das Singularitätenproblem in der Hermite-symmetrischen Relativitätstheorie. (English summary) [The problem of singularities in the Hermite-symmetric theory of relativity] (see **91e:83002**)
- Geodesic motion near a surface $\det g_{\mu\nu} = 0$ in pseudo-Hermitian relativity theory. (Not in MR)

83E15 Kaluza-Klein and other higher-dimensional theories

- Ait Moussa, Karim (with Clément, Gérard) Geodesic motion and scattering in the field of a Kaluza-Klein dyon. **91m:83078**
- Aragone, C. (with Khoudir, A.) Vielbein gravity in the light-front gauge. **91d:83116**
- Arik, Metin (with Hizel, E.; Mostafaezadeh, A.) The Schwarzschild solution in nonabelian Kaluza-Klein theory. **91f:83064**
- Azreg-Ainou, Mustapha (with Clément, Gérard) The geodesics of the Kaluza-Klein wormhole soliton. **91k:83071**
- Banerjee, Asit Kumar (with Bhui, B.; Chatterjee, Sujit) Bianchi type I cosmological models in higher dimensions. **91m:83079**
- see also Chatterjee, Sujit; et al., **91h:83074**
- Batakis, Nikolaos A. (with Kehagias, Alexandros A.) Generic SU(2) multidimensional sigma-model vacuum. **91a:83071**
- Becerril, R. (with Matos, Tonatiuh) Bonnor solution in five-dimensional gravity. **91c:83033**
- Berger, B. K. see Matsuki, Takayuki, **91h:83090**
- Bhawal, Biplab (with Vishveshwara, C. V.) Scalar waves in the Witten bubble spacetime. **91f:83065**
- Bhui, B. see Chatterjee, Sujit, **91a:83073**; **91h:83074** and Banerjee, Asit Kumar; et al., **91m:83079**
- Bleyer, Ulrich (with Polnarev, A. G.; Liebscher, Dierck-Ekkehard) Exact solutions to Kaluza-Klein cosmologies. (Not in MR)
- (with Polnarev, A. G.; Liebscher, Dierck-Ekkehard) Mixed metric perturbations in Kaluza-Klein cosmologies. (Not in MR)
- (with Schmidt, Hans-Jürgen) Inflation in Kaluza-Klein cosmology. II. Friedmann models. **91j:83067**
- Borghain, P. see Krüger, K. D.; et al., **91f:83088**; **91f:83069** and **91j:83063**
- Brill, D. R. see Yoon, J. H., **91f:83071**
- Calanelli, Eduardo R. (with Gasperini, M.; Scarpetta, G.) Phenomenological consequences of a geometric model with limited proper acceleration. (Italian and Russian summaries) **91j:83053**
- Chatterjee, Sujit Static spherically symmetric solution in a Kaluza-Klein type of metric. **91a:83072**
- (with Bhui, B.) Viscous fluid in a Kaluza-Klein metric. **91a:83073**
- (with Banerjee, Asit Kumar; Bhui, B.) Higher-dimensional cosmological model with homogeneous perfect fluid. **91h:83074**
- see also Banerjee, Asit Kumar; et al., **91m:83079**
- Cho, Byung Ha see Kim, Sung-Won, **91h:83087**
- Cho, Y. M. (with Park, D. H.) Spherically symmetric black holes in Kaluza-Klein unification. **91a:83074**
- (with Park, D. H.) Higher-dimensional unification and fifth force. (Not in MR)
- Choquet-Bruhat, Yvonne High frequency waves for stringy gravity. **91d:83117**
- Clément, Gérard see Azreg-Ainou, Mustapha, **91k:83071** and Ait Moussa, Karim, **91m:83078**
- Curtright, Thomas Extrinsic geometry of superimmersions. **91d:83118**
- Das, Kanika see Krüger, K. D.; et al., **91h:83088**; **91f:83069** and **91j:83063**
- Dehnen, H. see Macías, A., **91j:83064**
- Demiański, Marek (with Szydłowski, Marek; Szczesny, Jerzy) Dynamical dimensional reduction. **91g:83054**
- (with Polnarev, A. G.) Dynamical dimensional reduction induced by changing equation of state. **91f:83066**
- Dereli, T. (with Üçoluk, G.) Direct-curvature Yang-Mills field couplings induced by the Kaluza-Klein reduction of Euler form actions in seven dimensions. **91a:83075**
- (with Üçoluk, G.) Kaluza-Klein reduction of generalised theories of gravity and nonminimal gauge couplings. **91g:83055**
- Deruelle, Nathalie (with Spindel, Philippe) Kaluza-Klein Bianchi I cosmologies in the R^2 theory of gravity. **91j:83059**
- Dowker, J. S. (with Jermyn, I. H.) Self-consistent compactification on products of spheres. **91j:83060**
- Ellicott, P. (with Toms, David J.) Grassmannian Kaluza-Klein theory. **91c:83034**
- Féher, L. Gy. Dynamical symmetries of the Kaluza-Klein monopole. **91h:83084**
- Ferrarese, Giorgio The projection technique and Kaluza-Klein theories. (Italian. English summary) **91e:83082**
- Ferrari, José A. Static cylindrically symmetric solution of the Kaluza-Klein equations. **91a:83076**
- Galkwad, Vidya (with Karade, T. M.) Plane symmetric higher-dimensional space-times. (Not in MR)
- Gasperini, M. see Calanelli, Eduardo R.; et al., **91g:83053**
- Gauthier, Claude Particles in multiconnected hyperspacetime. **91d:83119**
- (with Gravel, Pierre) Complément sur les constantes de couplage et les masses dans les théories de Kaluza-Klein avec un espace supérieur multiconnexe. (English, Italian and Russian summaries) [Complement on coupling constants and masses in Kaluza-Klein theories with a multiply connected higher space] **91c:83035**
- Gleiser, Reinaldo J. (with Pullin, Jorge A.) On the existence of crack of doom singularities in some cosmological models with extra dimensions. **91a:83077**
- Gowami, D. see Krüger, K. D., **91d:83120**
- Gou, San Kai (with Li, Zhi Ji) The quasi-torsion field in Kaluza-Klein-Jordan-Brans-Dicke theory and its simple solutions in cosmology. (Chinese. English summary) (Not in MR)
- Granda, L. N. (with Pyzh, V. M.) Gauge six-dimensional gravity in the fibre bundle formalism. (Russian. English summary) **91a:83078**
- Gravel, Pierre Discontinuous fields and multiconnected extended spacetimes. **91c:83036**
- see also Gauthier, Claude, **91c:83035**
- Grégoire, Philippe Hamiltonian formulation for Kaluza-Klein spaces asymptotic to the KKM solution. **91j:83061**
- Gülen, R. Supermembranes on black holes. **91a:83079**
- Hertz potentials in higher dimensions. **91h:83085**
- Halpern, Paul (with Klabucar, Dubravko) Behaviour of anisotropic ten-dimensional cosmologies. **91h:83072**
- Herit, Eduard (with Stränsch, Heike; Müller, Ariane) A further intermediate first integral of the system of differential equations for Schmutzer's projective relativistic cosmology. **91f:83067**
- Hensler, Markus Higher-dimensional homogeneous cosmological models. **91m:83080**
- Higher-dimensional homogeneous cosmological models as autonomous dynamical systems. **91m:83081**
- Hind, E. see Arik, Metin; et al., **91f:83064**
- Holm, Christian Erratum: "The hyperspin structure of unitary groups" [J. Math. Phys. 29 (1988), no. 4, 978-986; MR 90b:83081]. **91a:83080**
- Islam, Mohammed Ashraf On exact solutions of Jordan-Brans-Dicke theory. (Bengali summary) (Not in MR)
- Ivashchuk, V. D. (with Mel'nikov, V. N.) On reduction of multicomponent cosmology to Toda lattice. **91j:83062**
- Jermyn, I. H. see Dowker, J. S., **91j:83060**
- Kalinowski, Marek Wojciech ★ Nonsymmetric fields theory and its applications. **91m:83082**
- Karade, T. M. see Galkwad, Vidya, (Not in MR)
- Kehagias, Alexandros A. see Batakis, Nikolaos A., **91a:83071**
- Kerbrat, Yvan (with Kerbrat-Lunc, H.; Śniatycki, Jędrzej) How to get masses from Kaluza-Klein theory. **91h:83086**
- Kerbrat-Lunc, H. see Kerbrat, Yvan; et al., **91h:83086**
- Kerner, Richard Geometry of the Kaluza-Klein theories. **91f:83068**
- Ketov, S. V. On the topological value of anomalies in Kaluza-Klein field theories. **91a:83081**
- Khoudir, A. see Aragone, C., **91d:83116**
- Kim, Sung-Won (with Cho, Byung Ha) Higher-dimensional black hole solution. **91h:83087**
- Klabucar, Dubravko see Halpern, Paul, **91h:83072**
- Krüger, K. D. (with Borghain, P.; Das, Kanika) Higher-dimensional Florides-like solution with cosmological constant. **91h:83088**
- (with Gowami, D.) Higher-dimensional Gödel-type cosmologies. (French summary) **91d:83120**
- (with Samah, J. C.) A magnetized object in Kaluza-Klein theory. (French summary) **91c:83083**
- (with Borghain, P.; Das, Kanika) Anisotropic cosmology with extra dimensions. **91f:83069**
- (with Borghain, P.; Das, Kanika) A Marder-like solution in higher dimensions. **91j:83063**
- Kubera, Jaromír The exact static plane symmetric solution of five-dimensional Einstein's

- equations. (see 91b:53002)
- Lapeta, Andrzej *see* Szydłowski, Marek, 91m:83084
- Li, Xin Zhou (with Zhong, Yu) Wormhole and the dimensionality of spacetime in Einstein-gauge theories. 91g:83056
- (with Liu, Qi; Xu, Jian Jun) Towards a realistic eight-dimensional Kaluza-Klein cosmology. 91m:83083
- *see also* Liu, Qi; et al., 91b:83089 and Xu, Jian Jun, 91b:83095
- Li, Zhi Ji *see* Gou, San Kui, (Not in MR)
- Liang, Can Bin Conformal Birkhoff and Taub theorems in higher dimensions. 91e:83084
- Liescher, Dierck-Ekkehard *see* Bleyer, Ulrich; et al., (Not in MR) and (Not in MR)
- Liu, Hong Ya Plane-wave solutions in higher-dimensional Kaluza-Klein theories. 91e:83085
- Liu, Qi (with Xu, Jian Jun; Li, Xin Zhou) An eight-dimensional Kaluza-Klein cosmological model. (Chinese. English summary) 91b:83089
- *see also* Li, Xin Zhou; et al., 91m:83083
- Macedo, Paulo Constraints on the geometry of the 5th dimension in cosmological solutions of five-dimensional relativity in vacuum. 91a:83082
- Macías, A. (with Dehnen, H.) Dirac field in the five-dimensional Kaluza-Klein theory. 91j:83064
- Matos, Tonatihu *see* Becerril, R., 91e:83033
- Matsuki, Takayuki (with Berger, B. K.) Consistent quantization of a plane symmetric cosmology. 91b:83090
- McGuigan, Michael Constraints for toroidal cosmology. 91f:83070
- Meĭnikov, V. N. *see* Ivashchuk, V. D., 91f:83062
- Mena Maragán, G. A. Classical and quantum Lovelock cosmology. 91b:83075
- Mignemi, S. The generalization of the Schwarzschild solution in quasi-Riemannian theories. 91j:83065
- Mostafazadeh, A. *see* Arik, Metin; et al., 91f:83064
- Müller, Ariane *see* Herlt, Eduard; et al., 91f:83067
- Müller-Hoissen, Folkert Gravity actions, boundary terms and second-order field equations. 91j:83073
- Nakamura, Atsushi² (with Shiraishi, Kiyoshi) The universe as a topological defect in a higher-dimensional Einstein-Yang-Mills theory. 91c:83037
- Park, D. H. *see* Cho, Y. M., 91a:83074 and (Not in MR)
- Poinarev, A. G. *see* Demiański, Marek, 91f:83066; Bleyer, Ulrich; et al., (Not in MR) and (Not in MR)
- Pullin, Jorge A. *see* Gleiser, Reinaldo J., 91a:83077
- Pyzh, V. M. *see* Granda, L. N., 91a:83078
- Roberts, M. D. Dimensional reduction and the Lanczos tensor. 91b:83091
- Ross, Dennis K. Spontaneous compactification and quantized charges. (Not in MR)
- Sarmah, J. C. *see* Krori, K. D., 91e:83083
- Scarpitta, G. *see* Caiatiello, Eduardo R.; et al., 91g:83053
- Schmidt, Hans-Jürgen Inflation in Kaluza-Klein cosmology. I. Transformation to fourth-order gravity. 91j:83066
- *see also* Bleyer, Ulrich, 91j:83067
- Segrè, Gino C. Physics is more than four dimensions: another look at the Kaluza Klein theory. 91j:83068
- Shen, You Gen A rigorous interior solution to a static charged sphere in a higher-dimensional spacetime. (Chinese. English summary) 91e:83086
- Wyman's solution in the higher-dimensional space-time. (Not in MR)
- Shiraishi, Kiyoshi *see* Nakamura, Atsushi², 91c:83037
- Śniatycki, Jędrzej *see* Kerbrat, Yvan; et al., 91b:83086
- Sokolowski, Leszek M. Instability of Kaluza-Klein cosmology and a proper choice of the metric ansatz. 91b:83092
- Spindel, Philippe *see* Deruelle, Nathalie, 91j:83059
- Stewart, Bob *see* Stuckey, W. M.; et al., 91b:83076
- Sträuss, Helke *see* Herlt, Eduard; et al., 91f:83067
- Stuckey, W. M. (with Witten, L.; Stewart, Bob) Dynamics of the Mixmaster-type vacuum universe with geometry $R \times S^2 \times S^3 \times S^3$. 91b:83076
- Szczęsny, Jerzy *see* Demiański, Marek; et al., 91g:83054
- Szydłowski, Marek (with Lapeta, Andrzej) The local instability of Mixmaster dynamical systems. 91m:83084
- *see also* Demiański, Marek; et al., 91g:83054
- Tauber, G. E. A geometrical foundation of a unified field theory: an alternative to Kaluza Klein. 91d:83121
- Toms, David J. *see* Ellcott, P., 91c:83034
- Üçoluk, G. *see* Dereli, T., 91a:83075 and 91g:83055
- Verwimp, Theo On higher-dimensional gravity: the Lagrangian, its dimensional reduction and a cosmological model. 91b:83093
- Vishveshwara, C. V. *see* Bhawal, Biplab, 91f:83065
- Vladimirov, Yu. S. Theory of physical structures and multidimensional unified field theories. 91i:83048
- Wang, Mian Kaluza-Klein supergravity and cosmology. 91b:83094
- Witten, L. *see* Stuckey, W. M.; et al., 91b:83076
- Xu, Jian Jun (with Li, Xin Zhou) New higher-dimensional instanton and monopole solutions. 91b:83095
- *see also* Liu, Qi; et al., 91b:83089 and Li, Xin Zhou; et al., 91m:83083
- Yoon, J. H. (with Brill, D. R.) Inflation from extra dimensions. 91f:83071
- Zhong, Yu *see* Li, Xin Zhou, 91g:83056
- Items with secondary classifications in 83E15
- Axenides, Mino On the phase transition to spacetime in string cosmology. 91b:83097
- Bautista Ramos, Raymundo *see* Rosenbaum, M.; et al., 91c:81176 and Nahmad-Achar, E.; et al., 91f:81243
- Bellucci, Stefano (with Depireux, Didier A.; Gates, S. James, Jr.) Consistent and universal inclusion of the Lorentz Chern-Simons form in $D = 10$, $N = 1$ supergravity theories. 91m:83087
- Bruckman, W. Scalar-tensor theories à la Kaluza Klein. 91b:83074
- Bukhbinder, I. L. (with Odintsov, S. D.; Fonarev, O. A.) Two-loop effective action in quantum gravity. 91f:83023
- Bytsenko, A. A. (with Kitorov, S. A.) Temperature induced Casimir effect in Kaluza-Klein supersymmetric theories compactified on torus. 91f:81122
- Chamseddine, A. H. Topological gauge theory of gravity in five and all odd dimensions. 91d:81063
- Chmielewski, Piotr Wave functions on a minisuperspace of higher-dimensional geometries. 91d:83059
- Choquet-Brahat, Yvonne Supergravities and Kaluza-Klein theories. (see 91k:83083)
- Coquereaux, R. (with Esposito-Farese, G.) The theory of Kaluza-Klein-Jordan-Dirichlet revisited. (French summary) 91d:83099
- Crawford, J. P. Bispinor geometry for even-dimensional space-time. 91b:81053
- Demaret, Jacques (with De Rop, Yves; Henneaux, Marc) Are Kaluza-Klein models of the universe chaotic? 91i:81109
- Démichev, A. P. (with Iofa, M. Z.) One-dimensional gravitation on a closed manifold. 91b:81085
- Depireux, Didier A. *see* Bellucci, Stefano; et al., 91m:83087
- De Rop, Yves *see* Demaret, Jacques; et al., 91i:81109
- D'Olivio, J. C. *see* Rosenbaum, M.; et al., 91c:81176
- Esposito-Farese, G. *see* Coquereaux, R., 91d:83099
- Ferraris, Marco *see* Gatto, Letterio; et al., 91g:83029
- Fonarev, O. A. *see* Bukhbinder, I. L.; et al., 91b:83023
- Francaviglia, Mauro *see* Gatto, Letterio; et al., 91g:83029
- Gates, S. James, Jr. *see* Bellucci, Stefano; et al., 91m:83087
- Gatto, Letterio (with Ferraris, Marco; Francaviglia, Mauro) A natural decomposition of S^1 -invariant linear connections on S^1 -bundles. (Italian summary) 91g:53029
- Gazeau, Jean-Pierre (with Hans, Michel; Murenzi, Romain) Invariant bilinear forms on $3 + 2$ de Sitter space. 91b:81087
- Gurin, V. S. (with Trofimenko, A. P.) White holes in Kaluza-Klein theory: windows from higher dimensions. 91g:83041
- Hans, Michel *see* Gazeau, Jean-Pierre; et al., 91b:81087
- Henneaux, Marc *see* Demaret, Jacques; et al., 91i:81109
- Henriques, A. B. *see* Liddle, Andrew R.; et al., 91a:83097
- Hori, Takayuki Lorentz p -brane, superalgebra and conformal invariance. 91b:81130
- Iofa, M. Z. *see* Démichev, A. P., 91b:81085
- Ivashchuk, V. D. (with Meĭnikov, V. N.; Zhuk, A. I.) On Wheeler-DeWitt equation in multidimensional cosmology. (Italian and Russian summaries) 91b:83045
- Jarvis, P. D. The Jordan-Brans-Dicke model from graded higher dimensions. 91g:83046
- Ketov, S. V. Anomalies of Kaluza-Klein theories in six dimensions. 91g:81153
- Kitorov, S. A. *see* Bytsenko, A. A., 91f:81122
- Lessner, Gerhard Einstein-Maxwell null fields and extended massless particles with helicity. 91j:83025
- Liddle, Andrew R. (with Moorhouse, R. G.; Henriques, A. B.) Neutron stars and extra dimensions. 91a:83097
- Madore, John Modification of Kaluza-Klein theory. 91g:58015
- McLachlan, A. Flux breaking at finite temperature in spacetimes with toroidal compactification. 91a:81079
- Meĭnikov, V. N. *see* Ivashchuk, V. D.; et al., 91b:83045
- Moorhouse, R. G. *see* Liddle, Andrew R.; et al., 91a:83097
- Mucio, J. *see* Rosenbaum, M.; et al., 91c:81176 and Nahmad-Achar, E.; et al., 91f:81243
- Müller-Hoissen, Folkert Nonminimal coupling from higher dimensions and four-dimensional black holes. 91a:83021
- Murenzi, Romain *see* Gazeau, Jean-Pierre; et al., 91b:81087
- Myers, Robert C. Baby universes in higher-dimensional theories. 91a:83043
- Nahmad-Achar, E. (with Rosenbaum, M.; Bautista Ramos, Raymundo; Mucio, J.) Spontaneous compactification and coupling constants in a geometric model for $SU(2) \times U(1)$ with gravity. 91f:81243
- *see also* Rosenbaum, M.; et al., 91c:81176
- Odintsov, S. D. *see* Bukhbinder, I. L.; et al., 91b:83023
- Rosenbaum, M. (with D'Olivio, J. C.; Nahmad-Achar, E.; Bautista Ramos, Raymundo; Mucio, J.) Kaluza-Klein model for the unification of the bosonic sector of the electroweak model with gravitation. 91c:81176
- *see also* Nahmad-Achar, E.; et al., 91f:81243
- (Salam, Abdus) *see* Supergravities in diverse dimensions, 91i:83053
- (Sezgin, Ergin) *see* Supergravities in diverse dimensions, 91i:83053
- Shiraishi, Kiyoshi *see* Yoshida, Kensuke, (Not in MR)
- Smrz, P. K. de Sitter gauge structure of space-time. 91e:83076
- Sørensen, Bent The problem of reconciling superstring theory with cosmology. 91c:83040
- Trofimenko, A. P. *see* Gurin, V. S., 91f:83041
- Witten, Edward Some lectures on physics in ten dimensions. (see 91i:81003)
- Xu, Dian Yan Hawking radiation of charged Fermi particles in six-dimensional spherically symmetric spacetime. (Not in MR)
- Yoshida, Kensuke (with Shiraishi, Kiyoshi) A new vector-tensor theory and higher-dimensional cosmology. (Not in MR)
- Zhuk, A. I. *see* Ivashchuk, V. D.; et al., 91b:83045
- Items listed otherwise than by author
- Supergravities in diverse dimensions ★ Supergravities in diverse dimensions. Vol. 1, 2. 91i:83053

83E30 String and superstring theories [see also 81T30]

- Binétruy, Pierre (with Gaillard, Mary K.) A modular invariant formulation of gaugino condensation with a positive semi-definite potential. 91f:83069
- Bodner, Mark (with Cadavid, Ana Cristina) Dimensional reduction of type IIB supergravity and exceptional quaternionic manifolds. 91d:83122
- Cadavid, Ana Cristina *see* Bodner, Mark, 91d:83122
- Cadoni, M. Superstring-inspired supergravity models. 91e:83087
- Cendejas, L. (with Nieto, J. A.) Comments on super p -branes. 91i:83049
- Dabholkar, Atish (with Gibbons, Gary W.; Harvey, Jeffrey A.; Ruiz Ruiz, Fernando) Superstrings and solitons. 91f:83072

- D'Auria, R. (with Frè, Pietro; Gliozzi, Ferdinando; Pasquinucci, A.) 4D fermionic superstrings from thirteen dimensions: σ -model and superconformal properties. 91k:83074
- Dhar, Avinash (with Jayaraman, T.; Narain, K. S.; Wadia, Spenta R.) The role of quantized 2-dim. gravity in string theory. 91c:83038
- Duff, M. J. (with Ferrara, Sergio; Pope, C. N.; Stelle, K. S.) Massive Kaluza-Klein modes and effective theories of superstring moduli. 91d:83123
- Ferrara, Sergio see Duff, M. J.; et al., 91d:83123
- Frè, Pietro see D'Auria, R.; et al., 91k:83074
- Gaillard, Mary K. see Binétruy, Pierre, 91j:83069
- Gates, S. James, Jr. (with Hübsch, Tristan) Calabi-Yau heterotic strings and unidirectional σ -models. 91j:83070
- Gibbons, Gary W. (with Ortiz, Miguel E.; Ruiz Ruiz, Fernando) Existence of global strings coupled to gravity. 91c:83039
- see also Dabholkar, Atish; et al., 91f:83072
- Giddings, Steven B. (with Strominger, Andrew) String wormholes. 91m:83085
- Gieres, François Beltrami differentials and 2d (super)gravity in the chiral gauge. 91j:83071
- Gliozzi, Ferdinando see D'Auria, R.; et al., 91k:83074
- Greene, Brian R. (with Shapere, Alfred; Vafa, Cumrun; Yau, Shing-Tung) Stringy cosmic strings and noncompact Calabi-Yau manifolds. 91g:83057
- Harvey, Jeffrey A. see Dabholkar, Atish; et al., 91f:83072
- Hayashi, Nobuharu String field equation in curved spacetime from Weyl invariance. 91c:83088
- 't Hooft, G. The black hole interpretation of string theory. 91c:83089
- Hübsch, Tristan see Gates, S. James, Jr., 91j:83070
- Jayaraman, T. see Dhar, Avinash; et al., 91c:83038
- Koca, Mehmet Quaternionic and octonionic orbifolds. 91i:83050
- Narain, K. S. see Dhar, Avinash; et al., 91c:83038
- Nieto, J. A. see Candelas, L., 91i:83049
- Oguri, Hiroshi Superconformal symmetry and geometry of Ricci-flat Kähler manifolds. 91m:83086
- Ortiz, Miguel E. see Gibbons, Gary W.; et al., 91c:83039
- Ovrut, Burt A. (with Rama, S. Kalyana) Heterotic string vertex operators and new minimal supergravity. 91j:83072
- Pasquinucci, A. see D'Auria, R.; et al., 91k:83074
- Pope, C. N. see Duff, M. J.; et al., 91d:83123
- Rama, S. Kalyana see Ovrut, Burt A., 91j:83072
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., 91c:83039 and Dabholkar, Atish; et al., 91f:83072
- Sánchez, Norma see de Vega, H. J., 91d:83124
- Shapere, Alfred see Greene, Brian R.; et al., 91g:83057
- Sharatchandra, H. S. Some implications of string theories for classical gravity, quantum gravity and cosmology. 91h:83077
- Sørensen, Bent The problem of reconciling superstring theory with cosmology. 91c:83040
- Stelle, K. S. see Duff, M. J.; et al., 91d:83123
- Strominger, Andrew see Giddings, Steven B., 91m:83085
- Vafa, Cumrun see Greene, Brian R.; et al., 91g:83057
- de Vega, H. J. (with Sánchez, Norma) Quantum string propagation through gravitational shock waves. 91d:83124
- Wadia, Spenta R. see Dhar, Avinash; et al., 91c:83038
- Yau, Shing-Tung see Greene, Brian R.; et al., 91g:83057
- Items with secondary classifications in 83E30
- Antoniadis, I. (with Bachas, C.; Ellis, Jonathan Richard; Nanopoulos, D. V.) An expanding universe in string theory. 91a:83091
- Aoyama, S. 2D effective supergravity on the coadjoint orbit of the superconformal group. 91f:83168
- Argyres, Philip C. (with Nappi, Chiara R.) Massive spin-2 bosonic string states in an electromagnetic background. 91f:83137
- Aspinwall, P. S. (2, 2)-superconformal field theories near orbifold points. 91c:14049
- Bachas, C. see Antoniadis, I.; et al., 91a:83091
- Ballin, David (with Dunbar, David C.; Love, Alex) Four-dimensional fermionic string theories and symmetric orbifolds. 91f:83139
- Bandos, I. A. (with Zheltukhin, A. A.) Twistors, harmonics, and zero-super-p-branes. 91h:83163
- Banks, Thomas (with Lykken, Joseph D.) String theory and two-dimensional quantum gravity. 91c:81093
- Bars, Itzhak Differential geometry in loop space. 91h:58010
- Membrane symmetries and anomalies. 91k:81182
- de Boer, Willem (with van Tonder, André; Rodrigues, João P.) Superinvolutions on super-Riemann surfaces and the supergeometry of type-I superstrings. 91m:81183
- (with Rodrigues, João P.) Type-I from type-II superstrings. 91m:81184
- Bellucci, Stefano (with Gates, S. James, Jr.; Radak, B.; Vashakidze, Sh. I.) Improved supergeometries for type-II Green-Schwarz nonlinear σ -models. 91a:81157
- Berger, B. K. see Matsuki, Takayuki, 91h:83090
- Bergshoeff, E. A. (with de Roo, M.) The quartic effective action of the heterotic string and supersymmetry. 91m:81185
- (with Sergin, Ergin; Tani, Yoshiaki; Townsend, P. K.) Super p -branes as gauge theories of volume preserving diffeomorphisms. 91h:83078
- Brézin, Édouard (with Kazakov, Vladimir Aleksandrovich; Zamolodchikov, Aleksandr B.) Scaling violation in a field theory of closed strings in one physical dimension. 91m:81188
- Bytsenko, A. A. (with Odintsov, S. D.) Modular invariance in membrane theory. 91j:81058
- Candelas, Philip (with Green, Paul S.; Hübsch, Tristan) Rolling among Calabi-Yau vacua. 91j:32024
- Carlip, Steven (with Kogan, Ya. I.) Quantum geometrodynamics of the open topological membrane and string moduli space. 91c:81096
- Castellani, Leonardo A geometric field theory of closed strings: $D = 4$, $N = 1$ loop supergravity. 91c:81071
- Cecotti, S. $N = 2$ supergravity, type IIB superstrings, and algebraic geometry. 91g:32023
- Chapline, George Map coloring and Calabi-Yau vacua. 91h:81168
- Superstrings and quantum gravity. 91k:81123
- Chun, E. J. (with Kim, Jihm E.) Shifted $Z_3 \times Z_3$ orbifold and the 1^9 model. 91i:81070
- Cartright, Thomas Extrinsic geometry of superimmersions. 91d:83118
- Cvetič, Mirjam (with Molera, Juan M.; Ovrut, Burt A.) Kähler potentials for matter scalars and moduli of Z_N orbifolds. 91c:81097
- Depireux, Didier A. (with Gates, S. James, Jr.; Majumdar, Parthasarathi; Radak, B.; Vashakidze, Sh. I.) Towards covariantly quantized $D = 10$ type-II Green-Schwarz σ -models. 91k:81125
- D'Hoker, Eric Recent advances in superstring perturbation theory. 91a:81158
- Dixon, Lance J. (with Kaplunovsky, Vadim S.; Louis, Jan) On effective field theories describing (2, 2) vacua of the heterotic string. 91g:81114
- Duff, M. J. (with Stelle, K. S.) Multi-membrane solutions of $D = 11$ supergravity. 91j:83074
- Dunbar, David C. see Ballin, David; et al., 91f:83139
- Ellis, Jonathan Richard (with Mizrahi, Leah) Multiloop no-renormalization theorems for the ten-dimensional heterotic string. 91k:81127
- see also Antoniadis, I.; et al., 91a:83091
- Ezawa, Z. F. Generation of $OSp(9, 1|2) \times OSp(3, 3|6)$ affine superalgebra from the bosonic string. 91i:81160
- Ferrara, Sergio (with Kounnas, Costas) Extended supersymmetry in four-dimensional type II strings. 91k:81128
- (with Lüst, D.; Theisen, S.) Target space modular invariance and low-energy couplings in orbifold compactifications. 91h:81103
- (with Frè, Pietro) Type II superstrings on twisted group manifolds and their heterotic counterparts. 91g:81115
- (with Lüst, D.; Theisen, S.) Duality transformations for blown-up orbifolds. 91h:32017
- Font, Anamaría (with Ibáñez, Luis E.; Quevedo, Fernando; Sierra, Alejandro) The construction of "realistic" four-dimensional strings through orbifolds. 91c:81101
- (with Ibáñez, Luis E.; Quevedo, Fernando; Sierra, Alejandro) Twisted $N = 2$ coset models: discrete torsion and asymmetric heterotic string compactifications. 91j:81061
- Foussats, A. (with Zandron, O.) Higher curvature supergravity and the massless sector of superstring theories. Hamiltonian formalism. 91h:83051
- Frè, Pietro see Ferrara, Sergio, 91k:81128
- Fuchs, Jürgen (with Klemm, Albrecht; Scheich, Christoph; Schmidt, Michael G.) Gepner models with arbitrary affine invariants and the associated Calabi-Yau spaces. 91c:14017
- Gambao, Jorge (with Ramirez Romero, Cupatitzio; Ruiz-Alta, M.) Null spinning strings. 91m:81201
- Gates, S. James, Jr. see Bellucci, Stefano; et al., 91a:81157 and Depireux, Didier A.; et al., 91k:81125
- Gravel, Pierre Discontinuous fields and multiconnected extended spacetimes. 91c:83036
- Green, Paul S. see Candelas, Philip; et al., 91j:32024
- Greene, Brian R. Superconformal compactifications in weighted projective space. 91j:81064
- (with Plesser, M. R.) Duality in Calabi-Yau moduli space. 91h:32018
- Guendelman, E. I. Duality, strings and inflation. 91m:83096
- Güven, R. Supermembranes on black holes. 91a:83079
- Hofava, Petr Strings on world-sheet orbifolds. 91c:81104
- Hori, Takayuki Lorentz p -brane, superalgebra and conformal invariance. 91h:81130
- Hübsch, Tristan see Candelas, Philip; et al., 91j:32024
- Ibáñez, Luis E. see Font, Anamaría; et al., 91c:81101 and 91j:81061
- Johnston, Desmond Alexander Putting Liouville into superstrings. 91h:81109
- Kaiser, Ralf Joachim see Marquard, U.; et al., 91c:81081
- Kaplunovsky, Vadim S. see Dixon, Lance J.; et al., 91g:81114
- Katsuki, Yasuhiko (with Kawamura, Yoshiharu; Kobayashi, Tatsuo; Ohtsubo, Noriyasu; Tanioka, Kazutaka) Gauge groups of Z_N orbifold models. 91c:81058
- Kawamura, Yoshiharu see Katsuki, Yasuhiko; et al., 91c:81058
- Kazakov, Vladimir Aleksandrovich see Brézin, Édouard; et al., 91m:81188
- Ketov, S. V. (with Kuzenko, S. M.; Solov'ev, O. A.) Covariant calculation of the heterotic string effective action in a curved (1, 0) superspace. 91m:81209
- Kim, Jihm E. see Chun, E. J., 91i:81070
- Klemm, Albrecht see Fuchs, Jürgen; et al., 91a:14017
- Kobayashi, Tatsuo see Katsuki, Yasuhiko; et al., 91c:81058
- Kogan, Ya. I. see Carlip, Steven, 91c:81096
- Kounnas, Costas see Ferrara, Sergio, 91k:81128
- Kreuzer, Maximilian Gauge theory of volume preserving diffeomorphisms. 91m:81299
- Kwak, P. Geometry of the covariant Brink-Schwarz superparticle in a curved superspace. 91d:81159
- Kuzenko, S. M. see Ketov, S. V.; et al., 91m:81209
- Lerche, Wolfgang (with Vafa, Cumrun; Warner, Nicholas P.) Chiral rings in $N = 2$ superconformal theories. 91d:81132
- Louis, Jan see Dixon, Lance J.; et al., 91g:81114
- Love, Alex see Ballin, David; et al., 91f:83139
- Luckock, H. C. (with Moss, Ian) The quantum geometry of random surfaces and spinning membranes. 91f:81154
- Lüst, D. see Ferrara, Sergio; et al., 91h:81103 and 91h:32017
- Lykken, Joseph D. see Banks, Thomas, 91c:81093
- Lyaker, Monika (with Schimmrigk, Rolf) ADE quantum Calabi-Yau manifolds. 91m:32030
- Majumdar, Parthasarathi see Depireux, Didier A.; et al., 91k:81125
- Marquard, U. (with Kaiser, Ralf Joachim; Scholl, Marcus) Lorentz algebra and critical dimension for the supermembrane. 91c:81081
- (with Scholl, Marcus) Lorentz algebra and critical dimension for the bosonic membrane. 91k:81060
- Matsuki, Takayuki (with Berger, B. K.) Consistent quantization of a plane symmetric cosmology. 91h:83090
- Miković, A. R. Vanishing of the cosmological constant in the Green-Schwarz superstring theory. 91f:81155
- Mizrahi, Leah see Ellis, Jonathan Richard, 91k:81127
- Molera, Juan M. see Cvetič, Mirjam; et al., 91c:81097
- Mondalini, R. P. Towards a unified theory of strings and gravity via areal spaces. 91c:83030
- Moss, Ian see Luckock, H. C., 91f:81154

- Murayama, Akihiro A new three generation model in (2,0) heterotic string compactifications. 91m:81217a
 — Errata: "A new three generation model in (2,0) heterotic string compactifications". 91m:81217b
- Nanopoulos, D. V. *see* Antoniadis, I.; et al., 91a:83091
- Nappi, Chiara R. *see* Argyres, Philip C., 91f:81137
- Narain, K. S. Toroidal and orbifold compactification of heterotic string. 91f:81156
- Ne'eman, Yuval (with Šijački, Djordje) Double-covering of diffeomorphisms for superstrings in generic curved space. (see 91m:81007)
- Nissimov, E. (with Pacheva, S.) New superspace action for $D = 4$ superstrings. 91a:81172
- Odintsov, S. D. (with Wiltshire, D. L.) The static potential for bosonic p -branes. 91d:81109
 — $SL(2, \mathbb{Z})$ invariance in a closed supermembrane. 91j:81067
 — *see also* Bytsenko, A. A., 91j:81058
- Ohtaubo, Noriyasu *see* Katsuki, Yasuhiko; et al., 91e:81058
- Ovrut, Burt A. *see* Cvetič, Mirjam; et al., 91e:81097
- Pacheva, S. *see* Nissimov, E., 91a:81172
- Panagiotakopoulos, C. Superstring models from the second realization of Yau's three-generation manifold. 91a:81173
- Pastı, P. (with Tonin, M.) Covariant quantization of Green-Schwarz heterotic superstring in curved background. 91h:81160
- Pavšić, Matej On the consistent derivation of rigid particles from strings. 91e:81083
- Plesser, M. R. *see* Greene, Brian R., 91h:32018
- Pope, C. N. (with Sezgin, Ergin) A generalised Virasoro algebra for the type IIA superstring. 91f:81158
- Preitschopf, Christian R. (with Thorn, Charles B.; Yost, Scott A.) Superstring field theory. 91j:81069
- Quevedo, Fernando *see* Font, Anamaría; et al., 91c:81101 and 91j:81061
- Radak, B. *see* Bellucci, Stefano; et al., 91a:81157 and Depireux, Didier A.; et al., 91h:81125
- Ramirez Romero, Capatitzlo *see* Gamboa, Jorge; et al., 91m:81201
- Rodrigues, João P. *see* de Beer, Willem; et al., 91m:81183 and 91m:81184
- de Roo, M. *see* Bergshoeff, E. A., 91m:81185
- Ross, Graham G. Low energy models from the superstring. 91c:81114
- Ruiz-Altaba, M. *see* Gamboa, Jorge; et al., 91m:81201
- Sánchez, Norma *see* de Vega, H. J., (91m:00033)
- Sato, Hikaru Lower-rank gauge groups in orbifold compactification with background gauge fields. 91j:81071
- Scheich, Christoph *see* Fuchs, Jürgen; et al., 91a:14017
- Schlimmrigk, Rolf Heterotic RG flow fixed points with nondiagonal affine invariants. 91h:81082
 — *see also* Lynker, Monika, 91m:32030
- Schmidt, Michael G. *see* Fuchs, Jürgen; et al., 91a:14017
- Scholl, Marcus *see* Marquard, U.; et al., 91e:81081 and 91h:81060
- Sezgin, Ergin *see* Pope, C. N., 91f:81158 and Bergshoeff, E. A.; et al., 91h:83078
- Sierra, Alejandro *see* Font, Anamaría; et al., 91c:81101 and 91j:81061
- Šijački, Djordje *see* Ne'eman, Yuval, (91m:81007)
- Solodukhin, S. N. Strings and antisymmetric tensor fields. (German summary) 91a:81175
- Solov'ev, O. A. *see* Ketov, S. V.; et al., 91m:81209
- Stelle, K. S. *see* Duff, M. J., 91j:83074
- Strominger, Andrew Heterotic solitons. 91m:81225a
 — Erratum: "Heterotic solitons". 91m:81225b
- Tanii, Yoshiaki *see* Bergshoeff, E. A.; et al., 91h:83078
- Tanioka, Kazutaka *see* Katsuki, Yasuhiko; et al., 91e:81058
- Theisen, S. *see* Ferrara, Sergio; et al., 91h:81103 and 91h:32017
- Thorn, Charles B. *see* Preitschopf, Christian R.; et al., 91j:81069
- van Tonder, André *see* de Beer, Willem; et al., 91m:81183
- Tonin, M. *see* Pastı, P., 91h:81160
- Townsend, P. K. Three lectures on supermembranes. (see 91i:81004)
 — *see also* Bergshoeff, E. A.; et al., 91h:83078
- Tseytlin, A. A. Two-dimensional quantum gravity and strings. 91c:81148
- Vafa, Cumrun *see* Lerche, Wolfgang; et al., 91d:81132
- Vashakidze, Sh. I. *see* Bellucci, Stefano; et al., 91a:81157 and Depireux, Didier A.; et al., 91h:81125
- Vasiliev, D. V. A new class of compactification of the 11-dimensional supermembranes. 91d:83127
- de Vega, H. J. (with Sánchez, Norma) Strings and quantum gravity. (see 91m:00033)
- Veneziano, G. Strings and gravitation. 91c:81118
- Warner, Nicholas P. *see* Lerche, Wolfgang; et al., 91d:81132
- Wiegmann, P. B. Extrinsic geometry of superstrings. 91h:81130
- Wiltshire, D. L. *see* Odintsov, S. D., 91d:81109
- Yost, Scott A. *see* Preitschopf, Christian R.; et al., 91j:81069
- Yüan, Hai Shih On Calabi-Yau orbifolds in weighted projective spaces. 91m:14064
- Zaikov, R. P. Virasoro algebras in the theory of bosonic p -branes. 91k:81059
 — Generalized self-dual bosonic p -branes and instanton-like solutions. 91g:81102
- Zamolodchikov, Aleksandr B. *see* Brezis, Édouard; et al., 91m:81188
- Zandron, O. *see* Foussats, A., 91h:83051
- Zhelukhin, A. A. *see* Bando, I. A., 91h:81163
- Bergshoeff, E. A. (with Sezgin, Ergin; Tanii, Yoshiaki; Townsend, P. K.) Super p -branes as gauge theories of volume preserving diffeomorphisms. 91h:83078
- Choquet-Bruhat, Yvonne Supergravities and Kaluza-Klein theories. (see 91k:83003)
- Depireux, Didier A. *see* Bellucci, Stefano; et al., 91h:83087
- Duff, M. J. (with Stelle, K. S.) Multi-membrane solutions of $D = 11$ supergravity. 91j:83074
- Fabris, Júlio C. *see* Balbinot, Roberto; et al., 91a:83083
- Foussats, A. (with Laurı, R.; Zandron, O.) About the generalized variational principle used in supergravity. 91d:83125
 — (with Zandron, O.) Matter supermultiplet coupled to supergravity in the second order canonical formalism. 91j:83075
 — (with Zandron, O.) Higher curvature supergravity and the massless sector of superstring theories. Hamiltonian formalism. 91i:83051
- Gates, S. James, Jr. *see* Bellucci, Stefano; et al., 91m:83087
- Grimm, Richard Supergravity, Kähler superspace and gauged supersymmetric sigma models. 91g:83058
- Kalyana Rama, S. *see* Ovrut, Burt A., 91h:83075
- Kerner, Richard *see* Balbinot, Roberto; et al., 91a:83083
- Ketov, S. V. Cancelling gravitational anomalies in $d = 6$ supergravities. 91a:83085
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) de Sitter gravity and supergravity in three dimensions as Chern-Simons theories. 91h:83079
- Laurı, R. *see* Foussats, A.; et al., 91d:83125
- Lhallabi, T. (with Saidi, E. H.) Two-dimensional (4,0) supergravity in harmonic superspace. The action and the matter couplings. 91h:83052
- Liu, Zheng Ren *see* Shao, Chang Gui; et al., 91h:83076
- Mansouri, F. *see* Koehler, Kenneth Rowland; et al., 91h:83079
- Meijer, E. J. *see* de Wit, B., 91a:83088
- Merkulov, S. A. Geometry of $N = 1$ supergravity in $(m|n|m+n)$ -dimensional superspace. 91m:83088
- Nakanishi, Noboru Local supersymmetry of gravity different from supergravity. 91d:83126
- Nicolai, H. Noncompact symmetries, extended supergravities and the Wheeler-DeWitt equation. 91h:83096
- Odintsov, S. D. Effective action in multidimensional gauged supergravities and spontaneous compactification. 91a:83086
- Ovrut, Burt A. (with Rama, S. Kalyana) New minimal supergravity, Chern-Simons terms and induced massive gauge fields. 91a:83087
 — (with Kalyana Rama, S.) Lorentz and $U(1)$ Chern-Simons terms in new minimal supergravity. 91h:83075
- Rama, S. Kalyana *see* Ovrut, Burt A., 91a:83087
- de Roo, M. (with Wiedemann, Alfred; Zijlstra, E.) The construction of R^2 actions in $D = 4$, $N = 1$ supergravity. 91f:83073
- Sabra, Wafic A. (with Thomas, Steven) Perturbing induced quantum supergravity in $1 + 1$ dimensions. 91c:83042
- Saidi, E. H. *see* Lhallabi, T., 91h:83052
- (Salam, Abdus) *see* Supergravities in diverse dimensions, 91i:83053
- Sezgin, Ergin *see* Bergshoeff, E. A.; et al., 91h:83078 and Supergravities in diverse dimensions, 91i:83053
- Shao, Chang Gui (with Liu, Zheng Ren; Xu, Bang Qing) $ISO(3,1|N)$ and $Osp(N|4)$ supergravities. 91h:83076
- Slawianowski, Jan J. Space-time as a micromorphic continuum. 91m:83089
- Solov'ev, O. A. (1,0) quantum supergravity. (Not in MR)
- Stelle, K. S. *see* Duff, M. J., 91j:83074
- Tanii, Yoshiaki *see* Bergshoeff, E. A.; et al., 91h:83078
- Thomas, Steven *see* Sabra, Wafic A., 91c:83042
- Townsend, P. K. *see* Bergshoeff, E. A.; et al., 91h:83078
- Vasiliev, D. V. A new class of compactification of the 11-dimensional supermembranes. 91d:83127
- Vaz, Cenalo *see* Koehler, Kenneth Rowland; et al., 91h:83079
- Wiedemann, Alfred *see* de Roo, M.; et al., 91f:83073
- de Wit, B. (with Meijer, E. J.) Subminimal $N = 2$ supergravity. 91a:83088
- Witten, L. *see* Koehler, Kenneth Rowland; et al., 91h:83079
- Xu, Bang Qing *see* Shao, Chang Gui; et al., 91h:83076
- Yajima, Satoshi Index theorem and chiral anomaly in $D = 4$, $N = 1$ supergravity. 91e:83090
- Zakharov, O. A. Definition of the superspace in supergravity theory. 91a:83089
- Zandron, O. *see* Foussats, A.; et al., 91d:83125; 91h:83051 and 91j:83075
- Zet, Gh. *see* Agop, Marcel, 91j:83073
- Zijlstra, E. *see* de Roo, M.; et al., 91f:83073
- Zupnik, B. M. Nilpotent algebras of the generalized differential forms and the geometry of superfield theories. 91m:83090

Items listed otherwise than by author

Supergravities in diverse dimensions ★ Supergravities in diverse dimensions. Vol. 1, 2. 91i:83053

Items with secondary classifications in 83E50

- Abe, Mitsuo Supersymmetric extension of local Lorentz symmetry in the vierbein formalism of Einstein gravity. 91m:83041
- Aoki, Kenichiro *see* Montano, David; et al., 91m:81259
- Bandyopadhyay, Pratap Quantum gravity, supergravity and torsion. 91d:83057
- Bellucci, Stefano (with Gates, S. James, Jr.; Radak, B.; Vashakidze, Sh. I.) Improved supergeometries for type-II Green-Schwarz nonlinear σ -models. 91a:81157
- Blindry, Pierre (with Gaillard, Mary K.) A modular invariant formulation of gaugino condensation with a positive semi-definite potential. 91j:83069
- Bodner, Mark (with Cadavid, Ana Cristina) Dimensional reduction of type IIB supergravity and exceptional quaternionic manifolds. 91d:83122
- Cadavid, Ana Cristina *see* Bodner, Mark, 91d:83122
- Canoni, M. Superstring-inspired supergravity models. 91e:83087
- Castellani, Leonardo A geometric field theory of closed strings: $D = 4$, $N = 1$ loop supergravity. 91e:81071

83E50 Supergravity

- Agop, Marcel (with Zet, Gh.) Le transport parallèle du plan Lobachevski et le potentiel plan dans la supergravitation $N = 1$. (English summary) [Parallel transport of the Lobachevski plane and the plane potential in $N = 1$ supergravity] 91j:83073
- Alnowaiser, Aziz Supergravity with $N = 2$ in two dimensions. 91c:83041
- Balbinot, Roberto (with Fabris, Júlio C.; Kerner, Richard) A singularity-free cosmological solution of $N = 2$, $D = 5$ supergravity. 91a:83083
- Baullies, Laurent BRS construction of supergravity and field theory applications. 91a:83084
- Bellucci, Stefano (with Depireux, Didier A.; Gates, S. James, Jr.) Consistent and universal inclusion of the Lorentz Chern-Simons form in $D = 10$, $N = 1$ supergravity theories. 91m:83087

- Cecotti, S. $N = 2$ supergravity, type IIB superstrings, and algebraic geometry. 91g:32023
- Chung, Won-Sang (with Kang, Sin Kyu; Lee, Jungjai; You, Chung-Ki; Kim, Jae Kwan) $N = 2$ superconformal gravity and $OSp(2/2)$ Kac-Moody algebra in $(1+1)$ dimensions. 91h:81137
- (with Kang, Sin Kyu; Lee, Jungjai; Kim, Jae Kwan) Induced W -supergravity in $1+1$ dimensions. (Not in MR)
- Curtright, Thomas Extrinsic geometry of superimmersions. 91d:83118
- Das, Sumit R. Physical states, vacuum charges and exponents in two-dimensional quantum gravity and supergravity. 91c:81130
- Delduc, F. (with Kalitzin, S.; Sokatchev, E.) Geometry of σ -models with heterotic supersymmetry. 91k:81185
- Di Francesco, P. (with Distler, Jacques; Kutasov, David) Superdiscrete series coupled to 2D supergravity. 91k:81158
- Distler, Jacques (with Hlousek, Zvonimir; Kawai, Hikaru) Super-Liouville theory as a two-dimensional, superconformal supergravity theory. 91d:81123
- see also Di Francesco, P.; et al., 91k:81158
- Ferrara, Sergio (with Van Proeyen, Antoine) A theorem on $N = 2$ special Kähler product manifolds. 91a:53109
- Foussats, A. (with Laur, R.; Zandron, O.) Supermanifold and Grassmann variables for supergravity gauge theories. 91b:58023
- Fradkin, E. S. (with Linetski, V. Ya.) Conformally invariant higher spin field theories. 91f:81125
- Gallard, Mary K. see Binétruy, Pierre, 91j:83069
- Gates, S. James, Jr. see Bellucci, Stefano; et al., 91a:81157
- Gieres, François Beltrami differentials and 2d (super)gravity in the chiral gauge. 91j:83071
- Göven, R. Supermembranes on black holes. 91a:83079
- Hlousek, Zvonimir see Distler, Jacques; et al., 91d:81123
- Hervath, Zoltán Induced two-dimensional supergravity as a theory of free fields. 91c:81137
- Ivanov, Evgenii Alekseevich² (with Kapustin, A. A.) Geometry of spontaneously broken local $N = 1$ supersymmetry in supergravity. 91a:81077
- Kalitzin, S. see Delduc, F.; et al., 91k:81185
- Kang, Sin Kyu see Chung, Won-Sang; et al., 91h:81137 and (Not in MR)
- Kanno, Hiroaki (with Myung, Y. S.) Torsion constraints of $(2,0)$ supergravity and line integrals on $N = 2$ super Riemann surfaces. 91f:81189
- Kapustin, A. A. see Ivanov, Evgenii Alekseevich², 91a:81077
- Kawai, Hikaru see Distler, Jacques; et al., 91d:81123
- Ketov, S. V. On the topological value of anomalies in Kaluza-Klein field theories. 91a:83081
- Anomalies of Kaluza-Klein theories in six dimensions. 91g:81153
- Kim, Jae Kwan see Chung, Won-Sang; et al., 91h:81137 and (Not in MR)
- Koehler, Kenneth Rowland (with Mansouri, F.; Vaz, Cenalo; Witten, L.) Wilson loop observables in $(2+1)$ -dimensional Chern-Simons supergravity. 91h:81095
- Kuramoto, Tetsuji Two-dimensional supergravity in the super light-cone gauge coupling to a superconformal field theory. 91m:81255
- Kutasov, David see Di Francesco, P.; et al., 91k:81158
- Laur, R. see Foussats, A.; et al., 91b:58023
- Lee, Jungjai see Chung, Won-Sang; et al., 91h:81137 and (Not in MR)
- Linetski, V. Ya. see Fradkin, E. S., 91f:81125
- Mansouri, F. see Koehler, Kenneth Rowland; et al., 91h:81095
- Meissner, Krzysztof A. (with Pawelczyk, Jacek) Some perturbative results for two-dimensional gravity. 91d:81080
- Montano, David (with Aoki, Kenichiro; Sonnenschein, Jacob) Topological supergravity in two dimensions. 91m:81259
- Myung, Y. S. see Kanno, Hiroaki, 91f:81189
- Orrut, Burt A. (with Rama, S. Kalyana) Chern-Simons induced massive gauge fields in four dimensions. 91b:81074
- (with Rama, S. Kalyana) Heterotic string vertex operators and new minimal supergravity. 91j:83072
- Pawelczyk, Jacek see Meissner, Krzysztof A., 91d:81080
- Prataro, Agostino Wholly cohomological PDEs. 91c:58151
- Radak, B. see Bellucci, Stefano; et al., 91a:81157
- Rama, S. Kalyana see Orrut, Burt A., 91b:81074 and 91j:83072
- Rashkov, R. Ch. On the super Wess-Zumino-Novikov-Witten model and 2D supergravity. 91h:81167
- Saidi, E. H. (with Zakkari, M.) $N = 4$ $SU(2)$ conformal invariance in harmonic superspace: the super-Schwarzian derivative. 91g:81148
- Schlünzen, Frank The Knizhnik-Polyakov-Zamolodchikov equation in induced quantum (super)gravity. 91m:81272
- Sokatchev, E. see Delduc, F.; et al., 91k:81185
- Sonnenschein, Jacob see Montano, David; et al., 91m:81259
- Van Proeyen, Antoine see Ferrara, Sergio, 91a:53109
- Vashakidze, Sh. I. see Bellucci, Stefano; et al., 91a:81157
- Vaz, Cenalo see Koehler, Kenneth Rowland; et al., 91h:81095
- Wang, Mian Kaluza-Klein supergravity and cosmology. 91b:83094
- Witten, L. see Koehler, Kenneth Rowland; et al., 91h:81095
- Xu, Rui-Ming Two-dimensional quantum $(0,2)$ supergravity. 91g:81047
- You, Chung-Ki see Chung, Won-Sang; et al., 91h:81137
- Zakkari, M. see Saidi, E. H., 91g:81148
- Zandron, O. see Foussats, A.; et al., 91b:58023

83E99 None of the above, but in this section

- Antiel, S. The origin of the electromagnetic interaction in Einstein's unified field theory with sources. 91k:83077
- Yu, Shen A nonlocalistic unified field theory of gravitation, electromagnetism and spin. 91h:83080
- Items with secondary classifications in 83E99
- González-Martín, Gustavo Physical geometry: a unified theory of gravitation, electromagnetism and other interactions. 91m:81319
- Miroshnik, A. O. see Vladimirov, Yu. S.; et al., (Not in MR)

- Mishakov, A. V. see Vladimirov, Yu. S.; et al., (Not in MR)
- Smrz, P. K. Construction of space-time from linear connections. 91m:83063
- Vladimirov, Yu. S. (with Miroshnik, A. O.; Mishakov, A. V.) Multi-dimensional models of physical interactions. (German summary) (Not in MR)
- Wen, Jia Ru (with Zheng, Han Qing) Wormholes made with $SU_L(n) \times SU_R(n)$ or $O(n)$ nonlinear σ models. 91k:81107
- Zheng, Han Qing see Wen, Jia Ru, 91k:81107

83F05 Cosmology

- Abdel-Rahman, A.-M. M. A critical density cosmological model with varying gravitational and cosmological "constants". 91a:83090
- Accetta, Frank S. (with Steinhart, Paul J.) New approaches for inflationary cosmology. 91i:83054
- Amendola, Luca (with Litterio, Marco; Occhionero, Franco) The phase-space view of inflation. I. The non-minimally coupled scalar field. 91b:83055
- Anderson, Paul R. (with Hiscock, William A.; Holman, R.) Quantum effects of domain-wall formation in the early Universe. 91d:83128
- Antoniadis, I. (with Bachas, C.; Ellis, Jonathan Richard; Nanopoulos, D. V.) An expanding universe in string theory. 91a:83091
- Assad, M. J. D. (with Letelier, Patricio S.) On a class of inflationary universes of the self-consistent Einstein-Cartan theory. 91e:83091
- Axenides, Mimos On the phase transition to spacetime in string cosmology. 91b:83097
- Bachas, C. see Antoniadis, I.; et al., 91a:83091
- Beciu, M. I. A feedback mechanism for the cosmological constant. (Not in MR)
- Berkin, Andrew L. (with Maeda, Kei-ichi) Effects of R^3 and $R \square R$ terms on R^2 inflation. 91i:83056
- R^2 inflation in anisotropic universes. 91f:83074
- Berman, Marcelo Samuel Cosmological models with variable gravitational and cosmological "constants". 91m:83091
- Biesiada, Marek (with Szydłowski, Marek) Multidimensional cosmological world models as two-dimensional dynamical systems. 91d:83129
- Bonner, W. B. (with Chamorro, A.) Models of voids in the expanding universe. 91f:83075
- (Brandenberger, Robert) see Linde, A. D., 91g:83060
- Burd, A. B. (with Burd, N.; Tavakoli, R. K.) Chaos, entropy and cosmology. 91m:83092
- Buric, N. see Burd, A. B.; et al., 91m:83092
- Caianiello, Eduardo R. (with Gasperini, M.; Scarpetta, G.) Inflation and singularity prevention in a model for extended-object-dominated cosmology. 91m:83093
- Carot, J. see Di Prisco, A.; et al., 91b:83099
- Carr, Bernard J. General relativity and the early Universe. (see 91i:83003)
- Carter, Brandon Tuned string geometries for stationary gravitational fields. 91b:83098
- Mechanics of cosmic rings. 91a:83092
- Chamorro, A. see Bonner, W. B., 91f:83075
- Clarke, C. J. S. (with Ellis, George F. R.; Vickers, J. A. G.) The large-scale bending of cosmic strings. 91a:83093
- Di Prisco, A. (with Herrera, Luis; Carot, J.) On the chaotic behaviour induced by surface phenomena in some general relativistic stellar models. 91b:83099
- Durgapal, M. C. see Negi, P. S.; et al., 91d:83134
- Ehlers, Jürgen see Hübner, Peter, 91j:83079
- Ellis, George F. R. see Clarke, C. J. S.; et al., 91a:83093
- Ellis, Jonathan Richard see Antoniadis, I.; et al., 91a:83091
- Fahr, Hans Jörg The modern concept of vacuum and its relevance for the cosmological models of the Universe. (see 91f:00018)
- Gasperini, M. see Caianiello, Eduardo R.; et al., 91m:83093
- Gibbons, Gary W. Vortex motion in the neighbourhood of a cosmic string. 91f:83076
- (with Ortiz, Miguel E.; Ruiz Ruiz, Fernando) Stringy cosmic strings with horizons. 91k:83078
- Goldwirth, Dalia S. Initial conditions for new inflation. 91d:83130
- (with Piran, Tsvi) Inflation—an alternative to the singular Big Bang. 91m:83094
- Gottlöber, Stefan Ein singularitätsfreies kosmologisches Modell. (English summary) [A singularity-free cosmological model] (see 91i:83002)
- Double inflation and the evolution of perturbations. (Not in MR)
- Grebot, Guy see Letelier, Patricio S.; et al., 91h:83100
- Grishchuk, L. P. (with Solokhin, M.) Spectra of relic gravitons and the early history of the Hubble parameter. 91m:83095
- Guendelman, E. I. Duality, strings and inflation. 91m:83096
- Harari, Diego (with Polychronakos, Alexios P.) A global string with an event horizon. 91a:83094
- Hargreaves, J. C. The dimensional cosmological principle. 91d:83131
- Hawking, Stephen W. Do wormholes fix the constants of nature? 91d:83132
- Helliwell, T. M. (with Konkowski, D. A.) The linearized spacetime of superconducting cosmic strings. 91f:83077
- Henriques, A. B. see Liddle, Andrew R.; et al., 91a:83097
- Herrera, Luis see Di Prisco, A.; et al., 91b:83099
- Hüsler, Markus Anisotropic asymptotic behavior in chaotic inflation. 91j:83076
- Hildebrand, Erik A. see Tang, Paul C. L., (91f:00018)
- Hiscock, William A. see Anderson, Paul R.; et al., 91d:83128
- Holman, R. see Anderson, Paul R.; et al., 91d:83128
- Holvorcem, Paulo R. see Letelier, Patricio S.; et al., 91b:83100
- Huang, Chao Guang (with Zhou, Pei Yuan) The relativistic cosmology under the harmonic condition. I. 91j:83077
- see also Zhou, Pei Yuan, (Not in MR)
- Hübner, Peter (with Ehlers, Jürgen) Inflation in curved model universes with noncritical density. 91k:83079
- Hwang, Jai-chen (with Vishniac, Ethan T.) Analyzing cosmological perturbations using the covariant approach. 91a:83095
- Jensen, Lars Gerhard (with Stein-Schabes, Jaime A.) A no-hair theorem for inhomogeneous cosmologies. 91a:83096
- Jorda, S. D. see Novello, M., 91b:83103

- Kasper, Uwe (with Schmidt, Hans-Jürgen) Über die Bedeutung von Skalarfeldern für die Kosmologie. (English summary) [On the importance of scalar fields for cosmology] (see 91f:83062)
- Quasi-de Sitter stage of the cosmic evolution, de Sitter space-time, and creation of matter. (Not in MR)
- Khalifa, L. A. Inflationary fallacies. 91g:83059
- Konkowski, D. A. see Helliwell, T. M., 91f:83077
- Letelier, Patricio S. (with Holvorcem, Paulo R.; Grebot, Guy) Cosmic loops and bubbles in expanding universes. 91b:83100
- see also Assad, M. J. D., 91e:83091
- Liddle, Andrew R. (with Moorhouse, R. G.; Henriques, A. B.) Neutron stars and extra dimensions. 91a:83097
- Linde, A. D. ★ Inflation and quantum cosmology. 91g:83060
- ★ Физика элементарных частиц и инфляционная космология. (Russian) [Elementary particle physics and inflationary cosmology] 91f:83078
- Litterio, Marco see Amendola, Luca; et al., 91f:83055
- Lukács, B. (with Paál, G.) Nontrivial Pflaffian forms in cosmology. 91e:83092
- Maeda, Kei-ichi Inflation and cosmic no hair conjecture. 91b:83101
- see also Berkin, Andrew L., 91f:83056
- Mannheim, Philip D. Conformal cosmology with no cosmological constant. 91b:83102
- Mészáros, M. see Molnár, P., 91f:83057
- Molnár, P. (with Mészáros, M.) Dissipative model of the universe. (German summary) 91f:83057
- Moorhouse, R. G. see Liddle, Andrew R.; et al., 91a:83097
- Müller, Volker (with Schmidt, Hans-Jürgen; Starobinskiĭ, A. A.) Power-law inflation as an attractor solution for inhomogeneous cosmological models. 91d:83133
- Nanopoulos, D. V. see Antoniadis, I.; et al., 91a:83091
- Negi, P. S. (with Pande, A. K.; Durgapal, M. C.) A core-envelope massive distribution with a parabolic density distribution in the core. 91d:83134
- Novello, M. (with Jorda, S. D.) Does there exist a cosmological horizon problem? 91b:83103
- Oechler, Franco see Amendola, Luca; et al., 91f:83055
- Ortiz, Miguel E. see Gibbons, Gary W.; et al., 91f:83078
- Paál, G. see Lukács, B., 91e:83092
- Pande, A. K. see Negi, P. S.; et al., 91d:83134
- Perlt, Holger On real-time evolution in cosmology. (Not in MR)
- Piran, Tsvi see Goldwirth, Dalia S., 91m:83094
- Polychronakos, Alexios P. see Harari, Diego, 91a:83094
- Raychaudhuri, A. K. Cosmic strings in general relativity. 91d:83135
- Ruiz Ruiz, Fernando see Gibbons, Gary W.; et al., 91f:83078
- Scarpitta, G. see Caianello, Eduardo R.; et al., 91m:83093
- Schmidt, Hans-Jürgen The massive scalar field in a closed Friedmann universe model—rigorous results. (German summary) 91f:83078
- see also Müller, Volker; et al., 91d:83133 and Kasper, Uwe, (91f:83062)
- Seidel, Edward Gravitational radiation from even-parity perturbations of stellar collapse: mathematical formalism and numerical methods. 91f:83079
- Shipov, G. I. (with Skalsky, V.) On the creation of the universes from vacuum. 91d:83136
- Skalsky, V. see Shipov, G. I., 91d:83136
- Solokhin, M. see Grishchuk, L. P., 91m:83095
- Starobinskiĭ, A. A. see Müller, Volker; et al., 91d:83133
- Steinhardt, Paul J. see Accetta, Frank S., 91f:83054
- Stein-Schabes, Jaime A. see Jensen, Lars Gerhard, 91a:83096
- Stelmach, J. Nonmetricity driven inflation. 91m:83097
- Szydlowski, Marek see Biesiada, Marek, 91d:83129
- Tang, Paul C. L. (with Hildebrand, Erik A.) The cosmological singularity: a philosophical analysis. (see 91f:80018)
- Tavakoli, R. K. see Burd, A. B.; et al., 91m:83092
- Vickers, J. A. G. see Clarke, C. J. S.; et al., 91a:83093
- Vishniac, Ethan T. see Hwang, Jai-chan, 91a:83095
- Zhou, Pei Yuan (with Huang, Chao Guang) The red shift in the de Sitter universe. (Not in MR)
- see also Huang, Chao Guang, 91j:83077
- Items with secondary classifications in 83F05
- Aguirregabiria, J. M. (with Chamorro, A.; Etxebarria, J. R.; Rivas, Martín) Embedding of a Demiański cavity with small rotation parameter in a perturbation of a Friedmann universe with cosmological constant. 91g:83010
- Arik, Metin (with Mungan, Muhittin) Symmetry changes during the evolution of the universe. 91j:83018
- Balboosunov, M. B. (with Gurovich, V. T.; Imanaliev, U. M.) The early Universe with quantum nonconformal fields. 91b:83052
- Baker, William M. Cosmic strings in Riemann-Cartan spacetimes. 91d:83097
- Banerjee, Asit Kumar see Chatterjee, Sujit; et al., 91b:83074
- Barriola, Manuel (with Vachaspati, Tanmay) Strong gravity of a self-similar global texture. 91m:83064
- Barrow, John D. (with Sirousse-Zia, H.) Erratum: "Mixmaster cosmological model in theories of gravity with a quadratic Lagrangian" [Phys. Rev. D (3) 39 (1989), no. 8, 2187–2191; MR 90a:83059]. 91a:83059
- Barvinskiĭ, A. O. The general semiclassical solution of the Wheeler-DeWitt equations and the issue of unitarity in quantum cosmology. 91k:83039
- Beesham, Aronkumar Some Friedmann cosmological solutions in the scale covariant theory of gravitation. 91m:83065
- Berezin, V. A. (with Kuz'min, V. A.; Tkachev, I. I.) O(3)-invariant processes at false vacuum decay in general relativity. 91m:83042
- Bhama, K. S. see Singh, Kojam Manihar, (Not in MR)
- Bhui, B. see Chatterjee, Sujit; et al., 91b:83074
- Bičák, Jiří Is there a new function for an infinite cosmic string? 91h:83037
- Bleyer, Ulrich (with Heinrich, O.; Nikolaenko, V. M.) Compactification and cosmic string phenomenology. 91g:81174
- Bokhari, Ashfaq H. (with Pervaz, Amjad; Mughal, Muhammad A.) Nonstatic axisymmetric universe model and its evolution. (Not in MR)
- Bond, J. R. see Salopek, D. S., 91k:83046
- Bordag, M. On the vacuum-interaction of two parallel cosmic strings. (German summary) 91d:83068
- Brill, D. R. see Yoon, J. H., 91f:83071
- Caprasse, Hubert (with Demaret, Jacques; Schröfer, Eberhard) Can EXCALC be used to investigate high-dimensional cosmological models with nonlinear Lagrangians? 91g:83063
- Cecotti, S. Stringy cosmic strings and SUSY gauge theories. 91m:81282
- Chamorro, A. A Kerr inhomogeneity with a small rotation parameter in Friedmann universes. 91f:83010
- see also Aguirregabiria, J. M.; et al., 91g:83010
- Chatterjee, Sujit (with Banerjee, Asit Kumar; Bhui, B.) Higher-dimensional cosmological model with homogeneous perfect fluid. 91h:83074
- Chi, L. K. New cosmological models in the five-dimensional space-time-mass gravity theory. 91h:83064
- Chimento, Luis P. (with Pensa, Fabián G.) Exact Bianchi type-(I, V) solutions of the Einstein equations with scalar and spinor fields. 91f:83011
- Coile, David H. (with Maeda, Kei-ichi) Wormholes with scalar fields. 91c:83017
- Demaret, Jacques see Caprasse, Hubert; et al., 91g:83063
- Demiański, Marek (with Polnarev, A. G.) Dynamical dimensional reduction induced by changing equation of state. 91f:83066
- Den, Mitsue see Tadaki, Shin-ichi; et al., 91d:83036
- Ellis, George F. R. (with Matravers, D. R.) A note on the evolution of anisotropy in a Robertson-Walker cosmology. 91f:83007
- (with Madsen, Mark S.) Exact scalar field cosmologies. 91m:83014
- Exposito, Giampiero V. M. Recent developments in quantum cosmology. 91a:83037
- Etxebarria, J. R. see Aguirregabiria, J. M.; et al., 91g:83010
- (Fang, Li Zhi) see Quantum cosmology, 91f:83033
- Finkelstein, David First flash and second vacuum. 91f:81013
- Francisco, G. Information aspects of type IX models. 91h:83028
- Frolov, V. P. (with Garfinkle, David) Interaction of cosmic strings with gravitational waves. 91f:83069
- Fukuyama, Takeshi (with Morikawa, Masahiro) Time dependence of the Baum-Hawking mechanism for the vanishing of the cosmological constant. 91d:83061
- Fulling, Stephen A. When is stability in the eye of the beholder? Comments on a singular initial-value problem for a nonlinear differential equation arising in semiclassical cosmology. 91f:83035
- Garfinkle, David Traveling waves in strongly gravitating cosmic strings. 91a:83010
- see also Frolov, V. P., 91f:83069
- Gell-Mann, Murray (with Hartle, James B.) Quantum mechanics in the light of quantum cosmology. (see 91m:81004)
- Ghoroku, Kazuo Field theory of universes and the cosmological constant. 91m:83045
- Gleiser, Reinaldo J. (with Pullin, Jorge A.) On the existence of crack of doom singularities in some cosmological models with extra dimensions. 91a:83077
- Goode, Stephen W. Isotropic singularities and the Penrose-Weyl tensor hypothesis. 91m:83059
- Gott, J. Richard, III Closed timelike curves produced by pairs of moving cosmic strings: exact solutions. 91h:83015
- Grun, Oyvind Viscous inflationary universe models. 91f:83012
- Gurovich, V. T. see Balboosunov, M. B.; et al., 91h:83052
- Halliwell, Jonathan J. (with Louko, Jorma) Steepest-descent contours in the path-integral approach to quantum cosmology. I. The de Sitter minisuperspace model. 91a:83038
- (with Louko, Jorma) Steepest-descent contours in the path-integral approach to quantum cosmology. II. Microsuperspace. 91a:83039
- (with Hartle, James B.) Integration contours for the no-boundary wave function of the universe. 91d:83062
- Hartle, James B. Time and prediction in quantum cosmology. 91c:83020
- see also Halliwell, Jonathan J., 91d:83062 and Gell-Mann, Murray, (91m:81004)
- Hawking, Stephen W. Gravitational radiation from collapsing cosmic string loops. 91f:83046
- The arrow of time. (Russian) 91g:83002
- Hayward, Geoff (with Pavón, Diego) Primordial black holes and FRW cosmology. (see 91f:83063)
- Heinrich, O. see Bleyer, Ulrich; et al., 91g:81174
- Heller, Michael see Woźniak, Andrzej, 91j:83052
- Huang, Wang Hong Anisotropic cosmological models with energy density dependent bulk viscosity. 91g:83016
- Effects of the shear viscosity on the character of cosmological evolution. 91k:83027
- Coleman-Weinberg symmetry breaking in the early Universe with an inhomogeneity. 91j:83044
- Hwang, Jai-chan Cosmological perturbations in generalised gravity theories: formulation. 91f:83059
- Cosmological perturbations in generalized gravity theories: inflationary spectrum. 91k:83065
- Imanaliev, U. M. see Balboosunov, M. B.; et al., 91h:83052
- Kandrup, Henry E. (with Mazur, Pavel O.) A topological Hawking effect. 91b:83056
- Koppar, Sharda S. (with Patel, L. K.) A rotating Bianchi type II viscous fluid cosmological model with heat flux. (Not in MR)
- Kuchař, Karel V. (with Ryan, Michael P., Jr.) Is minisuperspace quantization valid? Taub in mixmaster. 91k:83042
- Kuz'min, V. A. see Berezin, V. A.; et al., 91m:83042
- Lapeta, Andrzej see Szydlowski, Marek, 91f:83026 and 91m:83084
- Letelier, Patricio S. Multiple cosmic walls. 91f:83016
- Leutwyler, H. (with Malik, S.) Finite temperature scalar field theory in the early universe. (Not in MR)
- Li, Xin Zhou see Liu, Qi; et al., 91h:83089
- Liu, Qi (with Xu, Jian Jun; Li, Xin Zhou) An eight-dimensional Kaluza-Klein cosmological model. (Chinese. English summary) 91b:83089

- Loeka, Jorma (with Ruback, Peter J.) Spatially flat quantum cosmology. 91m:83048
 — see also Halliwell, Jonathan J., 91a:83038 and 91a:83039
 Madsen, Mark S. The role of Hawking radiation in the inflationary universe. 91h:83057
 — see also Ellis, George F. R., 91m:83014
 Maeda, Kei-ichi see Coule, David H., 91c:83017 and Yokoyama, Jun'ichi, 91f:83037
 Maheswara Rao, Velagapudi Uma see Shanthi, K.; et al., (Not in MR)
 Mallik, S. see Leutwyler, H., (Not in MR)
 Maniarsingh, Kojam Rotating charged perfect-fluid universes coupled with scalar field in general relativity. 91f:83017
 Matravers, D. R. see Ellis, George F. R., 91j:83007
 Matsuo, Naoki Einstein gravity as spontaneously broken Weyl gravity. 91d:83066
 Mazur, Pawel O. see Kandrup, Henry E., 91h:83056
 McGuigan, Michael Constraints for toroidal cosmology. 91f:83070
 Mohanty, Ganeshwar see Pattanaik, R. R., 91j:83013
 Morikawa, Masahiro see Fukuyama, Takeshi, 91d:83061
 Mughal, Muhammad A. see Bokhari, Ashfaq H.; et al., (Not in MR)
 Mungan, Mahittin see Arik, Metin, 91j:83018
 Munier, Alain A relativistic radiation transfer benchmark. 91c:85016
 Muslimov, A. G. On the scalar field dynamics in a spatially flat Friedmann universe. 91c:83027
 Nikolenko, V. M. see Bleyer, Ulrich; et al., 91g:81174
 Ohnishi, Kouji see Tadaki, Shin Ichi; et al., 91d:83036
 Page, Don N. Is the Universe infinitely old? 91h:83044
 Patel, L. K. see Kopper, Sharda S., (Not in MR)
 Pattanaik, R. R. (with Mohanty, Ganeshwar) An analogue of de Sitter universe. 91j:83013
 Pavón, Diego see Hayward, Geoff., (91i:83003)
 Pensa, Fabián G. see Chimento, Luis P., 91f:83011
 Pervez, Amjad see Bokhari, Ashfaq H.; et al., (Not in MR)
 Polchinski, Joseph Decoupling versus excluded volume or return of the giant wormholes. 91h:83029
 Polnarev, A. G. see Demiański, Marek, 91f:83066
 Preskill, John Wormholes in spacetime and the constants of nature. 91a:83046
 Pullin, Jorge A. Stiff-matter solitons in cosmology. 91h:83015
 — see also Gleiser, Reinaldo J., 91a:83077
 Raychaudhuri, A. K. A homogeneous static universe with a false vacuum and magnetic field. 91d:83026
 — Cosmological models and entropy. 91h:83059
 Reddy, D. R. K. see Shanthi, K.; et al., (Not in MR)
 Rivas, Martín see Aguirregabiria, J. M.; et al., 91h:83010
 Ruback, Peter J. see Loeka, Jorma, 91m:83048
 Rubakov, V. A. (with Tinyakov, P. G.) Creation of universes in superspace and the problem of a negative cosmological constant. 91f:83035
 (Ruffini, Remo) see Quantum cosmology, 91i:83033
 Ryan, Michael P., Jr. see Kuchař, Karel V., 91k:83042
 Salopek, D. S. (with Bond, J. R.) Nonlinear evolution of long-wavelength metric fluctuations in inflationary models. 91k:83046
 Sarkar, R. P. A modified Robertson-Walker cosmological model. 91h:83020
 Schmidt, Hans-Jürgen Variational derivatives of arbitrarily high order and multi-inflation cosmological models. 91d:83110
 Schröder, Eberhard see Caprase, Hubert; et al., 91g:83063
 Shanthi, K. (with Maheswara Rao, Velagapudi Uma; Reddy, D. R. K.) Bianchi type-III model in the Lyttleton-Bondi universe. (Not in MR)
 Sharatchandra, H. S. Some implications of string theories for classical gravity, quantum gravity and cosmology. 91h:83077
 Singh, Kojam Manihar (with Bhamra, K. S.) Radiating viscous universes coupled with zero-mass scalar field: exact solutions. (Not in MR)
 Sironse-Zia, H. see Barrow, John D., 91a:83059
 (Smoredinskaya, N. Ya.) see Hawking, Stephen W., 91g:83002
 Sørensen, Bent The problem of reconciling superstring theory with cosmology. 91c:83040
 Strominger, Andrew Baby universes. (see 91k:81003)
 Szydlowski, Marek (with Lapeta, Andrzej) Pseudo-Riemannian manifold of mixmaster dynamical systems. 91f:83026
 — (with Lapeta, Andrzej) The local instability of Mixmaster dynamical systems. 91m:83084
 Tadaki, Shin Ichi (with Den, Mitsue; Ohnishi, Kouji; Yamada, Yoshiyuki) Classification of conformal cosmological models. 91d:83036
 Tinyakov, P. G. see Rubakov, V. A., 91f:83035
 Tkachev, I. I. see Berezin, V. A.; et al., 91m:83042
 Vachaspati, Tanmay see Barriola, Manuel, 91m:83064
 Verwimp, Theo On higher-dimensional gravity: the Lagrangian, its dimensional reduction and a cosmological model. 91h:83093
 Vickers, J. A. G. Quasi-regular singularities and cosmic strings. 91d:83096
 Visser, Matt Wormholes, baby universes, and causality. 91f:83036
 Waelthrock, Henri Do universes with parallel cosmic strings or two-dimensional wormholes have closed timelike curves? 91j:83002
 Wang, Mian Kaluza-Klein supergravity and cosmology. 91h:83094
 Woszczyński, Andrzej (with Heller, Michael) Is a horizon-free cosmology possible? 91j:83052
 Xu, Jian Jun see Lin, Qi; et al., 91h:83089
 Yamada, Yoshiyuki see Tadaki, Shin Ichi; et al., 91d:83036
 Yokoyama, Jun'ichi (with Maeda, Kei-ichi) Quantum cosmological approach to the cosmic no-hair conjecture in the Bianchi type-IX spacetime. 91f:83037
 Yeon, J. H. (with Brill, D. R.) Inflation from extra dimensions. 91f:83071
 Zimdahl, W. Gauge-invariant cosmological perturbations from a thermodynamical point of view. 91m:83034
- Items listed otherwise than by author
 Quantum cosmology ★ Quantum cosmology. 91h:83033

85-XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

ter Haar, D. Astrophysics—the last bastion of the generalist. (see 91f:00013)

85-01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 85-01

Narlikar, Jayant V. Recent trends in general relativity and cosmology. 91d:83001

85-02 Research exposition (monographs, survey articles)

Perdang, J. Astrophysical fractals: an overview and prospects. 91m:85001

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 Abhyankar, K. D. Misidentification of some Indian nakshatras. 91m:01007
 (Benney, David J.) see Lin, Chia Chiao, 91h:01098
 (Bessel, Friedrich Wilhelm) see Lavinovich, K. K., 91a:01042
 Brunet, Jean-Pierre see Nadal, R., 91h:01006
 Chabás, José Une période de récurrence de syzygies au XIV^e siècle: le cycle de Jacob ben David Bonjorn. [A period of recurrence of syzygies in the 14th century: the cycle of Jacob ben David Bonjorn] 91h:01012
 van Dalen, Benno A statistical method for recovering unknown parameters from medieval astronomical tables. 91i:01012
 (ben David Bonjorn, Jacob) see Chabás, José, 91h:01012
 (Euler, Leonhard) see Abalakin, V. K., (91e:01026)
 Fomenko, A. T. ★ Статистическая хронология. (Russian) [Statistical chronology] 91m:92057
 (von Gmunden, Johannes) see Ulblein, Paul, 91e:01007
 Grebenikov, E. A. see Abalakin, V. K., (91e:01026)
 Lavinovich, K. K. ★ Фридрих Вильгельм Бессель. 1784–1846. (Russian) [Friedrich Wilhelm Bessel. 1784–1846] 91a:01042
 Lin, Chia Chiao ★ Selected papers of C. C. Lin. Vol. 2. 91h:01098
 Maeyama, Y. A simple, accurate, geometrical approximation to the Keplerian motion. (French and German summaries) 91g:01011
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 Nadal, R. (with Brunet, Jean-Pierre) Le "Commentaire" d'Hipparche. II. Position de 78 étoiles. (English summary) [The Commentary of Hipparchus. II. Position of 78 stars] 91h:01006
 (Shiryayev, A. N.) see Fomenko, A. T., 91m:92057
 (Shu, Frank H.) see Lin, Chia Chiao, 91h:01098
 Ulblein, Paul Johannes von Gmunden—seine Tätigkeit an der Wiener Universität. [Johannes von Gmunden—his activity at the University of Vienna] 91e:01007
 (Yuan, Chi) see Lin, Chia Chiao, 91h:01098

Items listed otherwise than by author

Bibliography:

Bessel, Friedrich Wilhelm see Lavinovich, K. K., 91a:01042

Biography:

Bessel, Friedrich Wilhelm see Lavinovich, K. K., 91a:01042

von Gmunden, Johannes see Ulblein, Paul, 91e:01007

85-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 85-04

- Lotan, Pinna see Struck-Marcell, Curtis, 91m:85004
 N'Kaoua, Thlerry Solution of the nonlinear radiative transfer equations by a fully implicit matrix Monte Carlo method coupled with the Rosseland diffusion equation via domain decomposition. 91k:85011
 Shibata, Shinsuke A numerical method to determine the electromagnetic field of the pulsar magnetosphere with inclined magnetic moment. 91e:85004
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 Struck-Marcell, Curtis (with Lotan, Pinna) The varieties of symmetric stellar rings and radial caustics in galaxy disks. 91m:85004

85-06 Proceedings, conferences, collections, etc.

- (Buchler, J. R.) see Nonlinear astrophysical fluid dynamics, 91k:85001
 (Gottesman, S. T.) see Nonlinear astrophysical fluid dynamics, 91k:85001
 (Heck, André) see Fractals in astronomy, 91j:85001

Items listed otherwise than by author

- Fractals in astronomy ★ Fractals in astronomy. 91j:85001
 Gainesville, FL ★ Nonlinear astrophysical fluid dynamics. 91k:85001
 Nonlinear astrophysical fluid dynamics ★ Nonlinear astrophysical fluid dynamics. 91k:85001
 Special Issue:
 Fractals in astronomy ★ Fractals in astronomy. 91j:85001
 Strasbourg ★ Fractals in astronomy. 91j:85001
 Workshop:
 Nonlinear Astronomy ★ Nonlinear astrophysical fluid dynamics. 91k:85001

Items with secondary classifications in 85-06

- (Fainberg, V. Ya.) *see Problems in theoretical physics and astrophysics*, 91f:00013
 (Ginzburg, V. L.) *see Problems in theoretical physics and astrophysics*, 91f:00013
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 [Problems in theoretical physics and astrophysics] 91f:00013
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85-08 Computational methods

- Cahlon, Baruch Numerical solutions of X and Y equations with perturbations. (see 91g:00046)
 Makino, Junichiro Optimal order and time-step criterion for Aarseth-type N -body integrators. 91k:85002

Items with secondary classifications in 85-08

- Aly, J. J. Quasi-static evolution of a force-free magnetic field. 91c:85010
 Heggie, Douglas C. The N -body problem in stellar dynamics. 91c:85007
 Ha, Yoo Qia A multistep implicit scheme for time-dependent 2-dimensional magnetohydrodynamic flows. 91b:76000
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- Barkin, Yu. V. Cassini's laws and the motion of the center of the Moon's mass according to Brown's theory. 91m:70013
 Secchi, Paolo On the motion of gaseous stars in the presence of radiation. 91a:35159
 Slinitsyn, E. V. Evolution of the Keplerian motion of a viscoelastic planet. 91k:86013

85A05 Galactic and stellar dynamics

- Abramowicz, Marek A. (with Livio, M.; Soker, N.; Szuszkiewicz, E.) Local stability of thick accretion disks. II. Viscous and radiative effects. 91k:85003
 Allen, A. J. (with Palmer, P. L.; Papaloizou, J.) A conservative numerical technique for collisionless dynamical systems: comparison of the radial and circular orbit instabilities. 91a:85001
 — *see also* Palmer, P. L.; et al., 91a:85003
 Aly, J. J. On the lowest energy state of a collisionless self-gravitating system under phase space volume constraints. 91m:85002
 Baranov, A. S. (with Volkov, M. S.) Trigonometric series expansion of the coordinates of a star moving in a nonuniform star cluster. 91c:85002
 Batt, Jürgen Steady state solutions of the relativistic Vlasov-Poisson system. 91d:85001
 Contopoulos, G. Asymptotic curves and escapes in Hamiltonian systems. 91c:85003
 Cubarsi, R. *see* Juan-Zornoza, J. M.; et al., 91l:85001
 Dzhalilov, N. S. (with Zhugzhda, Yu. D.) Resonant absorption of magnetospheric waves in an exponential atmosphere containing a horizontal magnetic field. 91k:85004
 El-Saba, F. M. F. (with Sherief, H. H.) On the galactic motion. 91c:85004
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 Gurbatov, S. N. (with Saichev, A. I.; Shandarin, S. F.) The formation of structures in gravitationally unstable media. 91c:85006
 He, Nan (with Yue, Zeng Yuan) The gravitational collapse of a nonuniform spheroid. 91k:85005
 Heggie, Douglas C. The N -body problem in stellar dynamics. 91c:85007
 Hunter, C. (with de Zeeuw, Tim; Park, Changbom; Schwarzschild, M.) Prolate galaxy models with thin-tube orbits. 91g:85001
 — *see also* de Zeeuw, Tim, 91b:85002
 Inagaki, Shogo (with Lynden-Bell, Donald) Generalized variational principle for collisional stellar dynamics. 91c:85008
 Juan-Zornoza, J. M. (with Sanz-Subirana, J.; Cubarsi, R.) Isolation of integrals for centroid orbits in stellar system models. 91l:85001
 Kent, Stephen M. New virial theorems for spherically symmetric systems. 91k:85006
 Kenzhalov, D. I. A nonanalytic integral of motion for a perturbed Kuzmin potential. (Russian) (see 91e:70036)
 Kondratiev, B. F. The dynamics of a special spheroidal model of homogeneous stellar systems. I. Stationary states. 91a:85002
 — The dynamics of a special spheroidal model of homogeneous stellar systems. II. Spheroidal pulsations. 91c:85001
 Kozhanov, T. S. Stability of star clusters that revolve in elliptic orbits in a field of galactic tidal forces. (Russian) (see 91e:70036)
 Kozlova, Z. P. A conjecture on the resonance structure of the solar system, and Diophantine approximations. (Russian) 91k:85007
 Livio, M. *see* Abramowicz, Marek A.; et al., 91k:85003
 Lotan, Palna *see* Struck-Marcell, Curtis, 91m:85004
 Lynden-Bell, Donald *see* Inagaki, Shogo, 91c:85008
 Martinet, L. (with Udry, S.) Origin of chaos in slowly rotating triaxial stellar systems. 91f:85001
 Mathur, Samir D. Existence of oscillation modes in collisionless gravitating systems. 91c:85002
 Palmer, P. L. (with Papaloizou, J.; Allen, A. J.) Unstable models of axisymmetric galaxies. 91a:85003
 — *see also* Allen, A. J.; et al., 91a:85001
 Papaloizou, J. *see* Allen, A. J.; et al., 91a:85001 and Palmer, P. L.; et al., 91a:85003
 Park, Changbom *see* Hunter, C.; et al., 91g:85001
 Pellat, R. (with Tagger, M.; Sygnet, J. F.) Swing amplification of spiral waves in low-mass discs. 91b:85001
 Perdang, J. Self-gravitational fractal configurations. 91m:85003
 Pfenniger, Daniel Stability of the Lagrangian points in stellar bars. 91c:85009
 Ryden, Barbara S. Oblate spheroidal mass distributions of varying ellipticity. 91a:85004
 Saichev, A. I. *see* Gurbatov, S. N.; et al., 91c:85006
 Sala, F. Time-dependent axisymmetric galactic models. 91b:85001
 Sanz-Subirana, J. *see* Juan-Zornoza, J. M.; et al., 91l:85001
 Schramm, T. Realistic elliptical potential wells for gravitational lens models. 91c:85003
 Schwarzschild, M. *see* Hunter, C.; et al., 91g:85001
 Seimenis, J. Rational approximations for a Hamiltonian system with three degrees of freedom. 91g:85002
 Shandarin, S. F. *see* Gurbatov, S. N.; et al., 91c:85006
 Sherief, H. H. *see* El-Saba, F. M. F., 91c:85004 and 91c:85005
 Soker, N. *see* Abramowicz, Marek A.; et al., 91k:85003
 Struck-Marcell, Curtis (with Lotan, Palna) The varieties of symmetric stellar rings and radial caustics in galaxy disks. 91m:85004
 Sygnet, J. F. *see* Pellat, R.; et al., 91b:85001
 Szuszkiewicz, E. *see* Abramowicz, Marek A.; et al., 91k:85003
 Tagger, M. *see* Pellat, R.; et al., 91b:85001
 Timoshkova, E. I. An inverse problem for determining the potential and velocity field in a galactic plane. 91k:85008
 Udry, S. *see* Martinet, L., 91f:85001
 Volkov, M. S. *see* Baranov, A. S., 91c:85002
 Yue, Zeng Yuan *see* He, Nan, 91k:85005
 de Zeeuw, Tim (with Hunter, C.) Oblate galaxy models with thin tube orbits. 91b:85002
 — *see also* Hunter, C.; et al., 91g:85001
 Zhugzhda, Yu. D. *see* Dzhalilov, N. S., 91k:85004

Items with secondary classifications in 85A05

- Barbanis, B. *see* Contopoulos, G., 91d:58150
 Caranicas, N. D. A mapping for the study of the 1/1 resonance in a galactic type Hamiltonian. 91a:70022
 Collett, J. L. Isocirculational flows. (see 91k:76005)
 Contopoulos, G. Qualitative characteristics of dynamical systems. 91c:70019
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 Durran, R. *see* Truman, A., 91c:81005
 Goodman, Jeremy Convective instability of hollow Sedov-Taylor blast waves. (Not in MR)
 Kondrat'ev, B. F. ★ Динамика эллипсоидальных гравитирующих фигур. (Russian) [Dynamics of ellipsoidal gravitating figures] 91b:76069
 Nurgaliev, A. (with Omarulov, K. A.) Stability of spiral orbits in a nonstationary galactic system with axial symmetry under constantly acting perturbations. (Russian) (see 91c:70036)
 Omarulov, K. A. *see* Nurgaliev, A., (91c:70036)
 (Omarov, T. B.) *see* Problems in celestial mechanics and star dynamics, 91c:70036
 Seidel, Edward Gravitational radiation from even-parity perturbations of stellar collapse: mathematical formalism and numerical methods. 91f:83079
 Shirin, G. I. Application of the classical problem of two fixed centers in stellar dynamics. (Russian) (see 91e:70036)
 Thanou, Basil Younis A threshold model with piece-wise nonlinear dynamics for sunspot series. (Arabic summary) 91g:58265
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85A15 Galactic and stellar structure

- Aly, J. J. Quasi-static evolution of a force-free magnetic field. 91c:85010
 Brandenburg, A. *see* Jennings, Richard Leonard; et al., 91c:85012
 Filippi, S. (with Ruffini, Remo; Sepulveda, A.) Generalized Riemann configurations and Dedekind's theorem: the case of nonlinear internal velocities. 91d:85002
 Gough, Douglas *see* Merryfield, William J.; et al., 91k:85003
 Ha, Wen Rui Magnetostatic equilibrium of isolated magnetic flux tube. 91c:85011
 Jennings, Richard Leonard (with Brandenburg, A.; Moss, D.; Tuominen, I.) Can stellar dynamos be modelled in less than three dimensions? 91c:85012
 Lee, Yee Chun *see* Montgomery, David, 91k:85009
 Layten, P. J. Nonaxisymmetric dynamical instability of differentially rotating, self-gravitating masses. 91f:85002
 Merryfield, William J. (with Toomre, Juri; Gough, Douglas) Nonlinear behavior of solar gravity modes driven by ^3He in the core. I. Bifurcation analysis. 91b:85003
 Montgomery, David (with Lee, Yee Chun) Statistical-mechanical selection of the shapes of disk galaxies. 91k:85009
 Moss, D. *see* Jennings, Richard Leonard; et al., 91c:85012
 Ruffini, Remo *see* Filippi, S.; et al., 91d:85002
 Sepulveda, A. *see* Filippi, S.; et al., 91d:85002
 Toomre, Juri *see* Merryfield, William J.; et al., 91k:85003
 Tuominen, I. *see* Jennings, Richard Leonard; et al., 91c:85012

Yue, Zeng Yuan. *see* Zhang, Bin, 91k:85010

Zhang, Bin. (with Yue, Zeng Yuan) Nonlinear stellar response to the growing spiral gravitational disturbance and its stabilizing effect on the growing mode. 91k:85010

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Abramowicz, Marek A. (with Livio, M.; Soker, N.; Szuszkiewicz, E.) Local stability of thick accretion disks. II. Viscous and radiative effects. 91k:85003

Carot, J. *see* Di Prisco, A.; et al., 91b:83099

Di Prisco, A. (with Herrera, Luis; Carot, J.) On the chaotic behaviour induced by surface phenomena in some general relativistic stellar models. 91b:83099

Filippi, S. (with Ruffini, Remo; Sepulveda, A.) Nonlinear velocities in generalized Riemann ellipsoids. 91j:85003

Harpaz, Amos. (with Rosen, Nathan) Stability of a collapsed star in bimetric general relativity. 91a:83063

Henriques, A. B. *see* Liddle, Andrew R.; et al., 91a:83097

Herrera, Luis. *see* Di Prisco, A.; et al., 91b:83099

Liddle, Andrew R. (with Moorhouse, R. G.; Henriques, A. B.) Neutron stars and extra dimensions. 91a:83097

Livio, M. *see* Abramowicz, Marek A.; et al., 91k:85003

Makino, Tetsu. (with Perthame, Benoît) Sur les solutions à symétrie sphérique de l'équation d'Euler-Poisson pour l'évolution d'étoiles gazeuses. (English summary) [On radially symmetric solutions of the Euler-Poisson equation for the evolution of gaseous stars] 91d:35166

Moorhouse, R. G. *see* Liddle, Andrew R.; et al., 91a:83097

Perthame, Benoît. *see* Makino, Tetsu, 91d:35166

Pfister, Herbert. Zur Frage nach globalen Lösungen der Einsteinschen Feldgleichungen für rotierende Sterne. (English summary) [The quest for global solutions of Einstein's field equations for rotating stars] (Not in MR)

Polityukov, V. P. Solution of the Cauchy problem for the nonlinear Uehling-Uhlenbeck problem. 91j:35269

Rosen, Nathan. *see* Harpaz, Amos, 91a:83063

Ruffini, Remo. *see* Filippi, S.; et al., 91j:85003

Ryu, Dongsu. (with Vishniac, Ethan T.) The dynamic instability of adiabatic blast waves. 91k:85013

Schulman, Lawrence S. *see* Seiden, Philip E., 91f:85007

Seiden, Philip E. On the uniqueness of motion of viscous gaseous stars. 91f:85007

Seiden, Philip E. (with Schulman, Lawrence S.) Percolation model of galactic structure. 91f:85007

Sepulveda, A. *see* Filippi, S.; et al., 91j:85003

Soker, N. *see* Abramowicz, Marek A.; et al., 91k:85003

Szuszkiewicz, E. *see* Abramowicz, Marek A.; et al., 91k:85003

Tikekar, Ramesh. Exact model for a relativistic star. 91h:83025

Vishniac, Ethan T. *see* Ryu, Dongsu, 91k:85013

85A20 Stellar atmospheres

Adam, John A. An initial value problem for magnetospheric waves. I. Theory. 91d:85003

Al-Sagabi, Bader. (with Kalla, Shyam L.) Use of generalized hypergeometric functions in analytic stellar models. 91b:85004

Cuntz, M. *see* Gail, H.-P.; et al., (Not in MR)

Eberly, David. Analysis of a model in solar magnetohydrostatics. 91j:85002

Gail, H.-P. (with Cuntz, M.; Ulmschneider, P.) Wave pressure in stellar atmospheres due to shock wave trains. (Not in MR)

Kalla, Shyam L. *see* Al-Sagabi, Bader, 91b:85004

Shibata, Shinpei. A numerical method to determine the electromagnetic field of the pulsar magnetosphere with inclined magnetic moment. 91e:85004

— Confirmation of quiet pulsar model by the boundary element method. 91e:85005

Ulmschneider, P. *see* Gail, H.-P.; et al., (Not in MR)

Items with secondary classifications in 85A20

Basu, Ashis. (with Ray, Dipankar) Solutions of an equation that lead to solutions of a modified Emden equation and a coupled Korteweg-de Vries equation. 91c:35129

Berger, Mitchell A. Third order invariants of randomly braided curves. (see 91k:76005)

Biswas, G. (with Karanjai, S.) Time-dependent X - and Y -functions for a homogeneous isotropically-scattering atmosphere by principle of invariance. 91c:85015

Dzhallilov, N. S. (with Zhugzhda, Yu. D.) Resonant absorption of magnetospheric waves in an exponential atmosphere containing a horizontal magnetic field. 91k:85004

Hu, You Qiu. A multistep implicit scheme for time-dependent 2-dimensional magnetohydrodynamic flows. 91b:76000

Karanjai, S. *see* Biswas, G., 91c:85015

Li, Shiwei. (with Percus, J. K.) Finite-temperature density functional theory of atoms in strong magnetic fields. (Not in MR)

Percus, J. K. *see* Li, Shiwei, (Not in MR)

Ray, Dipankar. *see* Basu, Ashis, 91c:35129

Vainshtein, S. I. Cusp-points and current sheet dynamics. 91k:85014

Zhugzhda, Yu. D. *see* Dzhallilov, N. S., 91k:85004

85A25 Radiative transfer

Ben Jaffel, L. (with Vidal-Madjar, A.) A new method for the resolution of the radiative transfer equation in three-dimensional geometry. I. Theory. 91c:85013

Biswas, G. (with Karanjai, S.) Time-dependent H -, X - and Y -functions for an anisotropically-scattering atmosphere. 91c:85014

— (with Karanjai, S.) Time-dependent X - and Y -functions for a homogeneous isotropically-scattering atmosphere by principle of invariance. 91c:85015

— *see also* Karanjai, S., 91b:85005

Freimanis, Yu. A. Transport of polarized radiation in a homogeneous infinite medium with an isotropic point source. 91g:85003

Gryn', V. I. On the determination of the absorption coefficient for spherical symmetry. (Russian) 91m:85005

van de Hulst, H. C. (with Stark, Ronald) Accurate eigenvalues and exact extrapolation lengths in radiative transfer. 91e:85006

Kalinin, A. V. (with Morozov, S. F.) A nonlinear boundary value problem in the theory of radiative transfer. (Russian) 91g:85004

Karanjai, S. (with Biswas, G.) Time-dependent X - and Y -functions for anisotropically scattering inhomogeneous atmosphere by principle of invariance. 91b:85005

— *see also* Biswas, G., 91c:85014 and 91c:85015

Kreider, Kevin L. Time dependent linear transport via Green's functions. 91f:85003

Kur'mina, M. G. The perturbation method in problems of radiative transfer in flat layers of optically active media. 91f:85004

Morozov, S. F. *see* Kalinin, A. V., 91g:85004

Munier, Alain. A relativistic radiation transfer benchmark. 91c:85016

N'Kaoua, Thierry. Solution of the nonlinear radiative transfer equations by a fully implicit matrix Monte Carlo method coupled with the Rosseland diffusion equation via domain decomposition. 91k:85011

Romanov, A. S. (with Sanikidze, T. A.) Finite rate of radiant heat transfer in a gray substance in the presence of heat sources (sinks). 91f:85005

Sanikidze, T. A. *see* Romanov, A. S., 91f:85005

Stark, Ronald. *see* van de Hulst, H. C., 91e:85006

Tessendorf, J. Radiative transfer on curved surfaces. 91a:85005

Vidal-Madjar, A. *see* Ben Jaffel, L., 91c:85013

Vilk, Tenu. The derivatives of the H -function. 91a:85006

— An initial value method for determining the radiation field in a plane-parallel atmosphere. The vector case. 91h:85002

Wang, Alan P. Solution for a nonstationary radiative transfer equation. 91f:85006

Items with secondary classifications in 85A25

Dnestrovskaya, E. Yu. (with Kalitkin, N. N.) Rosenbrock schemes with complex coefficients for the transport equation. (Russian. English summary) 91m:65306

Graham, Ivan G. (with Mendes, Wendy R.) Nystrom-product integration for Wiener-Hopf equations with applications to radiative transfer. 91c:65084

Gryn', V. I. (with Marchenko, A. I.; Urban, V. V.) A numerical method for solving an equation of radiative transfer in plane and spherical geometry. (Russian) 91f:65197

Juang, Jonq. (with Nelson, Paul, Jr.) Abstract Riccati equations in an L^1 space of finite measure and applications to transport theory. 91b:34100

Kalitkin, N. N. *see* Dnestrovskaya, E. Yu., 91m:65306

Kelley, C. T. Errata: "A fast two-grid method for matrix H -equations" [Transport Theory Statist. Phys. 18 (1989), no. 2, 185–203; MR 90h:65218]. 91b:65152

Marchenko, A. I. *see* Gryn', V. I.; et al., 91f:65197

Mendes, Wendy R. *see* Graham, Ivan G., 91c:65084

Nelson, Paul, Jr. *see* Juang, Jonq., 91b:34100

N'Kaoua, Thierry. Une nouvelle discrétisation temporelle des équations du transfert radiatif et développement d'une méthode particulière matricielle implicite pour leur résolution. (English summary) [A new time discretization for the radiative transfer equations and development of an implicit matrix particle method for their solution] 91e:82065

Perthame, Benoît. (with Vázquez, Juan Luis) Bounded speed of propagation for solutions to radiative transfer equations. 91f:35267

Urban, V. V. *see* Gryn', V. I.; et al., 91f:65197

Vázquez, Juan Luis. *see* Perthame, Benoît, 91f:35267

85A30 Hydrodynamic and hydromagnetic problems

[*see also* 76Y05]

Aly, J. J. Flux constraints on magnetic energy release in a highly conducting plasma. (see 91f:76005)

Chodhury, A. R. A correction to Spruit's equation for the dynamics of thin flux tubes. 91k:85012

Filippi, S. (with Ruffini, Remo; Sepulveda, A.) Nonlinear velocities in generalized Riemann ellipsoids. 91j:85003

Galanti, B. (with Gilbert, A. D.; Sulem, P.-L.) Generation of steady and oscillatory magnetic fields through inverse cascades in alpha-effect dynamos. (see 91k:76005)

Gilbert, A. D. *see* Galanti, B.; et al., (91k:76005)

Goodman, Jeremy. Convective instability of hollow Sedov-Taylor blast waves. (Not in MR)

Hussain, Fazle. *see* Melander, Mogens V., (91k:76005)

Lubow, Stephen H. On mass transport in nonviscous, non-self-gravitating fluid disks. 91h:85003

Melander, Mogens V. (with Hussain, Fazle) Topological aspects of vortex reconnection. (see 91k:76005)

Proctor, Michael R. E. *see* Zweibel, Ellen G., 91m:85006

Ruffini, Remo. *see* Filippi, S.; et al., 91j:85003

Ryu, Dongsu. (with Vishniac, Ethan T.) The dynamic instability of adiabatic blast waves. 91k:85013

Sepulveda, A. *see* Filippi, S.; et al., 91j:85003

Sulem, P.-L. *see* Galanti, B.; et al., (91k:76005)

Vainshtein, S. I. Cusp-points and current sheet dynamics. 91k:85014

Vishniac, Ethan T. *see* Ryu, Dongsu, 91k:85013

Zweibel, Ellen G. (with Proctor, Michael R. E.) Current sheet formation in magnetostatic equilibria. 91m:85006

Items with secondary classifications in 85A30

Bayly, B. J. (with Childress, S.) Fast dynamo action in three-dimensional chaotic maps. 91m:76124

Childress, S. *see* Gilbert, A. D., 91g:76104; Bayly, B. J., 91m:76124 and Soward, A. M., (91k:76005)

Collet, J. L. Isocirculational flows. (see 91k:76005)

Eberly, David. Analysis of a model in solar magnetohydrostatics. 91j:85002

Galeeva, R. F. (with Ruzmalkin, A. A.; Sokolov, D. D.) Correlation of the magnetic-field directions in a random flow. 91e:76114

- Gilbert, A. D. (with Childress, S.) Evidence for fast dynamo action in a chaotic web. 91g:76104
- Gol'dshik, M. A. (with Shtern, V. N.) Collapse in conical viscous flows. 91f:76016
- Kondrat'ev, B. P. The possibility of planar homogeneous vortical motion in fluid configurations of nonellipsoid form. (Russian. English summary) 91h:76081
- Malyszko, E. On the interactions of Riemann waves in relativistic magnetohydrodynamics. (Russian and Polish summaries) 91k:76155
- Mazer, Arthur (with Ratiu, Tudor S.) Formal stability of two-dimensional self-gravitating rotating disks. 91g:58151
- Mikaelian, Karnig O. Rayleigh-Taylor and Richtmyer-Meshkov instabilities and mixing in stratified spherical shells. 91g:76046
- Molchanov, S. A. (with Ruzmalkin, A. A.; Sokolov, D. D.) Self-excitation and reconnections of magnetic field in random flow. (see 91f:76005)
- Muscato, Orazio Simple wave solutions for a radiation-dominated magnetofluid. 91j:76078
- Owocik, S. P. (with Zank, G. P.) The effect of viscosity on steady transonic flow with a nodal solution topology. 91m:76064
- Ratiu, Tudor S. see Mazer, Arthur, 91g:58151
- Ruzmalkin, A. A. see Galeeva, R. F.; et al., 91c:76114 and Molchanov, S. A.; et al., (91f:76005)
- Secchi, Paolo On the uniqueness of motion of viscous gaseous stars. 91f:35164
- Shibata, Shinsuke A numerical method to determine the electromagnetic field of the pulsar magnetosphere with inclined magnetic moment. 91e:85004
- Confirmation of quiet pulsar model by the boundary element method. 91e:85005
- Shtern, V. N. see Gol'dshik, M. A., 91f:76016
- Sokolov, D. D. see Galeeva, R. F.; et al., 91c:76114 and Molchanov, S. A.; et al., (91f:76005)
- Soward, A. M. (with Childress, S.) Dynamo action at large magnetic Reynolds number in spatially periodic flow with mean motion. (see 91f:76005)
- Zank, G. P. see Owocik, S. P., 91m:76064

85A35 Statistical astronomy

- Loredo, T. J. From Laplace to supernova SN 1987A: Bayesian inference in astrophysics. 91k:85015
- Scargle, Jeffrey D. Studies in astronomical time series analysis. IV. Modeling chaotic and random processes with linear filters. 91h:85004

Items with secondary classifications in 85A35

- Cohen, Alexander P. see Melott, Adrian L.; et al., 91g:85005
- Gott, J. Richard, III see Melott, Adrian L.; et al., 91g:85005
- Hamilton, Andrew J. S. see Melott, Adrian L.; et al., 91g:85005
- Melott, Adrian L. (with Cohen, Alexander P.; Hamilton, Andrew J. S.; Gott, J. Richard, III; Weinberg, David H.) Topology of large-scale structure. IV. Topology in two dimensions. 91g:85005
- Weinberg, David H. see Melott, Adrian L.; et al., 91g:85005

85A40 Cosmology [For relativistic cosmology, see 83F05.]

- Balian, Roger (with Schaeffer, R.) Scale-invariant matter distribution in the universe. II. Bifractal behaviour. 91b:85006
- Cohen, Alexander P. see Melott, Adrian L.; et al., 91g:85005
- Gott, J. Richard, III see Melott, Adrian L.; et al., 91g:85005
- Hamilton, Andrew J. S. see Melott, Adrian L.; et al., 91g:85005
- Melott, Adrian L. (with Cohen, Alexander P.; Hamilton, Andrew J. S.; Gott, J. Richard, III; Weinberg, David H.) Topology of large-scale structure. IV. Topology in two dimensions. 91g:85005
- Schaeffer, R. see Balian, Roger, 91b:85006
- Schulman, Lawrence S. see Seiden, Philip E., 91f:85007
- Seiden, Philip E. (with Schulman, Lawrence S.) Percolation model of galactic structure. 91f:85007
- Weinberg, David H. see Melott, Adrian L.; et al., 91g:85005

Items with secondary classifications in 85A40

- Bonnor, W. B. (with Chamorro, A.) Models of voids in the expanding universe. 91f:83075
- Chamorro, A. see Bonnor, W. B., 91f:83075
- Finkelstein, David First flash and second vacuum. 91f:81013
- Gleiser, Reinaldo J. (with Pullin, Jorge A.) On the existence of crack of doom singularities in some cosmological models with extra dimensions. 91a:83077
- Heffer, Adam D. Pick a light ray—any light ray. 91j:82008
- Hwang, Jai-chen (with Vishniac, Ethan T.) Analyzing cosmological perturbations using the covariant approach. 91a:83095
- Kopeikin, S. M. Asymptotic matching of gravitational fields in the solar system. 91d:83046
- Lee, Yee Chun see Montgomery, David, 91k:85009
- Montgomery, David (with Lee, Yee Chun) Statistical-mechanical selection of the shapes of disk galaxies. 91k:85009
- Pullin, Jorge A. see Gleiser, Reinaldo J., 91a:83077
- Vishniac, Ethan T. see Hwang, Jai-chen, 91a:83095

85A99 Miscellaneous topics

- Chushkin, P. I. (with Sharipov, A. K.) Ablation of large meteor bodies under radiation heating. (Russian) 91m:85007
- Horodi, G. P. Analytical and numerical values of Emden-Chandrasekhar associated functions. 91c:85017
- Kawai, Toshio (with Shida, Koichiro) An inelastic collision model for the evolution of "planetary rings". 91a:85007
- Sharipov, A. K. see Chushkin, P. I., 91m:85007
- Shida, Koichiro see Kawai, Toshio, 91a:85007

Items with secondary classifications in 85A99

- Cid, R. (with Vigueras Campuzano, A.) The analytical theory of the Earth's rotation using a symmetrical gyrostal as a model. (Not in MR)
- Ditto, W. L. (with Pickett, T. J.) Exact solutions of nonlinear differential equations using continued fractions. 91f:34001
- Karanjal, M. (with Karanjai, S.) H -functions for four-term scattering indicatrix. 91b:78014
- Karanjal, S. see Karanjai, M., 91b:78014
- Kwong, Man Kam On the Kolodner-Coffman method for the uniqueness problem of Emden-Fowler BVP. 91b:34037
- Pickett, T. J. see Ditto, W. L., 91f:34001
- Shabad, A. E. Polarization of a vacuum and a quantum relativistic gas in an external field. (Russian) 91a:81232
- Song, Yu A summation formula for products of electron radial wave function in constant magnetic field. 91h:33025
- Vigueras Campuzano, A. see Cid, R., (Not in MR)

86-XX Geophysics [see also 73N05, 76U05, 76V05]

86-03 Historical (must also be assigned at least one classification number from Section 01)

- Items with secondary classifications in 86-03
- Cressie, Noel The origins of kriging. (Not in MR)

86-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 86-04

- Bogobowicz, Agnieszka Theoretical aspects of modeling and control of water quality in a river section. 91m:86002
- Carlson, J. M. (with Langer, J. S.) Mechanical model of an earthquake fault. 91b:86018
- Langer, J. S. see Carlson, J. M., 91b:86018
- Lardner, R. W. (with Smoczynski, P.) A vertical/horizontal splitting algorithm for three-dimensional tidal and storm surge computations. 91e:86002
- Smoczynski, P. see Lardner, R. W., 91e:86002

86-06 Proceedings, conferences, collections, etc.

- (Mandelbrot, Benoit B.) see Fractals in geophysics, 91m:86001
- (Scholz, Christopher H.) see Fractals in geophysics, 91m:86001

Items listed otherwise than by author

- Fractals in geophysics ★ Fractals in geophysics. 91m:86001

Items with secondary classifications in 86-06

- Potsdam ★ 6th International Symposium "Geodesy and Physics of the Earth". Part I. 91b:86015
- ★ 6th International Symposium "Geodesy and Physics of the Earth". Part II. 91b:86016
- ★ 6th International Symposium "Geodesy and Physics of the Earth". Part III. 91b:86017
- Symposium: Geodesy and Physics of the Earth ★ 6th International Symposium "Geodesy and Physics of the Earth". Part I. 91b:86015
- ★ 6th International Symposium "Geodesy and Physics of the Earth". Part II. 91b:86016
- ★ 6th International Symposium "Geodesy and Physics of the Earth". Part III. 91b:86017

86-08 Computational methods

- Navon, I. M. (with Phua, P. K. H.; Ramamurthy, M.) Vectorization of conjugate-gradient methods for large-scale minimization in meteorology. 91d:86001
- Phua, P. K. H. see Navon, I. M.; et al., 91d:86001
- Ramamurthy, M. see Navon, I. M.; et al., 91d:86001
- Thacker, W. C. Large least-squares problems and the need for automating the generation of adjoint codes. 91e:86001

Items with secondary classifications in 86-08

- Arnold, P. D. see Wood, W. L., (Not in MR)
- Basu, Atanu (with Frazer, L. Neil) Rapid determination of the critical temperature in simulated annealing inversion. 91f:86006
- Belikov, M. V. (with Taibatorov, K. A.) An efficient algorithm for calculating the gravitational potential of the Earth and its first derivatives for solving satellite problems. (Russian. English summary) 91e:70074
- Belleudy, Philippe see Yang, Guo Lu; et al., (Not in MR)
- Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113
- (Brebis, C. A.) see Boundary elements X, 91b:00044
- Browning, G. (with Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. 91h:86002

- Bykadorova, O. V. (with Kuznetsov, B. G.) Investigation of a difference problem for a model of a baroclinic ocean. (Russian) (Not in MR)
- Daley, P. F. (with Hron, F.) The ray reflectivity method with critically refracted waves. 91a:86009
- Fornberg, Bengt High-order finite differences and the pseudospectral method on staggered grids. 91g:65196
- Frazer, L. Neil see Basu, Atanu, 91f:86006
- Glimm, James (with Lindquist, W. Brent; Zhang, Qiang) Front tracking, oil reservoirs, engineering scale problems and mass conservation. 91k:76128
- Gao, Bao Qi (with Li, Chun Lin; Zhang, Shu Lun) A highly accurate formula for solving the Clairbout 15° equation for seismic offset. (Chinese. English summary) (Not in MR)
- Hron, F. see Daley, P. F., 91d:86009
- Isaev, S. A. The method of fictitious domains for a model problem in oceanology. (Russian) 91c:86001
- Kreiss, Heinz-Otto see Browning, G., 91k:86002
- Kuznetsov, B. G. see Bykadorova, O. V., (Not in MR)
- Lardner, R. W. (with Smoczyński, P.) A vertical/horizontal splitting algorithm for three-dimensional tidal and storm surge computations. 91e:86002
- Lesnikov, A. L. A perturbation algorithm for an equation of the two-dimensional circulation of a world ocean. (Russian) 91b:86003
- Li, Chun Lin see Gao, Bao Qi; et al., (Not in MR)
- Lindquist, W. Brent see Glimm, James; et al., 91k:76128
- Loktionov, B. A. (with Pleshkevich, A. L.) The difference method for solving the eikonal equation. (Russian) 91e:73045
- Lu, H.-I. see Steppeler, J.; et al., 91d:86004
- Marmershtein, I. I. (with Shnaldman, V. A.) A finite-difference technique for solving the omega equation. 91c:86008
- Navon, I. M. see Steppeler, J.; et al., 91d:86004
- Okal, A. V. The spectral-operator method and some integral properties of synthetic wave fields. (Russian) 91b:86011
- Pleshkevich, A. L. see Loktionov, B. A., 91e:73045
- Shnaldman, V. A. see Marmershtein, I. I., 91c:86008
- Smoczyński, P. see Lardner, R. W., 91e:86002
- Stechnikov, G. L. (with Stepanov, D. S.) Modeling climatic processes. (Russian. English summary) 91d:86007
- Stepanov, D. S. see Stechnikov, G. L., 91d:86007
- Steppeler, J. (with Navon, I. M.; Lu, H.-I.) Finite-element schemes for extended integrations of atmospheric models. 91d:86004
- Strakhov, V. N. Explicit analytic representations of solutions of linear inverse problems of gravimetry and magnetometry with continual data. (Russian) 91b:86004
- Stable methods for solving linear problems in geophysics. I. Formulations and fundamental constructive ideas. (Russian) 91m:86012
- Talbot, K. A. see Bellik, M. V., 91c:70074
- Temperville, André see Yang, Guo Lu; et al., (Not in MR)
- Wood, W. L. (with Arnold, P. D.) On the box scheme for overland flow calculations. (Not in MR)
- Yang, Guo Lu (with Belleudy, Philippe; Temperville, André) A higher-order Eulerian scheme for coupled advection-diffusion transport. (Not in MR)
- Zhang, Qiang see Glimm, James; et al., 91k:76128
- Zhang, Shu Lun see Gao, Bao Qi; et al., (Not in MR)
- Items listed otherwise than by author
- Boundary elements X ★ Boundary elements X. Vol. 4. 91b:00044
- Conference:
- Boundary Element Methods ★ Boundary elements X. Vol. 4. 91b:00044
- Southampton ★ Boundary elements X. Vol. 4. 91b:00044
- 86A05 Hydrology, hydrography, oceanography [see also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]**
- Bar-Sever, Yoaz see Merkin, Lee-Or, 91f:86003
- Bell, George I. Interaction between vortices and waves in a simple model of geophysical flow. 91a:86001
- Blondeaux, P. Sand ripples under sea waves. I. Ripple formation. (Not in MR)
- see also Vittori, G., (Not in MR)
- Bogobowicz, Agnieszka Theoretical aspects of modeling and control of water quality in a river section. 91m:86002
- Bogomolov, V. A. Solitary vortex-wave structure in a stratified drift current. (Russian) 91a:86002
- Bois, Pierre-Antoine (with Godts, Stéphane; Ouahine, Abdellatif) Amortissement visqueux des ondes de Rossby dans les courants océaniques par couches de fond et d'interface. [Viscous damping of Rossby waves in oceanic currents by sea-floor and interfacial layers] (Not in MR)
- Davey, M. K. see Johnson, E. R., 91k:86001
- Davis, Anthony M. J. Continental shelf wave scattering: partial removal of the rigid lid. 91b:86001
- De Gregorio, Salvatore Green's functions of a two-dimensional stationary flow of a rotating stratified fluid. (Not in MR)
- Deshwal, P. S. see Mohan, Narinder, 91j:86001
- Dietrich, C. R. (with Newsam, G. N.) Sufficient conditions for identifying transmissivity in a confined aquifer. 91b:86002
- Flierl, Glenn R. see Swaters, Gordon E., 91m:86003
- Ghilardi, Paolo (with Menduni, Giovanni) On the unsteady flow of a supercritical current in a natural bed. (Italian. English summary) (Not in MR)
- Godts, Stéphane see Bois, Pierre-Antoine; et al., (Not in MR)
- Gupta, Neelam see Sachdev, P. L., 91c:86003
- Hua, Feng see Yuan, Ye Li; et al., 91b:86006
- Huang, Norden E. see Yuan, Ye Li; et al., 91b:86006
- Hutton, Jane L. Nonnegative time series models for dry river flow. 91a:86003
- Isaev, G. V. Large-scale ocean circulation in terms of adiabatic invariants. (Russian) 91a:86004
- Isaev, S. A. The method of fictitious domains for a model problem in oceanology. (Russian) 91c:86001
- Johnson, E. R. (with Davey, M. K.) Free-surface adjustment and topographic waves in coastal currents. 91k:86001
- Kanter, R. R. (with Prigarin, S. M.) ★ Численное моделирование морского ветрового волнения для исследования поля отраженного оптического излучения. (Russian) [Numerical modeling of sea wave disturbance for studying a field of reflected optic radiation] 91c:86002
- Khairullin, M. Kh. Application of the regularization method to determining the parameters of stratified layers. 91f:86001
- Kondrat'ev, K. Ya. (with Nikanorov, A. M.; Pantyukhin, Ya. V.; Zavoizhenskii, M. V.) Ekman drift and other currents in unbounded domains. (Not in MR)
- Lardner, R. W. (with Smoczyński, P.) A vertical/horizontal splitting algorithm for three-dimensional tidal and storm surge computations. 91e:86002
- Lesnikov, A. L. A perturbation algorithm for an equation of the two-dimensional circulation of a world ocean. (Russian) 91b:86003
- Lu, H.-I. see Steppeler, J.; et al., 91d:86004
- Landberg, P. Determination of seiche periods using the Rayleigh-Schrödinger technique. (German and Russian summaries) 91f:86002
- Mazo, A. B. Hydrodynamics of an isothermal ice shelf. (Russian) (Not in MR)
- McPhaden, M. J. (with Ripa, P.) Wave-mean flow interactions in the equatorial ocean. 91d:86002
- Menduni, Giovanni see Ghilardi, Paolo, (Not in MR)
- Merkin, Lee-Or (with Bar-Sever, Yoaz) Local instabilities of weakly nonparallel large-scale flows: marginal stability and nonparallel critical layers. 91f:86003
- Mirabel, A. P. (with Monin, A. S.) On the instability of gyres in a continuously stratified ocean. (Russian) 91b:86004
- Mohan, Narinder (with Deshwal, P. S.) P-wave scattering at vertical barriers in a deep ocean. 91j:86001
- Monin, A. S. see Mirabel, A. P., 91b:86004
- Navon, I. M. see Steppeler, J.; et al., 91d:86004
- Newsam, G. N. see Dietrich, C. R., 91b:86002
- Nikanorov, A. M. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Ouahine, Abdellatif see Bois, Pierre-Antoine; et al., (Not in MR)
- Pan, Zeng Di see Yuan, Ye Li; et al., 91b:86006
- Pantyukhin, Ya. V. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Prigarin, S. M. see Kanter, R. R., 91c:86002
- Ripa, P. Taxonomy of ocean stability conditions. (see 91f:86001)
- see also McPhaden, M. J., 91d:86002
- Romanov, V. K. The spectrum of a mixed problem for a system of the dynamics of the atmosphere and ocean. (Russian) 91c:86003
- Sachdev, P. L. (with Gupta, Neelam) Exact traveling-wave solutions for model geophysical systems. 91d:86003
- Serrano, Sergio E. (with Unny, T. E.) Random evolution equations in hydrology. 91d:86003
- (with Unny, T. E.) Random evolution equations in hydrology. 91g:86001
- Smoczyński, P. see Lardner, R. W., 91e:86002
- Steppeler, J. (with Navon, I. M.; Lu, H.-I.) Finite-element schemes for extended integrations of atmospheric models. 91d:86004
- Swaters, Gordon E. (with Flierl, Glenn R.) Dynamics of ventilated coherent cold eddies on a sloping bottom. 91m:86003
- Tung, Chi-Chao see Yuan, Ye Li; et al., 91b:86006
- Unny, T. E. see Serrano, Sergio E., 91d:86003 and 91g:86001
- Vittori, G. (with Blondeaux, P.) Sand ripples under sea waves. II. Finite-amplitude development. (Not in MR)
- Volyak, K. I. Excitation of reverse waves by cubic interaction between a swell and wind waves. 91b:86005
- Yuan, Ye Li (with Hua, Feng; Pan, Zeng Di; Huang, Norden E.; Tung, Chi-Chao) Statistics of breaking waves and its application to upper ocean dynamics. 91b:86006
- Zavoizhenskii, M. V. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Items with secondary classifications in 86A05
- Agular, Gloria A mathematical transport model of salt dissolved in water in farmland. (Spanish. English summary) 91f:76051
- Al-Hawaj, A. Y. (with Essawy, A. H.; Faltas, M. S.) The diffraction of Kelvin wave due to a narrow headland normal to an infinite coastline. (Not in MR)
- Arcilla, A. S. (with Lemos, C. M.) ★ Surf-zone hydrodynamics. 91m:76009
- Bermúdez de Castro, Alfredo (with Rodríguez-Fernández, Celso; Vilar, M. A.) Solving shallow water equations by a mixed implicit finite element method. 91k:76030
- Besson, Olivier (with Laydi, Mohamed; Touzani, Rachid) Un modèle asymptotique en océanographie. (English summary) [An asymptotic model in oceanography] 91d:76025
- Bloor, M. I. G. see King, Andrew Charles, 91c:76006
- Brussma, R. The statistical mechanics of meandering. (French summary) 91b:82053
- Buchwald, V. T. The scattering of Kelvin waves by a channel discontinuity. 91d:76079
- Bugrov, A. N. (with Sultanov, R. S.) The method of fictitious domains for regular problems with an oblique derivative. (Russian) (see 91a:00020)
- (Bunkin, F. V.) see Nonlinear wave processes, 91b:76029
- Bykadorova, O. V. (with Kuznetsov, B. G.) Investigation of a difference problem for a model of a baroclinic ocean. (Russian) (Not in MR)
- Caponi, E. A. (with Yuen, H. C.; Milinazzo, F. A.; Saffman, Philip G.) Water-wave instability induced by a drift layer. 91m:76050
- Caponi, R. see Osborne, A. R., 91a:76054
- Cates, A. T. Diffracting nonlinear acoustic beams in 3 + 1 dimensions with applications to oceanic acoustics. 91m:76104
- Collins, Ian F. see Pullan, A. J., (91f:00015)
- Dawson, Trevor W. (with Fawcett, John A.) A boundary integral equation method for acoustic scattering in a waveguide with nonplanar surfaces. 91d:76070

- Dodd, Nicholas Reflective properties of parabolic approximations in shallow water wave propagation. 91m:76012
- Ehrenmark, Ulf Torsten On viscous wave motion over a plane beach. 91m:76013
- Essawy, A. H. *see* Al-Hawaj, A. Y.; et al. (Not in MR)
- Faltas, M. S. *see* Al-Hawaj, A. Y.; et al. (Not in MR)
- Fawcett, John A. *see* Dawson, Trevor W., 91d:76070
- Ghil, M. *see* Sakuma, H., 91b:76063
- Gilbert, Robert P. (with Xu, Yong Zhi) Starting fields and far fields in ocean acoustics. 91a:76080
- (with Xu, Yong Zhi) Dense sets and the projection theorem for acoustic harmonic waves in a homogeneous finite depth ocean. 91e:76097
- Glukhovskii, A. B. Modeling of two-dimensional turbulence effects in a cascaded system of coupled gyrostats. 91k:76082
- Gueytshe, V. G. (with Shira, V. I.) Dynamics of Rossby wave packets in the neighborhood of a zonal critical layer including the effects of viscosity. 91k:76003
- Gol'dshtein, R. V. (with Marchenko, A. V.) Diffraction of two-dimensional gravity waves by the edge of an ice covering. 91b:76023
- Gorshkov, A. S. *see* Volyak, K. I., 91e:76030
- Gratton, Julio (with Minotti, Fernando) Self-similar viscous gravity currents: phase-plane formalism. 91b:76049
- Gryanik, V. M. (with Tevs, M. V.) Dynamics of singular geostrophic vortices in an N -layer model of the atmosphere (ocean). 91e:76032
- Gustavsson, L. Håkan (with Shanthini, Rajaratnam) Degeneracies and direct resonances in water-table flow. 91c:76044
- Homer, M. S. Boundary value problems for the Laplace tidal wave equation. 91d:34025
- Kargin, B. A. Monte Carlo method in stochastic problems of the atmosphere and ocean optics. (see 91m:65003)
- Kay, Anthony Advection-diffusion in reversing and oscillating flows. I. The effect of a single reversal. 91b:76074
- Khalt, Alexander *see* Paldor, Nathan, 91c:76050
- Kharik, V. M. (with Pletner, Yu. D.) The problem of gravity-gyroscopic waves, which are excited by the oscillations of a curve. 91f:76056
- King, Andrew Charles (with Bloor, M. I. G.) Free-surface flow of a stream obstructed by an arbitrary bed topography. 91c:76006
- Kuznetsov, B. G. *see* Bykadorova, O. V., (Not in MR)
- Laydi, Mohamed *see* Besson, Olivier; et al., 91d:76025
- Lemos, C. M. *see* Arcilla, A. S., 91m:76009
- Liu, Shi Kuo *see* Tan, Ben Kui, 91k:76029
- Liu, Ying Zhong *see* Tang, Ling, 91m:76118
- Marchenko, A. V. *see* Gol'dshtein, R. V., 91b:76023
- Maslov, V. P. An integral equation for short internal waves in a stratified ocean. (Not in MR)
- Mercer, G. N. (with Roberts, A. J.) A centre manifold description of contaminant dispersion in channels with varying flow properties. 91m:76111
- Mikelić, Andro (with Tutek, Z.) Identification of mobilities for the Buckley-Leverett equation. 91g:76092
- Miles, John W. Parametrically excited standing edge waves. 91d:76007
- Wave reflection from a gently sloping beach. 91b:76008
- Millinazzo, F. A. *see* Caponi, E. A.; et al., 91m:76050
- Minotti, Fernando *see* Gratton, Julio, 91b:76049
- Mirabel, A. P. (with Monin, A. S.) On the instability of a Sverdrup gyre in a three-layer model and in a continuously stratified model of the ocean. 91m:76051
- Monin, A. S. *see* Mirabel, A. P., 91m:76051
- Osborne, A. R. (with Caponio, R.) Fractal trajectories and anomalous diffusion for chaotic particle motions in 2D turbulence. 91a:76054
- Paldor, Nathan (with Khalt, Alexander) A note on the use of zero potential vorticity models. 91c:76050
- Pelinovskii, E. N. Nonlinear theory of sea wave run-up. 91f:76008
- Perry, W. L. *see* Shen, S. S. P., 91b:76086
- Pletner, Yu. D. *see* Kharik, V. M., 91f:76056
- Pullan, A. J. (with Collins, Ian F.) Boundary element analysis of quasilinearised infiltration. (see 91f:00015)
- Roberts, A. J. *see* Mercer, G. N., 91m:76111
- Rodríguez-Fernández, Celso *see* Bermúdez de Castro, Alfredo; et al., 91k:76030
- Rumyantsev, B. N. On the theory of unsteady waves in shallow water of variable depth in the presence of a singularity at the shore edge. 91m:76016
- Saffman, Philip G. *see* Caponi, E. A.; et al., 91m:76050
- Sakuma, H. (with Ghil, M.) Stability of stationary barotropic modons by Lyapunov's direct method. 91b:76063
- Semenov, A. Yu. *see* Volyak, K. I.; et al., 91b:76033
- Shanthini, Rajaratnam *see* Gustavsson, L. Håkan, 91c:76044
- Shen, S. S. P. (with Perry, W. L.) An example of nonlinear toxic mass spreading. 91g:76086
- Shira, V. I. *see* Gueytshe, V. G., 91k:86003
- Shugan, I. V. *see* Volyak, K. I.; et al., 91b:76033
- Song, Qiang A new method for snowmelt runoff forecasting in real-time. (Chinese summary) (Not in MR)
- Stenchikov, G. L. (with Stepanov, D. S.) Modeling climatic processes. (Russian. English summary) 91d:86007
- Stepanov, D. S. *see* Stenchikov, G. L., 91d:86007
- Sultanov, R. S. *see* Bugrov, A. N., (91a:00020)
- Swaters, Gordon E. Propagation of two-dimensional solitary drift-vortices in a viscous rotating fluid or plasma. 91b:76104
- Tan, Ben Kui (with Liu, Shi Kuo) Nonlinear Rossby waves in the geophysical fluids. (Chinese summary) 91k:76029
- Tang, Ling (with Liu, Ying Zhong) Evolution of slowly modulated wave train on porous sea bed. 91m:76118
- Tevs, M. V. *see* Gryanik, V. M., 91e:76032
- Touzani, Rachid *see* Besson, Olivier; et al., 91d:76025
- Tutek, Z. *see* Mikelić, Andro, 91g:76092
- Vilar, M. A. *see* Bermúdez de Castro, Alfredo; et al., 91k:76030
- Volyak, K. I. (with Gorshkov, A. S.) Surface opposing-wave interaction above a periodically rough bottom. 91e:76030
- (with Semenov, A. Yu.; Shugan, I. V.) Interaction of surface and internal waves. (Russian. English summary) 91b:76033
- *see also* Nonlinear wave processes, 91b:76029
- Xu, Yong Zhi An optimal control problem for the Helmholtz equation in a stratified shallow ocean. 91b:49024
- *see also* Gilbert, Robert P., 91a:76080 and 91e:76097
- Yuen, H. C. *see* Caponi, E. A.; et al., 91m:76050
- Items listed otherwise than by author
- Nonlinear wave processes ★ Нелинейные волновые процессы. (Russian) [Nonlinear wave processes] 91b:76029

86A10 Meteorology and atmospheric physics [see also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]

- Aloyan, A. E. (with Falcichik, A. A.; Falcichik, L. M.) An algorithm for the numerical solution of mesometeorological problems in the case of a curvilinear domain. (Russian) 91c:86004
- Andrews, David G. On the forcing of time-mean flows by transient, small-amplitude eddies. 91g:86005
- Browning, G. (with Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. 91k:86002
- Chou, Ji Fan *see* Wang, Shou Hong; et al., 91j:86002
- Demchenko, P. F. Interaction of planetary flows with a layer of developed turbulence. (Not in MR)
- Drink, Gerhard A horizontally two-dimensional climate model. (see 91g:00040)
- Eating, I. G. (with Newsam, G. N.) Inverse problems in atmospheric constituent studies. II. Sources in the free atmosphere. 91g:86002
- Falcichik, A. A. *see* Aloyan, A. E.; et al., 91c:86004
- Falcichik, L. M. *see* Aloyan, A. E.; et al., 91c:86004
- Fedorov, S. V. *see* Palagin, Yu. I.; et al., 91g:86003
- Fortus, M. I. *see* Obukhov, A. M.; et al., (91j:86004)
- Fridman, A. M. Larichev-Reznik modons of the f -plane. (Russian) 91c:86005
- Fyfe, John (with Held, Isaac M.) The two-fifths and one-fifth rules for Rossby wave breaking in the WKB limit. 91a:86005
- Georgakakos, K. P. *see* Sharif, M. B.; et al., (Not in MR)
- Gueytshe, V. G. (with Shira, V. I.) Dynamics of Rossby wave packets in the neighborhood of a zonal critical layer including the effects of viscosity. 91k:86003
- Gryn', V. I. (with Kerimov, M. K.) Integro-differential equations on the coagulation of nonspherical aerosols. (Russian) 91m:86004
- Held, Isaac M. *see* Fyfe, John, 91a:86005
- Huang, Jian Ping *see* Wang, Shou Hong; et al., 91j:86002
- Iskenderov, D. Sh. (with Nikolaevskii, V. N.) A mathematical model of tornado-like motions with internal vortices. (Russian) 91m:86005
- Ji, Li Ren *see* Luo, De Hai, 91c:86007
- Kerimov, M. K. *see* Gryn', V. I., 91m:86004
- Kreiss, Heinz-Otto *see* Browning, G., 91k:86002
- Kritz, M. V. Numerical modelling of canopy viscosity. A progress report. (see 91g:00044)
- Lu, Wei Song Frictional dissipation and nonlinear barotropic instability. 91b:86001
- Luo, De Hai On the Benjamin-Ono equation and its generalization in the atmosphere. 91c:86006
- (with Ji, Li Ren) A theory of blocking formation in the atmosphere. 91c:86007
- Lykosov, V. N. ★ К-теория турбулентного планетарного пограничного слоя атмосферы и обобщенная гипотеза Буссинеска. (Russian) [K-theory of a turbulent planetary atmospheric boundary layer and the generalized Boussinesq conjecture] 91b:86007
- Marmershtein, I. I. (with Shnaldman, V. A.) A finite-difference technique for solving the omega equation. 91c:86008
- Moore, G. W. Kent (with Peltier, W. R.) Nonseparable baroclinic instability. II. Primitive-equations dynamics. 91d:86005
- Mu, Mu Global classical solutions to initial-boundary value problems for the potential vorticity equation. 91b:86008
- Newsam, G. N. *see* Eating, I. G., 91g:86002
- Nikolaevskii, V. N. *see* Iskenderov, D. Sh., 91m:86005
- Obukhov, A. M. (with Fortus, M. I.; Yaglom, A. M.) Canonical correlations for random processes and their meteorological applications. (see 91j:60004)
- Omel'yanov, G. A. Interaction of short waves in the barotropic atmosphere. 91a:86006
- Palagin, Yu. I. (with Fedotov, S. V.; Shalygin, A. S.) Parametric models for statistical modeling of vector inhomogeneous random fields. 91g:86003
- Peltier, W. R. *see* Moore, G. W. Kent, 91d:86005
- Plumb, R. Alan A nonacceleration theorem for transient quasi-geostrophic eddies on a three-dimensional time-mean flow. 91g:86004
- Rodríguez-Iturbe, I. *see* Sharif, M. B.; et al., (Not in MR)
- Shalygin, A. S. *see* Palagin, Yu. I.; et al., 91g:86003
- Smirni, M. B. (with Georgakakos, K. P.; Rodríguez-Iturbe, I.) Evidence of deterministic chaos in the pulse of storm rainfall. (Not in MR)
- Sherashkov, V. V. *see* Takvitidze, Z. I., 91m:86006
- Shnaldman, V. A. *see* Marmershtein, I. I., 91c:86008
- Shira, V. I. *see* Gueytshe, V. G., 91k:86003
- Simakova, N. A. (with Yakubov, V. P.) Singular regularization in the solution of the inverse problem of refraction. 91d:86006
- Stenchikov, G. L. (with Stepanov, D. S.) Modeling climatic processes. (Russian. English summary) 91d:86007
- Stenflo, L. Acoustic gravity vortices. 91f:86004
- Stepanov, D. S. *see* Stenchikov, G. L., 91d:86007

- de Swart, H. E. ★ Vacillation and predictability properties of low-order atmospheric spectral models. 91f:86005
- Thomson, David J. Quadratic-inverse spectrum estimates: applications to palaeoclimatology. (Not in MR)
- Takvitidze, Z. I. (with Sherahkov, V. V.) Application of asymptotic methods to nonadiabatic hydrodynamic models. 91m:86006
- Verkley, W. T. M. Modons with uniform absolute vorticity. 91a:86007
- On the beta plane approximation. 91k:86004
- Wang, Shou Hong (with Huang, Jian Ping; Chou, Ji Fan) Some properties of the solutions of the large-scale equations of atmosphere—nonlinear adjustment process by exterior steady sources. 91j:86002
- Yaglom, A. M. see Obukhov, A. M.; et al., 91j:60004
- Yakubov, V. P. see Simakova, N. A., 91d:86006
- Items with secondary classifications in 86A10
- Adam, John A. An initial value problem for magnetospheric waves. I. Theory. 91d:85003
- Beer, T. Optimizing performance of finite-difference schemes. 91h:65202
- Chaskalovic, Joël Sur la modélisation mathématique de courants atmosphériques singuliers. (English summary) [On a mathematical model of singular atmospheric flows] 91k:76031
- Cheng, Tsu-Kuang see Liu, Shi Da, 91f:76053
- Filatov, A. N. see Ilin, A. A., 91f:76020
- Gauthier, Pierre Effect of detuning on the development of marginally unstable baroclinic vortices. 91d:76039
- Ghil, M. see Jin, Fei Fei, 91k:76065
- Gnevyshev, V. G. (with Shiria, V. I.) Monochromatic Rossby wave transformation in zonal flow critical layers. 91j:76018
- Goldshtik, M. A. (with Shtrn, V. N.) Collapse in conical viscous flows. 91f:76016
- Grimshaw, R. H. J. see Mitsudera, H., 91m:76027
- Gupta, Neelam see Sachdev, P. L., 91e:86003
- Hanggi, Peter see Jung, Peter, 91f:82058
- Hart, J. E. On oscillatory flow over topography in a rotating fluid. 91b:76061
- Hetzer, Georg The structure of the principal component for semilinear diffusion equations from energy balance climate models. 91k:35115
- Higgins, R. Wayne (with Shirer, Hampton N.) Transitions from Hadley to Rossby flows in internally forced rotating spherical systems. 91e:76055
- Horiuchi, Satoshi (with Irie, Haruyuki; Sato, Masatomo) Stationary drift-Rossby vortices in shear flows. 91c:76025
- Ilin, A. A. (with Filatov, A. N.) Stability of stationary solutions of equations of a barotropic atmosphere with respect to linear approximation. 91f:76020
- Irie, Haruyuki see Horiuchi, Satoshi; et al., 91c:76025
- Jin, Fei Fei (with Ghil, M.) Intraseasonal oscillations in the extratropics: Hopf bifurcation and topographic instabilities. 91k:76065
- Johnson, E. R. The low-frequency scattering of Kelvin waves by stepped topography. 91c:76022
- Joly, Alain (with Thorpe, Alan J.) The stability of time-dependent flows: an application to fronts in developing baroclinic waves. 91k:76066
- Jung, Peter (with Hanggi, Peter) Resonantly driven Brownian motion: basic concepts and exact results. 91f:82058
- Kargin, I. A. Monte Carlo method in stochastic problems of the atmosphere and ocean optics. (see 91m:65003)
- Kondrat'ev, K. Ya. (with Nikanorov, A. M.; Pantyukhin, Ya. V.; Zavolzhenskii, M. V.) Ekman drift and other currents in unbounded domains. (Not in MR)
- Krzysztofowicz, Roman (with Long, Dou) To protect or not to protect: Bayes decisions with forecasts. 91g:90005
- Larichev, V. D. Analytic theory for the weak interaction of Rossby solitons. 91e:76033
- Liu, Shi Da (with Cheng, Tsu-Kuang) A nonlinear mechanism producing atmospheric turbulence. 91a:76053
- Liu, Shi Kuo see Tan, Ben Kui, 91k:76029
- Long, Dou see Krzysztofowicz, Roman, 91g:90005
- Lu, H.-I. see Steppeler, J.; et al., 91d:86004
- Marcus, Phillip S. Vortex dynamics in a shearing zonal flow. 91c:76026
- Mitsudera, H. (with Grimshaw, R. H. J.) Effects of radiative damping on resonantly generated internal gravity waves. 91m:76027
- Navon, I. M. see Steppeler, J.; et al., 91d:86004
- Nikanorov, A. M. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Novikov, Evgeny A. Chaotic vortex-body interaction. 91m:76024
- Pantyukhin, Ya. V. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- Pedlosky, J. see Samelson, R. M., 91f:76032
- Pham Lê Vã Weak Cauchy problems for diffusion equations. 91m:35098
- Romanov, V. K. The spectrum of a mixed problem for a system of the dynamics of the atmosphere and ocean. (Russian) 91c:86003
- Röhm, R. General form of the equations of atmospheric dynamics in isobaric coordinates. 91m:76029
- Sachdev, P. L. (with Gupta, Neelam) Exact traveling-wave solutions for model geophysical systems. 91e:86003
- Samelson, R. M. (with Pedlosky, J.) Local baroclinic instability of flow over variable topography. 91j:76032
- Sato, Masatomo see Horiuchi, Satoshi; et al., 91c:76025
- Sheina, E. A. see Smirnov, A. P., 91f:76014
- Shepherd, Theodore G. Isovortical constraints on the statistical-dynamical behaviour of strongly nonlinear two-dimensional and quasi-geostrophic flow. (see 91k:76005)
- Shirer, Hampton N. see Higgins, R. Wayne, 91f:76055
- Shiria, V. I. see Gnevyshev, V. G., 91j:76018
- Shtrn, V. N. see Goldshtik, M. A., 91f:76016
- Skiba, Yu. N. ★ Об однозначной разрешимости уравнения баротропного вихря вязкой жидкости в классах обобщенных функций на сфере. (Russian) [Unique solvability of the equation of a barotropic vortex of viscous fluid in classes of generalized functions on a sphere] 91k:76031
- Smirnov, A. P. (with Sheina, E. A.) Existence of solitary vortices in a zonal flow. 91f:76014
- Smith, S. H. The development of geostrophic flow within a split cylinder. 91m:76123
- Steppeler, J. (with Navon, I. M.; Lu, H.-I.) Finite-element schemes for extended integrations of atmospheric models. 91d:86004
- Stoyan, E. Yu. see Sviridov, V. V.; et al., 91c:90110
- Sviridov, V. V. (with Stoyan, E. Yu.; Yakovlev, S. V.) Mapping parametric geometric information in problems of observation and control. (Russian. English summary) 91c:90110
- Tan, Ben Kui (with Liu, Shi Kuo) Nonlinear Rossby waves in the geophysical fluids. (Chinese summary) 91k:76029
- Thacker, W. C. Large least-squares problems and the need for automating the generation of adjoint codes. 91e:86001
- Thorpe, Alan J. see Joly, Alain, 91k:76066
- Vladimirov, Yu. V. The field of internal waves in a neighborhood of a front that is excited by a source moving over a slowly varying bottom. 91b:76032
- Yakovlev, S. V. see Sviridov, V. V.; et al., 91c:90110
- Zavolzhenskii, M. V. see Kondrat'ev, K. Ya.; et al., (Not in MR)
- 86A15 Seismology [see also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]**
- Alekseev, A. S. (with Erokhin, G. N.) Complexification in inverse problems of geophysics (integral geophysics). (Russian) 91g:86006
- Anishkovich, E. M. (with Kondrashkov, V. V.) Application of catastrophe theory to the study of the structural stability of seismic structures. (Russian) 91g:86007
- Assous, F. (with Collino, F.) A numerical method for the exploration of sensitivity: the case of the identification of the 2D stratified elastic medium. 91d:86008
- Basu, Atanu (with Frazer, L. Neil) Rapid determination of the critical temperature in simulated annealing inversion. 91f:86006
- Birger, B. I. Stress propagation in the Earth's lithosphere. (Russian) 91k:86005
- Blyas, E. A. Time fields for reflective waves in three-dimensional layered media with weakly curvilinear interfaces and laterally inhomogeneous layers. (Russian) 91b:86009
- Collino, F. see Assous, F., 91d:86008
- Daley, P. F. (with Hron, F.) The ray reflectivity method with critically refracted waves. 91d:86009
- Erokhin, G. N. see Alekseev, A. S., 91g:86006
- Faizullin, I. S. (with Shapiro, S. A.) Scattering of seismic waves and the fractal character of inhomogeneities of the lithosphere. (Russian) 91a:86008
- Fat'yanov, A. G. ★ Нестационарные сейсмические волновые поля в неоднородных анизотропных средах с поглощением энергии. (Russian) [Non-steady-state seismic wave fields in nonhomogeneous anisotropic media with energy absorption] 91b:86001
- A semi-analytic method for solving direct dynamical problems in layered media. (Russian) 91b:86002
- Frazer, L. Neil see Basu, Atanu, 91f:86006
- Glebov, A. F. A class of optimization algorithms for solving inverse kinematic problems. (Russian) 91c:86009
- Godin, O. A. Estimates for phase and group velocities of acoustic normal waves in a moving layered medium. (Russian) (Not in MR)
- Goldshtik, M. V. Boundary effects with integral continuation of wave fields. (Russian) 91a:86009
- see also Anishkovich, E. M., 91g:86007
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- Kondrashkov, V. V. see Anishkovich, E. M., 91g:86007
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- Mukhamedov, V. A. Probability aspects of fractal analysis of seismic series—the correlation integral and stable distributions. (Russian. English summary) 91m:86007
- Okol'skii, A. V. The spectral-operator method and some integral properties of synthetic wave fields. (Russian) 91b:86011
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- Shapiro, S. A. see Faizullin, I. S., 91a:86008
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- Borovikov, I. P. (with Gaponenko, Yu. L.) An inverse problem for the wave equation with an unknown source of perturbations. 91k:35200
- Bykovtsev, A. S. (with Kramarovskii, D. B.) Unsteady supersonic motion of a complex discontinuity. 91c:73027
- Canadas, Gay (with Chapel, François; Cuet, Michel; Zolésio, Jean-Paul) Shape interfaces in an inverse problem related to the wave equation. 91m:65305
- Chapel, François see Canadas, Gay; et al., 91m:65305
- Cohen, Jack K. see Bleistein, Norman, 91a:73017
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- Darwish, A. A. On the inverse scattering problem for a generalized Sturm-Liouville differential operator. 91g:34046
- Demetrius, S. see Popescu, Th. D., 91d:86011
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- Gorkovets, A. A. (with Kreml'ev, A. N.) Unitarity and a recurrent method for calculating scattering matrices for plane waves on an elastic layered medium. (Russian) 91k:73041
- Ita, E. N. Propagation of surface waves across a narrow layer between quarter spaces. (Russian) 91b:73027
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- Koltracht, Israel (with Lancaster, Peter; Smith, Digby) The structure of some matrices arising in tomography. 91j:65068
- Kramarovskii, D. B. see Bykovtsev, A. S., 91j:73027
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- Lancaster, Peter see Koltracht, Israel; et al., 91j:65068
- Lekhtonov, B. A. (with Pleshkevich, A. L.) The difference method for solving the eikonal equation. (Russian) 91e:73045
- O'Leary, P. M. Response of a class of low-loss viscoelastic materials to an oscillating source. 91a:73015
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- Ramm, Alexander G. Uniqueness result for inverse problem of geophysics. I. 91j:35283
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- Smith, Digby see Koltracht, Israel; et al., 91j:65068
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- Symes, William W. see Sacks, Paul E., 91h:73037
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- Zolésio, Jean-Paul see Canadas, Guy; et al., 91m:65305
- Zvolinskii, N. V. Frictional self-induced oscillations of an elastic layer. (Russian) 91k:73052

86A17 Global dynamics, earthquake problems

- Adamchik, Yu. A. Asymptotics of the norm square of a solution of a problem on natural torsional oscillations of a sphere that is filled with a radially inhomogeneous elastic medium. (Russian) 91m:86008
- Demetriu, S. see Popescu, Th. D., 91d:86011
- Popescu, Th. D. (with Demetriu, S.) Analysis and simulation of strong earthquake ground motions using ARMA models. 91d:86011
- Rochester, M. G. Normal modes of rotating self-gravitating compressible stratified fluid bodies: the subseismic wave equation. 91g:86008
- Sachs, Jeffrey R. see Takahashi, Daisuke; et al., 91f:86008
- Saidkarimov, U. S. Wave processes in inhomogeneities of the Earth's core. (Russian) 91f:86007
- Satsuma, Junkichi see Takahashi, Daisuke; et al., 91f:86008
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Items with secondary classifications in 86A17

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86A20 Potentials, prospecting [see also 76S05, 76W05]

- Cao, Hua Sheng see Zhu, Zhao Wen, (Not in MR)
- Gol'din, S. V. The method of discontinuities in problems of geophysics and tomography. (Russian) 91a:86010
- Kapanadze, D. V. Uniqueness of the solution of an inverse problem in potential theory. (Russian. English and Georgian summaries) 91f:86002
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- Keller, Wolfgang An overdetermined boundary value problem for a nonspherical boundary. (German summary) 91c:86010
- Khachai, O. A. Solution of an inverse problem for three-dimensional alternating electromagnetic anomalies. (Russian) 91c:86011
- Kondrat'ev, S. A. Solution of a conditionally well-posed problem in electrical prospecting. (Russian) (see 91f:65003)
- MacBain, John (with Secrest, Bruce) Source identification in remote sensing problems. 91m:86009
- Ramm, Alexander G. (with Somersalo, Erkki) Electromagnetic inverse problems with surface measurements at low frequencies. 91d:86012
- Secrest, Bruce see MacBain, John, 91m:86009
- Shestakov, A. F. The method of singular points for interpreting two-dimensional monochromatic electromagnetic fields. (Russian) 91c:86012
- Somersalo, Erkki see Ramm, Alexander G., 91d:86012
- Strakhov, V. N. Solution of linear inverse problems of gravimetry and magnetometry. (Russian) 91h:86003
- Explicit analytic representations of solutions of linear inverse problems of gravimetry and magnetometry with continual data. (Russian) 91h:86004
- Solution of a linear inverse problem of gravimetry taking into account structural information about the solution sought. (Russian) 91i:86003
- Variational methods in the theory of linear transformations of gravitational and magnetic anomalies. (Russian) 91k:86007
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- Brodskiĭ, M. A. (with Panakhov, E.) Concerning a priori estimates of the solution of the inverse logarithmic potential problem. 91h:31005
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- (Isaaks, E. H.) see Shurtz, Robert F., (Not in MR)
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- Margulis, A. S. Equivalence and uniqueness in an inverse problem of potential for homogeneous star-shaped bodies. (Russian) 91k:31002
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86A22 Inverse problems [see also 35R30]

Items with secondary classifications in 86A22

- Strakhov, V. N. Solution of linear inverse problems of gravimetry and magnetometry. (Russian) 91h:86003

86A25 Geo-electricity and geomagnetism [see also 78A25]

- Bamberger, Alain (with Cockburn, Bernardo; Goldman, Y.; Kern, Michel; Joly, Patrick) Numerical solution of Maxwell's equations in a conductive and polarizable medium. 91d:86013
- Braginsky, S. I. Some recent developments in geodynamo theory. 91h:86012
- Cockburn, Bernardo see Bamberger, Alain; et al., 91d:86013
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- Strakhov, V. N. Solution of an inverse linear problem in magnetometry over the field T . (Russian) 91k:86008

Items with secondary classifications in 86A25

- Chapman, P. B. (with Glover, J. N.; Mees, A. I.) The dynamics of the Rikitake dynamo from the stiff limit. 91g:58258
- Childress, S. see Soward, A. M., (91i:76005)
- Galanti, B. (with Gilbert, A. D.; Sulem, P.-L.) Generation of steady and oscillatory magnetic fields through inverse cascades in alpha-effect dynamos. (see 91i:76005)
- Gilbert, A. D. see Galanti, B.; et al., (91i:76005)
- Glover, J. N. see Chapman, P. B.; et al., 91g:58258
- Lindsay, K. A. (with Straughan, Brian) Energy methods for nonlinear stability in convection problems primarily related to geophysics. 91j:76031
- Mees, A. I. see Chapman, P. B.; et al., 91g:58258
- Molchanov, S. A. (with Ruzmaikin, A. A.; Sokolov, D. D.) Self-excitation and reconnections of magnetic field in random flow. (see 91i:76005)
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- Soward, A. M. (with Childress, S.) Dynamo action at large magnetic Reynolds number in spatially periodic flow with mean motion. (see 91i:76005)
- Strakhov, V. N. Solution of linear inverse problems of gravimetry and magnetometry. (Russian) 91h:86003
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- Sarkov, V. V. Geomagnetic perturbations in a layered medium that are conditioned by the propagation of a longitudinal spherical wave. 91d:86010

86A30 Geodesy, mapping problems

- Arnold, Kurt On the mathematical representation of the gravitational potential and its time

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Kesselman, S. I. see Fotiadi, E. E.; et al., 91a:86011

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Moritz, Helmut Equilibrium figures in geodesy and geophysics. (German summary) 91d:86014

Sacerdote, F. (with Sansò, F.) Some generalizations in the mathematical developments of the theory of the geodetic overdetermined problems. 91b:86014

Sansò, F. see Sacerdote, F., 91b:86014

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— ★ 6th International Symposium "Geodesy and Physics of the Earth". Part III. 91b:86017

Symposium: Geodesy and Physics of the Earth ★ 6th International Symposium "Geodesy and Physics of the Earth". Part I. 91b:86015

— ★ 6th International Symposium "Geodesy and Physics of the Earth". Part II. 91b:86016

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Items with secondary classifications in 86A30

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86A32 Geostatistics

Christakos, George A Bayesian/maximum-entropy view to the spatial estimation problem. 91g:86009

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— see also Myers, Donald E., (Not in MR)

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Srikanth, G. see Mehta, C. H.; et al., (Not in MR)

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Items with secondary classifications in 86A32

Cabrelli, Carlos A. The error in least square shaping filter. (Not in MR)

86A35 Atmospheric physics [see also 76C15, 76C20, 76E20, 76Rxx, 76U05, 76V05] (1985)

Barrat, M. (with Lecluse, Y.; Slamani, Y.) Étude comparative de différents modèles mathématiques pour la prédiction des niveaux de pollution atmosphérique. Analyse univariante. (English summary) [Comparative study of different mathematical models for predicting air-pollution levels. Univariate analysis] (Not in MR)

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Items with secondary classifications in 86A35

Findling, Andreas see Oppel, Ulrich G.; et al., (Not in MR)

Krichbaum, Wilhelm see Oppel, Ulrich G.; et al., (Not in MR)

Kriegemeier, Sigrid see Oppel, Ulrich G.; et al., (Not in MR)

Lai, Jin Li see Yang, Pei Cai; et al., (91b:00048)

Noormohammadian, Masoud see Oppel, Ulrich G.; et al., (Not in MR)

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Yang, Shuo Wen see Yang, Pei Cai; et al., (91b:00048)

86A40 Glaciology

Greenberg, J. M. (with Shyong, W.) Surging glacial flows. 91k:86009

Shyong, W. see Greenberg, J. M., 91k:86009

Items with secondary classifications in 86A40

Kerchman, V. I. Self-similar solutions of problems of the spreading and extrusion of a layer of a nonlinearly viscous fluid. (Russian) 91h:76006

Mazo, A. B. Hydrodynamics of an isothermal ice shelf. (Russian) (Not in MR)

86A60 Geological problems

Auerbach, S. (with Schaeben, H.) Computer-aided geometric design of geologic surfaces and bodies. (Not in MR)

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Fadeev, V. E. see Myasnikov, V. P., 91b:86020

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Gusev, V. I. see Bakurov, V. G.; et al., 91d:86015

Harris, DeVerle see Pan, Guocheng, 91c:86015

Izmailov, A. F. see Bakurov, V. G.; et al., 91d:86015

Jiang, Fang Yi (with Li, Yin Ting) A solution to the upward migration of an intrusion. 91c:86014

Karakin, A. V. Models of the fluid dynamics of the Earth's core with an inelastic skeleton. (Russian) 91d:86016

— see also Gordin, V. A., 91b:86019

Kessel', A. R. see Bakurov, V. G.; et al., 91d:86015

Langer, J. S. see Carlson, J. M., 91b:86018

Li, Yin Ting see Jiang, Fang Yi, 91c:86014

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Schaeben, H. see Auerbach, S., (Not in MR)

Items with secondary classifications in 86A60

Bajpai, S. D. (with Mishra, Sadhana) Meijer's G-function and the conduction of heat on a flat earth. 91g:80003

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Ismail-Zade, A. T. see Naimark, B. M., 91h:76062

Kerchman, V. I. On the problem of the spreading and extrusion of a layer of a nonlinearly viscous fluid. 91h:76005

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Ortoleva, Peter J. see Chadam, John M.; et al., 91m:76114

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86A99 Miscellaneous topics

ter Braak, C. J. F. see de Gruijter, J. J., 91a:86012

Chen, Zhen Cheng The strict solution of two-dimensional problem for hydrodynamic pressure distributed on water wetted dam plane inclined with an angle during earthquake. 91h:86010

Chirkin, A. I. see Matyukhina, O. V., (91j:00012)

Davis, J. C. see Harff, J., (Not in MR)

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Gibson, R. E. (with Silis, G. C.) Consolidation due to underpumping an accreting layer of sediment. (Not in MR)

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Grundy, R. E. A mathematical model for rock blasting involving a degenerate nonlinear diffusion equation. 91e:86005

Harff, J. (with Davis, J. C.) Regionalization in geology by multivariate classification. (Not in MR)

Jin, Ya Qiu Radiative transfer theory for strongly fluctuating, continuous random media. 91h:86006

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Kaliev, I. A. (with Mukhambetzhanov, S. T.; Razinkov, E. N.) Well-posedness of a mathematical model of nonequilibrium phase transitions of water in porous media. (Russian) 91k:86011

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Bamberger, Alain (with Joly, Patrick; Roberts, Jean E.) Second-order absorbing boundary conditions for the wave equation: a solution for the corner problem. 91b:35066

Borja, Ronaldo I. One-step and linear multistep methods for nonlinear consolidation. 91m:76113

Carillo, Sandra see Guo, Ben Yu, 91k:76152

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Jiang, Yansheng ★ Slope analysis using boundary elements. 91k:73091

Joly, Patrick see Bamberger, Alain; et al., 91b:35066

Kornev, G. K. Extremal estimates in the theory of freezing of filtering soils. 91b:76099

Natenzon, M. Ya. (with Neishtadt, A. I.; Sagdeev, R. Z.; Seryakov, G. K.; Zaslavskii, G. M.) Chaos in the Kepler problem and long-period comet dynamics. 91d:58164

Neishtadt, A. I. see Natenzon, M. Ya.; et al., 91d:58164

Roberts, Jean E. see Bamberger, Alain; et al., 91b:35066

Sagdeev, R. Z. see Natenzon, M. Ya.; et al., 91d:58164

Seryakov, G. K. see Natenzon, M. Ya.; et al., 91d:58164

Siddiqui, A. A unified presentation of the Voigt functions. 91j:33013

Todorovic, P. An extremal problem arising in soil erosion modeling. 91b:62022

Zaslavskii, G. M. see Natenzon, M. Ya.; et al., 91d:58164

Zhang, Peng The analytical solution for Helmholtz boundary problem in nonhorizontally stratified domains. 91c:35078

90-XX Economics, operations research, programming, games

90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 90-00

(de Leve, Gijb) see Bibliography: de Leve, Gijb, (91a:90002) and Dissertations supervised by Gijb de Leve, (91a:90002)

Items listed otherwise than by author

Bibliography:

de Leve, Gijb Publications of Gijb de Leve. (see 91a:90002)

Dissertations supervised by Gijb de Leve Dissertations supervised by Gijb de Leve. (see 91a:90002)

Index:

Math. Programming, Ser. A Master index: Mathematical Programming. 91g:00009

Math. Programming, Ser. B Master index: Mathematical Programming. 91g:00009

Math. Programming Study Master index: Mathematical Programming. 91g:00009

90-01 Instructional exposition (textbooks, tutorial papers, etc.)

Alj, A. (with Faure, Robert) ★ Guide de la recherche opérationnelle. Tome 1. (French) [Guide to operations research. Vol. 1] 91g:90060

Bazaraa, Mokhtar S. (with Jarvis, John J.; Sherali, Hanif D.) ★ Linear programming and network flows. 91h:90001

(Brahimi, Ch.) see Alj, A., 91g:90060

Faure, Robert see Alj, A., 91g:90060

(Heljmann, J. G. C.) see Hua, Lao Geng, 91k:90001

Hua, Lao Geng (with Wang, Yuan) ★ Popularizing mathematical methods in the People's Republic of China. 91k:90001

Jarvis, John J. see Bazaraa, Mokhtar S.; et al., 91h:90001

(Lemaire, Bernard) see Alj, A., 91g:90060

(Lignelet, P.) see Alj, A., 91g:90060

Mallios, William S. ★ Statistical modeling. 91d:90001

Shenoy, G. V. ★ Linear programming. 91k:90002

Sherali, Hanif D. see Bazaraa, Mokhtar S.; et al., 91h:90001

Wang, Yuan see Hua, Lao Geng, 91k:90001

Items with secondary classifications in 90-01

Alj, A. (with Faure, Robert) ★ Guide de la recherche opérationnelle. Tome 2. (French) [Guide to operations research. Vol. 2] 91g:90061

Biggs, Norman L. ★ Discrete mathematics. 91h:00002

(Brahimi, Ch.) see Alj, A., 91g:90061

Faure, Robert see Alj, A., 91g:90061

Groah, Doris Lloyd ★ A primer of reliability theory. 91d:90048

Hillion, Hervé P. see Proth, Jean-Marie, 91k:90081

(Lemaire, Bernard) see Alj, A., 91g:90061

(Lignelet, P.) see Alj, A., 91g:90061

McLewia, Will ★ Linear programming and applications. 91e:90061

Proth, Jean-Marie (with Hillion, Hervé P.) ★ Mathematical tools in production management. 91k:90081

Rapoport, Anatol ★ Decision theory and decision behaviour. 91a:90012

Roberts, Fred S. Applications of combinatorics and graph theory to the biological and social sciences: seven fundamental ideas. 91c:92001

Telser, Lester G. ★ Theories of competition. 91h:90025

Varian, Hal R. ★ Mikroökonomie. (German) [Microeconomics] 91a:90004

(Weigert, Martin) see Varian, Hal R., 91a:90004

de Werra, Dominique ★ Éléments de programmation linéaire avec application aux graphes. (French) [Elements of linear programming with application to graphs] 91h:90126

Williams, H. P. Optimisation and operational research. (Not in MR)

90-02 Research exposition (monographs, survey articles)

Alekseev, A. V. see Borisov, A. N.; et al., 91i:90001

Antamooshkin, A. N. ★ Оптимизация функционалов с булевыми переменными. (Russian) [Optimization of functionals with Boolean variables] 91h:90002

— ★ Регулярная оптимизация псевдобулевых функций. (Russian) [Regular optimization of pseudo-Boolean functions] 91m:90001

Antsiferov, E. G. (with Ashchepkov, L. T.; Bulatov, V. P.) ★ Методы оптимизации и их приложения. Часть 1. (Russian) [Optimization methods and their applications. Part 1] 91f:90001

Ashchepkov, L. T. see Antsiferov, E. G.; et al., 91f:90001

Borisov, A. N. (with Alekseev, A. V.; Merkuryeva, Galina V.; Slyad', N. N.; Glushkov, V. I.) ★ Обработка нечеткой информации в системах принятия решений. (Russian) [Processing fuzzy information in decision-making systems] 91h:90001

Bulatov, V. P. see Antsiferov, E. G.; et al., 91f:90001

Dothan, Michael U. ★ Prices in financial markets. 91k:90003

Fletcher, Roger Recent developments in methods for nonlinear programming. (see 91j:90015)

Glushkov, V. I. see Borisov, A. N.; et al., 91h:90001

Kelly, L. M. Geometry in mathematical programming and optimization. (Arabic summary) 91h:90003

Khachaturov, V. R. ★ Математические методы регионального программирования. (Russian) [Mathematical methods for regional programming] 91k:90004

Kur'mina, T. I. see Petrovskiy, L. A., 91m:90002

Merkuryeva, Galina V. see Borisov, A. N.; et al., 91h:90001

Petrovskiy, L. A. (with Kur'mina, T. I.) ★ Бескооперативные дифференциальные игры. (Russian) [Noncooperative differential games] 91m:90002

Phan Quoc Khanh Multicriteria optimization. (Polish. English summary) 91f:90003

(Rastrigin, L. A.) see Antamooshkin, A. N., 91h:90002

Slyad', N. N. see Borisov, A. N.; et al., 91h:90001

Srochko, V. A. see Vasil'ev, O. V.; et al., 91f:90002

Terletskii, V. A. see Vasil'ev, O. V.; et al., 91f:90002

Vasil'ev, O. V. (with Srochko, V. A.; Terletskii, V. A.) ★ Методы оптимизации и их приложения. Часть 2. (Russian) [Optimization methods and their applications. Part 2] 91f:90002

Yudin, D. B. ★ Вычислительные методы теории принятия решений. (Russian) [Numerical methods in the theory of decision-making] 91g:90001

Items with secondary classifications in 90-02

Aoki, Masanao ★ Optimization of stochastic systems. 91h:90003

Brock, William A. (with Malliaris, A. G.) ★ Differential equations, stability and chaos in dynamic economics. 91a:90047

Clark, Colin W. ★ Mathematical bioeconomics. 91c:90037

Dem'yanov, V. F. (with Malozemov, V. N.) ★ Introduction to minimax. 91k:49001

Flacco, Anthony V. (with McCormick, Garth P.) ★ Nonlinear programming. 91d:90009

Galperin, Edm A. Problem-method classification in optimization and control. (Not in MR)

Guckenheimer, John Obstacles to modelling large dynamical systems. 91a:92001

Giddotti, Laura see Murachini, Luigi, 91h:90114

- Kovalev, M. Ya. (with Shafranskii, Ya. M.; Strusevich, V. A.; Tanaev, V. S.; Tuzikov, A. V.) Approximation scheduling algorithms: a survey. 91a:90092
- Kushner, Harold J. Numerical methods for stochastic control problems in continuous time. 91i:93130
- (Lousish, D.) see Dem'yanov, V. F., 91k:49001
- Malliaris, A. G. see Brock, William A., 91a:90047
- Malozemov, V. N. see Dem'yanov, V. F., 91k:49001
- Markowitz, Harry M. ★ Mean-variance analysis in portfolio choice and capital markets. 91k:90024
- McCormick, Garth P. see Flacco, Anthony V., 91d:90089
- (Munro, Gordon R.) see Clark, Colin W., 91c:90037
- Muracchini, Luigi (with Guidotti, Laura) ★ Programmazione matematica. (Italian) [Mathematical programming] 91b:90114
- Shafranskii, Ya. M. see Kovalev, M. Ya.; et al., 91a:90092
- Sina, Hans-Werner ★ Economic decisions under uncertainty. 91k:90017
- Strusevich, V. A. see Kovalev, M. Ya.; et al., 91a:90092
- Tanaev, V. S. see Kovalev, M. Ya.; et al., 91a:90092
- Tuzikov, A. V. see Kovalev, M. Ya.; et al., 91a:90092
- Vaisbord, E. M. (with Zhukovskii, V. I.) ★ Introduction to multi-player differential games and their applications. 91c:90139
- Wang, Ze Ke (with Yi, Yan Chun; Zhong, Xin) Dynamical system approaches to mathematical economics. (Chinese) 91g:90002
- (Williams, Anthony) see Vaisbord, E. M., 91c:90139
- Williams, Byron K. Review of dynamic optimization methods in renewable natural resource management. 91b:90063
- Yi, Yan Chun see Wang, Ze Ke; et al., 91g:90002
- Zhong, Xin see Wang, Ze Ke; et al., 91g:90002
- Zhukovskii, V. I. see Vaisbord, E. M., 91c:90139

90-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 90-03

- Allais, Maurice An outline of my main contributions to economic science (Nobel lecture). (Not in MR)
- Benedetti, Carlo An exchange of ideas with A. A. Konyus on index numbers and on probability. (Italian. English summary) 91c:01040
- Jackson, R. H. P. Some applications of queueing theory in operational research (1953-89). (Not in MR)
- Kantorovich, L. V. The state and problems of economics. (Russian) (Not in MR)
- (Konyus, A. A.) see Benedetti, Carlo, 91c:01040
- (Manara, Carlo Felice) see Quadrio Curzio, Alberto, 91i:01106a
- Morgan, Mary S. ★ The history of econometric ideas. 91f:62175
- Quadrio Curzio, Alberto The mathematical economics of Carlo Felice Manara. (Italian. English summary) 91i:01106a
- Young, H. Peyton Condorcet's theory of voting. (French summary) (Not in MR)

90-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 90-04

- Huang, Sheng Le Identification of controlled processes by using simplex method for the linear programming on a computer. (Chinese. English summary) (Not in MR)

90-06 Proceedings, conferences, collections, etc.

- (Andriyash, V. N.) see Computer control of an agribusiness, 91a:90001
- (Busygina, V. P.) see Analysis and application of mathematical models in economic dynamics, 91i:90002
- (Cook, William J.) see Polyhedral combinatorics, 91k:90011
- (Cormet, Bernard) see Contributions to operations research and economics, 91k:90005
- (Dement'ev, N. P.) see Analysis and application of mathematical models in economic dynamics, 91i:90002
- (Ermo'ev, Yu. M.) see Mathematical decision-making methods under conditions of uncertainty, 91m:90005
- (Frolov, Vladimir Nikolaevich) see Optimization and modeling in automated systems, 91i:90004
- (Fuchsteiner, Benno) see Symposium: Operations Research, 91f:90006
- (Gartner, Nathan H.) see Urban traffic networks: dynamic control and flow equilibrium, 91k:90012
- (Gay, David M.) see Interior point methods for linear programming, 91m:90004
- (Gessner, P.) see Symposium: Operations Research, 91f:90007 and 91f:90008
- (Guddat, Jürgen) see Parametric optimization and related topics, 91k:90010
- (Henn, Rudolf) see Special topics on mathematical economics and optimization theory, 91k:90002
- (Ichihashi, Tatsuro) see Game theory and applications, 91i:90003
- (Improta, Gennaro) see Urban traffic networks: dynamic control and flow equilibrium, 91k:90012
- (Iri, Masao) see Applications of mathematical programming, 91m:90003
- (Ivanilov, Yu. P.) see Operations research (models, systems, solutions), 91k:90009
- (Jongen, Hubertus Th.) see Parametric optimization and related topics, 91k:90010
- (Kislyak, V. M.) see Classification and optimization methods in applied problems, 91c:90001
- (Kleinschmidt, Peter) see Symposium: Operations Research, 91f:90004 and 91f:90005
- (Kojima, Masakazu) see Interior point methods for linear programming, 91m:90004
- (Kononenko, A. F.) see New results in operations research theory, 91k:90008
- (Kummer, Bernd) see Parametric optimization and related topics, 91k:90010
- (Lagarias, Jeffrey C.) see Mathematical developments arising from linear programming, 91k:90007
- (Lengauer, Thomas) see Symposium: Operations Research, 91f:90006
- (Lenstra, Jan Karel) see Twenty-five years of operations research in The Netherlands, 91a:90002
- (de Leve, Gijb) see Twenty-five years of operations research in The Netherlands, 91a:90002
- (Neyman, Abraham) see Game theory and applications, 91i:90003
- (Nožička, František) see Parametric optimization and related topics, 91k:90010
- (Pallaschke, Diethard) see Special topics on mathematical economics and optimization theory, 91b:90002
- (Pardalos, Panos M.) see Computational methods in global optimization, 91h:90004
- (Pavlovskii, Yu. N.) see Decomposition and optimization of complex systems, 91k:90006
- (Peyerimhoff, A.) see Symposium: Operations Research, 91f:90007 and 91f:90008
- (Radermacher, Franz Josef) see Symposium: Operations Research, 91f:90004; 91f:90005; 91f:90007 and 91f:90008
- (Rieder, U.) see Symposium: Operations Research, 91f:90007 and 91f:90008
- (Rosen, J. B.) see Computational methods in global optimization, 91h:90004
- (Schweitzer, Walter) see Symposium: Operations Research, 91f:90004 and 91f:90005
- (Seymour, Paul D.) see Polyhedral combinatorics, 91k:90011
- (Shinoda, S.) see Applications of mathematical programming, 91m:90003
- (Skala, Heinz J.) see Symposium: Operations Research, 91f:90006
- (Smirnov, A. I.) see Classification and optimization methods in applied problems, 91c:90001
- (Tanabe, Kunio) see Applications of mathematical programming, 91m:90003
- (Tapia, Richard) see Interior point methods for linear programming, 91m:90004
- (Tausman, Yair) see Game theory and applications, 91i:90003
- (Tijms, H. C.) see Twenty-five years of operations research in The Netherlands, 91a:90002
- (Todd, Michael J.) see Mathematical developments arising from linear programming, 91k:90007
- (Tulkens, Henry) see Contributions to operations research and economics, 91k:90005
- (Voigtmann, Tom) see Twenty-five years of operations research in The Netherlands, 91a:90002
- (Wildemann, Horst) see Symposium: Operations Research, 91f:90004 and 91f:90005
- Items listed otherwise than by author
- Analysis and application of mathematical models in economic dynamics ★ Анализ и применение математических моделей экономической динамики. (Russian) [Analysis and application of mathematical models in economic dynamics] 91i:90002
- Applications of mathematical programming ★ Applications of mathematical programming. 91m:90003
- Brunswick, ME ★ Mathematical developments arising from linear programming. 91k:90007
- Capri ★ Urban traffic networks: dynamic control and flow equilibrium. 91k:90012
- Catania ★ Proceedings of the 5th Meeting of the EURO Working Group on Financial Modelling. 91h:90005
- Classification and optimization methods in applied problems ★ Методы классификации и оптимизации в прикладных задачах. (Russian) [Classification and optimization methods in applied problems] 91c:90001
- Columbus, OH ★ Game theory and applications. 91i:90003
- Computational methods in global optimization ★ Computational methods in global optimization. 91h:90004
- Computer control of an agribusiness ★ Управление агропромышленным производством с помощью ЭВМ. (Russian) [Computer control of an agribusiness] 91a:90001
- Conference:
- Game Theory and Applications ★ Game theory and applications. 91i:90003
- Mathematical Developments Arising from Linear Programming ★ Mathematical developments arising from linear programming. 91k:90007
- Parametric Optimization and Related Topics ★ Parametric optimization and related topics. II. 91k:90010
- Contemporary Mathematics ★ Mathematical developments arising from linear programming. 91k:90007
- Contributions to operations research and economics ★ Contributions to operations research and economics. 91k:90005
- Decomposition and optimization of complex systems ★ Декомпозиция и оптимизация в сложных системах. (Russian) [Decomposition and optimization of complex systems] 91k:90006
- Eisenach ★ Parametric optimization and related topics. II. 91k:90010
- Game theory and applications ★ Game theory and applications. 91i:90003
- Interior point methods for linear programming ★ Interior point methods for linear programming. 91m:90004
- Louvain-la-Neuve ★ Contributions to operations research and economics. 91k:90005
- Market dynamics and industrial structure ★ Market dynamics and industrial structure. 91b:90001
- Mathematical decision-making methods under conditions of uncertainty ★ Математические методы принятия решений в условиях неопределенности. (Russian) [Mathematical decision-making methods under conditions of uncertainty] 91m:90005
- Mathematical developments arising from linear programming ★ Mathematical developments arising from linear programming. 91k:90007
- Meeting:
- EURO Working Group on Financial Modelling ★ Proceedings of the 5th Meeting of the EURO Working Group on Financial Modelling. 91h:90005
- Methods of Operations Research ★ XII Symposium on Operations Research. 91f:90004
- ★ XII Symposium on Operations Research. 91f:90005
- ★ Special topics on mathematical economics and optimization theory. 91b:90002
- ★ XIII Symposium on Operations Research. 91f:90006
- ★ XIV Symposium on Operations Research. 91f:90007
- ★ XIV Symposium on Operations Research. 91f:90008
- Morristown, NJ ★ Polyhedral combinatorics. 91k:90011
- New results in operations research theory ★ Новые результаты в теории исследования операций. (Russian) [New results in operations research theory] 91k:90008
- Operations research (models, systems, solutions) ★ Исследование операций (модели, системы, решения). (Russian) [Operations research (models, systems, solutions)] 91k:90009

- Optimization and modeling in automated systems** ★ Оптимизация и моделирование в автоматизированных системах. (Russian) [Optimization and modeling in automated systems] 91i:90004
- Paderborn** ★ XIII Symposium on Operations Research. 91f:90006
- Parametric optimization and related topics** ★ Parametric optimization and related topics. II. 91k:90010
- Paris** ★ Market dynamics and industrial structure. 91b:90001
- Passau** ★ XII Symposium on Operations Research. 91f:90004
- ★ XII Symposium on Operations Research. 91f:90005
- Polyhedral combinatorics** ★ Polyhedral combinatorics. 91k:90011
- Proceedings:**
- Meeting of the EURO Working Group on Financial Modelling** ★ Proceedings of the 5th Meeting of the EURO Working Group on Financial Modelling. 91h:90005
- Seminar:**
- Urban Traffic Networks: Dynamic Control and Flow Equilibrium** ★ Urban traffic networks: dynamic control and flow equilibrium. 91k:90012
- Special Issue:**
- Interior point methods for linear programming** ★ Interior point methods for linear programming. 91m:90004
- Special topics on mathematical economics and optimization theory** ★ Special topics on mathematical economics and optimization theory. 91h:90002
- Studies on decision theory and related topics** ★ Kettei riron to sono shūhen. (Japanese) [Studies on decision theory and related topics] 91e:90002
- Symposium:**
- Contributions to Operations Research and Economics** ★ Contributions to operations research and economics. 91k:90005
- Industrial Economics** ★ Market dynamics and industrial structure. 91b:90001
- Mathematical Programming** ★ Applications of mathematical programming. 91m:90003
- Operations Research** ★ XII Symposium on Operations Research. 91f:90004
- ★ XII Symposium on Operations Research. 91f:90005
- ★ XIII Symposium on Operations Research. 91f:90006
- ★ XIV Symposium on Operations Research. 91f:90007
- ★ XIV Symposium on Operations Research. 91f:90008
- Studies on Decision Theory and Related Topics** ★ Kettei riron to sono shūhen. (Japanese) [Studies on decision theory and related topics] 91e:90002
- Tokyo** ★ Applications of mathematical programming. 91m:90003
- Twenty-five years of operations research in The Netherlands** ★ Twenty-five years of operations research in The Netherlands. 91a:90002
- Ulm** ★ XIV Symposium on Operations Research. 91f:90007
- ★ XIV Symposium on Operations Research. 91f:90008
- Urban traffic networks: dynamic control and flow equilibrium** ★ Urban traffic networks: dynamic control and flow equilibrium. 91k:90012
- Working Group:**
- Financial Modelling** ★ Proceedings of the 5th Meeting of the EURO Working Group on Financial Modelling. 91h:90005
- Workshop:**
- Polyhedral Combinatorics** ★ Polyhedral combinatorics. 91k:90011
- Items with secondary classifications in 90–06**
- (Bank, Randolph E.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:90035
- (Bulirsch, R.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:90035
- (Cellina, Arrigo) see Methods of nonconvex analysis. 91h:49002
- (Coleman, Thomas F.) see Large-scale numerical optimization. 91h:90029
- (Kantorovich, L. V.) see Functional analysis, optimization, and mathematical economics. 91h:90023
- (Korte, Bernhard) see Paths, flows, and VLSI-layout. 91h:68015
- (Leifman, Lev J.) see Functional analysis, optimization, and mathematical economics. 91h:90023
- (Li, Yuying) see Large-scale numerical optimization. 91h:90029
- (Lovász, László) see Paths, flows, and VLSI-layout. 91h:68015
- (Merten, K.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:90035
- (Mills, Edwin S.) see Handbook: Regional and urban economics. 91k:90091
- (Mühlenbein, Heinz) see Evolution and optimization '89. 91k:92005
- (Petrov, A. A.) see Mathematical modeling and discrete optimization. 91m:90017
- (Prümel, Hans Jürgen) see Paths, flows, and VLSI-layout. 91h:68015
- (Schrijver, Alexander) see Paths, flows, and VLSI-layout. 91h:68015
- (Schwefel, Hans-Paul) see Evolution and optimization '89. 91k:92005
- (Sárp, J.) see Mathematical analysis and systems theory. 91i:93003
- (Tallós, P.) see Mathematical analysis and systems theory. 91i:93003
- (Voigt, Hans-Michael) see Evolution and optimization '89. 91k:92005
- Items listed otherwise than by author**
- Bonn** ★ Paths, flows, and VLSI-layout. 91h:68015
- Conference:**
- Mathematical Modelling and Simulation of Electrical Circuits and Semiconductor Devices** ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:90035
- Optimization and Convex Analysis** ★ Proceedings of the Conference on Optimization and Convex Analysis. 91e:90032
- Eisenach** ★ Evolution and optimization '89. 91k:92005
- Evolution and optimization '89** ★ Evolution and optimization '89. 91k:92005
- Functional analysis, optimization, and mathematical economics** ★ Functional analysis, optimization, and mathematical economics. 91h:90023
- Handbook:**
- Regional and urban economics** ★ Handbook of regional and urban economics. Vol. II. 91k:90091
- Ithaca, NY** ★ Large-scale numerical optimization. 91h:90029

- Large-scale numerical optimization** ★ Large-scale numerical optimization. 91h:90029
- Lecture Notes in Mathematics** ★ Methods of nonconvex analysis. 91h:49002
- Mathematical analysis and systems theory** ★ Mathematical analysis and systems theory. V. 91i:93003
- Mathematical modeling and discrete optimization** ★ Математическое моделирование и дискретная оптимизация. (Russian) [Mathematical modeling and discrete optimization] 91m:90017
- Mathematical modelling and simulation of electrical circuits and semiconductor devices** ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:90035
- Meeting:**
- Paths, Flows, and VLSI-Layout** ★ Paths, flows, and VLSI-layout. 91h:68015
- Methods of nonconvex analysis** ★ Methods of nonconvex analysis. 91h:49002
- Oberwolfach** ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:90035
- Optimal control and differential games** ★ Optimal control and differential games. (Not in MR)
- Oxford, MS** ★ Proceedings of the Conference on Optimization and Convex Analysis. 91e:90032
- Paths, flows, and VLSI-layout** ★ Paths, flows, and VLSI-layout. 91h:68015
- Proceedings:**
- Conference on Optimization and Convex Analysis** ★ Proceedings of the Conference on Optimization and Convex Analysis. 91e:90032
- Session:**
- Methods of Nonconvex Analysis** ★ Methods of nonconvex analysis. 91h:49002
- Varena** ★ Methods of nonconvex analysis. 91h:49002
- Workshop:**
- Evolution Theory and Combinatorial Optimization** ★ Evolution and optimization '89. 91k:92005
- Large-scale Numerical Optimization** ★ Large-scale numerical optimization. 91h:90029

90Axx Mathematical economics {For econometrics, see 62P20.}

- Aoki, Masanao** ★ Optimization of stochastic systems. 91b:90003
- (Barnett, William A.) see Dynamic econometric modeling. 91a:90005
- (Berndt, Ernst R.) see Dynamic econometric modeling. 91a:90005
- Burkov, V. N.** (with Danev, B.; Enaleev, A. K.; Kondrat'ev, V. V.; Naneva, T. B.; Shchepkin, A. V.) ★ Большие системы: моделирование организационных механизмов. (Russian) [Large-scale systems for modeling organizational mechanisms] 91a:90003
- Danev, B.** see Burkov, V. N.; et al. 91a:90003
- Enaleev, A. K.** see Burkov, V. N.; et al. 91a:90003
- Kantorovich, L. V.** The state and problems of economics. (Russian) (Not in MR)
- Kondrat'ev, V. V.** see Burkov, V. N.; et al. 91a:90003
- Makarov, Valerii Leonidovich** Economic modeling and its role in theory and practice. (Russian) 91b:90004
- Naneva, T. B.** see Burkov, V. N.; et al. 91a:90003
- (Rubinov, A. M.) see Mathematical models of economic dynamics. 91a:90006
- Shchepkin, A. V.** see Burkov, V. N.; et al. 91a:90003
- (Tamoliūnas, Raimundas) see Mathematical models of economic dynamics. 91a:90006
- Varian, Hal R.** ★ Mikroökonomie. (German) [Microeconomics] 91a:90004
- Wang, Ze Ke** (with Yi, Yan Chun; Zhong, Xin) Dynamical system approaches to mathematical economics. (Chinese) 91g:90002
- (Weigert, Martin) see Varian, Hal R. 91a:90004
- (White, Halbert) see Dynamic econometric modeling. 91a:90005
- Yi, Yan Chun** see Wang, Ze Ke; et al. 91g:90002
- Zhong, Xin** see Wang, Ze Ke; et al. 91g:90002
- Items listed otherwise than by author**
- Austin, TX** ★ Dynamic econometric modeling. 91a:90005
- Conference:**
- Dynamic Econometric Modeling** ★ Dynamic econometric modeling. 91a:90005
- Dynamic econometric modeling** ★ Dynamic econometric modeling. 91a:90005
- Mathematical models of economic dynamics** ★ Математические модели экономической динамики. (Russian) [Mathematical models of economic dynamics] 91a:90006
- Symposium:**
- Economic Theory and Econometrics** ★ Dynamic econometric modeling. 91a:90005
- Items with secondary classifications in 90Axx**
- Kantorovich, L. V.** ★ Проблемы эффективного использования и развития транспорта. (Russian) [Problems in the efficient use and development of transportation] 91h:01098
- (Livshits, V. N.) see Kantorovich, L. V. 91h:01098
- (Paason, N. V.) see Kantorovich, L. V. 91h:01098
- Sorger, Gerhard** The saddle point property in Hamiltonian systems. 91e:58046
- (Tikhomirov, E. F.) see Kantorovich, L. V. 91h:01098
- Items listed otherwise than by author**

- Bibliography:**
- Kantorovich, L. V. see Kantorovich, L. V., 91h:01098
- Biography:**
- Kantorovich, L. V. see Kantorovich, L. V., 91h:01098

90A05 Decision theory [see also 62Cxx, 90B50, 90D35]

- Anand, Paul** Interpreting axiomatic (decision) theory. 91g:90003
- Barthélemy, Jean-Pierre** (with Mullet, E.) Choice basis, a model for multi-attribute preference: some more evidence. 91a:90007
- Black, J. M.** (with Bulkey, George) A ratio criterion for signing the effects of an increase in uncertainty. 91a:90008

- Bogdanichuk, V. Z. *see* Katslev, A. N.; et al., (91k:93005)
- Borisov, A. N. (with Slyadzh, N. N.) Fuzzy domination of decisions under conditions of incomplete information. 91b:90005
- Bulkley, George *see* Black, J. M., 91a:90008
- Bullard, James Rethinking rational expectations. (see 91a:90015) (Not in MR)
- Caputo, Michael R. Comparative dynamics via envelope methods in variational calculus. 91k:90013
- Chang, Yih-Long (with Sueyoshi, Toshiyuki) An interactive application of data envelopment analysis in microcomputers. (Not in MR)
- (Cohen, Michael A.) *see* Marley, A. A. J., 91f:90009
- Collins, E. J. *see* McNamara, J. M., 91f:90005
- Croqala, E. Multi-criteria decision making by means of fuzzy and probabilistic sets. (Not in MR)
- Dow, James Search decisions with limited memory. (Not in MR)
- (Falmagne, Jean-Claude) *see* Marley, A. A. J., 91f:90009
- Fershtman, Chaim Fixed rules and decision rules. Time consistency and subgame perfection. 91a:90009
- Fishburn, Peter C. Skew symmetric additive utility with finite states. 91d:90002
- (von Forstenberg, George M.) *see* Acting under uncertainty: multidisciplinary conceptions, 91a:90015
- Gehrlein, William V. The expected likelihood of transitivity for a probabilistic chooser. 91g:90004
- Grochow, W. Variantenbewertungsverfahren und Intervallmathematik. [Procedures for the evaluation of variants and interval mathematics] (Not in MR)
- Gu, Ji Fa (with Li, Feng Zhang) Decision making under uncertainty with partial information. (Chinese. English summary) (Not in MR)
- Hazen, Gordon B. Ambiguity aversion and ambiguity content in decision making under uncertainty. 91a:90010
- Jammernege, Werner (with Kischka, Peter) Information processing in dynamic decision models. An insurance demand example. (Not in MR)
- Katslev, A. N. (with Mikhno, V. N.; Bogdanichuk, V. Z.) Self-organization of models for aggregating criteria in decision-making problems. (Russian) (see 91k:93005)
- Keller, L. Robin The role of generalized utility theories in descriptive, prescriptive, and normative decision analysis. 91b:90006
- Kharchenko, N. P. *see* Shevchenko, A. K., 91b:90008
- Kim, Woncheol *see* Oh, Sang-Bong; et al., 91a:90011
- Kischka, Peter *see* Jammernege, Werner, (Not in MR)
- Krzyzstofowicz, Roman (with Long, Dou) To protect or not to protect: Bayes decisions with forecasts. 91g:90005
- Target-setting problem with exponential utility. 91c:90001
- Lee, Jae Kyu *see* Oh, Sang-Bong; et al., 91a:90011
- Li, Feng Zhang *see* Gu, Ji Fa, (Not in MR)
- Litvak, B. G. The resolving power of choice principles in expert estimations. (Not in MR)
- Long, Dou *see* Krzyzstofowicz, Roman, 91g:90005
- Loomes, Graham (with Starmer, Chris; Sugden, Robert) Observing violations of transitivity by experimental methods. (Not in MR)
- Marley, A. A. J. A historical and contemporary perspective on random scale representations of choice probabilities and reaction times in the context of Michael Cohen and Jean-Claude Falmagne's results. A comment on: "Random utility representation of binary choice probabilities: a new class of necessary conditions" [J. Math. Psych. 34 (1990), no. 1, 88-94; MR 91c:90003] by Cohen and Falmagne. 91f:90009
- Maxwell, Christopher Decision weights and the normal form axiom. 91b:90007
- McNamara, J. M. (with Collins, E. J.) The job search problem as an employer-candidate game. 91f:90005
- Meyer, Margaret A. Learning from coarse information: biased contests and career profiles. 91k:90014
- Mikhno, V. N. *see* Katslev, A. N.; et al., (91k:93005)
- Moore, James C. (with Richmond, William B.; Whinston, Andrew B.) Optimal decision processes and algorithms. 91f:90010
- Marrell, Darryl R. *see* Stirling, Wynn C., (Not in MR)
- Mullet, E. *see* Barthélémy, Jean-Pierre, 91a:90007
- Nau, Robert F. Decision analysis with indeterminate or incoherent probabilities. 91d:90003
- Najiri, Hideoyuki Dynamic team decision problems with ultrafuzzy information structures. 91c:90003
- Oh, Sang-Bong (with Kim, Woncheol; Lee, Jae Kyu) An approach to causal modeling in fuzzy environment and its application. 91a:90011
- (Oliver, R. M.) *see* Influence diagrams, belief nets and decision analysis, 91f:90007
- Petersen, Ivar Theory of multidecisions. (Russian and Estonian summaries) 91k:90015
- Pirint, Marc Minimal representation of a semiorder. 91f:90011
- Posner, M. J. M. (with Zuckerman, Dror) Optimal R & D programs in a random environment. 91j:90001
- Puppe, Clemens Preference functionals with prize-dependent distortion of probabilities. 91c:90004
- Rapoport, Amnon *see* Experimental studies of interactive decisions, 91i:90006
- Rapoport, Anatol *see* Decision theory and decision behaviour, 91a:90012
- Ray, B. (with Singh, D.) Assigning weights to qualitative criteria—a fuzzy set-theoretic approach. (Not in MR)
- Rendell, Larry A. Induction as optimization. 91a:90013
- Richards, Diana Is strategic decision making chaotic? (Not in MR)
- Richmond, William B. *see* Moore, James C.; et al., 91f:90010
- Samet, Dov Ignoring ignorance and agreeing to disagree. 91m:90006
- Schervish, Mark J. *see* Seidenfeld, Teddy, 91c:90002
- Segal, Uri Anticipated utility: a measure representation approach. 91a:90014
- Seidenfeld, Teddy (with Schervish, Mark J.) Two perspectives on consensus for (Bayesian) inference and decisions. 91c:90002
- Sengupta, Jati K. Robust decisions in economic models. 91k:90016
- Shechter, M. (with Zeidner, M.) Anxiety towards a decision-theoretic perspective. (Not in MR)
- Shevchenko, A. K. (with Kharchenko, N. P.) A method for making an optimal decision from a set of alternatives. (Russian) 91b:90008
- Singh, D. *see* Ray, B., (Not in MR)
- Sinn, Hans-Werner *see* Economic decisions under uncertainty, 91k:90017
- Slyadzh, N. N. *see* Borisov, A. N., 91b:90005
- (Smith, J. Q.) *see* Influence diagrams, belief nets and decision analysis, 91f:90007
- Starmer, Chris *see* Loomes, Graham; et al., (Not in MR)
- Stirling, Wynn C. (with Morrell, Darryl R.) Convex Bayes decision theory. (Not in MR)
- Sueyoshi, Toshiyuki *see* Chang, Yih-Long, (Not in MR)
- Sugden, Robert *see* Loomes, Graham; et al., (Not in MR)
- Veendorp, E. C. H. Entry deterrence, divisionalization, and investment decisions. (Not in MR)
- Vidal, Christian (with Yehia-Alcoutlabi, A.) Méthode d'aide à la décision sur des évaluations multicritères par plusieurs juges. (English summary) [Aid in decision-making applied to multicriterion evaluations by several judges] (Not in MR)
- Wang, Pei Zhuang (with Zhang, Dazhi; Yau, Kwok-Chi; Zhang, Hong Min) Degree analysis and its application in decision making. (see 91m:90008)
- Whinston, Andrew B. *see* Moore, James C.; et al., 91f:90010
- Winkler, Gernot M. R. Necessity, chance, and freedom. (see 91a:90015)
- Yau, Kwok-Chi *see* Wang, Pei Zhuang; et al., (91m:90008)
- Yehia-Alcoutlabi, A. *see* Vidal, Christian, (Not in MR)
- Zeidner, M. *see* Shechter, M., (Not in MR)
- Zhang, Dazhi *see* Wang, Pei Zhuang; et al., (91m:90008)
- Zhang, Hong Min *see* Wang, Pei Zhuang; et al., (91m:90008)
- Zuckerman, Dror *see* Posner, M. J. M., 91j:90001
- Items listed otherwise than by author
- Acting under uncertainty: multidisciplinary conceptions *see* Acting under uncertainty: multidisciplinary conceptions, 91a:90015
- Berkeley, CA *see* Influence diagrams, belief nets and decision analysis, 91f:90007
- Conference:
- Influence Diagrams for Decision Analysis, Inference and Prediction *see* Influence diagrams, belief nets and decision analysis, 91f:90007
- Influence diagrams, belief nets and decision analysis *see* Influence diagrams, belief nets and decision analysis, 91f:90007
- Items with secondary classifications in 90A05
- Acsel, János (with Roberts, Fred S.) On the possible merging functions. 91d:90005
- Alzerman, M. A. (with Litvak, B. M.) Pseudocriteria and pseudocriterial choice. 91a:90024
- Alekseev, A. V. *see* Borisov, A. N.; et al., 91f:90001
- Allais, Maurice Les lignes directrices de mon œuvre. [The main outlines of my work] 91c:01024
- *see also* Grandmont, Jean-Michel, 91c:01023
- Arapostathis, Aristotle *see* Fernández-Gaucherand, Emmanuel; et al., 91i:90079
- Barrett, C. R. (with Pattanaik, Prasanta K.; Salles, M.) On choosing rationally when preferences are fuzzy. 91c:90005
- Bazar, Tamer Time consistency and robustness of equilibria in noncooperative dynamic games. 91f:90169
- Blair, Douglas H. (with McLean, Richard P.) Subjective evaluations of n -person games. 91c:90130
- Blisshun, A. F. Comparative analysis of methods of measuring fuzziness. (Not in MR)
- Borisov, A. N. (with Alekseev, A. V.; Merkur'yeva, Galina V.; Slyadzh, N. N.; Glushkov, V. I.) *see* Обработка нечеткой информации в системах принятия решений. (Russian) [Processing fuzzy information in decision-making systems] 91f:90001
- Bradbury, Hinton (with Ross, Karen) The effects of novelty and choice materials on the intransitivity of preferences of children and adults. (Not in MR)
- Caravani, Paolo (with Papavasiliopoulos, George) A class of risk-sensitive noncooperative games. 91k:90135
- Cardin, Marta Stochastic dominance with risk aversion. (Italian. English summary) 91f:90030
- Castellan, N. John, Jr. (with Sawyer, Teresa A.) Multiattribute decision models: task order and group effects. (see 91a:90015)
- Chen, Ting *see* Zhou, Ze Kun, 91a:90100
- Chnaoui, Rolando (with Malitz, Jerome) The geometry of legal principles. 91m:90045
- Dellaert, N. P. (with Frenk, J. B. G.; Kouwenhoven, A.; van der Laan, B. S.) Optimal claim behaviour for third-party liability insurers or To claim or not to claim: that is the question. (Not in MR)
- Ehrenfeucht, Andrzej (with Haussler, David) Learning decision trees from random examples. 91a:68222
- Fernández-Gaucherand, Emmanuel (with Arapostathis, Aristotle; Marcus, Steven I.) Remarks on the existence of solutions to the average cost optimality equation in Markov decision processes. 91f:90079
- Fishburn, Peter C. Generalizations of expected utility theories: a survey of recent proposals. 91b:90066
- Fraser, Niall M. (with Wang, Muhong; Hipel, Keith W.) Hypergame theory in two-person conflicts with application to the Cuban missile crisis. 91h:90129
- Frenk, J. B. G. *see* Dellaert, N. P.; et al., (Not in MR)
- Gilboa, Itzhak Duality in nonadditive expected utility theory. 91c:60007
- Glushkov, V. I. *see* Borisov, A. N.; et al., 91f:90001
- Grandmont, Jean-Michel Rapport sur les travaux scientifiques de Maurice Allais. [Report on the scientific works of Maurice Allais] 91c:01023
- Haussler, David *see* Ehrenfeucht, Andrzej, 91a:68222
- Hipel, Keith W. *see* Fraser, Niall M.; et al., 91h:90129
- Jain, Neelam Transitivity of fuzzy relations and rational choice. 91k:90080
- Jansen, Peter J. (with Wiri, Franz) Public decisions under multiple objectives. (see 91f:90004)
- Kadane, Joseph B. (with Seidenfeld, Teddy) Randomization in a Bayesian perspective. (Not in MR)
- Kouwenhoven, A. *see* Dellaert, N. P.; et al., (Not in MR)
- van der Laan, B. S. *see* Dellaert, N. P.; et al., (Not in MR)
- Li, Hong Xing Multifactorial functions in fuzzy sets theory. 91b:04009

- Lin, Jing¹ *see* Zhang, Shi Ying. (Not in MR)
- Lipfert, Wilfried Über ein stochastisches Entscheidungsmodell mit allgemeinen vektorwertigen Ertragsfunktionalen. [On a stochastic decision model with general vector-valued reward functionals] 91h:90124
- Litvakov, B. M. *see* Aizerman, M. A., 91a:90024
- Loomes, Graham Preference reversal: explanations, evidence and implications. (Not in MR)
- Malitz, Jerome *see* Chuang, Rolando, 91m:90045
- Marcus, Steven I. *see* Fernández-Gauchard, Emmanuel; et al., 91i:90079
- McLean, Richard P. *see* Blair, Douglas H., 91c:90130
- Merkuryeva, Galina V. *see* Borisov, A. N.; et al., 91i:90001
- Molinari, Franco On multivariate stochastic dominance. (Italian. English summary) 91a:90036
- Namatame, Akira Dynamic adaptive competitive systems. (Not in MR)
- Novák, Vilém ★ Fuzzy sets and their applications. 91a:04007
- Olson, Lars J. Multivariate decision-making under risk aversion. 91a:90021
- Papavasiliopoulos, George *see* Caravani, Paolo, 91h:90135
- Pattanaik, Prasanta K. *see* Barrett, C. R.; et al., 91c:90005
- Pavlov, Yu. P. A recurrence algorithm for constructing a value function. (Russian) 91h:90034
- Quiggin, John Sure things—dominance and independence rules for choice under uncertainty. 91h:90035
- Roberts, Fred S. *see* Aczél, János, 91d:90005
- Rose, John S. Optimal selection with holding. 91c:90055
- Ross, Karen *see* Bradbury, Hinton, (Not in MR)
- Roy, Bernard Decision-aid and decision-making. 91c:90058
- Salles, M. *see* Barrett, C. R.; et al., 91c:90005
- Sawyer, Teresa A. *see* Castellan, N. John, Jr., (91a:90015)
- Seidenfeld, Teddy *see* Kadane, Joseph B., (Not in MR)
- Slyaz, N. N. *see* Borisov, A. N.; et al., 91i:90001
- Wang, Muhoeng *see* Fraser, Niall M.; et al., 91h:90129
- Wirtl, Franz *see* Jansen, Peter J., (91f:90004)
- Yudin, D. B. ★ Вычислительные методы теории принятия решений. (Russian) [Numerical methods in the theory of decision-making] 91g:90001
- Zhang, Shi Ying (with Lin, Jing²) Fuzzy hierarchical decisions. (Chinese. English summary) (Not in MR)
- Zhou, Ze Kun (with Chen, Ting) A method for estimating the largest average productivity scale with multi-outputs. (Chinese. English summary) 91a:90100

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Allais, Maurice *see* Allais, Maurice, 91c:01024

90A06 Individual preferences

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- Alarie, Yves (with Bronsard, Camille; Ouellette, Pierre) Preferences and normal goods: a necessary and sufficient condition. (Not in MR)
- d'Aspremont, Claude (with Cr  mer, Jacques; G  rard-Varet, Louis-Andr  ) Incentives and the existence of Pareto-optimal revelation mechanisms. 91g:90006
- (Baigent, N.) *see* Le Breton, M., 91b:90012
- Bandyopadhyay, Taradas Revealed preference and the axiomatic foundations of intransitive indifference: the case of asymmetric subrelations. 91i:90009
- Barrett, C. R. (with Pattanaik, Prasanta K.; Salles, M.) On choosing rationally when preferences are fuzzy. 91c:90005
- Bartnick, J  rgen An A* algorithm for the aggregation of preference relations. 91h:90006
- Bezeminder, Th. (with Bossuyt, P.) Strong stochastic transitivity in a multidimensional probabilistic unfolding model. 91b:90009
- Borzenko, V. I. (with Sarychev, A. V.; Shubina, M. V.) Modeling preferences and finding compromise solutions for two decision makers with different vector criteria. (Russian) 91b:90010
- Bossert, Walter On the extension of preferences over a set to the power set: an axiomatic characterization of a quasi-ordering. 91f:90012
- Bossuyt, P. *see* Bezeminder, Th., 91b:90009
- Bronsard, Camille *see* Alarie, Yves; et al., (Not in MR)
- Cass, David (with Polemarchakis, H. M.) Convexity and sunspots: a remark. (Not in MR)
- Chew, Soo Hong (with Epstein, Larry G.) Unexpected utility preferences in a temporal framework with an application to consumption-savings behaviour. 91h:90011
- Cohen, Michael A. (with Falmagne, Jean-Claude) Random utility representation of binary choice probabilities: a new class of necessary conditions. 91c:90003
- Cowen, T. Distribution in fixed and variable number problems. (Not in MR)
- Cr  mer, Jacques *see* d'Aspremont, Claude; et al., 91g:90006
- Dress, Andreas W. M. (with Havel, T. F.) Criteria for the global consistency of two-threshold preference relations in terms of forbidden subconfigurations. 91f:90013
- Einy, Ezra On preference relations which satisfy weak independence property. 91a:90016
- Elsner, Ludwig (with Mehrmann, V.) Priority vectors for matrices of pairwise comparisons. (see 91f:90004)
- Epstein, Larry G. *see* Chew, Soo Hong, 91b:90011
- Falmagne, Jean-Claude *see* Cohen, Michael A., 91c:90003 and Fishburn, Peter C., 91f:90014
- Fang, Liping *see* Kilgour, D. Marc; et al., 91h:90007
- Farquhar, Peter H. (with Keller, L. Robin) Preference intensity measurement. 91a:90017
- Fishburn, Peter C. Human decision making and ordered sets. 91c:90004
- (with Falmagne, Jean-Claude) Binary choice probabilities and rankings. 91f:90014
- Continuous nontransitive additive conjoint measurement. 91j:90002
- Unique nontransitive measurement on finite sets. 91c:90005
- Fuchs-Seliger, Susanne Compensated and direct demand without transitive and complete preferences. 91g:90007
- van Gastel, M. A. J. J. (with Paelinck, J. H. P.) Hypergraph conflict analysis. (Not in MR)
- G  rard-Varet, Louis-Andr   *see* d'Aspremont, Claude; et al., 91g:90006

- Glicksman, D. Auswahl von besten Varianten im Komplexbewertungsvergleich. [Selection of best variants in the comparison of complex evaluations] (Not in MR)
- Gvozdek, A. A. The choice of best objects on the basis of finding compatible information about preferences. 91j:90003
- Ordering of objects based on extracting compatible information about preferences. (Not in MR)
- Havel, T. F. *see* Dress, Andreas W. M., 91f:90013
- Hipel, Keith W. *see* Kilgour, D. Marc; et al., 91h:90007
- (Huang, Peter H.) *see* Le Breton, M., 91b:90012
- Indelli, P. The latent choice. When it is worth postponing the decision. 91a:90018
- Jech, Thomas A quantitative theory of preferences: some results on transition functions. 91c:90006
- Karni, Edi (with Safra, Zvi) Ascending bid auctions with behaviorally consistent bidders. 91a:90019
- Keller, L. Robin *see* Farquhar, Peter H., 91a:90017
- Kilgour, D. Marc (with Fang, Liping; Hipel, Keith W.) General preference structures in the graph model for conflicts. 91h:90007
- Kumar, Uma A one parameter entropy model for brand purchase behaviour. 91a:90020
- Le Breton, M. (with Uriarte, Jose Ramon) On the robustness of the impossibility result in the topological approach to social choice. 91h:90012
- Levchenkov, V. S. Entropy analysis of majority rule. 91h:90008
- Loomes, Graham Preference reversal: explanations, evidence and implications. (Not in MR)
- Lundberg, Shelly J. The enforcement of equal opportunity laws under imperfect information: affirmative action and alternatives. (Not in MR)
- Makeev, S. P. *see* Zhukovin, V. E.; et al., 91b:90014
- Manelli, Alejandro M. Monotonic preferences and core equivalence. 91m:90007
- Mehrmann, V. *see* Elsner, Ludwig, (91f:90004)
- (Motiwala, J.) *see* Expert systems in economics, banking and management, 91m:90008
- Nieto, Jorge *see* Aizpurua, Jose Maria; et al., 91i:90008
- Olson, Lars J. Multivariate decision-making under risk aversion. 91a:90021
- Ouellette, Pierre *see* Alarie, Yves; et al., (Not in MR)
- Packard, Dennis J. A note on intransitive preferences over events and outcomes. (Not in MR)
- Paelinck, J. H. P. *see* van Gastel, M. A. J. J., (Not in MR)
- (Pao, Yoh-Han) *see* Expert systems in economics, banking and management, 91m:90008
- Pattanaik, Prasanta K. *see* Barrett, C. R.; et al., 91c:90005
- (Pau, L.-F.) *see* Expert systems in economics, banking and management, 91m:90008
- Perevozchikov, A. G. Methods for estimating complex engineering systems whose quality is given by a preference relation. (Russian. English summary) 91g:90008
- Polemarchakis, H. M. *see* Cass, David, (Not in MR)
- Ponsard, Claude Some dissenting views on the transitivity of individual preference. 91d:90004
- Quiggin, John Stochastic dominance in regret theory. 91c:90007
- Rubinstein, Ariel (with Wolinsky, Asher) On the logic of "agreeing to disagree" type results. 91h:90009
- Rustem, Bere (with Velupillai, Kumaraswamy) Rationality, computability, and complexity. 91i:90015
- Rymarek, V. I. A method for searching for the most preferred element in the nondifferentiable case. (Russian) 91h:90013
- Safra, Zvi *see* Karni, Edi, 91a:90019
- Salles, M. *see* Barrett, C. R.; et al., 91c:90005
- Sarychev, A. V. *see* Borzenko, V. I.; et al., 91b:90010
- Shakhnov, I. F. *see* Zhukovin, V. E.; et al., 91b:90014
- Shubina, M. V. *see* Borzenko, V. I.; et al., 91b:90010
- (Teh, H. H.) *see* Expert systems in economics, banking and management, 91m:90008
- Trockel, Walter Classification of budget-invariant monotonic preferences. 91g:90009
- Uriarte, Jose Ramon *see* Le Breton, M., 91b:90012 and Aizpurua, Jose Maria; et al., 91i:90008
- Van Acker, P. Transitivity revisited. (Not in MR)
- Velupillai, Kumaraswamy *see* Rustem, Bere, 91f:90015
- Vlad, Karl Independent preferences. 91f:90016
- Wolinsky, Asher *see* Rubinstein, Ariel, 91h:90009
- Xu, Yongsheng The Libertarian paradox: some further observations. (Not in MR)
- Zhukovin, V. E. (with Makeev, S. P.; Shakhnov, I. F.) Potential fuzzy relations and their use in object ordering problems. 91b:90014

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Expert systems in economics, banking and management ★ Expert systems in economics, banking and management. 91m:90008

Singapore ★ Expert systems in economics, banking and management. 91m:90008

Workshop:

Artificial Intelligence in Economics and Management ★ Expert systems in economics, banking and management. 91m:90008

Items with secondary classifications in 90A06

- Allprant, Charalambos D. (with Burkinshaw, Owen) An overlapping generations model core equivalence theorem. 91c:90016
- Burkinshaw, Owen *see* Allprant, Charalambos D., 91c:90016
- Cardin, Marta Stochastic dominance with risk aversion. (Italian. English summary) 91h:90030
- Chien, I. S. (with Yu, P. L.; Zhang, Dazhi) Indefinite preference structures and decision analysis. 91c:90009
- Clark, Stephen A. A concept of stochastic transitivity for the random utility model. 91h:90031
- (Cohen, Michael A.) *see* Marley, A. A. J., 91f:90009
- Falmagne, Jean-Claude *see* Marley, A. A. J., 91f:90009
- Feld, Scott L. (with Grofman, Bernard) Voting in one's head as a source of nearly transitive individual preferences over multi-dimensional issues. 91j:90015
- Fishburn, Peter C. *see* Gehriela, William V., 91g:06004a

Fuchs-Seliger, Susanne Measuring in economics by money-metric utility functions.

91m:90019

Gehrlein, William V. (with Fishburn, Peter C.) Linear extension majority cycles for small ($n \leq 9$) partial orders. 91g:06004a

Gekker, Ruvim On the meta-strategic inconsistency of a Paretian liberal. 91m:90013

Grofman, Bernard see Feld, Scott L., 91j:90015

Harrington, Joseph E., Jr. The advantageous nature of risk aversion in a three-player bargaining game where acceptance of a proposal requires a simple majority. 91c:90132

Harvey, Lawrence (with Roberts, Fred S.) On the theory of meaningfulness of ordinal comparisons in measurement. II. 91d:92007

Jain, Neelam Transitivity of fuzzy relations and rational choice. 91k:90080

Klavžar, Sandi The Scott-Suppes theorem. (Slovenian. English summary) 91c:90013

Koch, Karl-Josef Mean demand when consumers satisfy the weak axiom of revealed preference. 91b:90065

Lavalle, Irving H. On neutrality of preferences on acts with respect to use of proxy outcomes. 91i:90011

Lehrer, Ehud On a representation of a relation by a measure. 91c:90004

Makeev, S. P. Approximation of fuzzy relationships by fuzzy invertible quaseries. 91k:90222

Marley, A. A. J. A historical and contemporary perspective on random scale representations of choice probabilities and reaction times in the context of Michael Cohen and Jean-Claude Falmagne's results. A comment on: "Random utility representation of binary choice probabilities: a new class of necessary conditions" [J. Math. Psych. 34 (1990), no. 1, 88-94; MR 91c:90003] by Cohen and Falmagne. 91f:90009

Mehta, Ghanshyam Maximal elements of condensing preference maps. 91b:47129

Monjardet, Bernard Sur diverses formes de la "règle de Condorcet" d'agrégation des préférences. (English summary) [On several forms of the "Condorcet rule" of aggregation of preferences] 91j:90007

Nakamura, Kazuo Canonical fuzzy numbers of dimension two and fuzzy utility difference for understanding preferential judgments. 91c:90009

Quiggin, John Sure things—dominance and independence rules for choice under uncertainty. 91b:90035

Roberts, Fred S. see Harvey, Lawrence, 91d:92007

Sobel, Joel (with Stole, Lars; Zapater, Iñigo) Fixed-equilibrium rationalizability in signaling games. 91k:90254

Sterna-Karwat, Alicia On a structure of preorder relations on a topological space. 91c:54085

Stole, Lars see Sobel, Joel; et al., 91k:90254

Yu, P. L. see Chien, I. S.; et al., 91c:90009

Zapater, Iñigo see Sobel, Joel; et al., 91k:90254

Zhang, Daxi see Chien, I. S.; et al., 91c:90009

90A07 Group preferences

Aczél, János (with Roberts, Fred S.) On the possible merging functions. 91d:90005

Anglin, Paul M. Disjoint search for the prices of two goods consumed jointly. (Not in MR)

Barthélemy, Jean-Pierre Intransitivities of preferences, lexicographic shifts and the transitive dimension of oriented graphs. 91g:90010

Boyle, Phelim P. Valuation of derivative securities involving several assets using discrete time methods. (Not in MR)

Bridges, Douglas S. Preference, indifference, and Markov's principle. 91k:90018

Chlapport, Pierre-André La fonction de demande de biens collectifs: théorie et application. (English summary) [Demand function for collective goods: theory and application] 91j:90004

Chichilnisky, Graciela General equilibrium and social choice in economies with increasing returns. 91g:90011

Diamantaras, Dimitrios (with Thomson, William L.) A refinement and extension of the no-envy concept. 91f:90017

Doi, Atsuko (with Sakaguchi, Minoru) An entropy model of brand selection behavior: ordered choice of two brands. 91g:90012

Fedrizzi, Mario see Kacprzyk, Janusz, 91a:90023

(Feldman, Mark) see Kiefer, Nicholas M., 91b:90015

Fishburn, Peter C. see Gehrlein, William V., 91g:90013

Fisher, Franklin M. Games economists play: a noncooperative view. 91a:90022

Gehrlein, William V. (with Fishburn, Peter C.) Linear extension majority cycles on partial orders. 91g:90013

Ingherman, Daniel E. Reputational dynamics in spatial competition. 91g:90014

Johnson, Scott (with Pratt, John W.; Zeckhauser, Richard J.) Efficiency despite mutually payoff-relevant private information: the finite case. 91c:90008

Kacprzyk, Janusz (with Fedrizzi, Mario) A "human-consistent" degree of consensus based on fuzzy logic with linguistic quantifiers. 91a:90023

Kiefer, Nicholas M. Optimal collection of information by partially informed agents. 91b:90015

Kochler, D. H. The size of the yolk: computations for odd- and even-numbered committees. 91c:90006

Labiri, Somdeb Threat bargaining games with a variable population. 91c:90007

Moulin, Hervé Fair division under joint ownership: recent results and open problems. 91b:90016

Piotunowicz, Adam (with Wiecek, Andrzej) A note on the "surjectivity property". 91g:90015

Pratt, John W. see Johnson, Scott; et al., 91c:90008

Roberts, Fred S. see Aczél, János, 91d:90005

Rothstein, P. Order restricted preferences and majority rule. (Not in MR)

(Rust, John) see Kiefer, Nicholas M., 91b:90015

Sakaguchi, Minoru see Doi, Atsuko, 91g:90012

Segerstrom, P. S. Moral efficiency. A new criterion for social choice. 91g:90016

Tangyan, A. S. A collective representation model under conditions of democracy. (Russian) 91g:90017

— A mathematical model for collective representation. (Not in MR)

— A model of a council as a collective representative. (Not in MR)

Thomson, William L. see Diamantaras, Dimitrios, 91f:90017

Wiecek, Andrzej see Piotunowicz, Adam, 91g:90015

Zeckhauser, Richard J. see Johnson, Scott; et al., 91c:90008

Items with secondary classifications in 90A07

Billot, Antoine Aggregation of preferences: the fuzzy case. 91m:90009

Felsenthal, Dan S. see Rapoport, Amnon; et al., 91b:90221

Gekker, Ruvim On the meta-strategic inconsistency of a Paretian liberal. 91m:90013

Kumar, Uma A one parameter entropy model for brand purchase behaviour. 91a:90020

Rapoport, Amnon (with Weg, Eytan; Felsenthal, Dan S.) Effects of fixed costs in two-person sequential bargaining. 91b:90221

Saari, Donald G. Consistency of decision processes. 91d:90023

Shaninin, A. A. On the aggregation of demand functions. (Russian) 91b:90036

Weg, Eytan see Rapoport, Amnon; et al., 91b:90221

90A08 Social choice

Ahrens, Dillip (with Sen, Arunava) Subgame perfect implementation: a necessary and almost sufficient condition. 91c:90009

Aizerman, M. A. (with Litvakov, B. M.) Pseudocriteria and pseudocriterial choice. 91a:90024

Austen-Smith, D. Credible debate equilibria. (Not in MR)

Bandyopadhyay, Taradas Sequential path independence and social choice. 91c:90008

Barberá, S. (with Peleg, Bezalel) Strategy-proof voting schemes with continuous preferences. 91c:90010

Barthélemy, Jean-Pierre Social welfare and aggregation procedures: combinatorial and algorithmic aspects. 91b:90017

Bernardi, Claudio (with Menghini, Marta) Proportional electoral systems: the Italian "solution". (Italian. English summary) 91k:90019

Billot, Antoine Aggregation of preferences: the fuzzy case. 91m:90009

Blume, Lawrence (with Brandenburger, Adam; Dekel, Eddie) Lexicographic probabilities and choice under uncertainty. 91k:90020

Bordes, Georges (with Le Breton, M.) Arrowian theorems for economic domains:

assignments, matchings and pairings. 91d:90006

— (with Le Breton, M.) Arrowian theorems for economic domains. The case where there are simultaneously private and public goods. 91c:90011

Börgers, Tilman Undominated strategies and coordination in normalform games. 91a:90010

Bossert, Walter Social evaluation with variable population size: an alternative concept. 91a:90018

— Maximin welfare orderings with variable population size. 91b:90010

Brandenburger, Adam see Blume, Lawrence; et al., 91k:90020

Burguet Verde, Roberto Revelation in informational dynamic settings. (Not in MR)

Campbell, Donald E. Intergenerational social choice without the Pareto principle. 91c:90012

— Can equity be purchased at the expense of efficiency? An axiomatic inquiry. 91c:90013

Caplin, Andrew (with Nalebuff, Barry) Aggregation and social choice: a mean voter theorem. 91m:90011

Chakravarty, Satya R. On quasi-orderings of income profiles. (see 91f:90006)

Chameni-Nembua, C. Règle majoritaire et distributivité dans le permutoèdre. [Majority rule and distributivity in the "permutohedron"] 91f:90019

Chuev, N. V. see Naumov, G. E. (Not in MR) and (Not in MR)

Coulhon, Thierry (with Mongin, Philippe) Social choice theory in the case of von Neumann-Morgenstern utilities. 91a:90010

Dekel, Eddie see Blume, Lawrence; et al., 91k:90020

Denicolò, Vincenzo Intransitive social preference and the Arrow theorem. (Italian. English summary) 91c:90014

Detta, Bhaskar (with Sen, Arunava) A necessary and sufficient condition for two-person Nash implementation. 91m:90012

Fishburn, Peter C. see Lavalle, Irving H., 91g:90019

Gassner, Marjorie B. An impossibility theorem for fair bidimensional representation: towards a biproportional solution. 91a:90025

Gaughhofer, Margrit ★ Analyse der Sitzverteilungsverfahren bei Proportionalwahlen. (German) [Analysis of apportionment methods in proportional elections] 91b:90011

Gekker, Ruvim On the meta-strategic inconsistency of a Paretian liberal. 91m:90013

Gilboa, Itzhak (with Matsui, Akihiko) Social stability and equilibrium. (Not in MR)

Garvich, V. A. Some properties of influence functions. 91b:90018

Haddad, Lahli Condorcet et les ultrafiltres. [Condorcet and ultrafilters] 91b:90019

Hall, Maxwell see Kelly, Jerry S., 91g:90018

Hubaut, Xavier Thresholds and independence in proportional representation. 91a:90026

Iijima, Junichi see Takahara, Yasuhiko, 91m:90016

Johnson, Mark R. Information, associativity, and choice requirements. (Not in MR)

Jung, Joon Pyo Black and Farquharson on order-of-voting effects: an extension. 91m:90014

Kelly, Jerry S. A new informational base for social choice. 91a:90015

— (with Hall, Maxwell) Impossibility results with resoluteness. 91g:90018

Kim, Ki Hang (with Roush, Fred W.) Kelly's conjecture. 91c:90016

Kolpa, Van Core implementation via dynamic game forms. 91c:90017

Lavalle, Irving H. (with Fishburn, Peter C.) Transitivity in the small and in the large for states-additive SSB utilities. 91g:90019

— On neutrality of preferences on acts with respect to use of proxy outcomes. 91i:90011

Le Breton, M. see Bordes, Georges, 91d:90006 and 91c:90011

Li, Guo Jian Impossibility of multiperson assessment. (Chinese) 91a:90027

Litvakov, B. M. Pseudocriterial choice of variants. 91m:90015

— see also Aizerman, M. A., 91a:90024

Matsui, Akihiko see Gilboa, Itzhak, (Not in MR)

Matsushima, Hitoshi Dominant strategy mechanisms with mutually payoff-relevant private information and with public information. 91g:90020

McCall, Brian P. A dynamic model of occupational choice. 91j:90005

Menghini, Marta see Bernardi, Claudio, 91k:90019

(Mezzetti, C.) see Sosnowska, H., 91f:90020

Mongin, Philippe see Coulhon, Thierry, 91i:90010

Monjardet, Bernard Sur diverses formes de la "règle de Condorcet" d'agrégation des préférences. (English summary) [On several forms of the "Condorcet rule" of aggregation of preferences] 91j:90007

— Arrowian characterizations of latticial federation consensus functions. 91j:90006
Nagahisa, Ryo-ichi Rational performance and Gibbard's Pareto-consistent libertarian claim. 91k:90021

Nalebuff, Barry see Caplin, Andrew, 91m:90011

Naumov, G. E. (with Chuev, N. V.) Choice mechanisms of quasitournament type. I. (Not in MR)

— (with Chuev, N. V.) Choice mechanisms of quasi-tournament type. II. (Not in MR)

Paroush, Jacob Multi-choice problems and the essential order among decision rules. 91g:90021

Peleg, Bezalel see Barberá, S., 91e:90010

Petit, Jean-Luc (with Térouanne, Eric) A theory of proportional representation. 91b:90020

Roush, Fred W. see Kim, Ki Hang, 91e:90016

Schofield, Norman Smooth social choice. 91a:90028

Sen, Arunava see Abreu, Dilip, 91e:90009 and Dutta, Bhaskar, 91m:90012

Sosnowska, H. A note on C. Mezzetti's "Paretian efficiency, Rawlsian justice and the Nozick theory of rights" [Soc. Choice Welf. 4 (1987), no. 1, 25–37; MR 88h:90015]. 91f:90020

Storcken, Ton Choice correspondences based on individual choices. 91g:90022

— A possibility in aggregating social welfare. 91g:90023

— Intensities and social choice. 91g:90024

Świątalski, Zbigniew A note on fuzzy rational choice functions. 91e:90018

Takahara, Yasuhiko (with Iijima, Junichi) Rational decision principle and social choice function. 91m:90016

Tangyan, A. S. Interpretation of a dictator in the Arrow model as a representative of a collective. I. Existence of dictators-representatives. (Russian) 91b:90021

— Interpretation of a dictator in the Arrow model as a representative of a collective. II. Estimation of the representativeness of a dictator for independent participants. (Russian) 91b:90022

Térouanne, Eric see Petit, Jean-Luc, 91b:90020

Terzian, A. A. The problem of choice decomposition. 91j:90008

Wettstein, David Continuous implementation of constrained rational expectations equilibria. 91m:90017

Items with secondary classifications in 90A08

(Baigent, N.) see Le Breton, M., 91b:90012

Balinski, M. L. (with Demange, G.) An axiomatic approach to proportionality between matrices. 91b:15005

Berg, Sven (with Lepelley, Dominique) Voting cycles, plurality rule and strategic manipulation. 91h:90023

Bossert, Walter On the extension of preferences over a set to the power set: an axiomatic characterization of a quasi-ordering. 91f:90012

Bridges, Douglas S. Preference, indifference, and Markov's principle. 91k:90018

Curley, Shawn P. (with Yates, J. Frank) An empirical evaluation of descriptive models of ambiguity reactions in choice situations. 91h:92049

Demange, G. see Balinski, M. L., 91b:15005

Feld, Scott L. (with Grofman, Bernard; Miller, Nicholas R.) Limits on agenda control in spatial voting games. 91g:90046

Fishburn, Peter C. Unique nontransitive measurement on finite sets. 91e:90005

Greenberg, Joseph An application of the theory of social situations to repeated games. 91h:90137

Grofman, Bernard see Feld, Scott L.; et al., 91g:90046

(Huang, Peter H.) see Le Breton, M., 91b:90012

Kelly, Jerry S. Symmetry groups. (Not in MR)

Koons, Robert C. A representational account of mutual belief. 91b:03035

Labbé, Martine Location of an obnoxious facility on a network: a voting approach. 91a:90073

Le Breton, M. (with Uriarte, Jose Ramon) On the robustness of the impossibility result in the topological approach to social choice. 91b:90012

Leclerc, Bruno Medians and majorities in semimodular lattices. (French summary) 91a:06006

Lepelley, Dominique see Berg, Sven, 91h:90023

Levchenkov, V. S. Entropy analysis of majority rule. 91h:90008

Lewis, Alain A. On the independence of core-equivalence results from Zermelo-Fraenkel set theory. 91f:03135

Miller, Nicholas R. see Feld, Scott L.; et al., 91g:90046

Moulin, Hervé Joint ownership of a convex technology: comparison of three solutions. (Not in MR)

Prato, Domingo (with Tsallis, Constantino; Stanley, H. Eugene) Polychromatic majority model: criticality and real space renormalization group. 91a:82032

Resnick, Sidney I. (with Roy, Rishin) Multivariate extremal processes, leader processes and dynamic choice models. 91f:60138

— (with Roy, Rishin) Leader and maximum independence for a class of discrete choice models. 91k:62050

Roy, Rishin see Resnick, Sidney I., 91f:60138 and 91k:62050

Segerstrom, P. S. Moral efficiency. A new criterion for social choice. 91g:90016

Stanley, H. Eugene see Prato, Domingo; et al., 91a:82032

Tangyan, A. S. Optimal appointment of a dictator in the Arrow model. 91m:90044

Tsallis, Constantino see Prato, Domingo; et al., 91a:82032

Uriarte, Jose Ramon see Le Breton, M., 91b:90012

Vega-Redondo, Fernando Implementation of Lindahl equilibrium: an integration of the static and dynamic approaches. 91b:90049

Wagner, Carl G. Consensus for belief functions and related uncertainty measures. 91f:68195

Yates, J. Frank see Curley, Shawn P., 91h:92049

90A09 Finance, portfolios, investment

Back, Kerry (with Pliska, Stanley R.) On the fundamental theorem of asset pricing with an infinite state space. 91d:90007

Bajoux, Isabelle Gestion de portefeuille dans un modèle binomial. (English summary) [Portfolio selection in a binomial model] 91k:90022

Balasko, Yves (with Cass, David; Siconolfi, Paolo) The structure of financial equilibrium with exogenous yields. The case of restricted participation. 91e:90019

Barnett, William A. (with Chen, Ping) The aggregation-theoretic monetary aggregates are chaotic and have strange attractors: an econometric application of mathematical chaos. 91f:90021

Basu, Parantap A martingale theory of asset pricing in a production economy. (Not in MR)

Bellou, Bernard (with Freixas, Xavier) Refinancement, liquidation et rationnement du crédit: une approche bayésienne. (English summary) [Extending credit, liquidation and credit rationing: a Bayesian approach] 91e:90020

Bencivenga, Valerie R. (with Smith, Bruce D.) Financial intermediation and endogenous growth. (Not in MR)

Boulean, Nicolas (with Lamberton, Damien) Residual risks and hedging strategies in Markovian markets. 91b:90023

Braglia, Marcello On the variance of stock price distributions. (Not in MR)

Capon, Noel (with Steckel, Joel H.) Investing in the stock market: statistical pooling of individual preference judgments. (Not in MR)

Cass, David see Balasko, Yves; et al., 91e:90019

Castellani, Gilberto The pricing of options on bonds in a stochastic equilibrium model. (Italian. English summary) 91i:90012

Chamberlain, Gary Asset pricing in multiperiod securities markets. 91b:90024

Chen, Ping see Barnett, William A., 91f:90021

Cox, John C. (with Huang, Chi-fu) Optimal consumption and portfolio policies when asset prices follow a diffusion process. 91a:90029

DeMarzo, Peter M. (with Duffie, Darrell) Corporate financial hedging with proprietary information. (Not in MR)

Detemple, Jerome (with Selden, Larry) A general equilibrium analysis of option and stock market interactions. (Not in MR)

Duffie, Darrell (with Jackson, Matthew O.) Optimal hedging and equilibrium in a dynamic futures market. 91b:90025

— (with Sun, Tong-sheng) Transactions costs and portfolio choice in a discrete-continuous-time setting. 91c:90009

— (with Richardson, Henry R.) Mean-variance hedging in continuous time. (Not in MR)

— see also DeMarzo, Peter M., (Not in MR)

Eger, Thomas (with Kraft, Manfred; Weise, Peter) Patents, innovation, and imitation: a game-theoretic approach. 91f:90022

Elliott, Robert James (with Kopp, P. Ekkehard) Option pricing and hedge portfolios for Poisson processes. 91b:90026

Fabella, Raul V. Induced global risk preference. 91a:90030

Freixas, Xavier see Bellou, Bernard, 91e:90020

Gutiérrez, J. M. An axiomatic approach to inflation accounting. (Not in MR)

Hadad, Josef (with Seo, Tae Kun) The effects of shifts in a return distribution on optimal portfolios. 91d:90008

Hornáček, Milan Excess demand, price inflexibility and the diffusion of new products. (Slovak summary) (Not in MR)

Huang, Chi-fu see Cox, John C., 91a:90029

Jackson, Matthew O. see Duffie, Darrell, 91b:90025

Kischka, Peter New aspects of risk aversion: some applications in portfolio theory. (Italian summary) (Not in MR)

Kopp, P. Ekkehard see Elliott, Robert James, 91b:90026

Kraft, Manfred see Eger, Thomas; et al., 91f:90022

Kriens, J. On the differentiability of the set of efficient (μ, σ^2) combinations in the Markowitz portfolio selection method. 91e:90021

Lakner, Peter Optimal consumption and investment on a finite horizon with stochastic commodity prices. 91a:90031

Lamberton, Damien see Boulean, Nicolas, 91b:90023

Li Calzi, Marco Towards a general setting for the fuzzy mathematics of finance. 91e:90022

Lucas, Robert E., Jr. Liquidity and interest rates. (Not in MR)

Luciano, Elisa On the dynamics of the allocation of wealth. (Italian. English summary) 91f:90023

— Bankruptcy risk, insurance and asset-trading. (Italian. English summary) (Not in MR)

— A new perspective on dynamic portfolio policies. 91k:90023

Magill, Michael J. P. (with Shafer, Wayne J.) Characterisation of generically complete real asset structures. 91i:90013

Mandarin, Joseph V. The trader's problem. 91e:90010

Markowitz, Harry M. ★ Mean-variance analysis in portfolio choice and capital markets. 91k:90024

Miller, Sigrid M. On complete securities markets and the martingale property of securities prices. 91a:90032

Nielsen, Lars Tyge Existence of equilibrium in CAPM. 91g:90025

— Equilibrium in CAPM without a riskless asset. 91d:90009

Paxson, Christina Borrowing constraints and portfolio choice. (Not in MR)

Peck, James (with Shell, Karl) On the non-equivalence of the Arrow-securities game and the contingent-commodities game. 91b:90027

Pitchford, John Optimum responses of the current account when income is uncertain. (Not in MR)

Pliska, Stanley R. see Back, Kerry, 91d:90007

van der Ploeg, Carol E. An evolutionary alternative to rational expectations models of stock markets. (Italian summary) 91b:90028

Richardson, Henry R. see Duffie, Darrell, (Not in MR)

Selden, Larry see Detemple, Jerome, (Not in MR)

Sengupta, Jati K. Mixed strategy and information theory in optimal portfolio choice. 91m:90018

— Measuring portfolio efficiency: a critique. 91a:90033

Seo, Tae Kun see Hadad, Josef, 91d:90008

- Shaler, Wayne J. *see* Magill, Michael J. P., 91f:90013
- Sharp, Keith P. Stochastic differential equations in finance. 91f:90024
- Stochastic differential equations in finance. 91f:90014
- Shell, Karl *see* Peck, James, 91b:90027
- Shi, Shu Zhong Mathematical theory of hedging and arbitrage pricing. (Chinese) (Not in MR)
- Siconolfi, Paolo *see* Balasko, Yves; et al., 91c:90019
- Smith, Bruce D. *see* Bencivenga, Valerie R., (Not in MR)
- Steckel, Joel H. *see* Capon, Noel, (Not in MR)
- Sen, Tong-sheng *see* Duffie, Darrell, 91c:90009
- Thomas, Jonathan (with Worrall, Tim) Income fluctuation and asymmetric information: an example of a repeated principal-agent problem. (Not in MR)
- Vanderbei, Robert J. A martingale system theorem for stock investments. 91b:90025
- Vondout, Aggeliki On the distribution of the present value of a continuous uniform cash flow. (Not in MR)
- Wiese, Peter *see* Eger, Thomas; et al., 91f:90022
- Worrall, Tim *see* Thomas, Jonathan, (Not in MR)
- Items with secondary classifications in 90A09
- Admati, Anat R. (with Pfleiderer, Paul) Direct and indirect sale of information. 91d:90025
- Aven, Terje (with Myre, Hanne) A rating model for loss of profits insurance. 91a:62282
- Borell, Christer Analytic and empirical evidences of isoperimetric processes. 91m:60094
- Broecker, Thorsten Credit-worthiness tests and interbank competition. (Not in MR)
- Chou, M. Y. *see* Lin, E. B., 91a:90055
- Delbaen, Freddy (with Hazendoonck, Jean) A martingale approach to premium calculation principles in an arbitrage free market. 91c:62094
- Donaldson, John B. (with Johnsen, Thore; Mehra, Rajnish) On the term structure of interest rates. (Not in MR)
- Dothan, Michael U. ★ Prices in financial markets. 91k:90003
- Drèze, Jacques H. *see* Geanakoplos, John; et al., 91a:90043
- Duffie, Darrell (with Zame, William R.) The consumption-based capital asset pricing model. 91c:90015
- Geanakoplos, John (with Magill, Michael J. P.; Quinzii, Martine; Drèze, Jacques H.) Generic inefficiency of stock market equilibrium when markets are incomplete. 91a:90043
- An introduction to general equilibrium with incomplete asset markets. 91k:90033
- Hazendoonck, Jean *see* Delbaen, Freddy, 91c:62094
- Hussey, Robert *see* Tauchen, George, 91m:90025
- Ingher, Lester Statistical-mechanical aids to calculating term-structure models. 91m:82132
- Jeanblanc-Picqué, Monique (with Pontier, Monique) Optimal portfolio for a small investor in a market model with discontinuous prices. 91k:90050
- Jewell, William S. Credibility prediction of first and second moments in the hierarchical model. (French and German summaries) (Not in MR)
- Johnsen, Thore *see* Donaldson, John B.; et al., (Not in MR)
- Karatzas, Ioannis (with Lehoczky, John P.; Shreve, Steven E.) Existence and uniqueness of multi-agent equilibrium in a stochastic, dynamic consumption/investment model. 91c:90028
- Ketterer, Jean A. Approximation theorems for stochastic economies with incomplete markets. 91c:90036
- Kimball, Miles S. Precautionary saving in the small and in the large. (Not in MR)
- Lehoczky, John P. *see* Karatzas, Ioannis; et al., 91c:90028
- Lin, E. B. (with Chou, M. Y.) Optimal contracts. 91a:90055
- Mack, Thomas Improved estimation of IBNR claims by credibility theory. (Not in MR)
- Magill, Michael J. P. *see* Geanakoplos, John; et al., 91a:90043
- Mehra, Rajnish *see* Donaldson, John B.; et al., (Not in MR)
- Montesano, Aldo On the definition of risk aversion. (Not in MR)
- (Motiwala, J.) *see* Expert systems in economics, banking and management, 91m:90008
- Myre, Hanne *see* Aven, Terje, 91a:62282
- (Nørberg, Ragnar) *see* Aven, Terje, 91a:62282
- (Pao, Yoh-Han) *see* Expert systems in economics, banking and management, 91m:90008
- (Pao, L.-F.) *see* Expert systems in economics, banking and management, 91m:90008
- Pfleiderer, Paul *see* Admati, Anat R., 91d:90025
- Pontier, Monique *see* Jeanblanc-Picqué, Monique, 91k:90050
- Quinzii, Martine *see* Geanakoplos, John; et al., 91a:90043
- Santos, Manuel S. Existence of equilibria for monetary economies. 91j:90012
- Shreve, Steven E. *see* Karatzas, Ioannis; et al., 91c:90028
- Taqqu, Murad S. *see* Willinger, Walter, 91d:60127
- Tauchen, George (with Hussey, Robert) Quadrature-based methods for obtaining approximate solutions to nonlinear asset pricing models. 91m:90025
- (Teh, H. H.) *see* Expert systems in economics, banking and management, 91m:90008
- Thépot, Jacques Nash vs. Stackelberg strategies in a capital accumulation game. (see 91f:93002)
- Werner, Jan Structure of financial markets and real indeterminacy of equilibria. 91b:90050
- Willinger, Walter (with Taqqu, Murad S.) Pathwise stochastic integration and applications to the theory of continuous trading. 91d:60127
- Zame, William R. *see* Duffie, Darrell, 91c:90015
- Items listed otherwise than by author
- Expert systems in economics, banking and management ★ Expert systems in economics, banking and management. 91m:90008
- Singapore ★ Expert systems in economics, banking and management. 91m:90008
- Workshop:
- Artificial Intelligence in Economics and Management ★ Expert systems in economics, banking and management. 91m:90008
- 90A10 Utility theory
- Azeff, James Basics of functional equations arising from recent applications to economics and to other sciences. 91h:90012
- Anderson, Robert M. Core allocations are almost utility-maximal. 91k:90026
- Bossert, Walter (with Pfingsten, Andreas) Intermediate inequality: concepts, indices, and welfare implications. 91g:90026
- Boyd, John H., III Recursive utility and the Ramsey problem. 91b:90029
- Cardia, Marta Stochastic dominance with risk aversion. (Italian. English summary) 91b:90030
- Chatterjee, A. K. *see* Mustafa, C. K., 91b:90032
- Clark, Stephen A. A concept of stochastic transitivity for the random utility model. 91b:90031
- A folk meta-theorem in the foundations of utility theory. 91d:90010
- Denicolo, Vincenzo Quasi-linear utility functions and the dynamics of pure exchange overlapping generations models. (Not in MR)
- Diewert, W. Erwin (with Ostensio, Lawrence) Flexible functional forms for profit functions and global curvature conditions. 91g:90027
- Farguhar, Peter H. Applications of utility theory in artificial intelligence research. (see 91b:58014)
- Fishman, Arthur Stochastic dominance in multi sampling environments. 91j:90009
- Fuchs-Seliger, Susanne Measuring in economics by money-metric utility functions. 91m:90019
- Fudenberg, Drew (with Holmström, Bengt; Milgrom, Paul) Short-term contracts and long-term agency relationships. (Not in MR)
- von Furstenberg, George M. Neither gullible nor unteachable be: signal extraction and the optimal speed of learning from uncertain news. (see 91a:90015)
- Gärdenfors, Peter (with Pettit, Philip) The impossibility of a Paretian loyalist. 91a:90034
- Herden, G. On the existence of utility functions. 91c:90011
- On the existence of utility functions. II. 91c:90012
- Holmström, Bengt *see* Fudenberg, Drew; et al., (Not in MR)
- Hori, Hajime (with Kanaya, Sadao) Utility functionals with nonpaternalistic intergenerational altruism. 91a:90035
- Ivanilov, Yu. P. *see* Voronkova, O. V.; et al., 91m:90021
- Kanaya, Sadao *see* Hori, Hajime, 91a:90035
- Kimball, Miles S. Precautionary saving in the small and in the large. (Not in MR)
- Klarzar, Sandi The Scott-Suppes theorem. (Slovenian. English summary) 91c:90013
- Koldava, N. T. *see* Voronkova, O. V.; et al., 91m:90021
- Kolpa, Van How characteristic are characteristic functions? 91k:90027
- Landsberger, Michael (with Meilijson, Isaac) Lotteries, insurance, and star-shaped utility functions. (Not in MR)
- Lopes, Lola L. Re-modeling risk aversion: a comparison of Bernoullian and rank dependent value approaches. (see 91a:90015)
- Martinez-Legas, Juan-Enrique Duality between direct and indirect utility functions under minimal hypotheses. 91j:90010
- Matzkin, Rosa L. (with Richter, Marcel K.) Testing strictly concave rationality. 91m:90020
- Meilijson, Isaac *see* Landsberger, Michael, (Not in MR)
- Milgrom, Paul *see* Fudenberg, Drew; et al., (Not in MR)
- Molinari, Franco On multivariate stochastic dominance. (Italian. English summary) 91a:90036
- Montesano, Aldo On the definition of risk aversion. (Not in MR)
- Mustafa, C. K. (with Chatterjee, A. K.) Multi-attribute choice behaviour models—a note on two modifications and extensions. 91b:90032
- Myles, Gareth D. Vertical product differentiation can imply the Friedman-Savage utility function. (Not in MR)
- Nakamura, Yutaka Subjective expected utility with nonadditive probabilities on finite state spaces. 91g:90028
- Bilinear utility and a threshold structure for nontransitive preferences. 91b:90033
- Ostensio, Lawrence *see* Diewert, W. Erwin, 91g:90027
- Pacelli, Grazia A characterization of an index equivalent to current value. (Italian. English summary) 91g:90029
- Parlov, Yu. P. A recurrence algorithm for constructing a value function. (Russian) 91b:90034
- Pettit, Philip *see* Gärdenfors, Peter, 91a:90034
- Pfingsten, Andreas *see* Bossert, Walter, 91g:90026
- Quiggin, John Sure things—dominance and independence rules for choice under uncertainty. 91b:90035
- Richter, Marcel K. *see* Matzkin, Rosa L., 91m:90020
- Rietveld, Piet Multidimensional inequality comparisons: on aggravation and mitigation of inequalities. 91a:90037
- Russell, Thomas On "Maxwell's laws" of individual behaviour. 91c:90014
- Schlee, Edward E. The value of perfect information in nonlinear utility theory. (Not in MR)
- Shanania, A. A. On the aggregation of demand functions. (Russian) 91b:90036
- Sinclair-Desgagné, Bernard On the regulation of procurement bids. (Not in MR)
- Voronkova, O. V. (with Ivanilov, Yu. P.; Koldava, N. T.) ★ Некоторые вопросы теории и использования производственных функций. (Russian) [Some problems in the theory and use of production functions] 91m:90021
- Wakker, Peter Under stochastic dominance Choquet-expected utility and anticipated utility are identical. (Not in MR)
- Willassen, Yngve Best upper and lower Tchebycheff bounds on expected utility. 91f:90025
- Xu, Yongsheng Population evaluation functions: axiomatizations of two utilitarian principles. 91f:90026
- Items with secondary classifications in 90A10
- Bossert, Walter An axiomatization of the single-series Gini. 91c:90031
- Bridges, Douglas S. Order isomorphisms—a constructive measure-theoretic view. 91b:03145
- Chuaqui, Rolando (with Malitz, Jerome) The geometry of legal principles. 91m:90045
- Cohen, Michael A. (with Falmagne, Jean-Claude) Random utility representation of binary choice probabilities: a new class of necessary conditions. 91c:90003
- *see also* Marley, A. A. J., 91f:90009
- Dyer, James S. Remarks on the analytic hierarchy process. 91a:92023
- Elsy, Ezra On preference relations which satisfy weak independence property. 91a:90016
- Falmagne, Jean-Claude *see* Cohen, Michael A., 91c:90003 and Marley, A. A. J., 91f:90009

- Farquhar, Peter H. (with Keller, L. Robin) Preference intensity measurement. 91a:90017 (Feldman, Mark) *see* Kiefer, Nicholas M., 91b:90015
- Fishburn, Peter C. Human decision making and ordered sets. 91c:90004
- Generalizations of expected utility theories: a survey of recent proposals. 91b:90066
- Skew symmetric additive utility with finite states. 91d:90002
- Gilboa, Itzhak Duality in nonadditive expected utility theory. 91c:60007
- (Harker, Patrick T.) *see* Dyer, James S., 91a:92023
- Haasen, Gordon B. Ambiguity aversion and ambiguity content in decision making under uncertainty. 91a:90010
- Heyer, Dieter (with Niederée, Reinhard) Elements of a model-theoretic framework for probabilistic measurement. 91b:92046
- Karni, Edi (with Safra, Zvi) Ascending bid auctions with behaviorally consistent bidders. 91a:90019
- (with Safra, Zvi) Behaviorally consistent optimal stopping rules. 91b:62106
- Keller, L. Robin The role of generalized utility theories in descriptive, prescriptive, and normative decision analysis. 91b:90006
- *see also* Farquhar, Peter H., 91a:90017
- Kiefer, Nicholas M. Optimal collection of information by partially informed agents. 91b:90015
- Koch, Karl-Josef Mean demand when consumers satisfy the weak axiom of revealed preference. 91b:90065
- Korhonen, Pekka J. (with Moskowitz, Herbert; Wallenius, Jyrki) Choice behavior in interactive multiple-criteria decision making. 91b:90053
- Krzysztofowicz, Roman Target-setting problem with exponential utility. 91c:90001
- Malitz, Jerome *see* Chuang, Rolando, 91m:90045
- Marley, A. A. J. A historical and contemporary perspective on random scale representations of choice probabilities and reaction times in the context of Michael Cohen and Jean-Claude Falmagne's results. A comment on: "Random utility representation of binary choice probabilities: a new class of necessary conditions" [J. Math. Psych. 34 (1990), no. 1, 88-94; MR 91c:90003] by Cohen and Falmagne. 91f:90009
- Maxwell, Christopher Decision weights and the normal form axiom. 91b:90007
- (Mezzetti, C.) *see* Sosnowska, H., 91f:90020
- Monticino, Michael G. Utility functions which ensure the adequacy of stationary strategies. 91b:60047
- Moskowitz, Herbert *see* Korhonen, Pekka J.; et al., 91b:90053
- Nakamura, Kazuo Canonical fuzzy numbers of dimension two and fuzzy utility difference for understanding preferential judgments. 91c:04009
- Niederée, Reinhard *see* Heyer, Dieter, 91b:92046
- Norberg, Ragnar Risk theory and its statistics environment. 91b:62002
- Olson, Lars J. Multivariate decision-making under risk aversion. 91a:90021
- Puppe, Clemens Preference functionals with prize-dependent distortion of probabilities. 91c:90004
- (Rust, John) *see* Kiefer, Nicholas M., 91b:90015
- (Saaty, Thomas L.) *see* Dyer, James S., 91a:92023
- Safra, Zvi *see* Karni, Edi, 91a:90019 and 91b:62106
- Segal, Uri Anticipated utility: a measure representation approach. 91a:90014
- Sosnowska, H. A note on C. Mezzetti's "Paretian efficiency, Rawlsian justice and the Nozick theory of rights" [Soc. Choice Welf. 4 (1987), no. 1, 25-37; MR 88h:90015]. 91f:90020
- Streufert, Peter A. Stationary recursive utility and dynamic programming under the assumption of biconvergence. 91b:90057
- (Vargas, Luis G.) *see* Dyer, James S., 91a:92023
- Wallenius, Jyrki *see* Korhonen, Pekka J.; et al., 91b:90053
- Yabuchi, Shigemi Tariff-induced capital inflow and welfare under variable returns to scale. (Not in MR)

90A11 Production theory, theory of the firm

- Aarts, Harry *see* van den Nouweland, Anne; et al., 91k:90029
- Ankele, Timo *see* Martikainen, Teppo, (Not in MR)
- Aubin, Jean-Pierre Quality and process improvements in dynamic production processes. 91f:90027
- Basu, Kaushik (with Singh, Nirvikar) Entry-deterrence in Stackelberg perfect equilibria. 91b:90037
- Bessonov, V. A. (with Ivanilov, Yu. P.) Rate production functions with a bounded effective set. (Russian) 91b:90038
- Bonnissens, Jean-Marc Equilibrium with quantity targets. 91k:90028
- Borm, P. E. M. *see* van den Nouweland, Anne; et al., 91k:90029
- Bös, Dieter (with Nett, Lorenz) Privatization, price regulation, and market entry—an asymmetric multistage duopoly model. 91m:90022
- Caputo, Michael R. New qualitative properties in the competitive nonrenewable resource extracting model of the firm. 91b:90013
- Chalhoub, O. Kh. Existence of a solution of a model for a self-supporting business. (Russian) (Not in MR)
- Ch'en, Miao Sheng (with Chung, Jing) Note on the production function for organizations doing case work. (Not in MR)
- Chung, Jing *see* Ch'en, Miao Sheng, (Not in MR)
- Ding, Fang Yun Properties of production rate of science-technique elements for general production functions and a computing method. (Chinese) (Not in MR)
- Dzhallilova, Z. A. Production and exchange models on a graph. (Russian. English and Lithuanian summaries) (see 91a:90006)
- Färe, Rolf (with Primont, Daniel; Samuelson, Larry) Corrigendum: "On differentiability of cost functions" [J. Econom. Theory 38 (1986), no. 2, 233-237; MR 87i:90041] by Färe and Primont. 91g:90030
- Fine, Charles H. (with Freund, Robert M.) Optimal investment in product-flexible manufacturing capacity. (Not in MR)
- Franciković, Drago Continuous capitalization and debt management. (Serbo-Croatian summary) (see 91m:90027)
- Freund, Robert M. *see* Fine, Charles H., (Not in MR)
- Gale, Ian A multiple-object auction with superadditive values. (Not in MR)

- Gómez M., Guillermo L. Stopping times in economic development planning: some modelling issues. (Not in MR)
- Gradas, Raymond H. J. M. A differential game between government and firms: a noncooperative approach. 91b:90014
- Gross, L. S. (with Veendorp, E. C. H.) Growth with exhaustible resources and a materials-balance production function. 91a:90038
- Hornáček, Milan Slack, shortage, and introduction of new products. (Slovak summary) (Not in MR)
- Ivanilov, Yu. P. *see* Bessonov, V. A., 91b:90038
- Kelemen, Matei A dynamic model of production. 91f:90028
- Lang, Kevin Persistent wage dispersion and involuntary unemployment. (Not in MR)
- Leininger, Wolfgang Patent competition, rent dissipation, and the persistence of monopoly: the role of research budgets. (Not in MR)
- Martikainen, Teppo (with Ankele, Timo) On the instability of financial patterns of failed firms and the predictability of corporate failure. (Not in MR)
- Matloka, M. Qualities of goods in the models of production. 91a:90039
- Nett, Lorenz *see* Bös, Dieter, 91m:90022
- van den Nouweland, Anne (with Aarts, Harry; Borm, P. E. M.) Multi-commodity games. 91k:90029
- Okuguchi, Koji *see* Szidarovszky, Ferenc, (Not in MR) and (Not in MR)
- Pauk, Michael J. Output learning and duality in joint production programs. (Not in MR)
- Primont, Daniel *see* Färe, Rolf; et al., 91g:90030
- Rubafalik, G. B. Deterministic model of inventory control with periodic fluctuations in prices and demand. 91b:90039
- Rubinov, A. M. Equilibrium-type models as a tool for constructing effective trajectories in production models. (Russian. English and Lithuanian summaries) (see 91a:90006)
- Sah, Raj K. (with Stiglitz, Joseph E.) The quality of managers in centralized versus decentralized organizations. (Not in MR)
- Samuelson, Larry *see* Färe, Rolf; et al., 91g:90030
- Shmyrlov, V. I. An efficient product-exchange model of Arrow-Debreu type. (Russian) (Not in MR)
- Singh, Nirvikar *see* Basu, Kaushik, 91b:90037
- Smagin, B. I. Some properties of the Cobb-Douglas production function. (Russian) 91m:90023
- Steedman, Ian On Pasinetti's "G" matrix. (Not in MR)
- Stiglitz, Joseph E. *see* Sah, Raj K., (Not in MR)
- Szidarovszky, Ferenc (with Okuguchi, Koji) Extrapolative expectations in an oligopoly with multi-product firms. (Not in MR)
- (with Okuguchi, Koji) On multistep and monotone stability of equilibria in a multi-product oligopoly. (Not in MR)
- Veendorp, E. C. H. *see* Gross, L. S., 91a:90038
- Vlasynuk, B. A. Turnpike properties of a nonlinear model of a production system. (Russian) (Not in MR)
- Wernerfelt, Birger Tacit collusion in differentiated Cournot games. 91b:90040

Items with secondary classifications in 90A11

- Artstein, Zvi (with Wets, Roger J.-B.) Decentralized allocation of resources among many producers. 91a:90054
- Atkins, Derek A survey of lower bounding methodologies for production/inventory models. (Not in MR)
- Blard, Christian An algorithmic theory of the choice of techniques. 91f:90020
- Champsaur, Paul (with Rochet, Jean-Charles) Multiproduct duopolists. 91c:90023
- Éanneste, Ya. A. (with Matin, A. V.) ★ Стохастические экономические модели адаптивного оптимального планирования и проблемы их координации. (Russian) [Stochastic economic models for adaptive optimal planning and problems of their coordination] 91a:90049
- Jeroslow, Robert G. Two mixed integer programming formulations arising in manufacturing management. 91f:90096
- Kamlen, Morton I. (with Zang, Israel) The limits of monopolization through acquisition. 91f:90154
- Matin, A. V. *see* Éanneste, Ya. A., 91a:90049
- Meyer, Margaret A. Learning from coarse information: biased contests and career profiles. 91k:90014
- Quinzil, Martine (with Thisse, Jacques-François) On the optimality of central places. 91m:90097
- Rochet, Jean-Charles *see* Champsaur, Paul, 91c:90023
- Shaninin, A. A. On the aggregation of demand functions. (Russian) 91b:90036
- Telikhamas, Elvira Comparative statics in production models. (Russian. English and Lithuanian summaries) 91c:90023
- Thisse, Jacques-François *see* Quinzil, Martine, 91m:90097
- Wets, Roger J.-B. *see* Artstein, Zvi, 91a:90054
- Zang, Israel *see* Kamlen, Morton I., 91f:90154

90A12 Price theory and market structure

- Aliprantis, Charalambos D. (with Brown, Donald J.; Burkinshaw, Owen) Valuation and optimality in the overlapping generations model. 91g:90031
- Berliant, Marcus (with Dunz, Karl) Nonlinear supporting prices: the superadditive case. 91b:90015
- Besanko, David (with Winston, Wayne L.) Optimal price skimming by a monopolist facing rational consumers. 91a:90040
- Brown, Donald J. *see* Aliprantis, Charalambos D.; et al., 91g:90031
- Burkinshaw, Owen *see* Aliprantis, Charalambos D.; et al., 91g:90031
- Caginalp, G. (with Ermentrout, G. Bard) Numerical studies of differential equations related to theoretical financial markets. (Not in MR)
- Cheng, Susan T. On the feasibility of arbitrage-based option pricing when stochastic bond price processes are involved. (Not in MR)
- Coutinho, Paulo C. On competitive price systems associated with efficient growth paths. (Not in MR)
- Debreu, Gerard Three functions of prices in economics. (Russian) 91a:90041

- Dierker, Egbert The optimality of Boiteux-Ramsey pricing. (Not in MR)
 Duffie, Darrell (with Zame, William R.) The consumption-based capital asset pricing model. 91c:90015
 Dums, Karl see Berliant, Marcus, 91h:90015
 Eaton, Jonathan (with Engers, Maxim) Intertemporal price competition. (Russian) 91h:90041
 Engers, Maxim see Eaton, Jonathan, 91h:90041
 Ermentrout, G. Bard see Caginalp, G., (Not in MR)
 Färe, Rolf (with Grosskopf, Shawna; Nelson, Julianne) On price efficiency. (Not in MR)
 Froot, Kenneth A. (with Obstfeld, Maurice) Stochastic process switching: some simple solutions. (Not in MR)
 Grosskopf, Shawna see Färe, Rolf; et al., (Not in MR)
 Huang, Xin Fu Stability analysis for large-scale market systems. (Chinese. English summary) (Not in MR)
 Hussey, Robert see Tauchen, George, 91m:90025
 Ide, Toyonari (with Takayama, Akira) Marshallian stability and long-run equilibrium in the theory of international trade with factor market distortions and variable returns to scale. 91h:90042
 Kiyotaki, Nobuhiro (with Wright, Randall) A contribution to the pure theory of money. 91m:90024
 Lipman, Barton L. Delaying or deterring entry: a game-theoretic analysis. 91d:90011
 Nelson, Julianne see Färe, Rolf; et al., (Not in MR)
 Obstfeld, Maurice see Froot, Kenneth A., (Not in MR)
 Pasinetti, Luigi Standard prices and linearity of the consumption-investment relation. (Italian. English summary) (see 91h:90026)
 Smith, Gregor W. Solution to a problem of stochastic process switching. (Not in MR)
 Syed, Sabir Ahmed The general separable cost allocation and the airport landing fees. (Not in MR)
 Takayama, Akira see Ide, Toyonari, 91h:90042
 Tauchen, George (with Hussey, Robert) Quadrature-based methods for obtaining approximate solutions to nonlinear asset pricing models. 91m:90025
 Wang, Su Sheng The inverse problem of asset price under unexpected utility. 91f:90029
 Weinrich, Gerd On the foundations of stochastic non-price rationing and the adjustment of prices. (Italian summary) (Not in MR)
 Winston, Wayne L. see Besanko, David, 91a:90040
 Wright, Randall see Kiyotaki, Nobuhiro, 91m:90024
 Zame, William R. see Duffie, Darrell, 91c:90015
- Items with secondary classifications in 90A12
- Amir, Rabah (with Sahi, Siddhartha; Shubik, Martin; Yao, Shun Tian) A strategic market game with complete markets. 91m:90020
 Anglin, Paul M. Disjoint search for the prices of two goods consumed jointly. (Not in MR)
 Anushe, Lawrence M. Partially-revealing rational expectations equilibrium in a competitive economy. 91h:90067
 Balasko, Yves (with Cass, David; Siconolfi, Paolo) The structure of financial equilibrium with exogenous yields. The case of restricted participation. 91c:90019
 Bonnisseau, Jean-Marc (with Cornet, Bernard) Existence of marginal cost pricing equilibria: the nonsmooth case. 91h:90030
 Bös, Dieter (with Nett, Lorenz) Privatization, price regulation, and market entry—an asymmetric multistage duopoly model. 91m:90022
 Cass, David see Balasko, Yves; et al., 91c:90019
 Chamberlain, Gary Asset pricing in multiperiod securities markets. 91h:90024
 Cornet, Bernard see Bonnisseau, Jean-Marc, 91h:90030
 Danilov, V. I. (with Sot-skov, A. I.) A generalized economic equilibrium. 91f:90030
 Dothan, Michael U. ★ Prices in financial markets. 91h:90003
 Duffie, Darrell (with Jackson, Matthew O.) Optimal hedging and equilibrium in a dynamic futures market. 91h:90025
 Elliott, Robert James (with Kopp, P. Ekkehard) Option pricing and hedge portfolios for Poisson processes. 91h:90026
 Engelbrecht-Wiggans, Richard The effect of regret on optimal bidding in auctions. 91c:90018
 Fershtman, Chaim (with Kamien, Morton I.) Turnpike properties in a finite-horizon differential game: dynamic duopoly with sticky prices. 91h:90069
 Geralavičius, Valdevutis Stability of equilibrium with fixed prices. 91h:90045
 Harstad, Ronald M. (with Kagel, John H.; Levin, Dan) Equilibrium bid functions for auctions with an uncertain number of bidders. 91a:90056
 Jackson, Matthew O. see Duffie, Darrell, 91h:90025
 Kagel, John H. see Harstad, Ronald M.; et al., 91a:90056
 Kamien, Morton I. see Fershtman, Chaim, 91h:90069
 Kopp, P. Ekkehard see Elliott, Robert James, 91h:90026
 Levin, Dan see Harstad, Ronald M.; et al., 91a:90056
 Nett, Lorenz see Bös, Dieter, 91m:90022
 Sahi, Siddhartha see Amir, Rabah; et al., 91m:90020
 Shubik, Martin see Amir, Rabah; et al., 91m:90020
 Siconolfi, Paolo see Balasko, Yves; et al., 91c:90019
 Simon, Leo K. (with Zame, William R.) Discontinuous games and endogenous sharing rules. 91h:90032
 Sot-skov, A. I. see Danilov, V. I., 91f:90030
 Werner, Jan Structure of financial markets and real indeterminacy of equilibria. 91h:90050
 Yao, Shun Tian see Amir, Rabah; et al., 91m:90020
 Zame, William R. see Simon, Leo K., 91h:90032
- 90A14 Equilibrium: general theory**
- Aliprantis, Charalambos D. (with Brown, Donald J.; Burkinshaw, Owen) Equilibria in exchange economies with a countable number of agents. 91m:90026
 — (with Burkinshaw, Owen) An overlapping generations model core equivalence theorem. 91c:90016
 Anbarci, Nejat The Kalai/Smorodinsky solution with time preferences. 91a:90042
 Araujo, Aloisio Pessoa (with Monteiro, P. K.) Equilibrium without uniform conditions. 91h:90043
 Balasko, Yves Equivariant general equilibrium theory. 91g:90032
 Banks, Jeffrey S. Monopoly agenda control and asymmetric information. 91d:90012
 Becker, Robert A. (with Foias, Ciprian) Convergent Ramsey equilibria. 91h:90016
 — (with Boyd, John H., III; Foias, Ciprian) The existence of Ramsey equilibrium. 91m:90027
 Berkot, Ugurhan G. Common agency with adverse selection: existence, uniqueness, and efficiency of separation equilibrium. 91g:90033
 Blume, Lawrence (with Easley, David) Implementation of Walrasian expectations equilibria. 91g:90034
 Bonnisseau, Jean-Marc (with Cornet, Bernard) Existence of marginal cost pricing equilibria in economies with several nonconvex firms. 91h:90015
 — (with Cornet, Bernard) Existence of marginal cost pricing equilibria: the nonsmooth case. 91h:90030
 Borisov, K. Yu. An equilibrium model with a profit rate maximizing producer. (Russian. English and Lithuanian summaries) 91d:90013
 Bourguine, Paul A logical approach to problem representation. (Not in MR)
 Bourguignon, François Growth and inequality in the dual model of development: the role of demand factors. (Not in MR)
 Boyd, John H., III see Becker, Robert A.; et al., 91m:90027
 Broecker, Thorsten Credit-worthiness tests and interbank competition. (Not in MR)
 Brown, Donald J. see Aliprantis, Charalambos D.; et al., 91m:90026
 Burkinshaw, Owen see Aliprantis, Charalambos D., 91c:90016 and 91m:90026
 Burkov, V. N. (with Enaleev, A. K.; Kalenchuk, V. F.) Coalitions in a competitive mechanism of resource allocation. 91c:90017
 Caplin, Andrew (with Nalebuff, Barry) Aggregation and imperfect competition: on the existence of equilibrium. 91h:90017
 Champsaur, Paul (with Rochet, Jean-Charles) Multiproduct duopolists. 91c:90023
 Chang, Hsin YH On the Nash equilibrium. 91m:90028
 Chatterjee, Kalyan (with Samuelson, Larry) Perfect equilibria in simultaneous-offers bargaining. 91h:90031
 Chiappori, Pierre-André (with Guesnerie, Roger) On stationary sunspot equilibria of order k . 91g:90035
 Chipman, John S. A general-equilibrium econometric model of an open economy—with special reference to the phenomenon of intra-industry trade. (see 91f:90006)
 Chuganov, P. I. Equilibria and semi-equilibria in economics with rationing. (Russian) 91c:90024
 Cornet, Bernard La théorie mathématique de l'équilibre économique: extension du modèle de Arrow-Debreu au cadre non convexe. (English summary) [The mathematical theory of economic equilibrium: extension of the Arrow-Debreu model to the nonconvex framework] 91h:90018
 — see also Bonnisseau, Jean-Marc, 91h:90015; 91h:90030 and General equilibrium theory and increasing returns, 91h:90051
 Dafermos, Stella Exchange price equilibria and variational inequalities. 91m:90029
 van Damme, Eric Stable equilibria and forward induction. 91g:90036
 Dang, Chuang Yin (with Talman, Dolf) A new triangulation of the unit simplex for computing economic equilibria. 91g:90037
 Danilov, V. I. (with Sot-skov, A. I.) A generalized economic equilibrium. 91f:90030
 Davidson, Carl (with Deneckere, Raymond J.) Excess capacity and collusion. (Not in MR)
 Dejon, B. (with Güldner, B.; Wenzel, Georg) Direct equilibria of economies and their perfect homogeneity limits. 91h:90032
 Deneckere, Raymond J. see Davidson, Carl, (Not in MR)
 Dowrick, Steve The relative profitability of Nash bargaining on the labour demand curve or the contract curve. (Not in MR)
 Drèze, Jacques H. see Guesnerie, Roger; et al., 91a:90043
 Dubey, P. (with Rogawski, Jonathan D.) Inefficiency of smooth market mechanisms. 91h:90044
 Duménil, Gérard (with Lévy, Dominique) Micro adjustment toward long-term equilibrium. 91m:90030
 Easley, David see Blume, Lawrence, 91g:90034
 Enaleev, A. K. see Burkov, V. N.; et al., 91c:90017
 Engelbrecht-Wiggans, Richard The effect of regret on optimal bidding in auctions. 91c:90018
 Farley, Arthur M. (with Lin, Kuan Pin) Qualitative reasoning in economics. (Not in MR)
 Farmer, Roger E. A. The Lucas critique, policy invariance and multiple equilibria. (Not in MR)
 Foias, Ciprian see Becker, Robert A., 91h:90016 and 91m:90027
 Forges, Françoise Equilibria with communication in a job market example. 91h:90011
 Gale, Odell (with Ryder, Harl E.) Existence, uniqueness, and stability of equilibrium in an overlapping-generations model with productive capital. 91c:90019
 Gaynor, Martin (with Kleindorfer, Paul) Equilibrium misperceptions. (Not in MR)
 Guesnerie, Roger (with Magill, Michael J. P.; Quinzii, Martine; Drèze, Jacques H.) Generic inefficiency of stock market equilibrium when markets are incomplete. 91a:90043
 — (with Shafer, Wayne J.) Solving systems of simultaneous equations in economics. 91g:90038
 — An introduction to general equilibrium with incomplete asset markets. 91h:90033
 Geralavičius, Valdevutis Some problems of equilibrium with a given continuous price formation. (Russian. English and Lithuanian summaries) 91c:90020
 — Stability of equilibrium with fixed prices. 91h:90045
 Goldman, Lynne (with Harker, Patrick T.) A note on solving general equilibrium problems with variational inequality techniques. (Not in MR)
 Grandmont, Jean-Michel Local bifurcations and stationary sunspots. 91d:90014
 Guesnerie, Roger see Chiappori, Pierre-André, 91g:90035
 Güldner, B. see Dejon, B.; et al., 91h:90032
 Harker, Patrick T. see Goldman, Lynne, (Not in MR)
 Hillas, John On the definition of the strategic stability of equilibria. 91h:90034
 Hirsch, Michael D. (with Papadimitriou, Christos H.; Vavasis, Stephen A.) Exponential lower bounds for finding Brouwer fixed points. 91c:90021

- (with Magill, Michael J. P.; Mas-Colell, Andreu) A geometric approach to a class of equilibrium existence theorems. 91f:90031
- Husseini, S. Y. (with Lasry, J.-M.; Magill, Michael J. P.) Existence of equilibrium with incomplete markets. 91e:90025
- Ide, Toyonari (with Takayama, Akira) The Marshall-Lerner condition reconsidered. (Not in MR)
- Ioannides, Yannis M. Trading uncertainty and market form. 91c:90022
- Jørgensen, Steffen (with Sorger, Gerhard) Feedback Nash equilibria in a problem of optimal fishery management. 91g:90039
- Kalenchuk, V. F. see Burkov, V. N.; et al., 91c:90017
- Kehoe, Timothy J. (with Levine, David K.; Mas-Colell, Andreu; Zame, William R.) Determinacy of equilibrium in large-scale economies. 91a:90044
- Khan, M. Ali (with Sun, Yeneng) On complete regularity of spaces of economic agents endowed with the order topology. 91a:90045
- Kleindorfer, Paul see Gaynor, Martin. (Not in MR)
- Koshevoi, G. A. Theorems on equilibria in models of economics with two types of pricing. (Russian) 91b:90046
- Kruglov, A. I. Models of Leontief-type reproduction. (Russian) (Not in MR)
- Lasry, J.-M. see Husseini, S. Y.; et al., 91c:90025
- Levine, David K. see Kehoe, Timothy J.; et al., 91a:90044
- Lévy, Dominique see Duménil, Gérard, 91m:90030
- Lin, Kuan Pin see Farley, Arthur M. (Not in MR)
- Liu, Feng Ché Comparison of linear combinations of systems of functions and applications. 91a:90046
- Lombardini, Siro From the theory of equilibrium to computer economics. (Italian. English summary) (see 91b:90026)
- Magill, Michael J. P. see Geanakoplos, John; et al., 91a:90043; Husseini, S. Y.; et al., 91e:90025 and Hirsch, Michael D.; et al., 91f:90031
- Mallath, George J. The impact of asymmetric information on entry deterrence: an example. (Not in MR)
- Marimon, Ramon (with McGrattan, Ellen; Sargent, Thomas J.) Money as a medium of exchange in an economy with artificially intelligent agents. (Not in MR)
- Marjit, Sugata On a noncooperative theory of technology transfer. (Not in MR)
- Mas-Colell, Andreu (with Richard, Scott F.) A new approach to the existence of equilibria in vector lattices. 91m:90031
- see also Kehoe, Timothy J.; et al., 91a:90044 and Hirsch, Michael D.; et al., 91f:90031
- McGrattan, Ellen see Marimon, Ramon; et al., (Not in MR)
- McKenzie, Lionel Addendum: "A limit theorem on the core" [Econ. Lett. 27 (1988), no. 1, 7-9; MR 89m:90035]. 91d:90015
- McLennan, A. Fixed points of contractible valued correspondences. 91d:90016
- Monteiro, P. K. see Arango, Aloisio Pessoa, 91b:90043
- Nakamura, Shinsuke A feasible Nash implementation of Walrasian equilibria in the two-agent economy. 91m:90032
- Nalebuff, Barry see Caplin, Andrew, 91f:90017
- Neme, Alejandro Limit theorem on the core of an economy with externalities. 91k:90035
- Papadimitriou, Christos H. see Hirsch, Michael D.; et al., 91c:90021
- Papageorgiou, Yorgos Y. (with Pines, David) The logical foundations of urban economics are consistent. 91f:90019
- Pietra, Tito Existence of sunspot equilibrium and absence of nonsunspot equilibria in a financial economy. (Not in MR)
- Pines, David see Papageorgiou, Yorgos Y., 91f:90019
- Potterovich, V. M. Equilibrated states and optimal allocations of resources under rigid prices. 91b:90047
- Quinzil, Martine see Geanakoplos, John; et al., 91a:90043
- Richard, Scott F. see Mas-Colell, Andreu, 91m:90031
- Robson, Arthur J. Duopoly with endogenous strategic timing: Stackelberg regained. 91e:90026
- Rochet, Jean-Charles see Champsaur, Paul, 91c:90023
- Rogawski, Jonathan D. see Dubey, P., 91b:90044
- Ryder, Harl E. see Gale, Oded, 91c:90019
- Safra, Zvi Connectedness of the set of manipulable equilibria. 91i:90020
- Samuelson, Larry see Chatterjee, Kalyan, 91k:90031
- Santos, Manuel S. Existence of equilibria for monetary economies. 91j:90012
- Sargent, Thomas J. Equilibrium with signal extraction from endogenous variables. (Not in MR)
- see also Marimon, Ramon; et al., (Not in MR)
- Shafer, Wayne J. see Geanakoplos, John, 91g:90038
- Shimomura, Koji The feedback equilibria of a differential game of capitalism. 91m:90033
- Shmyrev, V. I. A search for equilibrium in a linear exchange model with fixed budgets and additional constraints of financial type. (Russian) 91k:90036
- Smith, Bruce D. Interest on reserves and sunspot equilibria: Friedman's proposal reconsidered. (Not in MR)
- Sorger, Gerhard see Jørgensen, Steffen, 91g:90039
- Sotnikov, A. I. see Danilov, V. I., 91f:90030
- Sun, Yeneng see Khan, M. Ali, 91a:90045
- Svensson, Lars-Gunnar Nash implementation of competitive equilibria in a model with indivisible goods. (Not in MR)
- Takayama, Akira see Ide, Toyonari, (Not in MR)
- Talman, Dolf see Dang, Chuang Yin, 91g:90037
- Tamolintaa, Raimundas Replica economies with congested public goods. (Not in MR)
- Tarafdar, E. A fixed point theorem and equilibrium point of an abstract economy. 91k:90037
- Thorlund-Petersen, Lars Iterative computation of Cournot equilibrium. 91b:90048
- Tian, Guo Qiang Equilibrium in abstract economies with a noncompact infinite-dimensional strategy space, an infinite number of agents and without ordered preferences. 91e:90027
- Varas, Stephen A. see Hirsch, Michael D.; et al., 91c:90021
- Vega-Redondo, Fernando Implementation of Lindahl equilibrium: an integration of the static and dynamic approaches. 91b:90049
- Wenzel, Georg see Dejon, B.; et al., 91k:90032
- Werner, Jan Structure of financial markets and real indeterminacy of equilibria. 91b:90050
- Yabuchi, Shigemasa Tariff-induced capital inflow and welfare under variable returns to scale. (Not in MR)
- Yagubov, A. A. Application of nonsmooth analysis methods to the study of a model of economic equilibrium. (Russian. English and Azerbaijani summaries) (Not in MR)
- Zame, William R. see Kehoe, Timothy J.; et al., 91a:90044
- Items listed otherwise than by author
- General equilibrium theory and increasing returns ★ General equilibrium theory and increasing returns. 91b:90051
- Special Issue:
- General equilibrium theory and increasing returns ★ General equilibrium theory and increasing returns. 91b:90051
- Items with secondary classifications in 90A14
- Aliprantis, Charalambos D. (with Brown, Donald J.; Burkinshaw, Owen) Valuation and optimality in the overlapping generations model. 91g:90031
- (Baigent, N.) see Le Breton, M., 91b:90012
- Berliant, Marcus (with Dunz, Karl) Nonlinear supporting prices: the superadditive case. 91b:90015
- Bonnissac, Jean-Marc Equilibrium with quantity targets. 91k:90028
- Brown, Donald J. see Aliprantis, Charalambos D.; et al., 91g:90031
- Broue, L. (with Gouriéroux, Christian; Szafarz, A.) Speculative bubbles and exchange of information on the market of a storable good. 91b:90064
- Burkinshaw, Owen see Aliprantis, Charalambos D.; et al., 91g:90031
- Castellani, Gilberto The pricing of options on bonds in a stochastic equilibrium model. (Italian. English summary) 91f:90012
- Cho, In-Koo (with Sobel, Joel) Strategic stability and uniqueness in signaling games. 91g:90024
- Debreu, Gerard Three functions of prices in economics. (Russian) 91a:90041
- Dendrinos, Dimitrios S. Nonlinear spatial dynamics, equilibrium states, and static optimization theory. 91c:92112
- Dunz, Karl see Berliant, Marcus, 91b:90015
- Dutta, Bhaskar The egalitarian solution and reduced game properties in convex games. 91b:90133
- Eaton, Jonathan (with Engers, Maxim) Intertemporal price competition. (Russian) 91b:90041
- Engers, Maxim see Eaton, Jonathan, 91b:90041
- Fernandez, Raquel (with Rosenthal, Robert W.) Strategic models of sovereign-debt renegotiations. 91d:90033
- Fershtman, Chaim Fixed rules and decision rules. Time consistency and subgame perfection. 91a:90009
- Foulds, Leslie R. see Yamada, Takeo, 91m:93007
- Friedman, James W. (with Samuelson, Larry) Subgame perfect equilibrium with continuous reaction functions. 91b:90090
- Gilboa, Itzhak (with Matsui, Akihiko) Social stability and equilibrium. (Not in MR)
- Gouriéroux, Christian see Broue, L.; et al., 91b:90064
- Green, Jerry (with Laffont, Jean-Jacques) Competition on many fronts: a Stackelberg signaling equilibrium. 91g:90195
- Hansen, Bodil O. (with Keiding, Hans) Reaction equilibria. 91b:90148
- Harstad, Ronald M. (with Kagel, John H.; Levin, Dan) Equilibrium bid functions for auctions with an uncertain number of bidders. 91a:90056
- Herden, G. On a lifting theorem of Nachbin. 91b:54033
- (Huang, Peter H.) see Le Breton, M., 91b:90012
- Ide, Toyonari (with Takayama, Akira) Marshallian stability and long-run equilibrium in the theory of international trade with factor market distortions and variable returns to scale. 91b:90042
- Kagel, John H. see Harstad, Ronald M.; et al., 91a:90056
- Karni, Edi (with Safra, Zvi) Ascending bid auctions with behaviorally consistent bidders. 91a:90019
- Keenan, Donald C. Morishima systems and global stability. 91e:90031
- Keiding, Hans see Hansen, Bodil O., 91b:90148
- Khan, M. Ali (with Sun, Yeneng) On a reformulation of Cournot-Nash equilibria. 91d:90111
- Kiyotaki, Nobuhiko (with Wright, Randall) A contribution to the pure theory of money. 91m:90024
- Laffont, Jean-Jacques see Green, Jerry, 91g:90195
- Le Breton, M. (with Uriarte, Jose Ramon) On the robustness of the impossibility result in the topological approach to social choice. 91b:90012
- Lehrer, Ehud Nash equilibria of n -player repeated games with semi-standard information. 91k:90238
- Levin, Dan see Harstad, Ronald M.; et al., 91a:90056
- Loridan, Pierre (with Morgan, Jacqueline) Approximate solutions for two-level optimization problems. 91d:90084
- Magill, Michael J. P. (with Shafer, Wayne J.) Characterisation of generically complete real asset structures. 91f:90013
- Manelli, Alejandro M. Monotonic preferences and core equivalence. 91m:90007
- Marchi, Ezio A note on proper and perfect E -stable points. (Spanish. English summary) 91g:90192
- Matsui, Akihiko see Gilboa, Itzhak, (Not in MR)
- Mertens, Jean-François Stable equilibria—a reformulation. I. Definition and basic properties. 91b:90224
- Moldovana, B. Stable bargained equilibria for assignment games without side payments. 91k:90251
- Morgan, Jacqueline see Loridan, Pierre, 91d:90084
- Nielsen, Lars Tyge Existence of equilibrium in CAPM. 91g:90025
- Equilibrium in CAPM without a riskless asset. 91d:90009
- Pessa, Eliano (with Rizzi, Bruno) A possible generalization of dynamic economic models. (Italian. English summary) 91b:90056
- Rizzi, Bruno see Pessa, Eliano, 91b:90056

- Rosenthal, Robert W. *see* Fernandez, Raquel, 91d:90033
- Safra, Zvi *see* Karni, Edi, 91a:90019
- Samuelson, Larry Evolutionary foundations of solution concepts for finite, two-player, normal-form games. 91a:90199
- Strategy additions and equilibrium selection. 91m:90204
- *see also* Friedman, James W., 91i:90090
- Shafer, Wayne J. *see* Magill, Michael J. P., 91i:90013
- Simoes, Carl P. Some fine-tuning for dominant diagonal matrices. 91d:15005
- Sobel, Joel *see* Cho, In-Koo, 91g:90204
- Straufert, Peter A. Stationary recursive utility and dynamic programming under the assumption of biconvergence. 91b:90057
- Sun, Yuesong *see* Khan, M. Ali, 91d:90111
- Tsafaris, A. *see* Bruze, L.; et al., 91b:90064
- Takayama, Akira *see* Ide, Toyonari, 91b:90042
- Thomas, Jonathan (with Worrall, Tim) Income fluctuation and asymmetric information: an example of a repeated principal-agent problem. (Not in MR)
- Uriarte, Jose Ramon *see* Le Breton, M., 91b:90012
- Wernerfelt, Birger Tacit collusion in differentiated Cournot games. 91b:90040
- Worrall, Tim *see* Thomas, Jonathan, (Not in MR)
- Wright, Randall *see* Kiyotaki, Nobuhiro, 91m:90024
- Yamada, Takeo (with Foulds, Leslie R.) A graph-theoretic approach to investigate structural and qualitative properties of systems: a survey. 91m:93007
- Yomins, Yves Competitive equilibrium for incomplete market structures. 91k:90052

90A15 General economic models, trade models

- Bail, Joseph A. (with Taub, B.) Factoring spectral matrices in linear-quadratic models. (Not in MR)
- Bendjilal, Boualem On the stability of a retarded functional-differential equation Edge-worth process. 91g:90040
- Berndsen, Ron (with Daniels, Hennie) Sequential causality and qualitative reasoning in economics. (see 91m:90008)
- Cabral, Luis M. B. On the adoption of innovations with "network" externalities. (Not in MR)
- Daniels, Hennie *see* Berndsen, Ron, (91m:90008)
- Hammond, Peter J. (with Kaneko, Mamoru; Wooders, Myrna Holtz) Continuum economies with finite coalitions: core, equilibria, and widespread externalities. 91h:90016
- Howe, Eric C. (with Johnson, Charles Royal) Analytic problems in the aggregation of input-output models. 91c:90028
- Johnson, Charles Royal *see* Howe, Eric C., 91c:90028
- Kaganovich, M. Efficient dynamics in the Leontief model with compensation of residual damages. (Russian. English and Estonian summaries) 91c:90029
- Kaneko, Mamoru (with Wooders, Myrna Holtz) The core of a continuum economy with widespread externalities and finite coalitions: from finite to continuum economies. 91h:90017
- *see also* Hammond, Peter J.; et al., 91h:90016
- Manara, Carlo Felice Variations of eigenvectors of Leontief matrices. (Italian. English summary) 91f:90032
- Pomanski, A. B. (with Trofimov, G. Yu.) Mathematical models in economic cycle theories. (Russian) 91i:90021
- Szekelyhidi, László Stability of some functional equations in economics. (Italian summary) 91k:90018
- Taub, B. *see* Bail, Joseph A., (Not in MR)
- Telikhman, El'vira Comparative statics in production models. (Russian. English and Lithuanian summaries) 91c:90023
- Torriero, Anna Factorizations of M -matrices in input-output analysis. 91h:90019
- Trofimov, G. Yu. *see* Pomanski, A. B., 91i:90021
- Vedina, O. I. Spectral properties of superlinear mappings. (Russian. English and Lithuanian summaries) 91g:90041
- Vives, Xavier Trade association disclosure rules, incentives to share information, and welfare. 91k:90038
- Wooders, Myrna Holtz *see* Hammond, Peter J.; et al., 91h:90016 and Kaneko, Mamoru, 91h:90017
- Yano, Makoto von Neumann facets and the dynamic stability of perfect foresight equilibrium paths in neo-classical trade models. 91d:90017
- Zaslavskii, A. Ya. A two-sector model of economic dynamics with discrete innovations. (Russian) 91g:90042
- Zhou, Lin Impossibility of strategy-proof mechanisms in economies with pure public goods. (Not in MR)

Items with secondary classifications in 90A15

- Aryupin, D. V. * Некоторые вопросы исследования задач на перестановках. (Russian) [Some problems in the study of permutation problems] 91k:90146
- Milgrom, Paul (with Roberts, John) Rationalizability, learning, and equilibrium in games with strategic complementarities. 91j:90101
- Roberts, John *see* Milgrom, Paul, 91j:90101
- Vind, Karl Independent preferences. 91f:90016

90A16 Dynamic economic models, growth models

- Arushanyan, I. I. *see* Belen'kii, V. Z.; et al., (Not in MR)
- Aulin, Arvid The condition of self-steering of economic development. 91c:90024
- d'Aucone, Antoine On the solution of linear difference equations with rational expectations. 91k:90039
- Avstriiaskaya, T. P. *see* Belen'kii, V. Z.; et al., (Not in MR)
- Balabin, A. A. A problem of maximizing the reliability of a plan in a semidynamic input-output system. (Russian) (see 91i:90002)
- Belen'kii, V. Z. Economic dynamics: a generalized "budget" factorization of Gale technology. (Russian) 91j:90013
- (with Arushanyan, I. I.; Avstriiaskaya, T. P.) Variant analysis of structural shifts in a national economy during technological change. (Russian) (Not in MR)
- Berndsen, Ron (with Daniels, Hennie) Qualitative dynamics and causality in a Keynesian model. 91c:90025
- Boitani, A. (with Christodoulakis, N.) A note on IS-LM and stock adjustment processes. 91b:90052
- Boldrin, Michele (with Deneckere, Raymond J.) Sources of complex dynamics in two-sector growth models. 91b:90020
- Borisev, K. Yu. Locally optimal trajectories in a one-product model of Neumann type. (Russian) (see 91i:90002)
- Brock, William A. (with Malliaris, A. G.) * Differential equations, stability and chaos in dynamic economics. 91a:90047
- Chaos and complexity in economic and financial science. 91c:90030
- Burke, Jonathan L. A benchmark for comparative dynamics and determinacy in overlapping-generations economies. 91j:90014
- Christodoulakis, N. *see* Boitani, A., 91b:90052
- Dana, R.-A. (with Le Van, C.) Structure of Pareto optima in an infinite-horizon economy where agents have recursive preferences. 91b:90053
- Daniels, Hennie *see* Berndsen, Ron, 91c:90025
- Dement'ev, N. P. (with Petrov, Yu. A.) Structures of prices and production on stationary trajectories of economic growth. (Russian) (see 91i:90002)
- Deneckere, Raymond J. *see* Boldrin, Michele, 91b:90020
- Debes, Imre The singularity problem of the open dynamic Leontief model. (Hungarian. English summary) 91a:90048
- Donaldson, John B. (with Johnsen, Thore; Mehra, Rajnish) On the term structure of interest rates. (Not in MR)
- Dzhunusbekov, Nurmukhamed Trajectories of a two-sector production model that are generated by equilibrium mechanisms. (Russian. English and Lithuanian summaries) 91c:90026
- Engwerda, Jacob Chr. The solution of the infinite horizon tracking problem for discrete time systems possessing an exogenous component. 91g:90043
- Ennuste, Yu. A. (with Matin, A. V.) * Стохастические экономические модели адаптивного оптимального планирования и проблемы их координации. (Russian) [Stochastic economic models for adaptive optimal planning and problems of their coordination] 91a:90049
- Galeotti, M. (with Gori, Franco) Uniqueness of periodic orbits in Liénard-type business-cycle models. (Not in MR)
- Gaudet, Gérard (with Moreaux, Michel) Price versus quantity rules in dynamic competition: the case of nonrenewable natural resources. 91c:90027
- Gelfman, L. M. (with Levin, M. I.) Models of innovative processes (a survey of foreign literature). (Russian) 91b:90054
- Gori, Franco *see* Galeotti, M., (Not in MR)
- Gottberger, Hans-W. Stochastics of innovation processes. 91b:90055
- Harti, Richard Most rapid approach paths in dynamic economic problems. 91g:90044
- Hellman, O. A one-sector dynamic model of the economy of a country. (Russian summary) 91m:90034
- Johnsen, Thore *see* Donaldson, John B.; et al., (Not in MR)
- Karatzas, Ioannis (with Lehoczy, John P.; Shreve, Steven E.) Existence and uniqueness of multi-agent equilibrium in a stochastic, dynamic consumption/investment model. 91c:90028
- Keenan, Donald C. Morishima systems and global stability. 91c:90031
- Kisiel, B. N. Conditions for the existence of solutions in simplified discrete analogues of the Leontief model. (Russian) (see 91i:90002)
- Kuang, Yong Zhu Analysis of a stochastic economic system. (Chinese. English summary) 91m:90035
- Lehoczy, John P. *see* Karatzas, Ioannis; et al., 91c:90028
- Le Van, C. *see* Dana, R.-A., 91b:90053
- Levin, M. I. *see* Gelfman, L. M., 91b:90054
- Levin, V. L. Some applications of set-valued mappings in mathematical economics. 91f:90033
- Londregan, John Entry and exit over the industry life cycle. 91m:90036
- Lorenz, Hans-Walter Strange attractors in dynamical economics. 91h:90021
- Ma, Ching-to Albert Adverse selection in dynamic moral hazard. (Not in MR)
- Madan, Dilip (with Seneta, Eugene) On the monotonicity of the labour-capital ratio in Sraffa's model. (Not in MR)
- Makai, Mihály Economic physics. (Hungarian. English summary) 91a:90050
- Malliaris, A. G. *see* Brock, William A., 91a:90047
- Margaritis, Dimitris A time-varying model of rational learning. 91g:90045
- Matin, A. V. *see* Ennuste, Yu. A., 91a:90049
- Matulka, Josef *see* Neck, Reinhard, 91c:90029
- Mehra, Rajnish *see* Donaldson, John B.; et al., (Not in MR)
- Miller, Marcus (with Salmon, Mark) When does coordination pay? (Not in MR)
- Miyao, Takahiro Dynamic urban models. (see 91k:90091)
- Moreaux, Michel *see* Gaudet, Gérard, 91c:90027
- Mosetti, Renzo On a possible interpretation of market dynamics based on the internal model principle. 91a:90051
- Mukanov, A. A. The simplest dynamic models of the joint operation of several technologies. (Russian. English and Lithuanian summaries) (see 91a:90006)
- Nadiri, M. Ishaq *see* Frucha, Ingmar R., (Not in MR)
- Neck, Reinhard (with Matulka, Josef) Optimal control of dynamic economic models: a comparison of three computer programs. 91c:90029
- O'Clairide, Colin Art *see* Schneider, Helmut; et al., (Not in MR)
- Okuguchi, Koji *see* Szidarovszky, Ferenc, 91h:90022
- Pessa, Eliano (with Rizzi, Bruno) A possible generalization of dynamic economic models. (Italian. English summary) 91b:90056
- Petrov, Yu. A. (with Shanenin, A. A.) Systems analysis in economics: the problem of an aggregate description of economic relations. (Russian. English summary) 91f:90034
- Petrov, Yu. A. *see* Dement'ev, N. P., (91i:90002)
- Presman, L. S. The efficiency of controlling an economy by means of plans, prices, normals and direct taxes. (Russian) (Not in MR)

- Prucha, Ingmar R. (with Nadiri, M. Ishaq) On the specification of accelerator coefficients in dynamic factor demand models. (Not in MR)
- Reichlin, Pietro Output-inflation cycles in an economy with staggered wage setting. (Not in MR)
- Rizzi, Bruno see Pessa, Eliano, 91b:90056
- Rubinov, A. M. Equilibrium mechanisms for efficient and asymptotically efficient development in dynamic models of production and exchange. 91a:90052
- Rustem, Berc Methods for optimal economic policy design. 91m:90037
- Salmon, Mark see Miller, Marcus, (Not in MR)
- Schneider, Helmut (with Tang, Kwei; O'Connell, Colm Art) Optimal control of a production process subject to random deterioration. (Not in MR)
- Schoonbeek, L. Complex eigenvectors and ratios of variables. 91c:90030
- Seneta, Eugene see Madan, Dilip, (Not in MR)
- Sethi, Suresh P. (with Sorger, Gerhard) An exercise in modelling of consumption, import and export of an exhaustible resource. (Not in MR)
- Shanahan, A. A. see Petrov, A. A., 91f:90034
- Shi, Shu Zhong (with Wu, Zhi Qin) Monotone trajectories for a pure exchange economy. (Chinese. English summary) 91m:90038
- Shreve, Steven E. see Karatzas, Ioannis; et al., 91c:90028
- Sobel, Matthew J. Higher-order and average reward myopic-affine dynamic models. 91d:90018
- Sorger, Gerhard see Sethi, Suresh P., (Not in MR)
- Streufert, Peter A. Stationary recursive utility and dynamic programming under the assumption of biconvergence. 91b:90057
- Szidarovszky, Ferenc (with Okuguchi, Koji) Dynamic oligopoly: models with incomplete information. 91b:90022
- Tang, Kwei see Schneider, Helmut; et al., (Not in MR)
- Turney, S. T. Deterministic and stochastic dynamic adjustment of capital investment budgets. (Not in MR)
- Wu, Zhi Qin see Shi, Shu Zhong, 91m:90038
- Yamada, Takeo Controllability and the theory of economic policy: a structural approach. 91c:90032
- Zaslavskii, A. Ya. Stability in turnpike theorems. (Russian) 91a:90053
- Multiproduct models of economic dynamics with discrete innovations. (Not in MR)
- Discrete innovations in dynamic economic models. 91m:90039
- Zhang, Weibin The complexity of nonlinear dynamic economic systems—the Kaldorian model with bond finance of the government. (Not in MR)

Items with secondary classifications in 90A16

- Allprantis, Charalambos D. (with Burkinshaw, Owen) An overlapping generations model core equivalence theorem. 91c:90016
- Andrianov, D. L. A functional-differential equation arising in the modeling of economic systems. (Russian) (see 91b:34001)
- Aubin, Jean-Pierre A survey of viability theory. 91f:49005
- Barney, L. Dwayne see LaFrance, Jeffrey T., 91j:49051
- Bessonov, V. A. (with Ivanilov, Yu. P.) Rate production functions with a bounded effective set. (Russian) 91b:90038
- Bojadziev, George Optimal control of a resource consumption model. (see 91f:90005)
- Broze, L. (with Gouriéroux, Christian; Szafarz, A.) Speculative bubbles and exchange of information on the market of a storable good. 91b:90064
- Burkinshaw, Owen see Allprantis, Charalambos D., 91c:90016
- Caputo, Michael R. Comparative dynamics via envelope methods in variational calculus. 91k:90013
- Carlson, Dean A. The existence of catching-up optimal solutions for a class of infinite horizon optimal control problems with time delay. 91b:49008
- Clark, Colin W. ★ Mathematical bioeconomics. 91c:90037
- Clarke, Harry R. (with Reed, William J.) Land development and wilderness conservation policies under uncertainty: a synthesis. (Not in MR)
- Da, Qing Li see He, Jian Min; et al., (Not in MR)
- Dmitriev, M. G. see Gerasimov, V. A., (Not in MR)
- Dockner, Engelbert J. (with Takahashi, Harutaka) On the saddle-point stability for a class of dynamic games. 91j:90111
- Furth, Dave (with Sierksma, Gerard) The rank and eigenvalues of main diagonal perturbed matrices. 91a:15007
- Gerasimov, V. A. (with Dmitriev, M. G.) Optimal control in operational planning and control. (Not in MR)
- Gorelik, V. A. (with Rulev, G. V.) A nonsmooth problem for the optimal control of an economic system. (Russian) (see 91k:90006)
- Gouriéroux, Christian see Broze, L.; et al., 91b:90064
- He, Jian Min (with Da, Qing Li; Xu, Nan Rong) A gross output prediction method for optimal analysis of a nonlinear dynamical input-output model. (Not in MR)
- Hommes, C. H. see Nusse, H. E., 91c:90037
- Hornáček, Milan Slack, shortage, and introduction of new products. (Slovak summary) (Not in MR)
- Ivanilov, Yu. P. see Bessonov, V. A., 91b:90038
- Kakes, Alibelt (with Oliva, Aurora) A two-step method for dynamical linear models. (Spanish. English summary) 91k:90096
- LaFrance, Jeffrey T. (with Barney, L. Dwayne) The envelope theorem in dynamic optimization. 91j:49051
- Liu, Xiao Hua Following minimum variance control for an MIMO system with a deviation. (Chinese. English summary) 91a:93062
- Mertens, Jean-François Stable equilibria—a reformulation. I. Definition and basic properties. 91b:90224
- Morgan, Jacqueline Constrained well-posed two-level optimization problems. 91b:90220
- (Munro, Gordon R.) see Clark, Colin W., 91c:90037
- Namatame, Akira Dynamic oligopoly games. 91f:90155
- Nusse, H. E. (with Hommes, C. H.) Resolution of chaos with application to a modified Samuelson model. 91c:90037
- Oliva, Aurora see Kakes, Alibelt, 91k:90096

- Outrata, Jih V. On the numerical solution of a class of Stackelberg problems. (German summary) 91j:49022
- Polterovich, V. M. Equilibrated states and optimal allocations of resources under rigid prices. 91b:90047
- Reed, William J. see Clarke, Harry R., (Not in MR)
- Rubinov, A. M. (with Yagubov, A. A.) Investigation of an exchange model by means of methods of nonsmooth analysis. (Russian. English and Azerbaijani summaries) (Not in MR)
- Rulev, G. V. see Gorelik, V. A., (91k:90006)
- Sepassi, Gholam Reza Single-generation environmental clubs under the assumption of threshold value. (Turkish summary) (Not in MR)
- Sharp, Keith P. Stochastic differential equations in finance. 91f:90024
- Sierksma, Gerard see Furth, Dave, 91a:15007
- Simon, Carl P. Some fine-tuning for dominant diagonal matrices. 91d:15005
- Sorger, Gerhard On the optimality of given feedback controls. 91b:34184
- Szafarz, A. see Broze, L.; et al., 91b:90064
- Takahashi, Harutaka see Dockner, Engelbert J., 91j:90111
- Wang, Ze Ke (with Yi, Yan Chun; Zhong, Xin) Dynamical system approaches to mathematical economics. (Chinese) 91g:90002
- Xu, Nan Rong see He, Jian Min; et al., (Not in MR)
- Yagubov, A. A. see Rubinov, A. M., (Not in MR)
- Yano, Makoto Comparative statics in dynamic stochastic models: differential analysis of a stochastic modified golden rule state in a Banach space. 91m:90040
- von Neumann facets and the dynamic stability of perfect foresight equilibrium paths in neo-classical trade models. 91d:90017
- Yatsenko, Yu. P. A study of an integro-functional equation that arises in optimization problems. (Russian) 91c:45011
- Yi, Yan Chun see Wang, Ze Ke; et al., 91g:90002
- Zhong, Xin see Wang, Ze Ke; et al., 91g:90002

90A17 Multisectoral models

- Artstein, Zvi (with Wets, Roger J.-B.) Decentralized allocation of resources among many producers. 91a:90054
- Cesco, J. C. see Tarazaga, Pablo; et al., 91d:90019
- Gambarelli, Gianfranco (with Holubiec, Jerzy; Kacprzyk, Janusz) Modeling and optimization of international economic cooperation via fuzzy mathematical programming and cooperative games. (Russian and Polish summaries) 91b:90058
- Holubiec, Jerzy see Gambarelli, Gianfranco; et al., 91b:90058
- Kacprzyk, Janusz see Gambarelli, Gianfranco; et al., 91b:90058
- Neme, Alejandro see Tarazaga, Pablo; et al., 91d:90019
- Pavlov, V. N. Inclusion of input-output models with continuous time in a KAMIN system. (Russian) (see 91i:90002)
- Stetsenko, V. Ya. A model that is dual to the generalized Leontief-Ford model. (Russian. Tajiki summary) 91b:90059
- Tarazaga, Pablo (with Neme, Alejandro; Cesco, J. C.) Some computational aspects related to an input-output model. (Portuguese summary) 91d:90019
- Wets, Roger J.-B. see Artstein, Zvi, 91a:90054

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- Godlevskii, M. D. An algorithm for correcting contradictory models of multicriterial problems of planning the development of large technical and economic systems. 91g:90098
- Khachaturov, V. R. ★ Математические методы регионального программирования. (Russian) [Mathematical methods for regional programming] 91k:90004
- Liu, Xiao Hua Following minimum variance control for an MIMO system with a deviation. (Chinese. English summary) 91a:93062
- Rubinov, A. M. Equilibrium-type models as a tool for constructing effective trajectories in production models. (Russian. English and Lithuanian summaries) (see 91a:90006)

90A19 Statistical models; economic indexes and measures

- Amershi, Amin H. (with Hughes, John S.) Multiple signals, statistical sufficiency, and Pareto orderings of best agency contracts. 91f:90035
- Ashley, Richard Shrinkage estimation with general loss functions: an application of stochastic dominance theory. 91d:90020
- Barbut, Marc Erratum: "Distributions of Pareto type and representations of inequalities" [Math. Sci. Humaines No. 106 (1989), 53–69; MR 90k:90043]. (French) 91d:90021
- Bhargava, Alek Identification and panel data models with endogenous regressors. (Not in MR)
- Bossert, Walter A note on intermediate inequality indices which are quasilinear means. (see 91f:90006)
- An axiomatization of the single-series Ginis. 91c:90031
- Population replications and ethical poverty measurement. (Not in MR)
- Davidson, Russell (with MacKinnon, James G.) Artificial regressions and $C(\alpha)$ tests. (Not in MR)
- Delbono, F. Patterns of technological leadership: a simple model with uncertainty. (Not in MR)
- Diebold, Francis X. (with Rudebusch, Glenn D.) On the power of Dickey-Fuller tests against fractional alternatives. (Not in MR)
- Foster, James E. (with Shorrocks, Anthony F.) Subgroup consistent poverty indices. (Not in MR)
- Gordienko, L. I. see Kisileva, E. M., (91g:00035)
- Hirshleifer, David Seasonal patterns of futures hedging and the resolution of output uncertainty. (Not in MR)
- Hughes, John S. see Amershi, Amin H., 91f:90035
- Kana, Kenneth Extensions of the Hansen-Sargent prediction formulas to sampled and aggregated data. (Not in MR)
- Kisileva, E. M. (with Gordienko, L. I.) Approximate solution of a stochastic multiproduct problem of optimal partitioning with distribution of the centers of gravity of the subsets.

(Russian) (see 91g:00035)

- Kniesner, Thomas J. *see* Smith Conway, Karen. (Not in MR)
 MacKinnon, James G. *see* Davidson, Russell. (Not in MR)
 Pfingsten, Andreas New concepts of Lorenz domination and risk aversion. (see 91f:90004)
 Prasada Rao, D. S. (with Selvanathan, E. A.) A log-change index number formula for multilateral comparisons. (Not in MR)
 Rudebusch, Glenn D. *see* Diebold, Francis X., (Not in MR)
 Russell, R. Robert Continuity of measures of technical efficiency. 91e:90033
 Selvanathan, E. A. *see* Prasada Rao, D. S., (Not in MR)
 Shorrocks, Anthony F. *see* Foster, James E., (Not in MR)
 Smith Conway, Karen (with Kniesner, Thomas J.) The important econometric features of a linear regression model with cross-correlated random coefficients. (Not in MR)
 Weinhardt, Christof On inequality measurement when population sizes differ. (see 91f:90004)
 Yano, Makoto Comparative statics in dynamic stochastic models: differential analysis of a stochastic modified golden rule state in a Banach space. 91m:90040
 Yu, Hual Min Extension on "the grey prediction model" and its application. (Not in MR)

Items with secondary classifications in 90A19

- Bergin, James (with Brandenburger, Adam) A simple characterization of stochastically monotone functions. 91m:60033
 Brandenburger, Adam *see* Bergin, James, 91m:60033
 Butler, J. S. *see* Rich, Robert W., et al., (Not in MR)
 Garbely, Myriam (with Gilli, Manfred) Qualitative decomposition of the eigenvalue problem in a dynamic system. (Not in MR)
 Gilli, Manfred *see* Garbely, Myriam, (Not in MR)
 (Hackl, Peter) *see* Statistical analysis and forecasting of economic structural change, 91m:62191
 Kadane, Joseph B. *see* Wasserman, Larry Alan, 91f:62048
 Laffargue, Jean-Pierre Résolution d'un modèle macroéconomique avec anticipations rationnelles. (English summary) [Solution of a macroeconomic model with rational expectations] (Not in MR)
 Lehrer, Ehud On a representation of a relation by a measure. 91f:60004
 Nelson, Daniel B. Conditional heteroskedasticity in asset returns: a new approach. (Not in MR)
 Raymond, Jennie *see* Rich, Robert W., et al., (Not in MR)
 Rich, Robert W. (with Raymond, Jennie; Butler, J. S.) Generalized instrumental variables estimation of autoregressive conditional heteroskedastic models. (Not in MR)
 Singh, Murari (with Singh, Rajendra P.) Approximation of first two moments and sampling distribution of Gini's coefficient. (Hindi summary) (Not in MR)
 Singh, Rajendra P. *see* Singh, Murari, (Not in MR)
 Wasserman, Larry Alan (with Kadane, Joseph B.) Bayes' theorem for Choquet capacities. 91f:62048

Items listed otherwise than by author

- Statistical analysis and forecasting of economic structural change ★ Statistical analysis and forecasting of economic structural change. 91m:62191

90A20 Economic time series analysis [see also 62M10]

- Cochrane, John H. A critique of the application of unit root tests. (Not in MR)
 van Daal, Jan (with Merkies, Arnold H. Q. M.) A note on the quadratic expenditure model. 91h:90060
 Maravall, Agustín The use of ARIMA models in unobserved-components estimation: an application to Spanish monetary control. (see 91a:90005)
 Merkies, Arnold H. Q. M. *see* van Daal, Jan, 91h:90060
 Otter, Pieter W. On Wiener-Granger causality, information and canonical correlation. (Not in MR)

Items with secondary classifications in 90A20

- Crabbe, Leland E. (with Young, Brian B.) Model reduction via the internally balanced state space representation. 91g:93024
 Harrison, Jeff *see* West, Mike, 91d:62149
 Kónák, Josef Application of Demidenko's approach to the solution of the prediction problem: continued. (Czech summary) 91d:62094
 West, Mike (with Harrison, Jeff) ★ Bayesian forecasting and dynamic models. 91d:62149
 Young, Brian B. *see* Crabbe, Leland E., 91g:93024

90A25 Spatial models

- Dietzenbacher, Erik Spatial activity allocation modelling: the dominant eigenvalue and its corresponding eigenvector. 91k:90040

Items with secondary classifications in 90A25

- Berliant, Marcus (with Jeng, Hou-Wen) Supply and equilibrium in an economy with land and production. 91h:90025
 Jeng, Hou-Wen *see* Berliant, Marcus, 91h:90025

90A27 Public goods

- Tian, Gao Qiang Completely feasible and continuous implementation of the Lindahl correspondence with a message space of minimal dimension. 91d:90022

Items with secondary classifications in 90A27

- Le Breton, M. (with Salles, M.) The stability set of voting games: classification and genericity results. 91i:90087
 Salles, M. *see* Le Breton, M., 91i:90087

90A28 Voting theory

- Berg, Sven (with Lepellet, Dominique) Voting cycles, plurality rule and strategic manipulation. 91h:90023
 Bordes, Georges (with Tideman, Nicolaus) Independence of irrelevant alternatives in the theory of voting. (Not in MR)
 Bucovetsky, S. Majority rule in multi-dimensional spatial models. (Not in MR)
 Cox, Gary W. Undominated candidate strategies under alternative voting rules. 91f:90036
 Feld, Scott L. (with Grofman, Bernard; Miller, Nicholas R.) Limits on agenda control in spatial voting games. 91g:90046
 — (with Grofman, Bernard) Voting in one's head as a source of nearly transitive individual preferences over multi-dimensional issues. 91j:90015
 — (with Grofman, Bernard) A theorem connecting Shapley-Owen power scores and the radius of the yolk in two dimensions. 91m:90041
 Galam, Serge Social paradoxes of majority rule voting and renormalization group. (Not in MR)
 Grofman, Bernard *see* Feld, Scott L., et al., 91g:90046; 91j:90015 and 91m:90041
 Hong, Gap-Seon *see* de Palma, André, et al., 91c:90032
 Howard, J. V. Implementing alternative voting in kingmaker trees. (Not in MR)
 Kelly, Jerry S. Dictionaries. 91f:90037
 — *see also* Prasad, Kislaya, 91m:90042
 Le Conte de Poly-Barbut, Claude Automorphismes du permutodre et votes de Condorcet. (English summary) [Automorphisms of the permutodre and Condorcet's voting] 91j:90016
 Lepellet, Dominique *see* Berg, Sven, 91h:90023
 Malkervitch, Joseph Mathematical theory of elections. (see 91k:00024)
 Miller, Nicholas R. *see* Feld, Scott L., et al., 91g:90046
 Muto, Shigeo Limit properties of power indices in a class of representative systems. 91g:90047
 Nambiar, K. K. Fractional voting system: a voting system to circumvent Arrow's paradox. 91g:90048
 Owen, Guillermo Stable outcomes in spatial voting games. 91h:90024
 de Palma, André (with Hong, Gap-Seon; Thisse, Jacques-François) Equilibria in multi-party competition under uncertainty. 91c:90032
 Prasad, Kislaya (with Kelly, Jerry S.) NP-completeness of some problems concerning voting games. 91m:90042
 Reid, K. B. The relationship between two algorithms for decisions via sophisticated majority voting with an agenda. 91m:90043
 Saari, Donald G. A dictionary for voting paradoxes. 91f:90038
 — Consistency of decision processes. 91d:90023
 Schwartz, T. Cyclic tournaments and cooperative majority voting: a solution. 91g:90049
 Straffin, Philip D., Jr. Spatial models of power and voting outcomes. 91h:90061
 Syed, Sabir Ahmed The apportionment of representation and the voting power. 91g:90050
 Tangyan, A. S. Optimal appointment of a dictator in the Arrow model. 91m:90044
 Thisse, Jacques-François *see* de Palma, André, et al., 91c:90032
 Tideman, Nicolaus *see* Bordes, Georges, (Not in MR)
 Weber, Shlomo On the existence of a fixed-number equilibrium in a multiparty electoral system. 91j:90017
 Young, H. Peyton Condorcet's theory of voting. (French summary) (Not in MR)

Items with secondary classifications in 90A28

- Caplin, Andrew (with Nalebuff, Barry) Aggregation and social choice: a mean voter theorem. 91m:90011
 Chun, Youngsub (with Thomson, William L.) Egalitarian solutions and uncertain disagreement points. 91m:90024
 Jung, Joen Pyo Black and Farquharson on order-of-voting effects: an extension. 91m:90014
 Koehler, D. H. The size of the yolk: computations for odd- and even-numbered committees. 91c:90006
 Kolpin, Van Equivalent game forms and coalitional power. 91k:90252
 Nalebuff, Barry *see* Caplin, Andrew, 91m:90011
 Thomson, William L. *see* Chun, Youngsub, 91m:90024

90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)

- Abakumov, A. I. Optimum harvesting problems in discrete population models. 91k:90041
 Berliant, Marcus (with Jeng, Hou-Wen) Supply and equilibrium in an economy with land and production. 91h:90025
 Chandhuri, Kripasindhu (with Johnson, Thomas) Bioeconomic dynamics of a fishery modeled as an S-system. (Not in MR)
 Chuang, Rolando (with Malitz, Jerome) The geometry of legal principles. 91m:90045
 Clarke, Harry R. (with Reed, William J.) Land development and wilderness conservation policies under uncertainty: a synthesis. (Not in MR)
 — Management of a renewable resource with a finite demand elasticity. (Not in MR)
 Clemhout, Simone (with Wan, Henry, Jr.) On games of cake-eating. 91k:90042
 Costanza, V. *see* Neuman, C. E., 91c:90034
 Fan, Zhi Ping *see* Huang, Xiao Yuan, 91g:90051
 Forbes, Kevin F. *see* Howe, Eric C., 91d:90024
 Francis, Robert C. Fisheries science and modeling: a look to the future. (Not in MR)
 Glazer, Amihai (with Hassin, Refael) Optimal sales to users who hold inventory. (Not in MR)
 Hassin, Refael *see* Glazer, Amihai, (Not in MR)
 Howe, Eric C. (with Forbes, Kevin F.) Negotiating over externalities. 91d:90024
 Huang, Xiao Yuan (with Fan, Zhi Ping) Analysis of bifurcations and chaotic phenomena and study of control policies in fishery catches. (Chinese) 91g:90051
 Jeng, Hou-Wen *see* Berliant, Marcus, 91h:90025
 Johnson, Thomas *see* Chandhuri, Kripasindhu, (Not in MR)
 Kaitala, Veijo (with Pohjola, Matti) Economic development and agreeable redistribution in capitalism: efficient game equilibria in a two-class neoclassical growth model. 91h:90062

- Lilgren, Karl-Gustaf The measurement of welfare gains from genetic progress in forestry: general equilibrium and disequilibrium results. (Not in MR)
- Ludwig, Donald Irreducible uncertainty in estimation from catch and effort data. (Not in MR)
- Mallitz, Jerome *see* Chusqui, Rolando, 91m:90045
- Medetov, M. M. (with Raimbekov, K. D.; Sagyngaliev, K. S.) Coordinated planning in a discrete active system. (Russian) (Not in MR)
- Negri, Donald H. "Stragedy" of the commons. (Not in MR)
- Neuman, C. E. (with Costanza, V.) Deterministic impulse control in native forest ecosystems management. 91e:90034
- Parma, Ana M. Optimal harvesting of fish populations with nonstationary stock-recruitment relationships. 91j:90018
- Pohjola, Matti *see* Kaitala, Vello, 91b:90062
- Raimbekov, K. D. *see* Medetov, M. M.; et al., (Not in MR)
- Rauscher, Michael Foreign debt and renewable resources. (Not in MR)
- Reed, William J. *see* Clarke, Harry R., (Not in MR)
- Rowse, John (with Yeung, David) Nonmalleable capital and efficient allocation of a nonrenewable resource. (Not in MR)
- Sagyngaliev, K. S. *see* Medetov, M. M.; et al., (Not in MR)
- Sepasi, Gholam Reza Single-generation environmental clubs under the assumption of threshold value. (Turkish summary) (Not in MR)
- Urzua, Carlos M. Lending to sovereign borrowers: snapshots of the Eurocurrency market using a Thoman camera. (Not in MR)
- Wan, Henry, Jr. *see* Clemhout, Simone, 91k:90042
- Williams, Byron K. Review of dynamic optimization methods in renewable natural resource management. 91b:90063
- Yeung, David *see* Rowse, John, (Not in MR)

Items with secondary classifications in 90A30

- Berkes, Fikret (with Kence, Aykut) Fisheries and the Prisoner's Dilemma game: conditions for the evolution of cooperation among users of common property resources. (Not in MR)
- (Berninghaus, Siegfried) *see* Goldberg, Matthew S., (Not in MR)
- Borjas, George J. *see* Goldberg, Matthew S., (Not in MR)
- Fedoseev, A. V. *see* Romanko, A. V., 91k:90054
- Gaudet, Gérard (with Moreaux, Michel) Price versus quantity rules in dynamic competition: the case of nonrenewable natural resources. 91c:90027
- Goldberg, Matthew S. (with Borjas, George J.) A comment: "Job search with belated information and wage signalling" [J. Econom. Dynamics Control 10 (1986), no. 4, 495-508; MR 88b:90140] by Siegfried Berninghaus. (Not in MR)
- Harrison, Gary W. Numerical solution of a population model with harvesting in a random environment. 91a:92007
- Kence, Aykut *see* Berkes, Fikret, (Not in MR)
- Moreaux, Michel *see* Gaudet, Gérard, 91c:90027
- Munro, Gordon R. The optimal management of transboundary fisheries: game-theoretic considerations. (Not in MR)
- Petrosyan, L. A. (with Zakharov, V. V.) ★ Введение в математическую экологию. (Russian) [Introduction to mathematical ecology] 91k:92001
- Romanko, A. V. (with Fedoseev, A. V.) ★ Выбор рациональной длительности периода планирования. (Russian) [Choice of a rational length for a planning period] 91k:90054
- Sethi, Suresh P. (with Sorger, Gerhard) An exercise in modelling of consumption, import and export of an exhaustible resource. (Not in MR)
- Smirnov, A. I. An algorithm for solving a problem of optimizing the use of a resource in a natural economic system. (Russian) 91e:90067
- Sorger, Gerhard *see* Sethi, Suresh P., (Not in MR)
- Zakharov, V. V. *see* Petrosyan, L. A., 91k:92001

90A35 Informational economics

- Admati, Anat R. (with Pfleiderer, Paul) Direct and indirect sale of information. 91d:90025
- Bajar, Tamer (with Salmon, Mark) Credibility and the value of information transmission in a model of monetary policy and inflation. 91d:90026
- Broze, L. (with Gouriéroux, Christian; Szafarz, A.) Speculative bubbles and exchange of information on the market of a storable good. 91b:90064
- Chakravorti, Bhaskar Communication requirements and strategic mechanisms for market organization. 91d:90027
- Fishman, Michael J. (with Hagerty, Kathleen M.) The optimal amount of discretion to allow in disclosure. 91d:90028
- Gouriéroux, Christian *see* Broze, L.; et al., 91b:90064
- de Groote, Xavier A note on the strategic transmission of endogenous information. 91g:90052
- Hagerty, Kathleen M. *see* Fishman, Michael J., 91d:90028
- Pfleiderer, Paul *see* Admati, Anat R., 91d:90025
- Salmon, Mark *see* Bajar, Tamer, 91d:90026
- Stinchcombe, Maxwell B. Bayesian information topologies. 91e:90035
- Szafarz, A. *see* Broze, L.; et al., 91b:90064

Items with secondary classifications in 90A35

- DeMarzo, Peter M. (with Duffie, Darrell) Corporate financial hedging with proprietary information. (Not in MR)
- Duffie, Darrell *see* DeMarzo, Peter M., (Not in MR)
- Ockenfels, Peter ★ Informationsbeschaffung auf homogenen Oligopolmärkten. (German) [Information acquisition for homogeneous oligopoly markets] 91m:90049
- Okuno-Fujiwara, Masahiro (with Postlewaite, Andrew; Suzumura, Kotaro) Strategic information revelation. 91e:90140
- Postlewaite, Andrew *see* Okuno-Fujiwara, Masahiro; et al., 91e:90140
- Stadje, Wolfgang A full information pricing problem for the sale of several identical commodities. (German summary) 91d:90034
- Suzumura, Kotaro *see* Okuno-Fujiwara, Masahiro; et al., 91e:90140

90A36 Incentives theory

- Mookherjee, Dilip (with Reichelstein, Stefan) Implementation via augmented revelation mechanisms. 91d:90029
- Paleokangas, Tapio Investment, profit-sharing and the degree of centralization. (Not in MR)
- Reichelstein, Stefan *see* Mookherjee, Dilip, 91d:90029
- Items with secondary classifications in 90A36
- Abou-Kandil, H. An eigenvector solution for multilevel linear-quadratic Stackelberg games. 91f:90164
- Page, F. H., Jr. Incentive compatible strategies for general Stackelberg games with incomplete information. 91b:90225

90A40 Consumer behavior, demand theory

- Bhaumik, R. N. (with Das, A.) The role of preference relations in mathematical economics. (Not in MR)
- Black, David C. *see* Holmes, James M.; et al., (Not in MR)
- Das, A. *see* Bhaumik, R. N., (Not in MR)
- Dowd, Mike *see* Holmes, James M.; et al., (Not in MR)
- Holmes, James M. (with Dowd, Mike; Black, David C.) Why real wages do not fall when there is unemployment. (Not in MR)
- Koch, Karl-Josef Mean demand when consumers satisfy the weak axiom of revealed preference. 91b:90065
- Lin, Shao Gong *see* Zhang, Xiao Xian², 91h:90026
- Patterson, K. D. An error correction system for integrated consumption and portfolio allocation decisions. (Not in MR)
- Scarpa, C. Dynamic monopolist's behaviour and consumer learning. (Not in MR)
- Schlee, Edward E. Multivariate risk aversion and consumer choice. (Not in MR)
- Zhang, Xiao Xian² (with Lin, Shao Gong) A design of symmetric tax functions for efficient allocation of public goods. 91h:90026

Items with secondary classifications in 90A40

- Carpenter, Gregory S. Perceptual position and competitive brand strategy in a two-dimensional, two-brand market. 91b:90110
- Elner, Ludwig (with Mehrmann, V.) Priority vectors for matrices of pairwise comparisons. (see 91f:90004)
- Mehrmann, V. *see* Elner, Ludwig, (91f:90004)
- Moulin, Hervé Cores and large cores when population varies. 91j:90102
- Sakaguchi, Minoru Havrda-Charvat entropy model for brand-store selection behavior. (Not in MR)

90A43 Expected utility; risk-averse utility

- Fishburn, Peter C. Generalizations of expected utility theories: a survey of recent proposals. 91h:90066
- Segal, Uri (with Spivak, Avia) First order versus second order risk aversion. 91h:90027
- Spivak, Avia *see* Segal, Uri, 91h:90027
- Items with secondary classifications in 90A43
- Ashley, Richard Shrinkage estimation with general loss functions: an application of stochastic dominance theory. 91d:90020
- Blair, Douglas H. (with McLean, Richard P.) Subjective evaluations of n -person games. 91c:90130
- Keller, L. Robin The role of generalized utility theories in descriptive, prescriptive, and normative decision analysis. 91b:90006
- Maxwell, Christopher Decision weights and the normal form axiom. 91h:90007
- McLean, Richard P. *see* Blair, Douglas H., 91c:90130
- Pfingsten, Andreas New concepts of Lorenz domination and risk aversion. (see 91f:90004)
- Safra, Zvi (with Zhou, Lin; Zilcha, Itzhak) Risk aversion in the Nash bargaining problem with risky outcomes and risky disagreement points. 91g:90059
- Wakker, Peter Under stochastic dominance Choquet-expected utility and anticipated utility are identical. (Not in MR)
- Zhou, Lin *see* Safra, Zvi; et al., 91g:90059
- Zilcha, Itzhak *see* Safra, Zvi; et al., 91g:90059

90A46 Risk theory

- Konno, Hiroshi Piecewise linear risk function and portfolio optimization. 91h:90028
- Milk, Gy. Risk taking: a new approach. 91k:90043
- Pratt, John W. Some results on repeated risktaking. 91i:90022
- Samuelson, Paul A. The \sqrt{N} law and repeated risktaking. 91i:90023
- Segal, Uri Two-stage lotteries without the reduction axiom. 91k:90044
- Wakker, Peter Characterizing optimism and pessimism directly through comonotonicity. (Not in MR)

Items with secondary classifications in 90A46

- Mangel, Marc *see* Peters, Craig Steven, 91f:62138
- Peters, Craig Steven (with Mangel, Marc) New methods for the problem of collective ruin. 91f:62138

90A50 Labor market

- Chillemi, Ottorino (with Gui, Benedetto) Uninformed customers and nonprofit organization: modelling "contract failure" theory. (Not in MR)
- Choi, M. Y. *see* Lin, E. B., 91a:90055
- Gui, Benedetto *see* Chillemi, Ottorino, (Not in MR)
- Hotchkiss, Julie L. The relative effects of unemployment insurance parameters on search strategy. (Not in MR)
- van de Klundert, Th. Wage differentials and employment in a two-sector model with a dual labour market. (Not in MR)

- Lin, E. B. (with Chou, M. Y.) Optimal contracts. 91a:90055
 Mori, Pier Angelo The role of employers' authority when jobs are partially enforceable. (Not in MR)
 Qu, Xiao Fei (with Wang, Zhong Tuo) Catastrophe analysis of the development of the division of labor. (Chinese. English summary) (Not in MR)
 Wang, Zhong Tuo see Qu, Xiao Fei, (Not in MR)
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- Cheon, Seong W. (with Fraser, Niall M.) A multi-level game approach to labor-management negotiations. (Not in MR)
 Fraser, Niall M. see Cheon, Seong W., (Not in MR)
 Mukanov, A. A. The simplest dynamic models of the joint operation of several technologies. (Russian. English and Lithuanian summaries) (see 91a:90006)

90A53 Special types of economies

- Ausubel, Lawrence M. Partially-revealing rational expectations equilibrium in a competitive economy. 91b:90067
 Belen'kii, V. Z. Factorization of Gale technology by a pair of "budget functions". (Russian) (Not in MR)
 Blake, A. P. The solution of time-varying linear rational expectations models and the role of terminal conditions. (Not in MR)
 Cantilani, Magdalena A generalization of Wald's oligopoly theorem for various cost functions. (Spanish) (Not in MR)
 Chetty, V. K. (with Jha, Shikha) Dual pricing and distribution of commodities: existence and efficiency. 91b:90068
 Fershtman, Chaim (with Kamien, Morton I.) Turnpike properties in a finite-horizon differential game: dynamic duopoly with sticky prices. 91b:90069
 Hommes, C. H. see Nusse, H. E., 91c:90037
 Jha, Shikha see Chetty, V. K., 91b:90068
 Kamien, Morton I. see Fershtman, Chaim, 91b:90069
 Kletterer, Joan A. Approximation theorems for stochastic economies with incomplete markets. 91c:90036
 Manuelli, Rodolfo Existence and optimality of currency equilibrium in stochastic overlapping generations models: the pure endowment case. 91d:90030
 Moulin, Hervé Joint ownership of a convex technology: comparison of three solutions. (Not in MR)
 Nusse, H. E. (with Hommes, C. H.) Resolution of chaos with application to a modified Samuelson model. 91c:90037
 Okuguchi, Koji (with Szidarovszky, Ferenc) On sequential stability of equilibrium. 91c:90033
 Rapatskaya, S. T. Mathematical simulation of competition mechanisms. 91d:90031
 Shubik, Martin Strategic market game models of exchange economies. 91k:90045
 Spulber, Daniel F. The second best core. 91d:90032
 Szidarovszky, Ferenc see Okuguchi, Koji, 91c:90033
 Tameiomas, Raimundas On the f -core of an economy with finite public goods. (Russian. English and Lithuanian summaries) (Not in MR)
 Ulph, Alistair (with Ulph, David) Gains and losses from cartelisation in markets for exhaustible resources in the absence of binding future contracts. 91c:90034
 Ulph, David see Ulph, Alistair, 91c:90034

Items with secondary classifications in 90A53

- Hamilton, Jonathan H. (with Slutsky, Steven M.) Endogenous timing in duopoly games: Stackelberg or Cournot equilibria. 91d:90104
 Keenan, Donald C. Morishima systems and global stability. 91c:90031
 Macho-Stadler, Inés (with Pérez Castillo, J. David) Moral hazard and cooperation. (Not in MR)
 Magill, Michael J. P. (with Shafer, Wayne J.) Characterisation of generically complete real asset structures. 91c:90013
 Mas-Colell, Andreu (with Nachbar, John H.) On the finiteness of the number of critical equilibria, with an application to random selections. 91m:90046
 Nachbar, John H. see Mas-Colell, Andreu, 91m:90046
 Pérez Castillo, J. David see Macho-Stadler, Inés, (Not in MR)
 Shafer, Wayne J. see Magill, Michael J. P., 91c:90013
 Slutsky, Steven M. see Hamilton, Jonathan H., 91d:90104
 Stephan, Gunter (with Wagenhals, Gerhard) Competitive and intertemporal valuation equilibria in overlapping generations economies: a neo-Austrian perspective. 91k:90047
 Telser, Lester G. * Theories of competition. 91l:90025
 Wagenhals, Gerhard see Stephan, Gunter, 91k:90047

90A56 Special types of equilibria

- Kyparisis, Jerry (with Qiu, Yuping) Solution differentiability for oligopolistic network equilibria. 91k:90046
 Mas-Colell, Andreu (with Nachbar, John H.) On the finiteness of the number of critical equilibria, with an application to random selections. 91m:90046
 Nachbar, John H. see Mas-Colell, Andreu, 91m:90046
 Qiu, Yuping see Kyparisis, Jerry, 91k:90046
 Stephan, Gunter (with Wagenhals, Gerhard) Competitive and intertemporal valuation equilibria in overlapping generations economies: a neo-Austrian perspective. 91k:90047
 Tobin, Roger L. Sensitivity analysis for a Cournot equilibrium. 91j:90019
 Wagenhals, Gerhard see Stephan, Gunter, 91k:90047

Items with secondary classifications in 90A56

- Ausubel, Lawrence M. Partially-revealing rational expectations equilibrium in a competitive economy. 91b:90067
 Chetty, V. K. (with Jha, Shikha) Dual pricing and distribution of commodities: existence and efficiency. 91b:90068
 Jha, Shikha see Chetty, V. K., 91b:90068

- Karatzas, Ioannis (with Lehoczy, John P.; Shreve, Steven E.) Existence and uniqueness of multi-agent equilibrium in a stochastic, dynamic consumption/investment model. 91c:90028
 Kletterer, Joan A. Approximation theorems for stochastic economies with incomplete markets. 91c:90036
 Lehoczy, John P. see Karatzas, Ioannis; et al., 91c:90028
 Okuguchi, Koji (with Szidarovszky, Ferenc) On sequential stability of equilibrium. 91c:90033
 Shreve, Steven E. see Karatzas, Ioannis; et al., 91c:90028
 Szidarovszky, Ferenc see Okuguchi, Koji, 91c:90033
 Vincent, Daniel R. Dynamic auctions. 91c:90036

90A58 Models of real-world systems; general macro-economic models, etc.

- Desnitkaya, V. N. Efficient trajectories in a class of macro-economic models with variable technology. (Russian) (see 91l:90002)
 Dockner, Engelbert J. (with Neck, Reinhard) Inefficient and efficient stabilization policies in a simple macroeconomic model: an application of linear-quadratic differential game theory. 91g:90053
 Ibraeva, L. K. Local-equilibrium models of population movement. (Russian. Kazakh summary) (Not in MR)
 Neck, Reinhard see Dockner, Engelbert J., 91g:90053
- Items with secondary classifications in 90A58
- (Motiwalla, J.) see Expert systems in economics, banking and management, 91m:90008
 (Pao, Yoh-Han) see Expert systems in economics, banking and management, 91m:90008
 (Pau, L.-F.) see Expert systems in economics, banking and management, 91m:90008
 (Teh, H. H.) see Expert systems in economics, banking and management, 91m:90008
 Zlotis, Stanley Multiple criteria mathematical programming: an updated overview and several approaches. 91e:90102

Items listed otherwise than by author

- Expert systems in economics, banking and management * Expert systems in economics, banking and management. 91m:90008
 Singapore * Expert systems in economics, banking and management. 91m:90008
 Workshop:
 Artificial Intelligence in Economics and Management * Expert systems in economics, banking and management. 91m:90008

90A60 Market models (auctions, bargaining, bidding, selling, etc.)

- Ambler, Steve Identifying and estimating efficient markets models with contemporaneous instruments. (Not in MR)
 Bagchi, Prabir K. see Gupta, Y. P.; et al., (Not in MR)
 Ben-Israel, Adi see Flám, Sjur D., (Not in MR)
 Bidard, Christian An algorithmic theory of the choice of techniques. 91j:90020
 Bikhchandani, Sushil (with Riley, John G.) Equilibria in open common value auctions. 91m:90047
 Bondareva, O. N. The market with the fixed demand. 91h:90029
 — Game-theoretic analysis of a one-product market with equal utilities. 91k:90048
 Breton, Michèle (with Haurie, Alain; Zaccour, Georges) Methods in the analysis of multistage commodity markets. 91i:90024
 Caragnac, Michel Information et différenciation du produit sur un marché de duopole. (English summary) [Information and product differentiation in a duopoly market] 91g:90054
 Cheng, Harrison H. C. Asset market equilibrium in infinite-dimensional complete markets. 91g:90055
 Chitgopekar, S. S. (with Subba Rao, S.) A comment on and correction to the holding cost expression in the determination of safety stock. (Not in MR)
 Cho, In-Koo Uncertainty and delay in bargaining. 91j:90021
 Chun, Youngsub Minimal cooperation in bargaining. 91j:90022
 — (with Thomson, William L.) Bargaining with uncertain disagreement points. 91j:90023
 — (with Thomson, William L.) Nash solution and uncertain disagreement points. 91k:90049
 Dalang, Robert C. (with Morton, Andrew; Willinger, Walter) Equivalent martingale measures and no-arbitrage in stochastic securities market models. 91g:90056
 Dekel, Eddie Simultaneous offers and the inefficiency of bargaining: a two-period example. 91c:90035
 Engelbrecht-Wiggans, Richard (with Kahn, Charles M.) Protecting the winner: second-price versus oral auctions. (Not in MR)
 Espinosa, María Paz (with Rhee, Changyong) Efficient wage bargaining as a repeated game. 91h:90030
 Fernandez, Raquel (with Rosenthal, Robert W.) Strategic models of sovereign-debt renegotiations. 91d:90033
 Flám, Sjur D. (with Ben-Israel, Adi) A continuous approach to oligopolistic market equilibrium. (Not in MR)
 Fudenberg, Drew (with Tirole, Jean) Moral hazard and renegotiation in agency contracts. (Not in MR)
 Fukuda, Shin-ichi Exchange market intervention under multiple solutions. Should we rule out multiple solutions? (Not in MR)
 Genesereth, Michael R. see Rosenschein, Jeffrey S., 91f:90043
 Gresik, Thomas A. Ex ante efficient, ex post individually rational trade. (Not in MR)
 — The efficiency of linear equilibria of sealed-bid double auctions. (Not in MR)
 — Efficient bilateral trade with statistically dependent beliefs. (Not in MR)
 Gupta, Y. P. (with Bagchi, Prabir K.; Rao, Ramash P.) A comparative analysis of the performance of alternative discriminant procedures: an application to bankruptcy prediction. (Not in MR)

- Harstad, Ronald M. (with Kagel, John H.; Levin, Dan) Equilibrium bid functions for auctions with an uncertain number of bidders. 91a:90056
 — Asymmetric bidding in second-price, common-value auctions. (Not in MR)
- Haurie, Alain (with Zaccour, Georges; Smeers, Y.) Stochastic equilibrium programming for dynamic oligopolistic markets. 91f:90039
 — see also Breton, Michèle; et al., 91f:90024
- Jeanblanc-Picqué, Monique (with Pontier, Monique) Optimal portfolio for a small investor in a market model with discontinuous prices. 91k:90050
- Kagel, John H. see Harstad, Ronald M.; et al., 91a:90056
- Kahn, Charles M. see Engelbrecht-Wiggans, Richard, (Not in MR)
- Karatzas, Ioannis Optimization problems in the theory of continuous trading. 91g:90057
 — (with Lehoczky, John P.; Shreve, Steven E.; Xu, Gan-Lin) Optimality conditions for utility maximization in an incomplete market. 91h:90031
- Lehoczky, John P. see Karatzas, Ioannis; et al., 91h:90031
- Levin, Dan see Harstad, Ronald M.; et al., 91a:90056
- Livne, Zvi A. Axiomatic characterizations of the Raiffa and the Kalai-Smorodinsky solutions to the bargaining problem. 91h:90032
- Mailath, George J. (with Postlewaite, Andrew) Asymmetric information bargaining problems with many agents. (Not in MR)
- McAfee, R. Preston (with McMillan, John; Reny, Philip J.) Extracting the surplus in the common-value auction. 91f:90040
- McAllister, Patrick H. Rational behavior and rational expectations. (Not in MR)
- McMillan, John see McAfee, R. Preston; et al., 91f:90040
- Morton, Andrew see Dalang, Robert C.; et al., 91g:90056
- Murphy, Frederic H. (with Toman, Michael A.; Weiss, Howard J.) A dynamic Nash game model of oil market disruption and strategic stockpiling. 91m:90048
- Muthoo, Abhinav Bargaining without commitment. 91k:90051
- Muto, Shigeo see Potters, Jos A. M.; et al., 91f:90042
- Ockenfels, Peter ★ Informationsbeschaffung auf homogenen Oligopolmärkten. (German) [Information acquisition for homogeneous oligopoly markets] 91m:90049
- Ohashi, Kazuhiko A note on the terminal date security prices in a continuous time trading model with dividends. (Not in MR)
- Peck, James (with Shell, Karl) Liquid markets and competition. (Not in MR)
- Plum, Michael Continuous sealed-bid auctions with asymmetric incomplete information. 91f:90041
- Pontier, Monique see Jeanblanc-Picqué, Monique, 91k:90050
- Postlewaite, Andrew see Mailath, George J., (Not in MR)
- Potters, Jos A. M. (with Muto, Shigeo; Tijs, Stef H.) Bargaining set and kernel of big boss games. 91f:90042
 — (with Tijs, Stef H.) Information market games with more than one informed player. 91g:90058
- Rao, Ramash P. see Gupta, Y. P.; et al., (Not in MR)
- Reny, Philip J. see McAfee, R. Preston; et al., 91f:90040
- Rhee, Changyong see Espinosa, María Paz, 91h:90030
- Riley, John G. see Bikhchandani, Sushil, 91m:90047
- Rosenstein, Jeffrey S. (with Genesereth, Michael R.) Deals among rational agents. 91f:90043
- Rosenthal, Robert W. see Fernandez, Raquel, 91d:90033
- Safra, Zvi (with Zhou, Lin; Zilcha, Itzhak) Risk aversion in the Nash bargaining problem with risky outcomes and risky disagreement points. 91g:90059
- Shell, Karl see Peck, James, (Not in MR)
- Shreve, Steven E. see Karatzas, Ioannis; et al., 91h:90031
- Si, Cheng Gong A decomposition algorithm for solving selling problems. (Chinese. English summary) (Not in MR)
- Smeers, Y. see Haurie, Alain; et al., 91f:90039
- Stadje, Wolfgang A full information pricing problem for the sale of several identical commodities. (German summary) 91d:90034
- Stokey, Nancy L. The volume and composition of trade between rich and poor countries. (Not in MR)
- Subha Rao, S. see Chitgopekar, S. S., (Not in MR)
- Syd, Sabir Ahmed The bargaining set for cost allocation games. (Not in MR)
- Seldarovskiy, Ferenc Multiproduct Cournot oligopolies with market saturation. (Not in MR)
- Telser, Lester G. ★ Theories of competition. 91i:90025
- Thomson, William L. see Chun, Youngsub, 91j:90023 and 91k:90049
- Tijs, Stef H. see Potters, Jos A. M.; et al., 91f:90042 and 91g:90058
- Tirole, Jean see Fudenberg, Drew, (Not in MR)
- Toman, Michael A. see Murphy, Frederic H.; et al., 91m:90048
- Vincent, Daniel R. Dynamic auctions. 91c:90036
- Weiss, Howard J. see Murphy, Frederic H.; et al., 91m:90048
- Willinger, Walter see Dalang, Robert C.; et al., 91g:90056
- Xu, Gan-Lin see Karatzas, Ioannis; et al., 91h:90031
- Younis, Yves Competitive equilibrium for incomplete market structures. 91k:90052
- Zaccour, Georges see Haurie, Alain; et al., 91f:90039 and Breton, Michèle; et al., 91i:90024
- Zhou, Lin see Safra, Zvi; et al., 91g:90059
- Zilcha, Itzhak see Safra, Zvi; et al., 91g:90059
- Items with secondary classifications in 90A60
- Anant, T. C. A. (with Mukherji, Badal; Basu, Kaushik) Bargaining without convexity: generalizing the Kalai-Smorodinsky solution. 91m:90206
- Basu, Kaushik see Anant, T. C. A.; et al., 91m:90206
- Bondareva, O. N. A cooperative "supply-demand" game as a model of an unbalanced market. 91g:90189
- Chatterjee, Kalyan (with Samuelson, Larry) Perfect equilibria in simultaneous-offers bargaining. 91k:90031
- Dubey, P. (with Rogawski, Jonathan D.) Inefficiency of smooth market mechanisms. 91b:90044
- Fershtman, Chaim The importance of the agenda in bargaining. 91k:90229
- Fishman, Michael J. (with Hagerty, Kathleen M.) The optimal amount of discretion to allow in disclosure. 91d:90028

- Forbes, Kevin F. see Howe, Eric C., 91d:90024
- Hagerty, Kathleen M. see Fishman, Michael J., 91d:90028
- Howe, Eric C. (with Forbes, Kevin F.) Negotiating over externalities. 91d:90024
- Lewis, Alain A. On the independence of core-equivalence results from Zermelo-Fraenkel set theory. 91f:03135
- Lipman, Barton L. Delaying or deterring entry: a game-theoretic analysis. 91d:90011
- Lo, Andrew W. (with MacKinlay, A. Craig) An econometric analysis of nonsynchronous trading. 91h:62094
- MacKinlay, A. Craig see Lo, Andrew W., 91h:62094
- Mino, Kazuo see Tsutsui, Shunichi, 91h:90142
- Mosetti, Renzo On a possible interpretation of market dynamics based on the internal model principle. 91a:90051
- Mukherji, Badal see Anant, T. C. A.; et al., 91m:90206
- Namatame, Akira Dynamic oligopoly games. 91f:90155
 — (with Tse, Edison) Implicit games: analysis of asymptotic competitive behaviors. 91g:90220
- Rogawski, Jonathan D. see Dubey, P., 91b:90044
- Saario, Vesa (with Sakaguchi, Minoru) Some generalized house-selling problems. 91g:90094
- Sakaguchi, Minoru see Saario, Vesa, 91g:90094
- Samuelson, Larry see Chatterjee, Kalyan, 91k:90031
- Sharkey, William W. Cores of games with fixed costs and shared facilities. 91g:90193
- Shubik, Martin Strategic market game models of exchange economies. 91k:90045
- Stricker, Christophe Arbitrage et lois de martingale. (English summary) [Arbitrage and martingale laws] 91m:60080
- Tse, Edison see Namatame, Akira, 91g:90220
- Tsutsui, Shunichi (with Mino, Kazuo) Nonlinear strategies in dynamic duopolistic competition with sticky prices. 91k:90142
- Vanderbei, Robert J. A martingale system theorem for stock investments. 91k:90025

90A70 Macro-economic policy-making, taxation

- Chn, Mei Lie see Tsaur, Tien Wang, (Not in MR)
- D'Adda, Carlo Production and real income in an open economy. (Italian. English summary) (see 91h:00026)
- Heaton, John C. (with Ogaki, Masao) Efficiency bound calculations for a time series model, with conditional heteroskedasticity. (Not in MR)
- Janssen, Maarten (with Sierksma, Gerard) Price changes resulting from taxes and subsidies in Leontief models. (Czech summary) 91e:90038
- Kale, Jayant R. (with Noe, Thomas H.) Debt-equity choice under asymmetric information and taxes. (Not in MR)
- Noe, Thomas H. see Kale, Jayant R., (Not in MR)
- Ogaki, Masao see Heaton, John C., (Not in MR)
- Roth, Alvin E. Two-sided matching markets: an overview of some theory and empirical evidence. (see 91i:90003)
- Sierksma, Gerard see Janssen, Maarten, 91e:90038
- Tsaur, Tien Wang (with Chu, Mei Lie) Taxation of foreign capital and the optimum tariff. (Not in MR)
- Wilson, John Douglas Optimal public good provision in the Ramsey tax model: a generalization. (Not in MR)

90A80 Resource allocation

- Clark, Colin W. ★ Mathematical bioeconomics. 91c:90037
- Fedoseev, A. V. see Romanko, A. V., 91k:90054
- Hackman, Steven T. (with Platzman, Loren K.) Near-optimal solution of generalized resource allocation problems with large capacities. 91k:90053
- Hurwicz, Leonid (with Weinberger, Hans F.) A necessary condition for decentralization and an application to intertemporal allocation. 91e:90039
- McKelvey, Robert Common property and the conservation of natural resources. 91e:90040
- (Munro, Gordon R.) see Clark, Colin W., 91c:90037
- Platzman, Loren K. see Hackman, Steven T., 91k:90053
- Romanko, A. V. (with Fedoseev, A. V.) ★ Выбор рациональной деятельности периода планирования. (Russian) [Choice of a rational length for a planning period] 91k:90054
- Schäfer, Martin Resource extraction vs. recycling—a differential game approach. 91i:90026
- Weinberger, Hans F. see Hurwicz, Leonid, 91e:90039
- Items with secondary classifications in 90A80
- Gross, L. S. (with Veendorp, E. C. H.) Growth with exhaustible resources and a materials-balance production function. 91a:90038
- Veendorp, E. C. H. see Gross, L. S., 91a:90038

90A99 None of the above, but in this section

- Chiappori, Pierre-André (with Macho-Stadler, Inés) Contrats de travail répétés: le rôle de la mémoire. (English summary) [Repeated labour contracts: the role of memory] (Not in MR)
- Eichhorn, Wolfgang Inequalities in the theory of economic inequality. (see 91f:90006)
- Erşaher, A. Mathematical modeling of the functioning of discrete economic processes. (Russian) (Not in MR)
- Hamminga, B. Theory development: mathematical physics versus mathematical economics. (see 91c:00025)
- Kim, Jae-Cheol Advertising, quality and signaling. (Not in MR)
- Macho-Stadler, Inés see Chiappori, Pierre-André, (Not in MR)
- Maskin, Eric S. (with Tirole, Jean) The principal-agent relationship with an informed principal: the case of private values. 91c:90038
- Rey, Patrick (with Salanié, Bernard) Long-term, short-term and renegotiation: on the value of commitment in contracting. (Not in MR)
- Salanié, Bernard see Rey, Patrick, (Not in MR)
- Tirole, Jean see Maskin, Eric S., 91c:90038

Villar, Antonio Nonlinear operators in Euclidean spaces: an elementary "users guide" for economists. 91d:90035

Welle, Aleksander (with Zatoň, Wojciech) Simulation of econometric models with the Gauss-Seidel method. (Czech summary) 91h:90033

Zatoň, Wojciech see Welle, Aleksander, 91h:90033

Items with secondary classifications in 90A99

Castaing, Charles Sur la décomposition de Slaby: applications aux problèmes de convergence en probabilités, économie mathématique, théorie du contrôle, minimisation. [The Slaby decomposition: applications to problems of convergence in probability theory, mathematical economics, control theory, minimization] 91g:49004

Cifarelli, Donato Michele (with Regazzini, Eugenio) On a general definition of concentration function. 91h:62026

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Gao, Long Ying (with Wang, Min) Pansystems logical conservation of reduction and clustering of panweighted networks, and its application in distinguishing economic regions. (Chinese. English summary) 91b:93012

Klebanov, L. B. (with Melamed, I. A.; Rachev, Svetlozar T.) On the products of a random number of random variables in connection with a problem from mathematical economics. 91i:60098

Levina, T. V. see Dubov, Yu. A.; et al., (Not in MR)

Melamed, I. A. see Klebanov, L. B.; et al., 91i:60098

Mukhamediev, B. M. Multistage two-person games with control parameters under constraints and a second-order objective function. (Russian) 91c:90137

Rachev, Svetlozar T. see Klebanov, L. B.; et al., 91i:60098

Regazzini, Eugenio see Cifarelli, Donato Michele, 91h:62026

Shmul'yan, B. L. see Dubov, Yu. A.; et al., (Not in MR)

Simmons, P. Comparative statics and relative convexity. 91h:90085

Wang, Min see Gao, Long Ying, 91b:93012

90Bxx Operations research and management science

Alj, A. (with Faure, Robert) ★ Guide de la recherche opérationnelle. Tome 2. (French) [Guide to operations research. Vol. 2] 91g:90061

(Brahimi, Ch.) see Alj, A., 91g:90061

Faure, Robert see Alj, A., 91g:90061

Kawaguchi, Tsuyoshi (with Kyan, Seiki; Onaga, Kenji) Finding a feasible schedule on a tree-connected processor system. (Not in MR)

Kyan, Seiki see Kawaguchi, Tsuyoshi; et al., (Not in MR)

(Lemaire, Bernard) see Alj, A., 91g:90061

(Lignelet, P.) see Alj, A., 91g:90061

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Items with secondary classifications in 90Bxx

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Burkov, V. N. (with Danev, B.; Enaleev, A. K.; Kondrat'ev, V. V.; Naneva, T. B.; Shchepkin, A. V.) ★ Большие системы: моделирование организационных механизмов. (Russian) [Large-scale systems for modeling organizational mechanisms] 91a:90003

Danev, B. see Burkov, V. N.; et al., 91a:90003

Deming, W. Edwards ★ Sample design in business research. 91g:62010

Eglese, R. W. Simulated annealing: a tool for operational research. 91d:90076

Enaleev, A. K. see Burkov, V. N.; et al., 91a:90003

Faure, Robert see Alj, A., 91g:90060

Kondrat'ev, V. V. see Burkov, V. N.; et al., 91a:90003

(Lemaire, Bernard) see Alj, A., 91g:90060

(Lemstra, Jan Karel) see Twenty-five years of operations research in The Netherlands, 91a:90002

(de Leve, Gijb) see Twenty-five years of operations research in The Netherlands, 91a:90002

(Lignelet, P.) see Alj, A., 91g:90060

Naneva, T. B. see Burkov, V. N.; et al., 91a:90003

Shchepkin, A. V. see Burkov, V. N.; et al., 91a:90003

(Tijms, H. C.) see Twenty-five years of operations research in The Netherlands, 91a:90002

(Volgenant, Ton) see Twenty-five years of operations research in The Netherlands, 91a:90002

Items listed otherwise than by author

Twenty-five years of operations research in The Netherlands ★ Twenty-five years of operations research in The Netherlands. 91a:90002

90B05 Inventory, storage, reservoirs

Aly, Adel A. (with Rahali, Boubekeur) Analysis of a bicriteria location model. (Not in MR) Arivarigann, G. see Kalpakam, S., 91e:90027 and 91j:90026

Bastian, Michael Lot-trees: a unifying view and efficient implementation of forward procedures for the dynamic lot-size problem. 91b:90070

Bector, C. R. see Goel, S.; et al., (Not in MR)

Berkin, Defne see Parlar, Mahmut, (Not in MR)

Bradford, John W. (with Sugrue, Paul K.) Inventory rotation policies for slow moving items. (Not in MR)

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Chakrabarty, R. see Mukherjee, S. P., 91a:90060

Chand, Suresh (with Sethi, Suresh P.; Proth, Jean-Marie) Existence of forecast horizons in undiscounted discrete-time lot size models. 91m:90050

Choudhuri, Kripasindhu see Goswami, Adrijit, (Not in MR)

Cheng, Kan see Yan, Ying, (Not in MR)

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Drezner, Zvi see Pasternack, Barry A., (Not in MR)

Fine, Charles H. see Caulkins, Jonathan P., (Not in MR)

Gerchak, Yigal Analytical comparative statics for the continuous review inventory model. (Not in MR)

— see also Henig, Mordechai I., 91j:90024

Goel, S. (with Gupta, Y. P.; Bector, C. R.) Impact of inflation on economic quantity discount schedules to increase vendor profits. (Not in MR)

Goswami, Adrijit (with Chaudhuri, Kripasindhu) EOQ model for an inventory with a linear trend in demand and finite rate of replenishment considering shortages. (Not in MR)

Goyal, S. K. (with Gunasekaran, A.) Multi-stage production-inventory systems. (Not in MR)

— see also Gunasekaran, A.; et al., (Not in MR)

Gunasekaran, A. (with Goyal, S. K.; Subash Babu, A.; Ramaswamy, N.) Optimization of a multi-stage production-inventory system with significant set-up operation time. (Not in MR)

— see also Goyal, S. K., (Not in MR)

Gupta, Y. P. see Goel, S.; et al., (Not in MR)

Henig, Mordechai I. (with Gerchak, Yigal) The structure of periodic review policies in the presence of random yield. 91j:90024

Johnston, Robert E. Reducing cardinality in linear programmed cutting stock solutions. (Not in MR)

Kabbaj, F. (with Menaldi, José-Luis; Rofman, E.) Variational approach to serial multilevel production/inventory systems. 91j:90025

Kain, Naoto (with Osaki, Shunji) Optimal ordering policies with two types of randomized lead times. 91a:90057

Kalpakam, S. (with Arivarigann, G.) On exhibiting inventory systems with Erlangian lifetimes under renewal demands. 91i:90027

— (with Arivarigann, G.) Inventory system with random supply quantity. (German summary) 91j:90026

Katehakis, Michael N. (with Melolidakis, Costis) On stochastic optimality of policies in first passage problems. 91h:90034

Klein, Cerry M. (with Ventura, Jose A.; Maloney, Bill M.) Linear relationships for constrained multiple-item inventory systems. (Not in MR)

Köpper, Franz ★ Sequentialtests für die Stichprobeninventur. (German) [Sequential tests for sample inventory] 91h:90071

Koti, Kallappa M. Minimax policies for a two-location/two-product inventory system. 91a:90058

Krishnamoorthy, A. see Lakshmy, B., 91a:90059 and Manoharan, M., 91b:90072

Lakshmy, B. (with Krishnamoorthy, A.) An inventory system with Markov dependent reordering levels. 91a:90059

Langenhoff, L. J. G. (with Zijm, W. H. M.) An analytical theory of multi-echelon production/distribution systems. 91m:90052

Langston, Michael A. (with Morford, Michael P.) Resource allocation under limited sharing. 91m:90053

Lederer, Phillip J. (with Thisse, Jacques-François) Competitive location on networks under delivered pricing. 91c:90039

Lee, Heeseok Optimizing an integrated inventory system under deterministic demand. (Not in MR)

Li, Mao Qing Three problems about stochastic discrete inventory models. (Chinese. English summary) (Not in MR)

Liu, Li Ming (S.) continuous review models for inventory with random lifetimes. (Not in MR)

Lovejoy, William S. Myopic policies for some inventory models with uncertain demand distributions. 91c:90040

Mahmoud, Magdi S. see Younis, Mahmoud A., (Not in MR)

Maloney, Bill M. see Klein, Cerry M.; et al., (Not in MR)

Manoharan, M. (with Krishnamoorthy, A.) Markov renewal theoretic analysis of a perishable inventory system. 91b:90072

Martin, Gene E. (with Wang, Min-Chiang) Estimation technique for nonstationary parameters with application to disposal of inventories subject to obsolescence. (Not in MR)

Melolidakis, Costis see Katehakis, Michael N., 91h:90034

Menaldi, José-Luis see Kabbaj, F.; et al., 91j:90025

Mokaddis, G. S. (with Tawfik, M. L.) Some extensions of one stream-storage model. 91h:90035

Morford, Michael P. see Langston, Michael A., 91m:90053

Mukherjee, S. P. (with Chakrabarty, R.) A decision theory analysis of an inventory model for a finite-life item. 91a:90060

— (with Roychowdhury, Soma) A random demand inventory model for substitutable commodities. (Not in MR)

Osaki, Shunji see Kain, Naoto, 91a:90057

Pai, Manisha A sequential inventory model with random production and an available outer source for necessary procurement. (Not in MR)

Parlar, Mahmut (with Berkin, Defne) Future supply uncertainty in EOQ models. (Not in MR)

Pasternack, Barry A. (with Drezner, Zvi) Optimal inventory policies for substitutable commodities with stochastic demand. (Not in MR)

Perry, David (with Posner, M. J. M.) Control of input and demand rates in inventory systems of perishable commodities. 91c:90041

Posner, M. J. M. see Perry, David, 91c:90041

Postan, M. Ya. see Voevodskii, E. N., 91f:90044

Proth, Jean-Marie see Chand, Suresh; et al., 91m:90050

Rahali, Boubekeur see Aly, Adel A., (Not in MR)

Ramaswamy, N. see Gunasekaran, A.; et al., (Not in MR)

Robinson, Lawrence W. Optimal and approximate policies in multiperiod, multilocation

- inventory models with transshipments. **91a:90061**
- Rofman, E. *see* Kabbaj, F.; et al., **91j:90025**
- Rosenblatt, Meir J. (with Rothblum, Uriel G.) On the single resource capacity problem for multi-item inventory systems. (Not in MR)
- Rothblum, Uriel G. *see* Rosenblatt, Meir J., (Not in MR)
- Roychowdhury, Soma *see* Mukherjee, S. P., (Not in MR)
- Rubafskii, G. B. A time elimination method in a dynamic problem of optimal inventory control. (Russian) **91k:90055**
- Schultz, Carl R. On the optimality of the $(S-1, S)$ policy. **91m:90054**
- Sethi, Suresh P. *see* Chand, Suresh; et al., **91m:90050**
- Shah, V. R. (with Sreehari, M.) Optimal ordering policy to achieve a desired level of profit when the lot contains defective items. (Not in MR)
- Shine, Yih Cheung An inventory model for perishable items in a lot-size system with quantity discounts. (Not in MR)
- Sreehari, M. *see* Shah, V. R., (Not in MR)
- Subash Babu, A. *see* Gunasekaran, A.; et al., (Not in MR)
- Sugrue, Paul K. *see* Bradford, John W., (Not in MR)
- Tawfik, M. L. *see* Mokaddis, G. S., **91h:90035**
- Thiisse, Jacques-François *see* Lederer, Phillip J., **91c:90039**
- Tijms, H. C. Good probabilistic ideas are often simple. (see **91a:90002**)
- Ventura, Jose A. *see* Klein, Cerry M.; et al., (Not in MR)
- Voevodskii, E. N. (with Postan, M. Ya.) A stochastic model for storage of reserves taking into account transportation. (Russian. English summary) **91f:90044**
- Wang, Hsu-Pin *see* Xu, Haiping, (Not in MR)
- Wang, Min-Chiang *see* Martin, Gene E., (Not in MR)
- Xu, Haiping (with Wang, Hsu-Pin) An economic ordering policy model for deteriorating items with time proportional demand. (Not in MR)
- Yan, Ying (with Cheng, Kan) An introduction to inventory theory. (Chinese) (Not in MR)
- Younis, Mahmoud A. (with Mahmoud, Magdi S.) Optimal lot-sizing in multi-item production inventories. (Not in MR)
- Zijm, W. H. M. *see* Langenhoff, L. J. G., **91m:90052**
- Items with secondary classifications in 90B05**
- Attia, F. A. Resolvent operators of Markov processes and their applications in the control of a finite dam. **91a:60185**
- Baker, Kenneth R. Lot-sizing procedures and a standard data set: a reconciliation of the literature. (Not in MR)
- Coffman, E. G., Jr. (with Fayolle, Guy; Jacquet, Philippe; Robert, Philippe) Largest-first sequential selection with a sum constraint. **91f:68082**
- Drezner, Zvi (with Schaible, Siegfried; Simchi-Levi, David) Queueing-location problems on the plane. (Not in MR)
- Dror, Moshe *see* Kreimer, Joseph, **91a:60124**
- Fayolle, Guy *see* Coffman, E. G., Jr.; et al., **91f:68082**
- Federgruen, Avi Some approximation approaches in large-scale Markov decision problems: applications to one warehouse multiple retailer systems. (see **91a:90002**)
- Glynn, John E. A discrete-time storage process with a general release rule. **91a:60269**
- Idrissi, H. (with Lefebvre, O.; Michelot, C.) Applications and numerical convergence of the partial inverse method. **91f:90098**
- Jacquet, Philippe *see* Coffman, E. G., Jr.; et al., **91f:68082**
- Kaspi, Haya (with Perry, David) On a duality between a non-Markovian storage/production process and a Markovian dam process with state-dependent input and output. **91c:60137**
- Kipnis, C. (with Robert, Philippe) A dynamic storage process. **91c:60138**
- Kolen, A. W. J. Constructing valid inequalities for combinatorial optimization problems. **91c:90090**
- Kreimer, Joseph (with Dror, Moshe) The monotonicity of the threshold detection probability in a stochastic accumulation process. **91a:60124**
- Lefebvre, O. *see* Idrissi, H.; et al., **91f:90098**
- Michelot, C. *see* Idrissi, H.; et al., **91f:90098**
- Perry, David *see* Kaspi, Haya, **91c:60137**
- Rhee, WanSoo T. (with Talagrand, Michel) The complete convergence of best fit decreasing. **91a:68138**
- (with Talagrand, Michel) The complete convergence of first fit decreasing. **91a:68139**
- A note on optimal bin packing and optimal bin covering with items of random size. **91h:60018**
- Robert, Philippe *see* Kipnis, C., **91c:60138** and **Coffman, E. G., Jr.; et al., 91f:68082**
- Rubafskii, G. B. Deterministic model of inventory control with periodic fluctuations in prices and demand. **91h:90039**
- Integer minimization of fractional-separable functions. (Russian) **91k:90125**
- Sandbothe, Richard A. (with Thompson, Gerald L.) A forward algorithm for the capacitated lot size model with stockouts. (Not in MR)
- Schaible, Siegfried *see* Drezner, Zvi; et al., (Not in MR)
- Simchi-Levi, David *see* Drezner, Zvi; et al., (Not in MR)
- Stadje, Wolfgang A stochastic model for the circulation of restorable materials. (German summary) **91c:60086**
- Talagrand, Michel *see* Rhee, WanSoo T., **91a:68138** and **91a:68139**
- Thompson, Gerald L. *see* Sandbothe, Richard A., (Not in MR)
- Weeds, P. J. Comparing fragmentary and integral production and inventory control concepts. **91h:90102**
- Zakusilo, O. K. General storage processes with additive input. **91k:60110**
- Blumenfeld, Dennis E.** (with Burns, Lawrence D.; Daganzo, Carlos F.) Synchronizing production and transportation schedules. (Not in MR)
- Brimberg, Jack (with Love, Robert F.) Estimating travel distances by the weighted l_p norm. **91m:90055**
- Burns, Lawrence D. *see* Blumenfeld, Dennis E.; et al., (Not in MR)
- Chen, Bistong (with Harker, Patrick T.) Two moments estimation of the delay on single-track rail lines with scheduled traffic. (Not in MR)
- Chen, Hui (with Zhou, Jia Qi) Weak link sets of networks and their application to reliability evaluation. (Chinese. English summary) (Not in MR)
- Chen, Sen Fa *see* Zhou, Jia Qi, **91g:90064**
- Climaco, João C. Namorado *see* Tralhão, Lino M.; et al., (Not in MR)
- Craveirinha, José F. *see* Tralhão, Lino M.; et al., (Not in MR)
- Daganzo, Carlos F. *see* Blumenfeld, Dennis E.; et al., (Not in MR)
- Das, Chakradhar (with Patel, D. K.) The signature method for some classes of transportation problem. **91k:90056**
- Daskin, Mark S. *see* Rose, Geoffrey; et al., **(91i:90029)**
- Dyer, Martin E. (with Frieze, A. M.) On patching algorithms for random asymmetric travelling salesman problems. **91f:90045**
- Flisk, C. S. Traffic assignment and the lane choice problem. **91h:90036**
- Friedman, Moshe F. Decision analysis and optimality in air traffic control conflict resolution. II. Optimal heading (vectoring) control in a linear planar configuration. (Not in MR)
- Frieze, A. M. *see* Dyer, Martin E., **91f:90045**
- Gartner, Nathan H. *see* Transportation and traffic theory, **91i:90029**
- Hansen, Pierre *see* de Palma, André; et al., (Not in MR)
- Harker, Patrick T. *see* Chen, Bistong, (Not in MR)
- He, Sheng Wu (with Wang, Jia Gang) On the optimal parking problem. (Chinese summary) **91g:90062**
- (Herman, Robert) *see* Transportation and traffic theory, **91i:90029**
- Hisal, Mamoru Delay-minimizing control and bandwidth-maximizing control of coordinated traffic signals by dynamic programming. (see **91f:90029**)
- Ibáñez, M. N. An algorithm for solving a problem of the reallocation of resources by means of a natural exchange in a two-level system. (Russian. Kazakh summary) (Not in MR)
- Janáček, Jaroslav A vehicle routing problem in network clusters. (Russian and Slovak summaries) (Not in MR)
- Kindervater, G. A. P. (with Lenstra, Jan Karel; Savelsbergh, M. W. P.) Parallel local search for the time-constrained traveling salesman problem. **91g:90063**
- Koppelman, Frank S. *see* Rose, Geoffrey; et al., **(91i:90029)**
- Labbé, Martine *see* de Palma, André; et al., (Not in MR)
- Lenstra, Jan Karel *see* Kindervater, G. A. P.; et al., **91g:90063**
- Love, Robert F. *see* Brimberg, Jack, **91m:90055**
- Moiseenko, G. E. Optimization of transportation flows in regional transportation networks. (Not in MR)
- Möller, Klaus Calculations of optimum fixed-time signal programs. (see **91i:90029**)
- de Palma, André (with Hansen, Pierre; Labbé, Martine) Commuters' paths with penalties for early or late arrival time. (Not in MR)
- Patel, D. K. *see* Das, Chakradhar, **91k:90056**
- Rose, Geoffrey (with Koppelman, Frank S.; Daskin, Mark S.) Analysis of the effects of parameter estimation error on transportation network equilibrium models. (see **91i:90029**)
- Savelsbergh, M. W. P. A parallel insertion heuristic for vehicle routing with side constraints. (Not in MR)
- *see also* Kindervater, G. A. P.; et al., **91g:90063**
- Schoen, Fabio *see* Betró, Bruno; et al., **(91i:90029)**
- Smith, Michael J. Traffic control and traffic assignment in a signal-controlled network with queueing. (see **91i:90029**)
- Solomon, D. I. A mathematical model for constructing ring routes. (Russian) **91m:90056**
- Mathematical models and algorithms for solving a problem of fixing routes for autotransport businesses. (Russian) **91i:90028**
- Speranza, M. Grazia *see* Betró, Bruno; et al., **(91i:90029)**
- Stollor, Todor A. (with Stollorova, Krasimira P.) Piece-wise optimal control in transport allocation problem. (Not in MR)
- Stollorova, Krasimira P. *see* Stollor, Todor A., (Not in MR)
- Sun, You Min A normed space arising from problems of distribution of materials and products. (Chinese) **91f:90046**
- Tielis, Vytautas Gradient algorithms for discrete resource allocation. (Russian. English and Lithuanian summaries) **91k:90057**
- Tralhão, Lino M. (with Craveirinha, José F.; Climaco, João C. Namorado) Model of traffic flow and blocking probability analysis of an m -asymmetrical two stage incomplete link system. (Not in MR)
- Turnquist, Mark A. *see* Beaulieu, George J., (Not in MR)
- Venkataramanan, M. A. (with Wilson, Kathryn A.) A branch-and-bound algorithm for flow-path design of automated guided vehicle systems. (Not in MR)
- Wang, Jia Gang *see* He, Sheng Wu, **91g:90062**
- Wilson, Kathryn A. *see* Venkataramanan, M. A., (Not in MR)
- (Wilson, Nigel H. M.) *see* Transportation and traffic theory, **91i:90029**
- Zhou, Jia Qi *see* Chen, Hui, (Not in MR)
- Zhou, Jia Qi (with Chen, Sen Fa) Hierarchical modeling for urban traffic signal control systems. (Chinese. English summary) **91g:90064**

Items listed otherwise than by author

Cambridge, MA ★ Transportation and traffic theory. **91i:90029**

Symposium:

Transportation and Traffic Theory ★ Transportation and traffic theory. **91i:90029**

Transportation and traffic theory ★ Transportation and traffic theory. **91i:90029**

Items with secondary classifications in 90B06

Bartholdi, John J., III *see* Platzman, Loren K., **91k:90124**

Bunch, David S. Estimability in the multinomial probit model. (Not in MR)

Burkard, Rainer E. Special cases of travelling salesman problems and heuristics. **91h:90069**

90B06 Transportation, logistics

Beaulieu, George J. (with Turnquist, Mark A.) A model for fleet sizing and vehicle allocation. (Not in MR)

Bell, Michael G. H. The estimation of origin-destination matrices by constrained generalized least squares. (Not in MR)

Betró, Bruno (with Schoen, Fabio; Speranza, M. Grazia) A stochastic environment for the adaptive control of single intersections. (see **91i:90029**)

- Dietrich, Brenda L. Monge sequences, antimatroids, and the transportation problem with forbidden arcs. 91h:90070
- Do Zui Chin' see Kovaliv, M. M., 91h:90053
- Durier, Roland On Pareto optima, the Fermat-Weber problem, and polyhedral gauges. 91h:90090
- George, John A. see Intrator, Jacob, 91h:90108
- Goddyn, Luis A. Quantizers and the worst-case Euclidean traveling salesman problem. 91h:90121
- Hakimi, S. Louis see Tuan, Tai-Ching, 91h:68086
- Hearn, D. W. see Lawphongpanich, Siriphong, 91h:49015
- Intrator, Jacob (with George, John A.) A dual method for the transportation problem using shortest path updates. 91h:90108
- Ishii, Hiroaki¹ see Tada, Minoru; et al., 91h:90059
- Jeromin, Bernd Untersuchungen zu einer Dualisierung des Rundreiseproblems. [Investigations on a dualization of the traveling salesman problem] 91f:90092
- Johnson, Ellis L. On binary group problems having the Fulkerson property. 91f:90086
- de Kort, J. B. J. M. Lower bounds for symmetric K -peripatetic salesman problems. 91h:90118
- Kovaliv, M. M. (with Do Zui Chin') A problem of parametric convex discrete optimization. (Russian) 91h:90053
- Lawphongpanich, Siriphong (with Hearn, D. W.) Benders decomposition for variational inequalities. 91h:49015
- Makowski, Armand M. see Rosberg, Zvi, 91h:60111
- Nishida, Toshio see Tada, Minoru; et al., 91h:90059
- Okstani, Iwao The Kalman filtering approaches in some transportation and traffic problems. (see 91h:90029)
- Platzman, Loren K. (with Bartholdi, John J., III) Spacefilling curves and the planar travelling salesman problem. 91h:90124
- Potters, Jos A. M. A class of traveling salesman games. 91h:90232
- Quinzil, Martine (with Thisse, Jacques-François) On the optimality of central places. 91h:90097
- Romero, David Easy transportation-like problems on K -dimensional arrays. 91h:90109
- Rosberg, Zvi (with Makowski, Armand M.) Optimal routing to parallel heterogeneous servers—small arrival rates. 91h:60111
- Tada, Minoru (with Ishii, Hiroaki¹; Nishida, Toshio) Fuzzy transportation problem with integral flow. 91h:90059
- Thisse, Jacques-François see Quinzil, Martine, 91h:90097
- Tuan, Tai-Ching (with Hakimi, S. Louis) River routing with a small number of jogs. 91h:68086
- Volgenant, A. Partial contraction in Christofides' lower bound for the traveling salesman problem. 91f:90094
- Warren, Richard H. Classes of matrices for the traveling salesman problem. 91h:15020
- ### 90B10 Flows in networks, deterministic
- Aldazade, K. R. Investigation of nonlinear optimization problems of network structure. 91f:90047
- Akhleblinskii, M. Yu. (with Konstantinov, M. S.) Choice of strategy for servicing of objects in a certain parametric problem of M travelling salesmen. (Not in MR)
- Anily, S. (with Federgruen, Avi) A class of Euclidean routing problems with general route cost functions. 91h:90073
- Arlinghaus, Sandra Lach ★ An atlas of Steiner networks. 91a:90062
- Assad, Arjang A. Modeling and implementation issues in vehicle routing. (see 91h:90041)
- see also Nag, Barindra; et al., (91h:90041) and Vehicle routing: methods and studies, 91h:90041
- Aykin, Turgut On: "A quadratic integer program for the location of interacting hub facilities" [European J. Oper. Res. 32 (1987), no. 3, 393–404] by M. E. O'Kelly. (Not in MR)
- Balich, O. A. (with Pershin, O. Yu.) Synthesis of an optimal production-transportation system with acyclic graph of the communication network and related problems. (Not in MR)
- Baker, Edward K. see Solomon, Marius M.; et al., (91h:90041)
- Ball, Michael O. Allocation/routing: models and algorithms. (see 91h:90041)
- Barahona, Francisco On via minimization. 91h:90074
- Barda, O. Haluk (with Dupuis, Joseph; Lencioni, Pierre) Multicriteria location of thermal power plants. (Not in MR)
- Bardadyn, V. A. Minimax paths and minimal spanning trees. (Russian) 91h:90058
- Berge, Claude Optimisation and hypergraph theory. (Not in MR)
- Berman, Oded (with Einav, D.; Handler, G.) The constrained bottleneck problem in networks. 91h:90063
- Bizzarri, A. R. Convergence properties of a modified Hopfield-Tank model. (Not in MR)
- Boland, N. (with Mees, A. I.) New methods for multi-commodity flows. 91d:90036
- Bolkan, Waverly E. see Nygard, Kendall E.; et al., (91h:90041)
- Carey, Malachy Extending and solving a multiperiod congested network flow model. 91d:90037
- Cartier, J. (with Villon, P.) A new heuristic for the traveling salesman problem. (French summary) (Not in MR)
- Carpaneto, G. (with Fischetti, Matteo; Toth, Paolo) New lower bounds for the symmetric travelling salesman problem. 91a:90064
- Casco, Daniel O. (with Golden, Bruce L.; Wais, Edward A.) Vehicle routing with backhauls: models, algorithms, and case studies. (see 91h:90041)
- Chang, Jui Hsiung see Ko, M. T.; et al., 91a:90072
- Chandry, Sohail S. (with Kincaid, Rex K.) Comments on: "Facility location problem on a network under multiple criteria—fuzzy set theoretic approach" [Internat. J. Systems Sci. 19 (1988), no. 12, 2555–2559; MR 89j:90102] by J. R. Rao and K. Saraswati. 91h:90037
- Ciurea, E. Universal maximal dynamic flows with traversal time nonstationary. (Romanian summary) 91a:90065
- Conn, Andrew R. see Gamble, A. B.; et al., 91h:90057
- Dejax, Pierre see Haouari, Mohamed; et al., (Not in MR)
- De Souza, C. C. (with Ribeiro, C. C.) A tight worst case bound for the performance ratio of heuristics for the minimum rectilinear Steiner tree problem. (German summary) (Not in MR)
- Desrochers, Martin (with Lenstra, Jan Karel; Savelsbergh, M. W. P.; Soumis, François) Vehicle routing with time windows: Optimization and approximation. (see 91h:90041)
- see also Haouari, Mohamed; et al., (Not in MR)
- Dinkel, John J. see Venkataramanan, M. A.; et al., (Not in MR)
- Divoky, James J. (with Hung, Ming S.) Performance of shortest path algorithms in network flow problems. (Not in MR)
- Duin, C. (with Volgenant, A.) Heuristics for the hierarchical network design problem. 91h:90075
- Dupuis, Joseph see Barda, O. Haluk; et al., (Not in MR)
- Einav, D. see Berman, Oded; et al., 91a:90063
- Eiselt, Horst A. A computational study of minimax flow centers in trees. (German summary) 91h:90076
- Faaland, Bruce (with Kim, Ki Seog; Schmitt, Tom) A new algorithm for computing the maximal closure of a graph. 91a:90066
- Federgruen, Avi see Anily, S., 91h:90073
- Ferapontov, E. V. see Malashenko, Yu. E.; et al., 91g:90068
- Finbow, A. S. (with Hartnell, Bert L.) On designing a network to defend against random attacks of radius two. 91g:90065
- Fischetti, Matteo (with Toth, Paolo) An additive approach for the optimal solution of the prize-collecting travelling salesman problem. (see 91h:90041)
- see also Carpaneto, G.; et al., 91a:90064
- Friesz, Terry L. (with Luque, Javier; Tobin, Roger L.; Wie, Byung-Wook) Dynamic network traffic assignment considered as a continuous time optimal control problem. 91g:90066
- Fujii, Susumu see Hohzaki, Ryusuke; et al., (Not in MR)
- Fukuda, Toshio see Watanabe, Keigo; et al., (Not in MR)
- Fukushima, Masao see Nagamochi, Hiroshi; et al., 91h:90079
- Gamble, A. B. (with Conn, Andrew R.; Pulleyblank, William R.) A network penalty method. 91h:90057
- Gan, Huiling (with Johnson, Ellis L.) Four problems on graphs with excluded minors. 91a:90067
- Ganago, A. B. A problem on the maximum flow on a linear network with variable node intensities. (Russian) 91h:90077
- Gibbens, R. J. (with Kelly, Frank P.) Dynamic routing in fully connected networks. (Not in MR)
- Ginsadi, E. Kh. The traveling salesman problem on a maximum: conditions for the asymptotic accuracy of the algorithm "go to the most remote city". (Russian) (Not in MR)
- Goldberg, Andrew V. (with Tarjan, Robert Endre) Finding minimum-cost circulations by canceling negative cycles. 91h:90058
- (with Tarjan, Robert Endre) Finding minimum-cost circulations by successive approximation. 91d:90038
- Golden, Bruce L. see Casco, Daniel O.; et al., (91h:90041); Nag, Barindra; et al., (91h:90041) and Vehicle routing: methods and studies, 91h:90041
- Goldfarb, Donald (with Hao, Jianxiu; Kai, Sheng-Ron) Efficient shortest path simplex algorithms. 91h:90027
- Greenberg, Peter see Nygard, Kendall E.; et al., (91h:90041)
- Gunfield, Dan Very simple methods for all pairs network flow analysis. 91g:90067
- Hagstrom, Jane Nichols Directed network reliability: domination and computing coefficients of the success-marginal expansion. 91h:90039
- Haimovich, M. (with Rinnooy Kan, Alexander H. G.; Stougie, L.) Analysis of heuristics for vehicle routing problems. (see 91h:90041)
- Hammer, Peter L. (with Maffray, Frédéric; Queyranne, Maurice) Cut-threshold graphs. 91h:90059
- Handler, G. see Berman, Oded; et al., 91a:90063
- Hansen, Pierre (with Labbé, Martine; Nicolas, Brigitte) The continuous center set of a network. 91h:90060
- Hao, Jianxiu see Goldfarb, Donald; et al., 91h:90027
- Haouari, Mohamed (with Dejax, Pierre; Desrochers, Martin) Les problèmes de tournées avec contraintes de fenêtres de temps, l'état de l'art. (English summary) [The state of the art in vehicle routing and scheduling problems with time-window constraints] (Not in MR)
- Hartnell, Bert L. see Finbow, A. S., 91g:90065
- Hohmann, Chr. (with Kern, Walter) Optimization and optimality test for the max-cut problem. (German summary) 91h:90078
- Hohzaki, Ryusuke (with Fujii, Susumu; Sando, Hiroaki) A solution for the shortest time path problem with time-windows of arrival and departure time constraints. (Not in MR)
- Huang, Ru Ji Primary subhypergraph analysis method for hypernetworks. 91a:90068
- Hung, Ming S. see Divoky, James J., (Not in MR)
- Hwang, F. K. see Trietsch, Dan, 91h:90084
- Ibaraki, Toshihide see Nagamochi, Hiroshi; et al., 91h:90079 and 91f:90048
- Ishii, Hiroaki¹ see Tada, Minoru; et al., 91h:90059
- Iyer, Ananth V. (with Jarvis, John J.; Ratliff, H. Donald) Hierarchical solution of network flow problems. 91h:90061
- Jarvis, John J. see Iyer, Ananth V.; et al., 91h:90061
- Jeromin, Bernd (with Körner, Frank) A note on dual solutions of the assignment problem in connection with the traveling salesman problem. 91a:90069
- Johnson, Ellis L. see Gan, Huiling, 91a:90067
- Jurkiewicz, Eva M. Optimal and stable packet-flow in bicriterial optimization of S/F communication network. (Russian and Polish summaries) (Not in MR)
- Kai, Sheng-Ron see Goldfarb, Donald; et al., 91h:90027
- Kelly, Frank P. see Gibbens, R. J., (Not in MR)
- Kern, Walter see Hohmann, Chr., 91h:90078
- Kim, Ki Seog see Faaland, Bruce; et al., 91a:90066
- Kincaid, Rex K. (with Maimon, Oded Z.) A note on locating a central vertex of a 3-act graph. 91a:90070
- (with Lowe, Timothy J.) Locating an absolute center on graphs that are almost trees. 91a:90071
- see also Chandry, Sohail S., 91h:90037

- Ko, M. T. (with Lee, R. C. T.; Chang, Jui Hsiung) Rectilinear m -center problem. 91a:90072
- Konstantinov, M. S. see Akhleshin, M. Ya. (Not in MR)
- Körner, Frank see Jeromin, Bernd, 91a:90069
- Lahahn, R. Mixed telephone problems. 91i:90030
- Labbe, Martine Location of an obnoxious facility on a network: a voting approach. 91a:90073
- see also Hansen, Pierre; et al., 91m:90060
- Laporte, Gilbert Location-routing problems. (see 91e:90041)
- Lee, R. C. T. see Ko, M. T.; et al., 91a:90072
- Lencioni, Pierre see Barda, O. Hahki; et al., (Not in MR)
- Lenstra, Jan Karel see Desrochers, Martin; et al., (91e:90041)
- Leung, Janny M. Y. (with Magnanti, Thomas L.) Valid inequalities and facets of the capacitated plant location problem. 91c:90042
- Li, Guo Jun Finding 1-centers in networks including cycles. I. The single-cycle case. (Chinese) (Not in MR)
- Li, Ren Hao The shortest path in the 2-norm sense in a network with weighted vectors. (Chinese. English summary) 91j:90028
- Liebling, Th. M. see Troyen, M., (91f:90005)
- Lowe, Timothy J. see Kincaid, Rex K., 91a:90071
- Laque, Javier see Friesz, Terry L.; et al., 91g:90066
- Maffray, Frédéric see Hammer, Peter L.; et al., 91m:90059
- Magnanti, Thomas L. see Leung, Janny M. Y., 91c:90042
- Maimon, Oded Z. see Kincaid, Rex K., 91a:90070
- Malashenko, Yu. E. (with Rogozhin, V. S.; Ferafontov, E. V.) Deterministic models for estimating viability and vulnerability of networks. 91g:90068
- (with Novikova, N. M.) The generalized problem of analyzing a multicommodity network. 91m:90062
- Martinez, Ivan A stochastic algorithm for the generalized traveling salesman problem. (Czech. English summary) 91d:90040
- Matula, David W. see Shahrokhi, Farhad, 91j:90029
- Mees, A. I. see Boland, N., 91d:90036
- Miyahara, Hideo see Yokohira, Tokumi, 91c:90047
- Monma, Clyde L. (with Munson, Beth Spellman; Pulleyblank, William R.) Minimum-weight two-connected spanning networks. 91d:90041
- Mote, John see Venkataramanan, M. A.; et al., (Not in MR)
- Müller, Christian Algorithms for the maxflow problem with one side constraint. (see 91f:90006)
- Munson, Beth Spellman see Monma, Clyde L.; et al., 91d:90041
- Nag, Barindra (with Golden, Bruce L.; Assad, Arjang A.) Vehicle routing with site dependencies. (see 91e:90041)
- Nagamochi, Hiroshi (with Ibaraki, Toshihide) Multicommodity flows in certain planar directed networks. 91f:90048
- (with Fukushima, Masao; Ibaraki, Toshihide) Relaxation methods for the strictly convex multicommodity flow problem with capacity constraints on individual commodities. 91h:90079
- Nakayama, Akira A polynomial-time binary search algorithm for the maximum balanced flow problem. 91a:90074
- Nicolas, Brigitte see Hansen, Pierre; et al., 91m:90060
- Nishida, Toshio see Tada, Minoru; et al., 91k:90059
- Nishizeki, Takao see Suzuki, Hitoshi; et al., 91b:90083
- Novikova, N. M. see Malashenko, Yu. E., 91m:90062
- Nygard, Kendall E. (with Greenberg, Peter; Bolkan, Waverly E.; Swenson, Elizabeth J.) Generalized assignment methods for the deadline vehicle routing problem. (see 91e:90041)
- (O'Kelly, M. E.) see Aykin, Turgut, (Not in MR)
- Orda, Ariel (with Rom, Raphael) Shortest-path and minimum-delay algorithms in networks with time-dependent edge-length. 91m:90063
- Padberg, Manfred (with Rinaldi, Giovanni) Addendum: "Optimization of a 532-city symmetric traveling salesman problem by branch and cut" [Oper. Res. Lett. 6 (1987), no. 1, 1-7]. (Not in MR)
- Perovschikov, A. G. On the problem of the search for a minimal path on a graph. 91b:90080
- Pershin, O. Yu. Design of optimal production-transportation systems under constraints on the types of graphs of multicomponent communication networks. (Not in MR)
- see also Babich, O. A., (Not in MR)
- Phan Thiên Thach A decomposition method for the min concave cost flow problem with a staircase structure. 91c:90043
- Powell, Warren B. (with Simão, Hugo P.) Stochastic properties of flows in freight consolidation networks. (see 91f:90029)
- A comparative review of alternative algorithms for the dynamic vehicle allocation problem. (see 91e:90041)
- Psarrafis, Harilaos N. Dynamic vehicle routing problems. (see 91e:90041)
- Pulleyblank, William R. see Monma, Clyde L.; et al., 91d:90041 and Gamble, A. B.; et al., 91m:90057
- Queyranne, Maurice see Hammer, Peter L.; et al., 91m:90059
- (Rao, J. R.) see Chaudhry, Sohail S., 91h:90037
- Ratliff, H. Donald see Iyer, Ananth V.; et al., 91m:90061
- Reyniers, Diane A high-low search algorithm for a newboy problem with delayed information feedback. (Not in MR)
- Ribeiro, C. C. see De Souza, C. C., (Not in MR)
- Richey, Michael B. Optimal location of a path or tree on a network with cycles. 91f:90049
- Rinaldi, Giovanni see Padberg, Manfred, (Not in MR)
- Rinnooy Kan, Alexander H. G. see Haimovich, M.; et al., (91e:90041)
- Rogozhin, V. S. see Malashenko, Yu. E.; et al., 91g:90068
- Rom, Raphael see Orda, Ariel, 91m:90063
- Ross, Keith W. (with Tsang, Danny) Teletraffic engineering for product-form circuit-switched networks. 91g:90069
- Saito, Nobuji see Suzuki, Hitoshi; et al., 91b:90083
- Sakamoto, Akio see Shimamoto, Takashi, 91c:90045
- Sandoh, Hiroaki see Hohzaki, Ryusuke; et al., (Not in MR)
- (Saraswati, K.) see Chaudhry, Sohail S., 91h:90037
- Savelsbergh, M. W. F. An efficient implementation of local search algorithms for constrained routing problems. 91m:90064
- see also Desrochers, Martin; et al., (91e:90041)
- Schaffer, Joanne R. see Solomon, Marius M.; et al., (91e:90041)
- Schmitt, Tom see Faaland, Bruce; et al., 91a:90066
- Servakh, V. V. The traveling salesman problem on tape graphs. (Russian) 91b:90081
- Sgurev, Vasil S. A maximum network flow and a capacity in networks with nonlinear constraints. (Russian summary) 91c:90044
- Shahrokhi, Farhad (with Matula, David W.) The maximum concurrent flow problem. 91j:90029
- Shetty, Bala A relaxation/decomposition algorithm for the fixed charged network problem. (Not in MR)
- Shimamoto, Takashi (with Sakamoto, Akio) Cycle breaking and longest path in channel routing problem. 91c:90045
- Sierksma, Gerard (with Vink, Jan) Counting Hamiltonian cycles with TSP heuristics in random graphs. (Czech summary) 91b:90082
- Simão, Hugo P. see Powell, Warren B., (91f:90029)
- Solomon, Marius M. (with Baker, Edward K.; Schaffer, Joanne R.) Vehicle routing and scheduling problems with time window constraints: efficient implementations of solution improvement procedures. (see 91e:90041)
- Soumis, François see Desrochers, Martin; et al., (91e:90041)
- Stoogie, L. see Haimovich, M.; et al., (91e:90041)
- Suzuki, Hitoshi (with Nishizeki, Takao; Saito, Nobuji) Algorithms for multicommodity flows in planar graphs. 91b:90083
- Swenson, Elizabeth J. see Nygard, Kendall E.; et al., (91e:90041)
- Tada, Minoru (with Ishii, Hiroaki; Nishida, Toshio) Fuzzy transportation problem with integral flow. 91k:90059
- Tang, Fu Yi (with Wang, Xue Zhi) Improvement on the optimization methods of the "fixed project duration and resource equalization" in a network plan. (Chinese. English summary) (Not in MR)
- Tarjan, Robert Endre see Goldberg, Andrew V., 91d:90038 and 91m:90058
- Thomas, Rainer ★ Parallelisierung des Max-Flow-Algorithmus von Shiloach/Vishkin auf Cray-Rechnern. (German) [Parallelization of the max-flow algorithm of Shiloach/Vishkin on Cray computers] (Not in MR)
- Tobin, Roger L. see Friesz, Terry L.; et al., 91g:90066
- Toth, Paolo see Carpaneto, G.; et al., 91a:90064 and Fischetti, Matteo, (91e:90041)
- Trietsch, Dan (with Hwang, F. K.) An improved algorithm for Steiner trees. 91b:90084
- Troyen, M. (with Liebling, Th. M.) Asymptotics for geometric combinatorial optimization problems. (see 91f:90005)
- Tsang, Danny see Ross, Keith W., 91g:90069
- Tzafestas, Spyros G. see Watanabe, Keigo; et al., (Not in MR)
- Venkataramanan, M. A. (with Dinkel, John J.; Mote, John) Vector processing approach to constrained network problems. (Not in MR)
- Villon, P. see Carlier, J., (Not in MR)
- Vink, Jan see Sierksma, Gerard, 91b:90082
- Volgenant, A. see Duijn, C., 91b:90075
- Voss, Stefan A reduction based algorithm for the Steiner problem in graphs. 91f:90050
- Wang, Xue Zhi see Tang, Fu Yi, (Not in MR)
- Wasil, Edward A. see Casco, Daniel O.; et al., (91e:90041)
- Watanabe, Keigo (with Fukuda, Toshio; Tzafestas, Spyros G.) Learning algorithms of layered neural networks via extended Kalman filters. (Not in MR)
- Wie, Byung-Wook see Friesz, Terry L.; et al., 91g:90066
- Xu, Xin He A new solution method for the travelling salesman problem. (Chinese. English summary) 91c:90046
- Yakushev, Yu. F. On an optimal protocol for multiple access of marker type in a local computer network. (Not in MR)
- Yokohira, Tokumi (with Miyahara, Hideo) Comparison of stability for various routing-procedures in circuit-switched networks. 91c:90047
- Yu, Wen Ci Some discussions on vehicle routing problems. (see 91b:90085)
- Zeitler, Herbert Telecommunication and incidence structures. 91b:90085
- Zuber, Zoltán An algorithm for strong covering of an interval system. (Hungarian. English summary) (Not in MR)

Items listed otherwise than by author

Vehicle routing: methods and studies ★ Vehicle routing: methods and studies. 91e:90041

Items with secondary classifications in 90B10

Adler, Ilan (with Cosares, S.) Advantageous properties of dual transshipment polyhedra. 91c:90072

Ahuja, Ravindra K. (with Orlin, James B.; Tarjan, Robert Endre) Improved time bounds for the maximum flow problem. 91d:68046

Aly, Adel A. (with Rahali, Boubekeur) Analysis of a bicriteria location model. (Not in MR)

Anderson, Edward J. (with Aramendia, M. A.) The search game on a network with immobile hider. 91b:90149

Aramendia, M. A. see Anderson, Edward J., 91b:90149

Bandopadhyaya, L. (with Bhatia, H. L.) The "three axial sums" problem with capacity restrictions. 91e:90062

Bazaraa, Mokhtar S. (with Jarvis, John J.; Sherali, Hanif D.) ★ Linear programming and network flows. 91b:90001

Benjamin, Arthur T. Graphs, maneuvers and turnpikes. 91f:05110

Bertsekas, Dimitri P. see Tseng, Peng; et al., 91c:65075

Bhatia, H. L. see Bandopadhyaya, L., 91e:90062

Bryson, Noel Parametric programming and Lagrangian relaxation: the case of the network problem with a single side-constraint. 91m:90178

Chaudhuri, Pranay An adaptive parallel algorithm for analyzing activity networks. (Not in MR)

Chen, Hua² (with Zhou, Jia Qi) Weak link sets of networks and their application to reliability evaluation. (Chinese. English summary) (Not in MR)

- Cherlyan, Joseph (with Maheshwari, Sachindra Nath) Analysis of preflow push algorithms for maximum network flow. **91k:68081**
 — (with Hagerup, Torben; Mehlhorn, Kurt) Can a maximum flow be computed in $O(nm)$ time? (see **91c:68004**)
- Chou, Ching-Tsun (with Gopal, Inder S.) Linear broadcast routing. **91h:68017**
- Choukri, T. see Üstünel, Ali Süleyman, **91m:68184**
- Colom, J. M. (with Silva, Manuel) Convex geometry and semiflows in P/T nets. A comparative study of algorithms for computation of minimal p -semiflows. (see **91k:68002**)
- Cosares, S. see Adler, Ilan, **91c:90072**
- Curtis, Edward B. (with Morrow, James A.) Determining the resistors in a network. **91h:94036**
- Das, Gautam (with Joseph, Deborah) Minimum vertex hulls for polyhedral domains (conference abstract). (see **91h:68011**)
- Dayantis, Jean see Mayer, Jean-Marc; et al., **91d:05065**
- Dong, Jin Quan The upper bounds for the path number of a graph. (Chinese summary) **91g:05101**
- Dorhout, B. Assignment and shortest path problems. **91f:90084**
- Drav, Moshe Cost allocation: the traveling salesman, binpacking, and the knapsack. (French summary) **91d:90066**
- Du, Ding Zhu (with Hau, D. Frank; Li, Qiao; Xu, Jun Ming) A combinatorial problem related to distributed loop networks. **91a:68011**
- Durier, Roland On Pareto optima, the Fermat-Weber problem, and polyhedral gauges. **91c:90090**
- Ebrahimi Zadeh, G. see Kaveh, A., **91b:05116**
- Elmaghraby, Salah E. The estimation of some network parameters in the PERT model of activity networks: review and critique. (see **91a:90095**)
- Farley, Arthur M. (with Proskurowski, Andrzej) The design of template immune networks: path immunity. **91f:68008**
- Faudree, Ralph J. (with Schelp, R. H.; Jacobson, Michael S.; Lehel, J.) Irregular networks, regular graphs and integer matrices with distinct row and column sums. **91a:05070**
- Feo, Thomas A. (with Khellaf, Mallek) A class of bounded approximation algorithms for graph partitioning. **91a:68212**
- Fleischner, Herbert * Eulerian graphs and related topics. Part 1. Vol. 1. **91g:05086**
- Frederickson, Greg N. (with Janardan, Ravi) Efficient message routing in planar networks. **91c:68019a**
 — (with Janardan, Ravi) Space-efficient message routing in c -decomposable networks. **91c:68019b**
 — Planar graph decomposition and all pairs shortest paths. **91m:68144**
- Frieze, A. M. Probabilistic analysis of graph algorithms. (German summary) **91m:68061**
- Geiger, Dan (with Verma, Thomas; Pearl, Judea) Identifying independence in Bayesian networks. **91g:68138**
- Gibbens, R. J. (with Hunt, P. J.; Kelly, Frank P.) Bistability in communication networks. **91h:68110**
- Goldberg, Andrew V. (with Tarjan, Robert Endre) A parallel algorithm for finding a blocking flow in an acyclic network. **91f:68005**
- Goldfarb, Donald (with Hao, Jianxiu) A primal simplex algorithm that solves the maximum flow problem in at most nm pivots and $O(n^2m)$ time. **91k:90209**
 — (with Hao, Jianxiu; Kai, Sheng-Roan) Shortest path algorithms using dynamic breadth-first search. **91k:68162**
- Gopal, Inder S. see Chou, Ching-Tsun, **91h:68017**
- Grötschel, Martin (with Monma, Clyde L.) Integer polyhedra arising from certain network design problems with connectivity constraints. **91m:90115**
- Gruyer, Georgi V. A class of algorithms for finding a feasible and optimal flow and tension. (Russian. English summary) **91a:90168**
- Guez, Claude see Mayer, Jean-Marc; et al., **91d:05065**
- Guignard, Monique (with Opaswongkarn, Kongkiat) Lagrangean dual ascent algorithms for computing bounds in capacitated plant location problems. **91a:90123**
 — (with Rosenwein, Moshe B.) An application of Lagrangean decomposition to the resource-constrained minimum weighted arborescence problem. **91h:90142**
- Guiseite, G. M. (with Pardalos, Panos M.) Minimum concave-cost network flow problems: applications, complexity, and algorithms. **91k:90211**
- Hagerup, Torben see Cherlyan, Joseph; et al., **(91c:68004)**
- Haimanki, G. R. A new parallel heuristic algorithm for the travelling-salesman problem in R^2 of big size. **91a:68213**
- Hao, Jianxiu see Goldfarb, Donald; et al., **91k:68162** and **91k:90209**
- Hassin, Refael Simultaneous solution of families of problems. **91k:68071**
- He, Xin (with Yesha, Yacov) Efficient parallel algorithms for r -dominating set and p -center problems on trees. **91a:68129**
- Heydemann, M.-C. (with Meyer, J.-C.; Opaswongkarn, Kongkiat; Sothieu, D.) Realizable values of the forwarding index. **91c:05103**
- Hirsch, Joachim Zur Standortoptimierung bezüglich quantitativer und qualitativer Kriterien. [On location optimization with respect to quantitative and qualitative criteria] (Not in MR)
- Hsu, D. Frank see Du, Ding Zhu; et al., **91a:68011**
- Hunt, P. J. see Gibbens, R. J.; et al., **91h:68110**
- Idrissi, H. (with Lefebvre, O.; Michelot, C.) Applications and numerical convergence of the partial inverse method. **91f:90098**
- Iyer, Ananth V. (with Ratliff, H. Donald) Accumulation point location on tree networks for guaranteed time distribution. **91f:90076**
- Iyer, Srinivas Extensions of the signed domination theorem. **91f:05113**
- Jacobson, Michael S. see Faudree, Ralph J.; et al., **91a:05070**
- Janardan, Ravi see Frederickson, Greg N., **91c:68019a** and **91c:68019b**
- Jarvis, John J. see Bazaraa, Mokhtar S.; et al., **91h:90001**
- Joseph, Deborah see Das, Gautam, **(91b:68011)**
- Kai, Sheng-Roan see Goldfarb, Donald; et al., **91k:68162**
- Kaufmann, Michael (with Mehlhorn, Kurt) Routing problems in grid graphs. **91k:68098**
- Kaveh, A. (with Ebrahimi Zadeh, G.) An efficient program for generating subminimal cycle bases of graphs. **91k:05116**
- Kelly, Frank P. see Zlinski, I. B., **91f:60183** and Gibbens, R. J.; et al., **91h:68110**
- Khellaf, Mallek see Feo, Thomas A., **91a:68212**
- Kirschhofer, Peter (with Proding, Helmut; Szpankowski, Wojciech) On the variance of the external path length in a symmetric digital trie. **91b:68017**
- Krishivasan, Kamala see Venkatasubramanian, S.; et al., **91g:68136**
- Lebeuf, Robert Existence of solutions for an origin-destination matrix estimation problem. (French summary) **91h:90203**
- Lederer, Phillip J. (with Thisse, Jacques-François) Competitive location on networks under delivered pricing. **91c:90039**
- Lefebvre, O. see Idrissi, H.; et al., **91f:90098**
- Lehel, J. see Faudree, Ralph J.; et al., **91a:05070**
- Lengauer, Thomas (with Wagner, Klaus W.) The binary network flow problem is logspace complete for P. **91k:68089**
- Li, Qiao see Du, Ding Zhu; et al., **91a:68011**
- Lo, Hui Yuan see Zhao, Lian Chang, **91g:05132**
- Madhavapetty, Seshu (with Sudborough, Ivan Hal) Disjoint paths in the hypercube. (see **91b:68006**)
- Maheshwari, Sachindra Nath see Cherlyan, Joseph, **91k:68081**
- Manger, Robert New examples of the path algebra and corresponding graph-theoretic path problems. (Serbo-Croatian summary) **91m:05095**
- Marcu, Danuș Finding the cut-vertices of a graph. (Romanian summary) **91c:05002**
 — Finding the node bases of a digraph. (Romanian summary) **91g:05058**
- Masuzawa, Kaori (with Mizuno, Shinji; Mori, Masao) A polynomial time interior point algorithm for minimum cost flow problems. **91:90077**
- Matula, David W. (with Shakhroki, Farhad) Sparsest cuts and bottlenecks in graphs. **91g:05126**
- Mayer, Jean-Marc (with Guez, Claude; Dayantis, Jean) Exact computer enumeration of the number of Hamiltonian paths in small plane square lattices. **91d:05065**
- Mehlhorn, Kurt see Kaufmann, Michael, **91k:68098** and Cherlyan, Joseph; et al., **(91c:68004)**
- Melamed, I. L. (with Sergeev, S. I.; Sigal, I. Kh.) The traveling salesman problem. Approximate algorithms. **91h:90159**
- Meng, Alex C.-C. (with Ntafos, Simeon) Problems in dynamic path planning. **91d:68129**
- Meyer, J.-C. see Heydemann, M.-C.; et al., **91c:05103**
- Michelot, C. see Idrissi, H.; et al., **91f:90098**
- Miller, Donald L. see Pekny, Joseph F.; et al., (Not in MR)
- Miller, Zvi (with Pritikin, Dan) On the separation number of a graph. **91g:05078**
- Mizuno, Shinji see Masuzawa, Kaori; et al., **91:90077**
- Mohar, Bojan (with Poljak, Svatopluk) Eigenvalues and max-cut problem. **91h:90161**
- Monma, Clyde L. see Grötschel, Martin, **91m:90115**
- Moran, Shlomo Message complexity versus space complexity in fault tolerant broadcast protocols. **91a:68013**
 — (with Newman, Ilan; Wolfstahl, Yaron) Approximation algorithms for covering a graph by vertex-disjoint paths of maximum total weight. **91k:05079**
- Mori, Masao see Masuzawa, Kaori; et al., **91:90077**
- Morrow, James A. see Curtis, Edward B., **91h:94036**
- Narasimhan, G. R. A note on the Hamiltonian circuit problem on directed path graphs. **91a:68134**
- Newman, Ilan see Moran, Shlomo; et al., **91k:05079**
- Nguyen, Sang (with Pallottino, Stefano) Hyperpaths and shortest hyperpaths. **91c:05113**
- Niepel, E. see Sirán, J., **91m:05064**
- Ntafos, Simeon see Meng, Alex C.-C., **91d:68129**
- Opaswongkarn, Kongkiat see Guignard, Monique, **91a:90123**
- Opaswongkarn, Kongkiat see Heydemann, M.-C.; et al., **91c:05103**
- Orlin, James B. see Ahuja, Ravindra K.; et al., **91d:68046** and Young, Neal E.; et al., **91m:68147**
- Pallottino, Stefano see Nguyen, Sang, **91c:05113**
- Panda Rangan, C. see Venkatasubramanian, S.; et al., **91g:68136**
- Pardalos, Panos M. see Guiseite, G. M., **91k:90211**
- Pearl, Judea see Geiger, Dan; et al., **91g:68138**
- Pekny, Joseph F. (with Miller, Donald L.; Stodolsky, Daniel) A note on exploiting the Hamiltonian cycle problem substructure of the asymmetric traveling salesman problem. (Not in MR)
- Peltzberger, B. V. (with Shafir, A. Yu.) A problem of optimization of interconnected nonhomogeneous flows with interactive fixed extra charges. **91m:90180**
- Perz, S. (with Rolewicz, S.) Norms and perfect graphs. (German summary) **91d:05048**
- Pillay, L. A. A method for solving a nonhomogeneous transportation network problem with additional interval constraints. (Russian) **91a:90112**
- Poljak, Svatopluk see Mohar, Bojan, **91h:90161**
- Pritikin, Dan see Miller, Zvi, **91g:05078**
- Proding, Helmut see Kirschhofer, Peter; et al., **91b:68017**
- Proskurowski, Andrzej see Farley, Arthur M., **91f:68008**
- Palat, P. Simis Maximum outflow in generalized flow networks. **91b:90106**
- Puleyblank, William R. (with de Werra, Dominique) Odd path packings. **91c:05140**
- Rahall, Boubekeur see Aly, Adel A., (Not in MR)
- Ramachandran, Vijaya A. A minimax arc theorem for reducible flow graphs. **91h:68120**
- Ratliff, H. Donald see Iyer, Ananth V., **91:90076**
- Reibiger, Albrecht (with Witte, Katrin) Graphoidale Netzwerke. [Graphoidal networks] **91j:94031**
- Rolewicz, S. see Perz, S., **91d:05048**
- Rosenwein, Moshe B. see Guignard, Monique, **91b:90142**
- Rote, Günter Path problems in graphs. (German summary) **91m:05122**
- Santibanez-Koref, Ivan see Voigt, Hans-Michael, **(91k:92005)**
- Schelp, R. H. see Faudree, Ralph J.; et al., **91a:05070**
- Sebő, András Undirected distances and the postman-structure of graphs. **91h:05049**
- Serfozo, Richard F. Markovian network processes: congestion-dependent routing and processing. **91g:60114**
- Sergeev, S. I. see Melamed, I. L.; et al., **91h:90159**
- Shafir, A. Yu. see Peltzberger, B. V., **91m:90180**
- Shakhroki, Farhad see Matula, David W., **91g:05126**
- Sherali, Hanif D. see Bazaraa, Mokhtar S.; et al., **91h:90001**

- Shetty, Bala A heuristic algorithm for a network problem with variable upper bounds. 91c:90113
- Shi, Ding Hua A survey on reliability of network systems. (Chinese) (Not in MR)
- Sigal, I. Kh. see Melamed, I. I.; et al., 91b:90159
- Silra, Manuel see Colom, J. M., 91b:68002
- Simonsen, Shal Routing with critical paths. 91c:68107
- Širáň, J. (with Niepel, L.) A refinement of Halin's end-faithful spanning tree theorem. 91m:05064
- Song, Tian Tai (with Zhou, Li) A new algorithm for the quasi-assignment problem. 91k:90090
- Sotesan, D. see Heydemann, M.-C.; et al., 91c:05103
- Stodolsky, Daniel see Pekny, Joseph F.; et al., (Not in MR)
- Sudborough, Ivan Hal see Madhavapeddy, Seshu, 91b:68006
- Suri, Subhash Computing geodesic furthest neighbors in simple polygons. 91b:68117
- Szpankowski, Wojciech see Kirschenhofer, Peter; et al., 91b:68017
- Tarandov, Raina N. Stability intervals in parametric problems of minimum spanning trees of a graph. (Bulgarian. English summary) 91a:90169
- Tarjan, Robert Endre see Ahuja, Ravindra K.; et al., 91d:68046; Goldberg, Andrew V., 91f:68085 and Young, Neal E.; et al., 91m:68147
- Thiess, Jacques-François see Lederer, Phillip J., 91c:90039
- Tsang, Paul (with Bertsekas, Dimitri P.; Tsitsiklis, John N.) Partially asynchronous, parallel algorithms for network flow and other problems. 91c:65075
- Tsitsiklis, John N. see Tsang, Paul; et al., 91c:65075
- Üstünel, Ali Süleyman (with Choukri, T.) Diffusion approximation of videoconference networks. 91m:60184
- de Valk, V. A problem on 0-1 matrices. 91b:15013
- Vasilakos, Athanasios V. On the behaviour of learning algorithms in a changing environment with application to data network routing problem. (Not in MR)
- Venkatasubramanian, S. (with Krithivasan, Kamala; Pandu Rangan, C.) Algorithms for weighted graph problems on the modified cellular graph automaton. (French summary) 91g:68136
- Verma, Thomas see Geiger, Dan; et al., 91g:68138
- Voigt, Hans-Michael (with Santibáñez-Koref, Ivan) Multi-layer replicator network algorithms. (see 91k:92005)
- Wagner, Donald K. Disjoint (s, t) -cuts in a network. 91h:90120
- Wagner, Klaus W. see Lengauer, Thomas, 91k:68089
- de Werra, Dominique see Polleyblank, William R., 91c:05149
- Winkler, Peter M. Mean distance in a tree. 91g:05043
- Witte, Katrin see Reibiger, Albrecht, 91j:94031
- Wolfstahl, Yaron see Moran, Shlomo; et al., 91k:05079
- Xu, Jin Formulas for the number of spanning trees of several classes of graphs. (Chinese. English summary) 91d:05040
- Xu, Jun Ming see Du, Ding Zhu; et al., 91a:68011
- Yamada, Takeo Controllability and the theory of economic policy: a structural approach. 91c:90032
- Yesha, Yacov see He, Xin, 91a:68129
- Young, Neal E. (with Tarjan, Robert Endre; Orlin, James B.) Faster parametric shortest path and minimum-balance algorithms. 91m:68147
- Zhao, Lian Chang (with Lou, Hui Yuan) An $O(|V|^2)$ algorithm for the planar 4-cut problem. (Chinese. English summary) 91g:05132
- Zhou, Jia Qi see Chen, Hua², (Not in MR)
- Zhou, Li see Song, Tian Tai, 91k:90090
- Ziedins, I. B. (with Kelly, Frank P.) Limit theorems for loss networks with diverse routing. 91f:60183
- 90B12 Communication networks [see also 68M10, 94A05]**
- Gershuni, D. S. see Kasrahrvili, I. S., 91m:90065
- Kasrahrvili, I. S. (with Gershuni, D. S.) A station assignment algorithm for a bichannel LAN. (Russian. English and Georgian summaries) 91m:90065
- 90B15 Flows in networks, probabilistic**
- Barishpolets, V. A. (with Kobzar, S. A.) A numerical method of analyzing a network model with stochastic structure and random operation durations. (Not in MR)
- Bendall, F. (with Quilliot, A.) Réseaux stochastiques. (English summary) [Stochastic networks] 91j:90030
- Bertsimas, Dimitris J. The probabilistic minimum spanning tree problem. 91a:90075
- Blum, Wolfgang A measure-theoretical max-flow-min-cut problem. 91k:90060
- Brandeau, Margaret L. (with Chiu, Samuel S.) Trajectory analysis of the stochastic queue median in a plane with rectilinear distances. 91d:90042
- Chiu, Samuel S. see Brandeau, Margaret L., 91d:90042
- Chlamtac, Imrich see Ganz, Aura, (Not in MR)
- Corea, G. A. (with Kulkarni, V. G.) Minimum cost routing on stochastic networks. (Not in MR)
- Der Mégréditchian, Guy Meteorological networks optimization from a statistical point of view. 91k:90086
- Dodis, Bajis (with Sirvanci, Mete) Stochastic networks and the extreme value distribution. (Not in MR)
- Falin, G. I. see Khalil, Z., 91j:90031
- Ganz, Aura (with Chlamtac, Imrich) A linear solution to queueing analysis of synchronous finite buffer networks. (Not in MR)
- Hooghiemstra, G. see Resing, J. A. C.; et al., 91m:90068
- Jaillet, Patrick (with Odoni, Amedeo R.) The probabilistic vehicle routing problem. (see 91c:90041)
- Jun, Kyung P. (with Perros, Harry G.) An approximate analysis of open tandem queueing networks with blocking and general service times. 91c:90048
- Kamburoski, J. PERT networks under incomplete probabilistic information. 91f:90051
- Keane, Michael see Resing, J. A. C.; et al., 91m:90068
- Khalil, Z. (with Falin, G. I.) A star-like circuit-switching network with multistage service. 91j:90031
- Kobzar, S. A. see Barishpolets, V. A., (Not in MR)
- Kovačić, M. Markovian neural networks. (Not in MR)
- Kulkarni, V. G. see Corea, G. A., (Not in MR)
- Lakshuk, L. I. Diffusion approximation of open queueing networks under critical load conditions. 91b:90087
- Mehallia, A. The weighted linear optimal distribution problem and applications. 91m:90066
- Mirchandani, Pitu B. see Soroush, Hossein, 91c:90042
- Nagurney, Anna (with Zhao, Lan) A network equilibrium formulation of market disequilibrium and variational inequalities. 91m:90067
- Odoni, Amedeo R. see Jaillet, Patrick, 91c:90041
- Olser, G. J. see Resing, J. A. C.; et al., 91m:90068
- Perros, Harry G. see Jun, Kyung P., 91c:90048
- Quilliot, A. see Bendall, F., 91j:90030
- Resing, J. A. C. (with de Vries, R. E.; Hooghiemstra, G.; Keane, Michael; Olser, G. J.) Asymptotic behavior of random discrete event systems. 91m:90068
- Sirvanci, Mete see Dodis, Bajis, (Not in MR)
- Soroush, Hossein (with Mirchandani, Pitu B.) The stochastic multicommodity flow problem. 91c:90042
- de Vries, R. E. see Resing, J. A. C.; et al., 91m:90068
- Weis, Lawrence M. Optimal control of a two-station Brownian network. 91c:90049
- Zambitaki, D. K. The Weber problem on a tree with probability weights of the vertices. (Russian) 91d:90043
- Zhao, Lan see Nagurney, Anna, 91m:90067
- Items with secondary classifications in 90B15**
- Akyildiz, I. F. (with von Brand, Horst) Exact solutions for open, closed and mixed queueing networks with rejection blocking. 91a:68016
- Berman, Kenneth A. (with Konsowa, Mokhtar H.) Random paths and cuts, electrical networks, and reversible Markov chains. 91g:94035
- Bocharov, P. P. (with Litvin, V. G.; Spesivov, S. S.) Computation of the characteristics of a two-node network with distributions of phase type and two types of customers. 91b:60074
- von Brand, Horst see Akyildiz, I. F., 91a:68016
- Caccetta, L. Graph theory in network design and analysis. 91c:05097
- Chabanyuk, V. S. Gaussian diffusion approximation of a closed Markov queueing network under heavy traffic conditions. (Russian) 91a:60238
- Chachkiani, T. I. see Ronin, E. I., (Not in MR)
- van Dijk, Nico M. Mixed parallel processors with interdependent blocking. (Not in MR)
- van Doorn, Erik A. see König, Dieter; et al., 91a:60247
- Dror, Moshe see Kreimer, Joseph, 91a:60124
- Goldfarb, Donald (with Hao, Jianxiu; Kai, Sheng-Roan) Anti-stalling pivot rules for the network simplex algorithm. 91g:90170
- Hao, Jianxiu see Goldfarb, Donald; et al., 91g:90170
- Hindi, K. S. see Zhuang, Li, 91d:90051
- Kai, Sheng-Roan see Goldfarb, Donald; et al., 91g:90170
- Kel'bert, M. Ya. (with Kopeika, R. P.; Shamsiev, R. N.; Sukhov, Yu. M.) Perturbation theory approach for a class of hybrid switching networks with small transit flows. 91f:60170
- Kern, Walter On the rate of convergence of some stochastic processes. 91d:60056
- Kistner, K.-P. (with Switalski, M.) Warteschlangen-Netzwerke in der hierarchischen Produktionsplanung. (English summary) [Queueing networks in hierarchical production planning] (Not in MR)
- Klein, Cerry M. Fuzzy shortest paths. 91k:90221
- König, Dieter (with Schmidt, Volker; van Doorn, Erik A.) On the "PASTA" property and a further relationship between customer and time averages in stationary queueing systems. 91a:60247
- Konsowa, Mokhtar H. see Berman, Kenneth A., 91g:94035
- Konstantopoulos, Panagiotis (with Walrand, Jean) Stationary [Stationarity] and stability of fork-join networks. 91a:60249
- Kopeika, R. P. see Kel'bert, M. Ya.; et al., 91f:60170
- Kreimer, Joseph (with Dror, Moshe) The monotonicity of the threshold detection probability in a stochastic accumulation process. 91a:60124
- Lauritzen, Steffen L. (with Spiegelhalter, David J.) Local computations with probabilities on graphical structures and their application to expert systems. 91a:68252
- Litvin, V. G. see Bocharov, P. P.; et al., 91b:60074
- Manthel, E. Splitting formulas for computing connectedness probability of undirected graphs. 91c:05165
- Mata-Montero, Erick Resilience of partial k -tree networks. 91b:90096
- McKenna, James A new proof and a tree algorithm for RECAL. 91a:68019
- Nain, Philippe (with Tsoucas, Pantelis; Walrand, Jean) Interchange arguments in stochastic scheduling. 91b:60230
- Peleg, David (with Schäffer, Alejandro A.) Time bounds on fault-tolerant broadcasting. 91h:68018
- Pourbabil, Behnam A class of chance constrained network optimization problems. 91k:90118
- Ronin, E. I. (with Chachkiani, T. I.) On analyzing weakly connected ergodic Markov chains. (Russian) (Not in MR)
- Schäffer, Alejandro A. see Peleg, David, 91h:68018
- Schmidt, Volker see König, Dieter; et al., 91a:60247
- Schachter, Ross D. An ordered examination of influence diagrams. 91g:68140
- Shamsiev, R. N. see Kel'bert, M. Ya.; et al., 91f:60170
- Sigman, Karl The stability of open queueing networks. 91m:60178
- Spesivov, S. S. see Bocharov, P. P.; et al., 91b:60074
- Spiegelhalter, David J. see Lauritzen, Steffen L., 91a:68252
- Steele, J. Michael Seedlings in the theory of shortest paths. 91m:60025
- Sukhov, Yu. M. see Kel'bert, M. Ya.; et al., 91f:60170
- Switalski, M. see Kistner, K.-P., (Not in MR)

- Tsoucas, Pantelis *see* Nain, Philippe; et al., 91f:60230
 van der Wal, Jan Monotonicity of the throughput of a closed exponential queueing network in the number of jobs. (German summary) 91a:60267
 Walrand, Jean *see* Konstantopoulos, Panagiotis, 91a:60249 and Nain, Philippe; et al., 91f:60230
 Zhuang, Li (with Hindi, K. S.) Mean value analysis for multiclass closed queueing network models of flexible manufacturing systems with limited buffers. 91d:90051

90B20 Highway traffic

- Alfa, Attahiru Sale A queueing model for signalized intersections with generalized vehicle interarrival times. 91a:90076
 Ansoorge, Rainer What does the entropy condition mean in traffic flow theory? 91a:90077
 Arnott, R. (with de Palma, André; Lindsey, R.) Departure time and route choice for the morning commute. (Not in MR)
 Betró, Bruno (with Ladelli, Lucia) A Markov chain model for traffic queue evolution at an intersection. 91k:90061
 Bovel, J. (with Constantin, C.; de Werra, Dominique) A convoy scheduling problem. 91k:90062
 Constantin, C. *see* Bovel, J.; et al., 91k:90062
 Fan, Zhi Ping *see* Huang, Xiao Yuan; et al., (Not in MR)
 Gupta, N. *see* Sharma, V. D.; et al., 91k:90063
 He, Guo Guang *see* Zhao, Zhi Wei; et al., 91c:90051
 Huang, Xiao Yuan (with Fan, Zhi Ping; Zhang, Wen Jiang) The model and control of moving vehicles on expressways. (Chinese. English summary) (Not in MR)
 Ji, Qing Jun *see* Teng, Su Zhen; et al., (Not in MR)
 Jin, Qun *see* Sugawara, Yoshio; et al., (Not in MR)
 Kajari, Jiri Application of biased exponential distribution for describing the uncontrollable intersection of one-lane traffic flows. (Russian. English and Estonian summaries) 91c:90050
 Kuwahara, Masao Equilibrium queueing patterns at a two-tandem bottleneck during the morning peak. (Not in MR)
 Ladelli, Lucia *see* Betró, Bruno, 91k:90061
 Lindsey, R. *see* Arnott, R.; et al., (Not in MR)
 Liu, Bao *see* Zhao, Zhi Wei; et al., 91c:90051
 de Palma, André *see* Arnott, R.; et al., (Not in MR)
 Pandey, B. D. *see* Sharma, V. D.; et al., 91k:90063
 Seya, Koichiro *see* Sugawara, Yoshio; et al., (Not in MR)
 Sharma, Rishi Ram *see* Sharma, V. D.; et al., 91k:90063
 Sharma, V. D. (with Sharma, Rishi Ram; Pandey, B. D.; Gupta, N.) Nonlinear analysis of a traffic flow. 91k:90063
 Sugawara, Yoshio (with Jin, Qun; Zhang, Jian Ting; Seya, Koichiro) Modelling and analysis of a semaphore system by an extended stochastic Petri net. (Not in MR)
 Teng, Su Zhen (with Ji, Qing Jun) A logit model of traffic pattern choice. (Chinese. English summary) (Not in MR)
 de Werra, Dominique *see* Bovel, J.; et al., 91k:90062
 Whitham, G. B. Exact solutions for a discrete system arising in traffic flow. 91c:90043
 Zhang, Jian Ting *see* Sugawara, Yoshio; et al., (Not in MR)
 Zhang, Wen Jiang *see* Huang, Xiao Yuan; et al., (Not in MR)
 Zhao, Zhi Wei (with Liu, Bao; He, Guo Guang) Asymptotic analysis of dynamical traffic assignment processes and the transient time. (Chinese. English summary) 91c:90051

Items with secondary classifications in 90B20

- Chabanyuk, V. S. Gaussian diffusion approximation of a closed Markov queueing network under heavy traffic conditions. (Russian) 91a:60238
 Chen, Sen Fa *see* Zhou, Jing, 91g:90064
 De Luca, Marino (with Maugeri, Antonino) Quasi-variational inequalities and applications to the traffic equilibrium problem; discussion of a paradox. 91c:90106
 Elmaghaby, Salah E. The estimation of some network parameters in the PERT model of activity networks: review and critique. (see 91a:90095)
 Friesz, Terry L. (with Luque, Javier; Tobin, Roger L.; Wie, Byung-Wook) Dynamic network traffic assignment considered as a continuous time optimal control problem. 91g:90066
 (Gartner, Nathan H.) *see* Urban traffic networks: dynamic control and flow equilibrium, 91k:90012
 (Improta, Gennaro) *see* Urban traffic networks: dynamic control and flow equilibrium, 91k:90012
 Lambros, A. (with Pombortsis, A.; Sideridis, A. B.; Tambouratzis, D.) A generalization of the Erlang's B formula. (French summary) 91a:60250
 Luque, Javier *see* Friesz, Terry L.; et al., 91g:90066
 Maugeri, Antonino *see* De Luca, Marino, 91c:90106
 Mukai, H. *see* Yan, Di, 91c:90080
 Phua, Kang Hoh *see* Shanno, David F., 91c:90104
 Pombortsis, A. *see* Lambros, A.; et al., 91a:60250
 Shanno, David F. (with Phua, Kang Hoh) Numerical experience with sequential quadratic programming algorithms for equality constrained nonlinear programming. 91c:90104
 Shar, N. Z. (with Solomon, D. I.) * Декомпозиционные методы в дробно-линейном программировании. (Russian) [Decomposition methods in linear fractional programming] 91c:90118
 Sideridis, A. B. *see* Lambros, A.; et al., 91a:60250
 Solomon, D. I. *see* Shar, N. Z., 91c:90118
 Tambouratzis, D. *see* Lambros, A.; et al., 91a:60250
 Tobin, Roger L. *see* Friesz, Terry L.; et al., 91g:90066
 Wie, Byung-Wook *see* Friesz, Terry L.; et al., 91g:90066
 Yan, Di (with Mukai, H.) Discrete optimization with estimation. 91c:90080
 Zhou, Jing (with Chen, Sen Fa) Hierarchical modeling for urban traffic signal control systems. (Chinese. English summary) 91g:90064

Items listed otherwise than by author

- Capri * Urban traffic networks: dynamic control and flow equilibrium. 91k:90012

Seminar:

- Urban Traffic Networks: Dynamic Control and Flow Equilibrium * Urban traffic networks: dynamic control and flow equilibrium. 91k:90012
 Urban traffic networks: dynamic control and flow equilibrium * Urban traffic networks: dynamic control and flow equilibrium. 91k:90012

90B22 Queues and service [see also 60K25, 68M20]

- Abou-El Ata, M. O. (with Shawky, A. I.; Al-Seedy, R. O.) Analytical explicit solution of the moments of the overflow queue. II. (see 91f:90005)
 Adachi, Kōichi *see* Liu, Li Wen; et al., 91j:90035 and (Not in MR)
 Adan, Ivo (with van der Wal, Jan) Monotonicity of the throughput of a closed queueing network in the number of jobs. 91j:90032
 Agnihotri, Saligrama R. (with Narasimhan, Sridhar; Pirkul, Hasan) An assignment problem with queueing time cost. (Not in MR)
 — Complementarity between the finite capacity and finite source queueing systems. (Not in MR)
 Aldrisi, Mustafa M. Optimal control of the service rate of an exponential queueing network using Markov decision theory. 91j:90033
 Al-Seedy, R. O. *see* Abou-El Ata, M. O.; et al., (91f:90005)
 Anja, Y. P. *see* Mani, V.; et al., 91k:90091
 Balsamo, S. (with De Nitto Personè, V.) Closed queueing networks with finite capacities: blocking types, product-form solution and performance indices. (Not in MR)
 Bhutani, J. P. (with Kumar, Ashok²) Bulk queue with rest period. (Spanish summary) (Not in MR)
 Blanc, J. P. C. A numerical approach to cyclic-service queueing models. 91f:90052
 Brandeau, Margaret L. (with Chiu, Samuel S.) A unified family of single-server queueing location models. (Not in MR)
 Buckley, James J. Elementary queueing theory based on possibility theory. 91k:90038
 Buchkin, A. M. A method for solving a discrete problem of optimal control of a queueing system with multidimensional input flows. 91f:90053
 Chandra, Jeya *see* Tsoirisk, Phadana, 91c:90045
 Chekmenev, V. A. (with Chekmeneva, T. D.) Game rules for assigning priorities in cost models of queueing. (Russian) (see 91c:90137)
 Chekmeneva, T. D. Game rules for assigning priorities in multiline queueing systems. (Russian) (see 91c:90137)
 — *see also* Chekmenev, V. A., (91c:90137)
 Chiu, Samuel S. *see* Brandeau, Margaret L., (Not in MR)
 Chuah, M. C. *see* Cruz, R. L., 91b:90088
 Clon, Israel (with Sidi, Moshe) Recursive computation of steady-state probabilities in priority queues. 91c:90044
 Coffman, E. G., Jr. (with Flatto, Leopold; Gaver, D. P., Jr.) Height distributions in data communication buffers with locking protocols. (Not in MR)
 Courcoubetis, Costas (with Konstantopoulos, Panagiotis; Walrand, Jean; Weber, Richard R.) Stabilizing an uncertain production system. 91d:90044
 Cruz, R. L. (with Chuah, M. C.) Worst case analysis of a simple routing problem. 91b:90088
 Dallery, Yves (with Stecké, Kathryn E.) On the optimal allocation of servers and workloads in closed queueing networks. (Not in MR)
 Deng, Xiao Tie (with Mahajan, Sanjeev) Server problems and resistive spaces. (Not in MR)
 De Nitto Personè, V. *see* Balsamo, S., (Not in MR)
 van Dijk, Nico M. Queueing systems with restricted workload: an explicit solution. 91h:90039
 — (with Rumsewicz, Michael) Networks of queues with service anticipating routing. (Not in MR)
 Drezner, Zvi (with Schaible, Siegfried; Simchi-Levi, David) Queueing-location problems on the plane. (Not in MR)
 Dudin, A. N. (with Ikhsan, Khalaf) Finding the optimal hysteresis strategy for controlling a two-speed queueing system. (Russian) 91c:90031
 Eisenberg, Martin *see* Leung, Kin K., (Not in MR)
 El Taha, Muhammad (with Heath, John R.) A model of channel allocation in multichannel local networks. 91m:90069
 Fallin, G. I. On a single server system with randomly varying service rate. 91b:90089
 Federgruen, Avi (with So, Kut C.) Optimal maintenance policies for single-server queueing systems subject to breakdowns. 91c:90052
 Fedosov, A. A. Diffusion approximation of the processes of serving customers in transportation systems. (Russian) (see 91c:90019)
 Fedotkin, M. A. Optimal control of conflicting flows and marked point processes with an isolated discrete component. II. (Russian. English and Lithuanian summaries) 91c:90053
 — *see also* Golyasheva, N. M., (Not in MR)
 Feng, Chun Bo *see* Wang, Zi Qun; et al., 91c:90046
 Flatto, Leopold *see* Coffman, E. G., Jr.; et al., (Not in MR)
 Gaver, D. P., Jr. *see* Coffman, E. G., Jr.; et al., (Not in MR)
 Gelenbe, Erol (with Rosenberg, Catherine) Queues with slowly varying arrival and service processes. 91j:90034
 Golovko, N. I. (with Korotaev, I. A.) Calculation of the characteristics of time-dependent queueing systems. (Not in MR)
 Golyasheva, N. M. (with Fedotkin, M. A.) Cyclic control of conflicting flows under conditions of the birth and death of critical size queues. (Not in MR)
 Gordon, John James The evaluation of normalizing constants in closed queueing networks. (Not in MR)
 Gordon, V. S. Parallel algorithm for minimizing the maximum penalty for servicing requests by a single server. (Not in MR)
 Grassmann, W. K. *see* Zhao, Yiqiang, (Not in MR)
 Gray, William J. (with Mahmoud, M.; Scott, Meckinley) M/G/1 queueing model with multiple starters. (Not in MR)
 Harrison, J. Michael (with Wein, Lawrence M.) Scheduling networks of queues: heavy traffic analysis of a two-station closed network. (Not in MR)
 — (with Nguyen, Vien) The QNET method for two-moment analysis of open queueing networks. 91k:90064

- Heath, John R. *see* El Taha, Muhammad, 91m:90069
- Hindi, K. S. *see* Zhuang, Li, (Not in MR)
- Honig, Michael L. (with Ott, Teunis J.) On waiting for simultaneous access to two resources. 91g:90070
- Hsiao, Man-tung T. (with Lazar, Aurel A.) Optimal flow control of multiclass queueing networks with partial information. 91g:90071
- Ikhman, Khalaf *see* Dudin, A. N., 91i:90031
- Jackson, R. R. P. Some applications of queueing theory in operational research (1953-89). (Not in MR)
- Jeong, Seok-Chan *see* Nagasawa, Hiroyuki; et al., (Not in MR)
- Kella, Offer Optimal control of the vacation scheme in an $M/G/1$ queue. (Not in MR)
- Kijima, Masaaki (with Makimoto, Naoki; Shirakawa, Hiroshi) Stochastic minimization of the makespan in flow shops with identical machines and buffers of arbitrary size. (Not in MR)
- Knessl, Charles Refinements to heavy traffic limit theorems in queueing theory. 91m:90070
- (with Matkowsky, Bernard J.; Schuss, Z.; Tier, Charles) An integral equation approach to the $M/G/2$ queue. (Not in MR)
- Konstantopoulos, Panagiotis *see* Courcoubetis, Costas; et al., 91d:90044
- Korotavr, I. A. *see* Golovko, N. L., (Not in MR)
- Kouvatso, Demetres D. (with Tabet-Aouel, Nasreddine) A maximum entropy priority approximation for a stable $G/G/1$ queue. 91f:90054
- Kovalev, M. Ya. Construction of an ϵ -approximate solution of the problem of serving customers in given time frames. (Russian. English summary) 91d:90045
- Kowada, Masashi *see* Liu, Li Wen; et al., 91j:90035 and (Not in MR)
- Kumar, Ashok *see* Bhutani, J. P., (Not in MR)
- Kawahara, Masao (with Newell, Gordon F.) Queue evolution on freeways leading to a single core city during the morning peak. (see 91i:90029)
- Larson, Richard C. The queue inference engine: deducing queue statistics from transactional data. 91h:90090
- Lazar, Aurel A. *see* Hsiao, Man-tung T., 91g:90071
- Lee, Chih-Ping (with McClamroch, N. Harris) A control problem for processing discrete parts with random arrivals. (see 91h:93001)
- Lee, Hyo-Seung (with Srinivasan, Mandyam M.) The shuttle dispatch problem with compound Poisson arrivals: controls at two terminals. 91d:90046
- Leung, Kin K. (with Eisenberg, Martin) A single-server queue with vacations and nongated time-limited service. (Not in MR)
- Levy, Hanoch *see* Milillo, Rodolfo A., 91f:90055
- Liu, Li Wen (with Kowada, Masashi; Adachi, Kōichi) The output rate of a parallel queueing model with overlapping processing time. (Not in MR)
- (with Adachi, Kōichi; Kowada, Masashi) A dispatching system with a Poisson input. 91j:90035
- Mahajan, Sanjeev *see* Deng, Xiao Tie, (Not in MR)
- Mahmoud, M. *see* Gray, William J.; et al., (Not in MR)
- Makimoto, Naoki *see* Kijima, Masaaki; et al., (Not in MR)
- Malinkovskii, Yu. V. Queueing networks with bypasses of order nodes. (Not in MR)
- Mancharam, M. On $M/G/1$ queue with single and batch services. (Not in MR)
- Mani, V. (with Anjey, Y. P.; Singh, N.) Throughput analysis of a two station closed queueing network with blocking and server breakdown. 91h:90091
- Matkowsky, Bernard J. *see* Knessl, Charles; et al., (Not in MR)
- McClamroch, N. Harris *see* Lee, Chih-Ping, (91h:93001)
- Melikov, A. Z. (with Ponomarenko, L. A.) A numerical method of optimizing multiflow queueing systems. (Not in MR)
- Mendelson, Haim (with Whang, Seungjin) Optimal incentive-compatible priority pricing for the $M/M/1$ queue. (Not in MR)
- Milillo, Rodolfo A. (with Levy, Hanoch) Modeling and dynamic scheduling of a queueing system with blocking and starvation. 91f:90055
- Mohana Dhas, D. Audsin *see* Nadarajan, R., (Not in MR)
- Nadarajan, R. (with Mohana Dhas, D. Audsin) Multiserver general bulk service queue with vacation. (Not in MR)
- Nagasawa, Hiroyuki (with Jeong, Seok-Chan; Nishiyama, Noriyuki) A generalized representation of flexible manufacturing systems using a closed queueing network model. (Not in MR)
- Narasimhan, Sridhar *see* Agnihothri, Saligrama R.; et al., (Not in MR)
- Nawijn, Wim M. Look-ahead policies for admission to a single server loss system. 91k:90065
- Newell, Gordon F. *see* Kawahara, Masao, (91i:90029)
- Nguyen, Vien *see* Harrison, J. Michael, 91k:90064
- Nishiyama, Noriyuki *see* Nagasawa, Hiroyuki; et al., (Not in MR)
- On Ommeren, J. C. W. Simple approximations for the batch-arrival $M^x/G/1$ queue. (Not in MR)
- Ott, Teunis J. *see* Honig, Michael L., 91g:90070
- Pechlinski, A. V. A system with absolute continuous priorities and non-simple input stream. 91m:90071
- Percus, J. K. *see* Percus, Ora E., 91d:90047 and 91h:90040
- Percus, Ora E. (with Percus, J. K.) Models for queue length in clocked queueing networks. 91d:90047
- (with Percus, J. K.) Queue length distributions in a Markov model of a multistage clocked queueing network. 91h:90040
- Pirkul, Hasan *see* Agnihothri, Saligrama R.; et al., (Not in MR)
- Ponomarenko, L. A. *see* Melikov, A. Z., (Not in MR)
- Porotskii, S. M. The correctness of using approximate calculation methods for queueing networks. (Russian) (Not in MR)
- Pourbaba, Behnam Tandem behavior of a finite capacity $G/M/1$ queueing system: an algorithm. (Not in MR)
- Tandem behavior of a telecommunication system with finite buffers and repeated calls. (Not in MR)
- Poznyak, R. I. (with Revinski, V. V.; Starovoltov, A. M.; Tikhonenko, O. M.) Determination of the characteristics of the total number of customers in single-server queueing systems with constraints. (Russian) (Not in MR)
- Preobrazhenskaya, A. M. Optimal server time sharing between request queues. (Not in MR)
- Rao, Badeti Madhusudan On the departure process of the split and match queue. (Not in MR)
- Reiman, Martin I. Asymptotically exact decomposition approximations for open queueing networks. (Not in MR)
- Revinski, V. V. *see* Poznyak, R. I.; et al., (Not in MR)
- Ringuest, Jeffrey L. *see* Schneider, Helmut, (Not in MR)
- Rosenberg, Catherine *see* Gelenbe, Erol, 91j:90034
- Rumsewicz, Michael *see* van Dijk, Nico M., (Not in MR)
- Schalbe, Siegfried *see* Drezner, Zvi; et al., (Not in MR)
- Schneider, Helmut (with Ringuest, Jeffrey L.) Power approximation for computing (s, S) policies using service level. (Not in MR)
- Schuss, Z. *see* Knessl, Charles; et al., (Not in MR)
- Schweitzer, Paul J. Device utilizations in approximate MVA. 91a:90078
- Scott, Meckinley *see* Gray, William J.; et al., (Not in MR)
- Shawky, A. I. *see* Abou-El Ata, M. O.; et al., (91f:90005)
- Shi, Ding Hua Theorems of statistical equilibrium for $M/G(E_k/H)/1$ queueing systems with repairable servers. (Chinese) (Not in MR)
- Shirakawa, Hiroshi *see* Kijima, Masaaki; et al., (Not in MR)
- Sidi, Moshe *see* Cidon, Israel, 91c:90044
- Simchi-Levi, David *see* Drezner, Zvi; et al., (Not in MR)
- Singh, N. *see* Mani, V.; et al., 91h:90091
- So, Kat C. *see* Federgruen, Avi, 91c:90052
- Song, Wen Zhong *see* Wang, Zi Qin; et al., 91c:90046
- Srinivasan, Mandyam M. *see* Lee, Hyo-Seung, 91d:90046
- Starovoltov, A. M. *see* Poznyak, R. I.; et al., (Not in MR)
- Stecke, Kathryn E. *see* Dallery, Yves, (Not in MR)
- Tabet-Aouel, Nasreddine *see* Kouvatso, Demetres D., 91f:90054
- Takagi, Hideaki Priority queues with setup times. (Not in MR)
- *see also* Takahashi, Yoshitaka, 91g:90072
- Takahashi, Yoshitaka (with Takagi, Hideaki) Structured priority queue with batch arrivals. 91g:90072
- Tier, Charles *see* Knessl, Charles; et al., (Not in MR)
- Tikhonenko, O. M. *see* Poznyak, R. I.; et al., (Not in MR)
- Tosirinsk, Phadthana (with Chandra, Jeya) Multiple finite source queueing model with dynamic priority scheduling. 91c:90045
- Vincent, Jean-Marc Stability condition of a service system with precedence constraints between tasks. 91m:90072
- Volfert, A. B. Qualitative study of a class of queueing systems. (Russian) (see 91h:90024)
- van der Wal, Jan *see* Adan, Ivo, 91j:90032
- Walrand, Jean *see* Courcoubetis, Costas; et al., 91d:90044
- Wang, Jing³ (with Yang, De Li) An analytical model for an $M/G/1$ queueing system with a finite queue. (Chinese) (Not in MR)
- Wang, Zi Qin (with Song, Wen Zhong; Feng, Chun Bo) Analysis and optimization of discrete event dynamical systems—a queueing network model method. I. (Chinese) 91c:90046
- Weber, Richard R. *see* Courcoubetis, Costas; et al., 91d:90044
- Wein, Lawrence M. Scheduling networks of queues: heavy traffic analysis of a two-station network with controllable inputs. (Not in MR)
- *see also* Harrison, J. Michael, (Not in MR)
- Whang, Seungjin *see* Mendelson, Haim, (Not in MR)
- Whitt, Ward An interpolation approximation for the mean workload in a $GI/G/1$ queue. 91j:90036
- Wu, J.-S. Refining the diffusion approximation for the $G/G/c$ queue. (Not in MR)
- Yang, De Li *see* Wang, Jing³, (Not in MR)
- Zhao, Yiqiang (with Grassmann, W. K.) The shortest queue model with jockeying. (Not in MR)
- Zhang, Li (with Hindi, K. S.) Convolution algorithm for closed queueing network models of flexible manufacturing systems with limited buffers. (Not in MR)

Items with secondary classifications in 90B22

- Adachi, Kōichi *see* Liu, Li Wen; et al., 91h:60105
- Akyildiz, I. F. (with von Brand, Horst) Dual and selfdual networks of queues with rejection blocking. (German summary) 91f:60232
- Alfa, Attahiru Sale A queueing model for signalized intersections with generalized vehicle interarrival times. 91a:90076
- All, Hydar Expected number of departures in $M/M/1$ and $GI/G/1$ queues. 91m:60162
- Allen, Arnold O. ★ Probability, statistics, and queueing theory. 91f:60233
- Alperstein, Hanna A monopoly service facility offers two priority prices—preemptive resume versus nonpreemptive disciplines. 91d:60225
- Altink, Tayfur Approximate analysis of queues in series with phase-type service times and blocking. 91h:60100
- Andropov, V. M. Approximate analysis of computer network operation. (Not in MR)
- Anisimov, V. V. (with Chabanyuk, V. S.) Application of the Skorokhod reflection problem in diffusion approximation of queueing networks. 91m:60163
- Arai, Koji (with Kawashima, Takeshi) An analysis for the $GI/G/1/1$ queue with push-out priority discipline. (Not in MR)
- van Arem, B. (with van Doorn, Erik A.; Meijer, T. M. J.) Queueing analysis of a discrete closed-loop conveyor with service facilities. 91d:60249
- Arora, R. T. (with Kumar, Ashok³) A control policy for an Erlangian arrival. 91c:60139
- (with Tuteja, R. K.) A control policy for a single server queue. 91h:60234
- Assaf, David (with Haviv, Moshe) Reneging from processor sharing systems and random queues. 91c:60117
- Avi-Itzhak, Benjamin (with Halfin, Shlomo) Response times in gated $M/G/1$ queues: the processor-sharing case. 91f:60235
- Baccelli, François (with Makowski, Armand M.; Schwartz, Adam) The fork-join queue and related systems with synchronization constraints: stochastic ordering and computable bounds. 91a:60235
- (with Liu, Zhen) On the stability condition of a precedence-based queueing discipline. 91c:60260

- (with Towse, Donald F.) The customer response times in the processor sharing queue are associated. 91b:60236
- Badr, Hussein *see* Tsioltras, George D., (Not in MR)
- Balea, P. A queueing system with p universal stations in parallel. (Romanian. English summary) (Not in MR)
- Bambos, Nicholas (with Walrand, Jean) On stability of state-dependent queues and acyclic queueing networks. 91b:60262
- (with Walrand, Jean) An invariant distribution for the $G/G/1$ queueing operator. 91c:60118
- Basharin, G. P. (with Bocharov, P. P.; Kogan, Ya. A.) ★ Анализ очередей в вычислительных сетях. (Russian) [Analysis of queues in computer networks] 91b:60157
- Bellamine, R. (with Pellaumail, Jean) Opérateurs positifs et probabilités stationnaires. (English summary) [Positive operators and stationary probabilities] 91b:60158
- Belyaev, K. P. *see* D'yakonov, E. E., 91c:60267
- Berg, Menachem (with Posner, M. J. M.) Customer delay in $M/G/\infty$ repair systems with spares. 91a:90079
- Bertsimas, Dimitris J. An analytic approach to a general class of $G/G/s$ queueing systems. 91b:60096
- Boutier, Frederick J. (with Teneketzis, Demosthenis) Routing in queueing networks under imperfect information: stochastic dominance and thresholds. 91b:60159
- Bhandari, Rajiv (with Maggu, P. L.) On nonpriority queues in biserries. 91a:60236
- Bhattacharya, Partha P. (with Ephremides, Anthony) Optimal scheduling with strict deadlines. 91b:60073
- Blondia, C. The $N/G/1$ finite capacity queue. 91a:60237
- A finite capacity multi-queueing system with priorities and with repeated server vacations. 91b:60105
- Bocharov, P. P. On the two-node queueing networks with finite capacity. 91d:60227
- (with Litvin, V. G.; Spesivov, S. S.) Computation of the characteristics of a two-node network with distributions of phase type and two types of customers. 91b:60074
- *see also* Basharin, G. P.; et al., 91b:60157
- von Brand, Horst *see* Akyildiz, I. F., 91b:60232
- Brandean, Margaret L. (with Chiu, Samuel S.) Trajectory analysis of the stochastic queue median in a plane with rectilinear distances. 91d:90042
- Brandt, Andreas On the $GI/M/\infty$ service system with batch arrivals and different types of service distributions. 91c:60263
- (with Brandt, Manfred; Sulanke, Hannelore) A single server model for packetwise transmission of messages. 91b:60237
- Brandt, Manfred *see* Brandt, Andreas; et al., 91b:60237
- (Cannon, Larry) *see* Kalashnikov, V. V., 91c:60274
- Cao, Cheng Xuan *see* Tian, Nai Shao; et al., 91c:60136
- Cao, Xi-Ren Realization probability and throughput sensitivity in a closed Jackson network. 91d:60229
- The convergence property of sample derivatives in closed Jackson queueing networks. 91b:60106
- Realization factors and sensitivity analysis of queueing networks with state-dependent service rates. 91c:60120
- Chahanyuk, V. S. Gaussian diffusion approximation of a closed Markov queueing network under heavy traffic conditions. (Russian) 91a:60238
- *see also* Anisimov, V. V., 91b:60163
- Chatterjee, U. (with Mukherjee, S. P.) On some distributions of the $M^{(X)}/G/1$ queue with server's vacation and exhaustive service discipline. 91b:60239
- Chen, Hong² Optimal intensity control of a multi-class queue. 91d:60230
- Chiu, Samuel S. *see* Brandean, Margaret L., 91d:90042
- Choi, Bong Dae *see* Kulkarni, V. G., 91m:60172
- Chrobak, Marek (with Larmore, Lawrence L.) An optimal on-line algorithm for k servers on trees. 91b:60046
- Cohen, Joel E. (with Kelly, Frank P.) A paradox of congestion in a queueing network. 91b:60109
- Conway, Adrian E. (with Georganas, Nicolas D.) ★ Queueing networks—exact computational algorithms. 91c:60265
- Cooper, Robert B. (with Palakurthi, Sharmila) Heterogeneous-server loss systems with ordered entry: an anomaly. 91d:60231
- *see also* Niu, Shun Chen, 91a:60256
- Courteis, P.-J. On the total loss probability of service stages in series. 91c:60266
- Coyte, Andrew Sensitivity bounds on a $GI/M/n/n$ queueing system. 91c:60121
- Daduna, Hans Exchangeable items in repair systems: delay times. 91b:60160
- Daganzo, Carlos F. Some properties of polling systems. 91b:60161
- Dass, J. *see* Sharma, Om Prakash, 91b:60078
- Deis, Mark H. A. *see* Ribeiro do Val, João Bosco, 91k:49042
- Delbrouck, L. E. N. Interdeparture times in $M/G/1$ queueing systems with nonpreemptive priority discipline. 91c:60122
- De Serres, Yves Simultaneous optimization of flow control and scheduling in a single server queue with two job classes. (Not in MR)
- van Dijk, Nico M. An LCFS finite buffer model with finite source batch input. 91c:60123
- (with Smeitink, Eric) A nonexponential queueing system with independent arrivals and batch servicing. 91b:60165
- *see also* Henderson, William; et al., 91b:60102
- Dimitrov, B. (with Khalil, Z.) On a new characterization of the exponential distribution related to a queueing system with an unreliable server. 91b:60147
- van Doorn, Erik A. *see* König, Dieter; et al., 91a:60247 and van Arem, B.; et al., 91d:60249
- Doshi, Bharat Generalizations of the stochastic decomposition results for single server queues with vacations. 91d:60233
- Conditional and unconditional distributions for $M/G/1$ type queues with server vacations. 91b:60240
- Duenyas, Izak (with Hopp, Wallace J.) Estimating variance of output from cyclic exponential queueing systems. (Not in MR)
- D'yakonov, E. E. (with Belyaev, K. P.) Limit theorems for priority queueing systems with batch processing in heavy traffic. I. 91c:60267
- Ephremides, Anthony *see* Bhattacharya, Partha P., 91b:60073 and Nakasis, Tassos, (Not in MR)
- Fakinos, D. (with Sirakoulis, K.) Product-form distributions for an $M/G/k$ group-arrival group-departure loss system. 91d:60234
- On the $M/G/k$ group-arrival loss system. 91d:60235
- Falla, G. I. (with Sukharev, Yu. I.) Singularly perturbed equations and an asymptotic study of the stationary characteristics of systems with repeated calls. (Russian) 91b:60162
- Monotonicity properties of structurally complex switching systems with losses. 91k:60095
- Ergodicity and stability of systems with repeated calls. 91c:60125
- Some exact formulas for two-dimensional random walks with applications to interacting queues. (Russian) 91b:60118
- A survey of retrial queues. 91m:60166
- *see also* Khalil, Z., 91j:90031
- Farahmand, Kamalz Single line queue with repeated demands. 91b:60241
- Ferguson, Thomas S. Who solved the secretary problem? 91k:01011
- Fischer, Wolfgang *see* Stanford, David A., 91a:60264
- Fleishman, D. G. Accumulation processes with reset. 91b:60191
- Floyd, Sally (with Karp, Richard M.) FFD bin packing for item sizes with uniform distributions on $[0, \frac{1}{2}]$. 91m:60079
- Foss, S. G. Some properties of open queueing networks. 91b:60163
- Fryer, M. J. *see* Winsten, C. B., (Not in MR)
- Fu, Michael C. On the consistency of second derivative perturbation analysis estimators for the $M/G/1$ queue. 91a:60240
- Convergence of a stochastic approximation algorithm for the $GI/G/1$ queue using infinitesimal perturbation analysis. 91b:60105
- Gal, T. *see* Sztrik, János, 91a:60023
- Ganesh, V. *see* Sathia Moorthi, R., (Not in MR)
- Gaver, D. P., Jr. (with Jacobs, Patricia A.) On inference concerning time-dependent queue performance: the $M/G/1$ example. 91b:60164
- Georganas, Nicolas D. *see* Conway, Adrian E., 91c:60265
- Ghahramani, Saeed On remaining full busy periods of $GI/G/c$ queues and their relation to stationary point processes. 91c:60268
- Glasserman, Paul The limiting value of derivative estimators based on perturbation analysis. 91b:60243
- Glynn, Peter W. (with Whitt, Ward) Extensions of the queueing relations $L = \lambda W$ and $H = \lambda G$. 91c:60269
- Gopinath, B. *see* Gubner, John A.; et al., 91b:60101
- Gray, William J. *see* Scott, Meckinley, (Not in MR)
- Gubner, John A. (with Gopinath, B.; Varadhan, S. R. S.) Bounding functions of Markov processes and the shortest queue problem. 91b:60101
- Guibas, Leonidas J. (with Hershberger, John) Optimal shortest path queries in a simple polygon. 91g:68164
- Gupta, B. S. (with Sharma, G. C.) A control policy for an $M/G/C$ queue. (Not in MR)
- (with Sharma, G. C.) A control policy for an $M/G/C$ queue. (Not in MR)
- Halfin, Shlomo Next-fit bin packing with random piece sizes. 91b:60087
- *see also* Avi-Itzhak, Benjamin, 91b:60235
- Hantler, Sidney L. (with Rosberg, Zvi) Optimal estimation for an $M/M/c$ queue with time varying parameters. 91c:60207
- Harel, Ariel Convexity results for single-server queues and for multiserver queues with constant service times. 91b:60166
- Convexity properties of the Erlang loss formula. 91c:60270
- Hasegawa, Toshiharu *see* Takine, T., 91b:60268
- Hariv, Moshe *see* Assaf, David, 91c:60117
- He, Qi Ming *see* Xu, Guang Hui; et al., 91g:60117
- Hemker, Josef A note on sojourn times in queueing networks with multiserver nodes. 91m:60167
- Henderson, William (with Pearce, C. E. M.; Taylor, Peter Gerrard; van Dijk, Nico M.) Closed queueing networks with batch services. 91b:60102
- (with Taylor, Peter Gerrard) Product form in networks of queues with batch arrivals and batch services. 91b:60103
- Hershberger, John *see* Guibas, Leonidas J., 91g:68164
- Hindl, K. *see* Zhuang, Li, 91d:90051
- Hirayama, Tetsuji (with Kijima, Masaaki; Nishimura, Shōichi) Further results for dynamic scheduling of multiclass $G/G/1$ queues. 91b:60016
- Ho, Yu-Chi (with Hu, Jian Qiang) An infinitesimal perturbation analysis algorithm for a multiclass $G/G/1$ queue. 91k:60097
- Hopp, Wallace J. (with Simon, John T.) Bounds and heuristics for assembly-like queues. 91a:60242
- *see also* Duenyas, Izak, (Not in MR)
- Hsiao, Man-tung T. (with Lazar, Aurel A.) A game theoretic approach to decentralized flow control of Markovian queueing networks. 91a:60243
- (with Lazar, Aurel A.) An extension to Norton's equivalent. 91g:60107
- Hu, Jian Qiang *see* Ho, Yu-Chi, 91k:60097
- Hunt, P. J. (with Kelly, Frank P.) On critically loaded loss networks. 91c:60272
- Ibe, Oliver C. (with Trivedi, Kishor S.) Two queues with alternating service and server breakdown. 91b:60247
- Ivanovskii, V. B. Discrete priority queueing systems. 91b:60167
- Ivinskii, V. A. A condition for the invariance of stationary probabilities of states for networks of single-server queueing systems. 91b:60168
- Jacob, M. J. *see* Madhusoodanan, T. P., 91a:60253
- Jacobs, Patricia A. *see* Gaver, D. P., Jr., 91b:60164
- Jain, Madhu *see* Sharma, Chitranjan; et al., 91a:60263
- Jain, Sudha² (with Templeton, J. G. C.) Confidence interval for $M/M/2$ queue with heterogeneous servers. (Not in MR)
- Jin, Xing (with Wang, Rong Xin) On the speed of convergence for the queue length process of the $GI/G/k$ system in heavy traffic. 91m:60168
- Jun, Kyung P. (with Perros, Harry G.) An approximate analysis of open tandem queueing networks with blocking and general service times. 91c:90048
- Kalashnikov, V. V. (with Rachev, Svetlozar T.) ★ Mathematical methods for construction of queueing models. 91c:60274

- Regenerative queueing processes and their qualitative and quantitative analysis. 91i:60248
- Karp, Richard M. *see* Floyd, Sally, 91i:68079
- Kashyap, B. R. K. *see* Liu, Li Ming; et al., 91i:60100
- Kawashima, Takeshi *see* Arai, Koji, (Not in MR)
- Kelson, J. (with Servi, L. D.) The preempt-resume $M/G/1$ queue with feedback and clocked schedules. 91a:60245
- (with Servi, L. D.) The distributional form of Little's law and the Fuhrmann-Cooper decomposition. 91i:60169
- Kel'bert, M. Ya. (with Sukhov, Yu. M.) The Poisson limit theorem for hybrid star networks: mean field approximation. 91d:60238
- On the central limit theorem for Jackson networks on countable graphs. 91i:60249
- (with Sukhov, Yu. M.) On a class of packet-switching networks on an infinite graph. 91i:60169
- Kella, Offer (with Whitt, Ward) Diffusion approximations for queues with server vacations. 91i:60170
- Kelly, Frank P. *see* Hunt, P. J., 91i:60272; Cohen, Joel E., 91i:60109 and *Szczotka, Wladyslaw*, 91i:60106
- Khalil, Z. (with Falin, G. L.) A star-like circuit-switching network with multistage service. 91j:90031
- *see also* Dimitrov, B., 91j:60147
- Khomonenko, A. D. The departure stream of queueing systems of type $H_k/H_k/n/r \leq \infty$. 91a:60246
- Waiting-time distribution in queueing systems of type $GI_k/H_k/n/r \leq \infty$. (Not in MR)
- Klessler, Peter C. A simple proof of the equivalence of input and output intervals in Jackson networks of single server nodes. 91h:60104
- Kijima, Masaaki (with Makimoto, Naoki) On interchangeability for exponential single-server queues in tandem. 91i:60171
- On the largest negative eigenvalue of the infinitesimal generator associated with $M/M/n/n$ queues. 91i:60171
- *see also* Hirayama, Tetsuji; et al., 91i:68016 and Shirakawa, Hiroshi; et al., 91d:60245
- Kistner, K.-P. (with Switalski, M.) Warteschlangen-Netzwerke in der hierarchischen Produktionsplanung. (English summary) [Queueing networks in hierarchical production planning] (Not in MR)
- Karsell, Charles (with Tier, Charles) Approximations to the moments of the sojourn time in a tandem queue with overtaking. 91i:60250
- On the transient behavior of the $M/M/m/m$ loss model. 91i:60182
- On finite capacity processor-shared queues. 91i:60252
- On the diffusion approximation to a fork and join queueing model. 91i:60098
- Kogan, Ya. A. (with Krichagina, E. V.) Closed exponential queueing networks with blocking in heavy traffic. 91d:60239
- *see also* Basharin, G. P.; et al., 91i:60157
- Komatsu, Masaharu A priority queue with two priority classes whose nonpriority class call has preemptive and nonpreemptive parts. (Not in MR)
- König, Dieter (with Schmidt, Volker; van Doorn, Erik A.) On the "PASTA" property and a further relationship between customer and time averages in stationary queueing systems. 91a:60247
- Konstantopoulos, Panagiotis (with Walrand, Jean) Stationary [Stationarity] and stability of fork-join networks. 91a:60249
- (with Walrand, Jean) On the ergodicity of networks of $-GI/1/N$ queues. 91i:60127
- Kowada, Masashi *see* Liu, Li Wen; et al., 91i:60105
- Kramer, Manfred Analysis of a buffer queueing problem in discrete time. 91i:60128
- Krichagina, E. V. *see* Kogan, Ya. A., 91d:60239
- Krishnamoorthy, A. *see* Manoharan, M., 91i:60256
- Kruglyi, Z. L. (with Murshtein, M. S.) Computational algorithms for optimizing closed queueing networks. 91i:60253
- Kulkarni, V. G. (with Choi, Bong Dae) Retrial queues with server subject to breakdowns and repairs. 91i:60172
- Kumar, Ashok³ *see* Arora, R. T., 91i:60139
- Kushner, Harold J. Numerical methods for stochastic control problems in continuous time. 91i:93130
- *see also* Martins, Luiz Felipe, 91i:60102
- Larmore, Lawrence L. *see* Chrobak, Marek, 91i:68046
- Lazar, Aurel A. *see* Hsiao, Man-tung T., 91a:60243 and 91i:60107
- Lee, Hyo-Seong (with Srinivasan, Mandyam M.) Control policies for the $M^X/G/1$ queueing system. 91i:60130
- A short note on the Poisson input queueing system with start-up time and under control-operating policy. 91a:60251
- Lemoiné, Austin J. Waiting time and workload in queues with periodic Poisson input. 91a:60252
- van de Liefvoort, Appie The waiting-time distribution and its moments of the $PH/PH/1$ queue. 91i:60275
- Litvin, V. G. *see* Bocharov, P. P.; et al., 91i:60074
- Liu, Li Ming (with Kashyap, B. R. K.; Templeton, J. G. C.) On the $GI^X/G/\infty$ system. 91i:60100
- Liu, Li Wen (with Adachi, Koichi; Kowada, Masashi) A queueing model of a production system with two machines, one operator and priorities. 91h:60105
- Liu, Xi Suo *see* Xu, Guang Hui; et al., 91i:60117
- Liu, Zhen *see* Baccelli, François, 91i:60260
- Loris-Teghem, Jacqueline Waiting time distribution in some queueing systems with server vacations. (French summary) 91i:60276
- On a decomposition result for a class of vacation queueing systems. 91d:60240
- Lukashuk, L. I. Diffusion approximation of open queueing networks under critical load conditions. 91b:90087
- Diffusion approximation and filtering of characteristics of a queueing system with repeated calls. 91i:60254
- Machihara, Fumiaki A new approach to the fundamental period of a queue with phase-type Markov renewal arrivals. 91i:60255
- Madan, K. C. Time-dependent behaviour of a single channel queue with fluctuating efficiency. 91i:60108
- Madhusoodanan, T. P. (with Jacob, M. J.) Transient solution for a finite capacity $M/G^s/1$ vacation system with Bernoulli schedules. 91a:60253
- Maggi, P. L. *see* Bhandari, Rajiv, 91a:60236
- Makarov, V. I. Estimation of the waiting time in on-board queueing systems. (Not in MR)
- Makimoto, Naoki *see* Kijima, Masaaki, 91i:60171
- Makino, Toji Corrigendum to: "Remarks on separability of tandem queue with two stages" [TRU Math. 23 (1987), no. 1, 149–159]. (Not in MR)
- Makowski, Armand M. *see* Baccelli, François; et al., 91a:60235
- Manasse, Mark S. (with McGeoch, Lyle A.; Sleator, Daniel D.) Competitive algorithms for server problems. 91h:68072
- Manoharan, M. (with Krishnamoorthy, A.) A finite capacity $M/G/1$ queue with vacation. 91i:60256
- Martins, Luiz Felipe (with Kushner, Harold J.) Routing and singular control for queueing networks in heavy traffic. 91i:60102
- McGeoch, Lyle A. *see* Manasse, Mark S.; et al., 91h:68072
- McKenna, James A new proof and a tree algorithm for RECAL. 91a:68019
- Meester, Ludolf E. (with Shanthikumar, J. George) Concavity of the throughput of tandem queueing systems with finite buffer storage space. 91i:60174
- Meijer, T. M. J. *see* van Arem, B.; et al., 91d:60249
- Melamed, Benjamin (with Whitt, Ward) On arrivals that see time averages. 91i:60131
- Melikor, A. Z. *see* Ponomarenko, L. A., 91d:60242
- Mirzakhmedov, F. An optimization problem in queueing theory and a numerical method for solving it. (Not in MR)
- Miyazawa, Masakiyo Comparison of the loss probability of the $GI^X/GI/1/k$ queues with a common traffic intensity. 91i:60103
- Mori, Masao *see* Shirakawa, Hiroshi; et al., 91d:60245
- Morozov, E. V. A stationarity criterion for a certain class of non-Poisson servicing networks. 91i:60076
- Morrison, J. A. Sojourn and waiting times in a single-server system with state-dependent mean service rate. 91a:60254
- Single-server with linear state-dependent mean rate. 91a:60255
- Mukherjee, S. P. *see* Chatterjee, U., 91i:60239
- Murshtein, M. S. *see* Kruglyi, Z. L., 91i:60253
- Nain, Philippe Qualitative properties of the Erlang blocking model with heterogeneous user requirements. 91i:60257
- Nakasis, Tassos (with Ephremides, Anthony) Steady-state behavior of interacting queues—a numerical approach. (Not in MR)
- Neuts, Marcel F. ★ Structured stochastic matrices of $M/G/1$ type and their applications. 91d:60161
- The fundamental period of the queue with Markov-modulated arrivals. 91i:60173
- On Viterbi's formula for the mean delay in a queue of data packets. 91i:60277
- On the packet stream generated by a random flow of calls of random durations. 91i:60086
- Nishimura, Shōichi *see* Hirayama, Tetsuji; et al., 91i:68016
- Niu, Shun Chen (with Cooper, Robert B.) Duality and other results for $M/G/1$ and $GI/M/1$ queues, via a new ballot theorem. 91a:60256
- Novikov, M. M. A single-channel queueing system with a limited number of waiting places. (Russian) 91a:60257
- Obłade, Titi An algorithm proposed for busy-period subcomponent analysis of bulk queues. 91i:60174
- O'Connell, Colin Art On nonuniqueness of representations of phase-type distributions. 91a:60258
- Characterization of phase-type distributions. 91i:60258
- Ozawa, Toshihisa Analysis of a single server model with two queues having different service disciplines. (Not in MR)
- Alternating service queues with mixed exhaustive and K -limited services. 91i:60259
- Palakurthi, Sharmila *see* Cooper, Robert B., 91d:60231
- Panwar, Shivendra S. (with Towsey, Donald F.; Wolf, Jack Keil) Optimal scheduling policies for a class of queues with customer deadlines to the beginning of service. (Not in MR)
- Papir, Zdzisław Power optimization in a window-controlled virtual route using busy-idle period analysis. (Not in MR)
- Parthasarathy, P. R. *see* Sharafali, M., 91h:60107
- Pearce, C. E. M. *see* Henderson, William; et al., 91h:60102
- Pellissier, Jean *see* Bellamine, R., 91i:60158
- Percus, J. K. *see* Percus, Ora E., 91i:60109
- Percus, Ora E. (with Percus, J. K.) Elementary properties of clock-regulated queues. 91i:60109
- Perros, Harry G. *see* Jun, Kyung P., 91i:90048
- Ponomarenko, L. A. (with Melikov, A. Z.) Closed multiresource queueing systems with controllable priorities. 91d:60242
- Posner, M. J. M. *see* Berg, Menachem, 91a:90079
- Pourbabi, Behnam A note on a $D/G/K$ loss system with retrials. 91i:60110
- Poznyak, R. I. *see* Tikhonenko, O. M.; et al., 91i:60179
- Pukhal'ski, A. A. A multiphase queueing system with blocking during heavy traffic. 91i:60260
- Rachev, Svetlozar T. *see* Kalashnikov, V. V., 91i:60274
- Ramachandran, K. M. Nearly optimal control of queues in heavy traffic with heterogeneous servers. 91a:93063
- Ramaswami, V. A duality theorem for the matrix paradigms in queueing theory. 91i:60175
- From the matrix-geometric to the matrix-exponential. 91i:60104
- Rege, Kiran M. (with Sengupta, Bhaskar) A single server queue with gated processor-sharing discipline. 91i:60280
- Reiman, Martin I. (with Simon, Burton) A network of priority queues in heavy traffic: one bottleneck station. 91i:60176
- Rhee, Hahn-Kyoon (with Sivazlian, B. D.) Distribution of the busy period in a controllable $M/M/2$ queue operating under the triadic $(0, K, N, M)$ policy. 91i:60261
- Ribeiro do Val, João Bosco (with Davis, Mark H. A.) Local optimality criteria for stochastic control of piecewise deterministic processes. (Portuguese. English summary) 91i:49042
- Righter, Rhonda (with Shanthikumar, J. George; Yamazaki, Genji) On extremal service disciplines in single-stage queueing systems. 91i:60176

- Rosberg, Zvi. *see* Hanter, Sidney L., 91c:62087
- Ross, Keith W. (with Yao, David D.) Monotonicity properties for the stochastic knapsack. 91c:60262
- Saifov, O. Zh. Some theorems for the characteristics of a single-server queueing system when the service depends on the queue length. (Russian) 91k:60105
- Sakasegawa, Hirotsugu (with Wolff, Ronald W.) The equality of the virtual delay and attained waiting time distributions. 91c:60281
- Sampath Kumar, V. S. Some studies of denumerable Markov chains and a queueing model. 91c:60083
- Sarkar, Dilip (with Zangwill, W. I.) Expected waiting time for nonsymmetric cyclic queueing systems—exact results and applications. 91a:60262
- Sathia Moorthi, R. (with Ganesan, V.) Some results for multi-server bulk service Erlangian queueing system. (Not in MR)
- Satubaldyev, D. On a queueing system with a restriction. (Russian) (*see* 91b:00030)
- Schassberger, R. The steady-state appearance of the $M/G/1$ queue under the discipline of shortest remaining processing time. 91c:60265
- Schmidt, Volker *see* König, Dieter; et al., 91a:60247
- Scott, Meckinley (with Gray, William J.) A study of two queueing models involving bonus service. (Not in MR)
- Sengupta, Bhaskar An invariance relationship for the $G/G/1$ queue. 91g:60112
- The semi-Markovian queue: theory and applications. 91m:60177
- A queue with service interruptions in an alternating random environment. 91g:60113
- *see also* Rege, Kiran M., 91c:60280
- Serfaty, Richard F. Poisson functionals of Markov processes and queueing networks. 91c:60106
- Servi, L. D. *see* Kelson, J., 91a:60245 and 91f:60169
- Shakhovich, N. V. *see* Setakov, Yu. N., 91k:60096
- Shanthikumar, J. George (with Yao, David D.) Monotonicity and concavity properties in cyclic queueing networks with finite buffers. 91d:60243
- (with Yao, David D.) Stochastic monotonicity in general queueing networks. 91f:60178
- Level crossing analysis of priority queues and a conservation identity for vacation models. 91d:60244
- *see also* Richter, Rhonda; et al., 91f:60176 and Meester, Ludolf E., 91m:60174
- Sharafali, M. (with Parthasarathy, P. R.) On the distribution of a busy period for the many server Poisson queue. 91b:60107
- Sharma, Chitaranjan (with Jain, Madhu; Sharma, G. C.) A nonlinear programming approach for $M^x/G/1$ queueing model. 91a:60263
- Sharma, G. C. *see* Sharma, Chitaranjan; et al., 91a:60263; Gupta, B. S., (Not in MR); Singh, Hukam; et al., (Not in MR) and Gupta, B. S., (Not in MR)
- Sharma, Harish *see* Singh, Hukam; et al., (Not in MR)
- Sharma, Om Prakash (with Dass, J.) Initial busy period distributions for $M/M/2/N$ queueing system with heterogeneous servers. 91b:60078
- Shi, Ding Hua Probability analysis of the repairable queueing system $M/G(E_k/H)/1$. 91f:60266
- Shirakawa, Hiroshi (with Mori, Masao; Kijima, Masaaki) Evaluation of regular splitting queues. 91d:60245
- Shufga, Yu. N. ★ Элементы теории объемных стохастических сетей массового обслуживания и ее приложения. (Russian) (Elements of the theory of bulk stochastic queueing networks and its applications) 91f:60150
- Shwartz, Adam *see* Baccelli, François; et al., 91a:60235
- Sigman, Karl One-dependent regenerative processes and queues in continuous time. 91f:60267
- Sim, S. H. (with Templeton, J. G. C.) Further results for the $M/M(a, \infty)/N$ batch-service system. 91m:60179
- Simon, Burton *see* Reiman, Martin L., 91m:60176
- Simon, John T. *see* Hopp, Wallace J., 91a:60242
- Singh, Hukam (with Sharma, Harish; Sharma, G. C.) A multiserver queue with no passing and limited waiting time. (Not in MR)
- Singh, Man (with Srivastava, O. P.) The steady state solution of phase type queueing processes with impatient customers. (Not in MR)
- Sirakoulis, K. *see* Fakinos, D., 91d:60234
- Sivasamy, R. A bulk service queue with accessible and nonaccessible batches. (Not in MR)
- Sivazlian, B. D. (with Wang, K. H.) Diffusion approximation to the $G/G/R$ machine repair problem with warm standby spares. 91m:60180
- *see also* Rhee, Hahn-Kyoo, 91f:60261
- Sleator, Daniel D. *see* Manasse, Mark S.; et al., 91b:60072
- Smeltink, Eric *see* van Dijk, Nico M., 91m:60165
- Smith, J. MacGregor *see* Yuhaski, Steven J., Jr., 91d:60248
- Setakov, Yu. N. (with Shakhovich, N. V.) NP-hardness of problems of optimal service of three customers. (Russian. English summary) 91k:60096
- Spesivov, S. S. *see* Bocharov, P. P.; et al., 91b:60074
- Srinivasan, Mandyam M. *see* Lee, Hye-Seong, 91c:60130
- Srivastava, O. P. *see* Singh, Man, (Not in MR)
- Stadje, Wolfgang (with Zuckerman, Dror) Optimal strategies for some repair replacement models. 91f:60225
- A new approach to the distribution of the duration of the busy period for a $G/G/1$ queueing system. 91c:60133
- A note on the simple queue with variable intensities and two servers. 91g:60115
- Stanford, David A. (with Fischer, Wolfgang) The interdeparture-time distribution for each class in the $\sum M_i/G_i/1$ queue. 91a:60264
- Stidham, Shaler, Jr. (with Weber, Richard R.) Monotonic and insensitive optimal policies for control of queues with undiscounted costs. 91a:60265
- Stolyar, A. L. The asymptotics of stationary distribution for a closed queueing system. 91d:60246
- Sukharev, Yu. I. *see* Falin, G. I., 91f:60162
- Sukhov, Yu. M. *see* Kefbert, M. Ya., 91d:60238 and 91m:60169
- Sulanke, Hanselore *see* Brandt, Andreas; et al., 91b:60237
- Swiatecki, M. *see* Kistner, K.-P., (Not in MR)
- Szczotka, Wladyslaw Exponential approximation of waiting time and queue size for queues in heavy traffic. 91c:60283
- (with Kelly, Frank P.) Asymptotic stationarity of queues in series and the heavy traffic approximation. 91k:60106
- Sztrik, János (with Gal, T.) A queueing model for a terminal system subject to breakdowns. 91a:60023
- Takagi, Hideaki Time-dependent analysis of $M/G/1$ vacation models with exhaustive service. 91k:60107
- Takine, T. (with Hasegawa, Toshiharu) A note on $M/G/1$ vacation systems with waiting time limits. 91f:60268
- Taylor, Peter Gerrard *see* Henderson, William; et al., 91h:60102 and 91h:60103
- Templeton, J. G. C. *see* Liu, Li Ming; et al., 91k:60100; Sim, S. H., 91m:60179 and Jain, Sudha², (Not in MR)
- Tenckezis, Demosthenis *see* Bentler, Frederick J., 91f:60159
- Teugels, Josef L. The average virtual waiting time as a measure of performance. 91f:60269
- Tian, Nai Shuo Tandem networks of $M_i/G_i/\infty$ stochastic queueing systems. (Chinese) 91c:60079
- (with Zhang, Da Qing; Cao, Cheng Xuan) The $GI/M/1$ queue with exponential vacations. 91c:60136
- Tier, Charles *see* Kneast, Charles, 91f:60250
- Tijms, H. C. Good probabilistic ideas are often simple. (*see* 91a:90002)
- Tikhonenko, O. M. (with Zavgorodnev, S. M.; Poznyak, R. I.) Distribution of the total task length in multiline queueing systems. (Russian. English and German summaries) 91f:60179
- Erratum: "Distribution of the total volume of messages in a queueing system with group arrival" [Automat. i Telemekh. 1987, no. 11, 111–120; MR 89b:60231]. 91k:60108
- Towsey, Donald F. *see* Baccelli, François, 91b:60236 and Panwar, Shivendra S.; et al., (Not in MR)
- Trivedi, Kishor S. *see* Ibe, Oliver C., 91f:60247
- Tsiotras, George D. (with Badr, Hussein) A recursive methodology for the derivation of the blocking probabilities of tandem queues with finite capacity. (Not in MR)
- Tuteja, R. K. *see* Arora, R. T., 91f:60234
- Varadhan, S. R. S. *see* Gubner, John A.; et al., 91h:60101
- Voinea, A. A. A queueing model with distribution of calls between operative and stationary systems. (Russian) 91g:60116
- Wairand, Jean *see* Konstantopoulos, Panagiotis, 91a:60249; Bambos, Nicholas, 91c:60118; Konstantopoulos, Panagiotis, 91c:60127 and Bambos, Nicholas, 91c:60262
- Wang, K. H. *see* Sivazlian, B. D., 91m:60180
- Wang, Rong Xin *see* Jin, Xing, 91m:60168 and Zhang, Han Qin, 91m:60181
- Weber, Richard R. *see* Stidham, Shaler, Jr., 91a:60265
- Whitt, Ward *see* Melamed, Benjamin, 91c:60131; Glynn, Peter W., 91c:60269 and Kella, Offer, 91m:60170
- Wiens, Douglas P. On the busy period distribution of the $M/G/2$ queueing system. 91c:60109
- Willie, Helmut Individual blocking probabilities in the loss system $G_1 + \dots + G_N/M/1/0$. 91f:60180
- Winsten, C. B. (with Fryer, M. J.) Duality properties of a one-dimensional random walk and a new computational algorithm. (Not in MR)
- Winter, B. B. Joint simulation of backward and forward recurrence times in a renewal process. 91b:60098
- Wolf, Jack Keil *see* Panwar, Shivendra S.; et al., (Not in MR)
- Wolff, Ronald W. ★ Stochastic modeling and the theory of queues. 91a:60228
- *see also* Sakasegawa, Hirotsugu, 91c:60281
- Xu, Guang Hui (with He, Qi Ming; Liu, Xi Suo) The stationary distribution of a matched queueing system with a double input. (Chinese. English summary) 91g:60117
- A survey of queueing theory. 91f:60270
- Yamazaki, Genji *see* Richter, Rhonda; et al., 91f:60176
- Yao, David D. *see* Shanthikumar, J. George, 91d:60243; 91f:60178 and Ross, Keith W., 91f:60262
- Yuhaski, Steven J., Jr. (with Smith, J. MacGregor) Modeling circulation systems in buildings using state dependent queueing models. 91d:60248
- Yurachkovskii, A. P. Distribution of virtual and real waiting time in the queueing systems $H_i/G_i/1$, $E_r/G_i/1$. 91h:60168
- Zangwill, W. I. *see* Sarkar, Dilip, 91a:60262
- Zavgorodnev, S. M. *see* Tikhonenko, O. M.; et al., 91f:60179
- Zazanis, Michael A. Infinitesimal perturbation analysis estimates for moments of the system time of an $M/M/1$ queue. 91f:60182
- Zhang, Da Qing *see* Tian, Nai Shuo; et al., 91c:60136
- Zhang, Han Qin (with Wang, Rong Xin) Limit theorems for queues and waiting times in multichannel, multiple-server systems under heavy traffic. (Chinese) 91m:60181
- Zhang, Zhensheng Analytical results for waiting time and system size distributions in two parallel queueing systems. 91f:60271
- Zhuang, Li (with Hindi, K. S.) Mean value analysis for multiclass closed queueing network models of flexible manufacturing systems with limited buffers. 91d:90051
- Zuckerman, Dror *see* Stadje, Wolfgang, 91f:60225

90B25 Reliability, availability, maintenance, inspection [see also 60K10, 62N05]

- Aghedo, E. M. *see* Nwanneke, C. C., (Not in MR)
- Anantharaman, N. *see* Gopalan, M. N., 91k:90066 and (Not in MR)
- Arizoshi, Hiromu *see* Noda, Takashi; et al., (Not in MR)
- Assaf, David (with Shanthikumar, J. George) Optimal spares provisioning when component life is changing. 91b:90092
- Bansal, Sachendra *see* Gupta, Rakesh, (Not in MR)
- Bashyam, K. R. *see* Sankaranarayanan, G.; et al., 91m:90074
- Brennerzouga, Ali *see* Wilson, John G., 91c:90048
- Berg, Menachem (with Posner, M. J. M.) Customer delay in $M/G/\infty$ repair systems with spares. 91a:90079
- Bhalla, V. K. *see* Kapur, P. K., 91h:90095
- Blocher, James D. (with Chand, Suresh) Scheduling of parallel processors: a posterior bound on LPT sequencing and a two-step algorithm. (Not in MR)

- Block, Henry W. (with Langberg, Naftali A.; Savits, Thomas H.) Maintenance comparisons: block policies. (Not in MR)
- Boukas, El-Kebir (with Haurie, Alain) Manufacturing flow control and preventive maintenance: a stochastic control approach. (Not in MR)
- Burlacu, Veronica (with Pugna, Irina) Optimizing the reliability of coherent binary systems in the designing stage. (French and Russian summaries) (Not in MR)
- Cabuk, Serafettin Testing system availability hypotheses. (Not in MR)
- Cal, Kai Yuan (with Wen, Chuan Yuan) Street-lighting lamps replacement: a fuzzy viewpoint. (Not in MR)
- Cao, Jin Hua Availability and failure frequency of a Gnedenko system. (Not in MR)
- Chand, Suresh see Blocher, James D. (Not in MR)
- Christer, A. H. (with Redmond, D. F.) A recent mathematical development in maintenance theory. (Not in MR)
- Cléroux, Robert see Kadi, Daoud Ait, 91k:90069
- Colbourn, Charles J. see Nel, Louis Daniel², 91b:90097
- Del Olmo, R. see de la Fuente, D.; et al. (Not in MR)
- Devooght, J. (with Dubus, A.; Smids, C.) Suboptimal inspection policies for imperfectly observed realistic systems. 91b:90093
- Dörflner, Péter see Hoffer, János, 91k:90067
- Du, Ding Zhu (with Hwang, F. K.) Optimal assembly of an s -stage k -out-of- n system. 91f:90056
- Dubus, A. see Devooght, J.; et al., 91b:90093
- Duffua, S. O. (with Raouf, A.) An optimal sequence in multicharacteristics inspection. 91j:90037
- Fawzi, B. B. (with Hawkes, A. G.) Availability of a series system with replacement and repair. 91j:90038
- Filus, J. K. Some modifications of the multidimensional Marshall and Olkin model. 91b:90094
- Fishman, George S. How errors in component reliability affect system reliability. (Not in MR)
- de la Fuente, D. (with Hernández, C.; Del Olmo, R.) Adaptive forecasting for process quality control. (Spanish) (Not in MR)
- Fujii, Susumu see Sandoz, Hiroaki, (Not in MR)
- Gajtarek, Dariusz A note on impulsive control of Feller processes with costly information. (Czech summary) 91a:90080
- Gen, Mitsuo see Ida, Kenichi; et al. (Not in MR)
- Gertler, Janos (with Singer, David) A new structural framework for parity equation-based failure detection and isolation. (Not in MR)
- Göb, R. Zur einfachen Bestimmung kostenoptimaler Prüfpläne. [On the simple determination of cost-optimal sampling plans] (Not in MR)
- Goel, Rakesh see Gupta, Rakesh, (Not in MR)
- Goldberg, Jeffrey (with Szidarovszky, Ferenc) A general model and convergence results for determining vehicle utilization in emergency systems. (Not in MR)
- Gopalan, M. N. (with Anantharaman, N.) Analysis of production systems with reliable machines and random processing times—a review. 91k:90066
- (with Anantharaman, N.) Stochastic analysis of machine interference of a production system with identical machines. (Not in MR)
- Goyal, S. K. see Gunasekaran, A.; et al. (Not in MR)
- Gresh, Doris Lloyd ★ A primer of reliability theory. 91d:90048
- Gunasekaran, A. (with Goyal, S. K.; Subash Babu, A.; Ramaswamy, N.) Effect of machine failures in a multi-stage multi-facility and multi-product production-inventory system. (Not in MR)
- Gupta, Rakesh (with Goel, Rakesh) Cost-benefit analysis of two-unit parallel system with administrative delay in repair. (Not in MR)
- (with Bansal, Sachendra) Profit analysis of a two-unit priority standby system subject to degradation. (Not in MR)
- Hao, Fred H. The optimal procedures for quantitative group testing. 91d:90049
- Haurie, Alain see Boukas, El-Kebir, (Not in MR)
- Hawkes, A. G. see Fawzi, B. B., 91j:90038
- Hernández, C. see de la Fuente, D.; et al. (Not in MR)
- Hidaka, Toshimitsu Analysis of parallel redundant system with dependent failures. (Not in MR)
- Higashiyama, Youichi see Noda, Takashi²; et al. (Not in MR)
- Hishitani, Jun see Yamada, Shigeru; et al. (Not in MR)
- Hoffer, János (with Dörflner, Péter) Reliability and production cost calculation with peak load forecast uncertainty. (Hungarian. English summary) 91k:90067
- Hopp, Wallace J. (with Nair, Suresh K.) Timing replacement decisions under discontinuous technological change. 91m:90073
- Hwang, F. K. (with Papastavridis, Stavros G.) Binary vectors with exactly k nonoverlapping m -tuples of consecutive ones. (Not in MR)
- see also Du, Ding Zhu, 91f:90056
- Ida, Kenichi (with Sasaki, Masato; Gen, Mitsuo) Optimization of system reliability using bicriteria 0-1 linear programming with GUB constraints. (Not in MR)
- Jensen, Uwe A general replacement model. (German summary) 91k:90068
- de Jongh, P. J. (with de Wet, T.) Quantification of a malfunction in a weapon system. 91a:90081
- Kadi, Daoud Ait (with Cléroux, Robert) Replacement strategies with mixed corrective actions at failure. 91b:90069
- Kalashnikov, V. V. Analytical and simulation estimates of reliability for regenerative models. 91a:90082
- Kapur, P. K. (with Bhalla, V. K.) Optimum maintenance policies maximizing service reliability. 91b:90095
- Khomenko, L. P. see Kotlyar, V. Yu., (Not in MR)
- Kijima, Masaaki (with Nakagawa, Toshio) A cumulative damage shock model with imperfect preventive maintenance. (Not in MR)
- Konstantinidis, D. G. The monotone trajectory principle for a model of a complex renewable system with one repair unit. (Russian) 91f:90057
- Korlat, A. N. Reliability of the system "P from N" with one repair device. (Russian) (Not in MR)
- Kossov, A. (with Preuß, W.) Zuverlässigkeitsanalyse konsekutiver Systeme—eine Übersicht. (English summary) [Reliability analysis of consecutive systems—a survey] 91c:90054
- Kotlyar, V. Yu. Two-sided estimates for the reliability of monotone systems. (Not in MR)
- (with Khomenko, L. P.) Investigation of the reliability of a system with an unloaded reserve and controllable failures in an array setup. (Not in MR)
- Kovalenko, I. N. (with Nakonechnyi, A. N.) ★ Приближенный расчёт и оптимизация надёжности. (Russian) [Approximate calculation and optimization of reliability] 91k:90070
- Kozlovskii, V. A. Experiments that check for the local inaccuracies of locally diagnosable automata. (Russian) (see 91c:00019)
- Kuo, Way see Zuo, Mingjian, 91a:90088
- Kusaka, Yasuo (with Suzuki, Hisatoshi) Equipment replacement behavior under innovative technological advances. 91a:90083
- Kur'min, A. B. Functional monitoring and state correction for the control loop of a movable object. (Not in MR)
- Langberg, Naftali A. see Block, Henry W.; et al. (Not in MR)
- Leonov, V. Yu. (with Taurkov, V. I.) Optimal control in an equipment-restoring system. (Not in MR)
- Levin, Vitalii I'ich Logic methods for obtaining deterministic estimates for the reliability of systems. (Not in MR)
- Makarov, Yu. M. Formulas with guaranteed accuracy for the reliability of systems with time redundancy. (Not in MR)
- Malon, David M. When is greedy module assembly optimal? 91b:90041
- Manzou, Mahmoud A. see Suliman, Mamoun, (Not in MR)
- Mata-Montero, Erick Resilience of partial k -tree networks. 91b:90096
- Matits, Agnes Measurement of the reliability of projected data. (Not in MR)
- Melikov, A. Z. Approximate optimization of multiprocessor queueing systems. (Russian. English summary) (Not in MR)
- Montero de Juan, Francisco Javier (with Tejada Cazorla, Juan; Yañez Gestoso, Javier) Structural properties of continuum systems. (Not in MR)
- Nair, Suresh K. see Hopp, Wallace J., 91m:90073
- Nakagawa, Toshio A summary of replacement models with changing failure distributions. (French summary) 91a:90084
- see also Kijima, Masaaki, (Not in MR)
- Nakonechnyi, A. N. see Kovalenko, I. N., 91k:90070
- Nel, Louis Daniel² (with Colbourn, Charles J.) Combining Monte Carlo estimates and bounds for network reliability. 91b:90097
- Nishida, Toshio see Shinmori, Shuichi; et al., 91m:90075
- Noda, Takashi² (with Higashiyama, Youichi; Ariyoshi, Hiromu; Shirakawa, Isao) An optimal symbolic reliability expression using spanning trees for source-to-all-terminal systems. (Not in MR)
- Nowik, Shmuel Identifiability problems in coherent systems. 91b:90042
- Nwanenna, C. C. (with Aghedo, E. M.) Reliability monitoring and control in electric power systems. (Not in MR)
- Ohi, Fumio see Shinmori, Shuichi; et al., 91m:90075
- Onisawa, Takehisa An application of fuzzy concepts to modelling of reliability analysis. (Not in MR)
- Osaki, Shunji see Yamada, Shigeru; et al. (Not in MR)
- Papastavridis, Stavros G. see Hwang, F. K., (Not in MR)
- Parnes, Milton see Vakil, Farok; et al. (Not in MR)
- Possner, M. J. M. see Berg, Menachem, 91a:90079
- Prékopa, András Sharp bounds on probabilities using linear programming. 91b:90098
- Preuß, W. see Kossov, A., 91c:90054
- Pugna, Irina see Burlacu, Veronica, (Not in MR)
- Raghavaro, Damaraju see Vakil, Farok; et al. (Not in MR)
- Ramaswamy, N. see Gunasekaran, A.; et al. (Not in MR)
- Raouf, A. see Duffua, S. O., 91j:90037
- Red'kin, N. P. Circuits that allow short unit diagnostic tests. 91b:90099
- Redmond, D. F. see Christer, A. H., (Not in MR)
- Revyakov, M. I. Optimal in reliability of allocation of standby systems consisting of elements of different reliability. (Not in MR)
- Estimation of the reliability of a system consisting of groups of single-type elements by the number of their failure-free tests. (Russian. English summary) (Not in MR)
- Ritchken, Peter (with Wilson, John G.) (m, T) group maintenance policies. 91b:90100
- Rodrigues Dias, J. A new approximation for the inspection period of systems with different failure rates. (Not in MR)
- Some approximate inspection policies for a system with imperfect inspections. (French summary) (Not in MR)
- Sandoz, Hiroaki (with Fujii, Susumu) Designing an optimal life test with type I censoring. (Not in MR)
- Sankaranarayanan, G. (with Subramaniam, K. P.; Bashyam, K. R.) Optimal replacement of damage model with shocks governed by a general stream without after-effects. 91m:90074
- Sasaki, Masato see Ida, Kenichi; et al. (Not in MR)
- Savits, Thomas H. see Block, Henry W.; et al. (Not in MR)
- Schäbe, Hendrik Optimal random replacement policies for repairable systems. 91b:90032
- See, Sun-Kwon (with Yum, Bong-Jin) Accelerated life test plans under intermittent inspection and type-I censoring: the case of Weibull failure distribution. (Not in MR)
- Shanthikumar, J. George see Asaf, David, 91b:90092
- Shi, Ding Hua A survey on reliability of network systems. (Chinese) (Not in MR)
- Shinmori, Shuichi (with Ohi, Fumio; Nishida, Toshio) Stochastic bounds for generalized systems in reliability theory. 91m:90075
- Shirakawa, Isao see Noda, Takashi²; et al. (Not in MR)
- Singer, David see Gertler, Janos, (Not in MR)
- Skobelov, O. E. see Zaslavskii, V. A., 91a:90087
- Smids, C. see Devooght, J.; et al., 91b:90093
- Smidt, Wolfgang Optimal stopping in a cumulative damage model. (German summary) (Not in MR)
- Stallik, Yu. V. Optimization of the period of control of engineering systems in maintaining their preparedness at a given level. (Russian) 91b:90043

- Sobash Babu, A. *see* Gunasekaran, A.; et al., (Not in MR)
- Subramanyam, K. P. *see* Sankaranarayanan, G.; et al., 91m:90074
- Suliman, Mamoun (with Manzoul, Mahmoud A.) Neural networks applied to reliability analysis of fault-tolerant hardware. (Not in MR)
- Suzuki, Hirotoshi *see* Kusaka, Yasuo, 91a:90083
- Szidarovszky, Ferenc *see* Goldberg, Jeffrey, (Not in MR)
- Tatashev, A. G. Optimal strategy for replacement of system elements with an unloaded standby. (Not in MR)
- Tejada Cazorla, Juan *see* Montero de Juan, Francisco Javier; et al., (Not in MR)
- Tsiotras, George D. Exact analysis of the joint production quantity-quality of a two-station stable tandem manufacturing system with restricted capacity. (Not in MR)
- Tsurkov, V. I. *see* Leonov, V. Yu., (Not in MR)
- Vakil, Farek (with Parnes, Milton; Raghavara, Damaraju) Group testing with at most two defectives when every item is included in exactly two group tests. (Not in MR)
- Valdés Castro, Concepción Reliability estimate for a complex of identical repairable systems. (Spanish. English summary) 91g:90073
- Vanderperre, E. J. On the reliability of a multiple standby redundant system with switch-over device. 91a:90085
- Vostretsov, A. G. Detection of an unreliable element in a flexible manufacturing system. 91a:90086
- Wen, Chuan Yuan *see* Cai, Kai Yuan, (Not in MR)
- Wenour, Michael L. A reliability model based on the gamma process and its analytic theory. 91e:90047
- de Wet, T. *see* de Jongh, P. J., 91a:90081
- Wilson, John G. (with Benmerzouga, Ali) Optimal m -failure policies with random repair time. 91e:90048
- *see also* Ritchken, Peter, 91b:90100
- Yamada, Shigeru (with Hishitani, Jun; Osaki, Shunji) Test-effort dependent software reliability measurement. (Not in MR)
- Yañez Gestoso, Javier *see* Montero de Juan, Francisco Javier; et al., (Not in MR)
- Ye, Meng-Hua Optimal replacement policy with stochastic maintenance and operation costs. 91c:90055
- Yum, Bong-Jin *see* Seo, Sun-Koon, (Not in MR)
- Zaslavskii, V. A. (with Skobelev, O. E.) An approach to optimizing the reliability of systems with monotone structure. (Russian) 91a:90087
- Zao, Mingjian (with Kuo, Way) Design and performance analysis of consecutive- k -out-of- n structure. 91a:90088
- Items with secondary classifications in 90B25
- AboElFotouh, Hosam M. (with Colbourn, Charles J.) Efficient algorithms for computing the reliability of permutation and interval graphs. 91m:68008
- Abouammoh, A. M. (with Ahmed, Abdul-Hadi Nabih) Two notions of positive ageing based on stochastic dominance. 91f:62130
- (with Ahmed, Abdul-Hadi Nabih; Khalique, A.) Partial orderings of life distributions based on ageing properties. 91m:62174
- Agrawal, Prabha *see* Singh, H. R., (Not in MR)
- Ahmed, Abdul-Hadi Nabih The generalized HNBUE (HNBUE) class of life distributions. (German summary) 91f:62157
- *see also* Abouammoh, A. M., 91f:62130 and 91m:62174
- Anisimov, V. V. (with Sereda, V. I.) Sample control of semi-Markov systems. 91c:60116
- *see also* Satrik, János, 91d:60217
- Arjas, Elja Survival models and martingale dynamics. 91c:60052
- Bagai, Isha *see* Deshpande, Jayant V.; et al., 91f:62159
- Bagdonavichyus, Viliyandas Accelerated life models when the stress is not constant. 91j:62138
- Beaver, Donald Multiparty protocols tolerating half faulty processors. 91c:94019
- Becker, Nikolaus (with Rittgen, Werner) Some mathematical properties of cumulative damage models regarding their application in cancer epidemiology. 91c:92073
- Bobbio, Andrea (with Trivedi, Kishor S.) Computation of the distribution of the completion time when the work requirement is a PH random variable. 91c:60251
- Boxma, Onno J. *see* Levy, Hanoch; et al., 91f:60172
- Boyles, R. A. *see* Reneau, D. M.; et al., 91m:62179
- Brandt, Andreas (with Sulanke, Hannelore) Reliability analysis of a stand-by system with repair and intermediate stocks for failed and repaired units. 91g:60103
- Bucur, Eng. I. Analytic model for multiple fault pseudorandom testing. (French and Russian summaries) 91m:94040
- Buono, Vanderlei C. Generalizing the importance of components for multistate monotone systems. 91c:60113
- Chao, Min Te (with Fu, James C.) A limit theorem of certain repairable systems. 91a:62264
- Chen, Qing Hua* Bayes estimation of reliability for a series stress-strength system in the BVE case. (Chinese. English summary) 91c:62091
- Chrysaphinou, Ourania (with Papastavridis, Stavros G.) Limit distribution for a consecutive- k -out-of- n : F system. 91f:60150
- (with Papastavridis, Stavros G.) Reliability of a consecutive- k -out-of- n system in a random environment. 91f:60222
- Çinar, Erhan (with Shaked, Moshe; Shanthikumar, J. George) On lifetimes influenced by a common environment. 91f:60151
- Colbourn, Charles J. *see* AboElFotouh, Hosam M., 91m:68008
- Deshpande, Jayant V. (with Singh, Harshinder; Bagai, Isha; Jain, Kanchan) Some partial orders describing positive ageing. 91f:62159
- Dutta, K. (with Srivastav, G. L.) Warm standbys in stress-strength model. (Not in MR)
- Ebrahimi, Nader Ordering of repairable systems. 91c:60252
- El-Affendi, M. A. Some practical results for nonexponential models of computer performance analysis. (Arabic summary) 91f:60012
- Fan, Da Yin Lower confidence limits for pass-fail components and reliability of series systems, taking into account the probability of correct inspection. (Chinese. English summary) 91j:62140
- Federgruen, Avi (with So, Kut C.) Optimal maintenance policies for single-server queueing systems subject to breakdowns. 91c:90052
- Finbow, A. S. (with Hartnell, Bert L.) On designing a network to defend against random attacks of radius two. 91g:90065
- Fu, James C. *see* Chao, Min Te, 91a:62264
- Gen, Mitsuo (with Ida, Kenichi; Lee, Jae-Uk) A computational algorithm for solving 0-1 goal programming with GUB structures and its application for optimization problems in system reliability. (Not in MR)
- Genis, Ya. G. Two-sided estimates for the reliability of a renewable system under a nonstationary operational regime. (Not in MR)
- Goes, Paulo B. *see* Sumita, Ushio; et al., 91a:68051
- Harrison, J. Michael (with Williams, Ruth J.) On the quasireversibility of a multiclass Brownian service station. 91f:60204
- Hartnell, Bert L. *see* Finbow, A. S., 91g:90065
- Hoppe, Veronika Erstellung zulässiger Bedienungspläne für die vorbeugende Instandhaltung von Systemen paralleler Anlagen. I. [Set-up of reliable service plans for preventive maintenance of systems of parallel devices. I] 91g:90074
- Hu, Chin Yuan *see* Huang, Ti Yuan, (Not in MR)
- Huang, Ti Yuan (with Hu, Chin Yuan) More comparisons of MLE with UMVUE for exponential families. (Not in MR)
- Ida, Kenichi *see* Gen, Mitsuo; et al., (Not in MR)
- Jain, Kanchan *see* Deshpande, Jayant V.; et al., 91f:62159
- Kaio, Naoto *see* Sumita, Ushio; et al., 91a:68051
- Kalashnikov, V. V. ★ Коллективные оценки в теории надежности. (Russian) [Quantitative estimates in reliability theory] 91c:60114
- Karibskii, V. V. (with Lubkov, N. V.) Construction of a model and the analysis of the reliability of a multiprocessor computer system. (Not in MR)
- Katehakis, Michael N. (with Melolidakis, Costis) On stochastic optimality of policies in first passage problems. 91h:90034
- Khalique, A. *see* Abouammoh, A. M.; et al., 91m:62174
- Kijima, Masaaki Uniform monotonicity of Markov processes and its related properties. 91d:60153
- Koehler, Gary J. Relationships between various Markovian decision problem classes. 91m:90184
- Krantz, David M. *see* Suppes, Patrick; et al., 91g:90022
- Lam, Yeh A repair replacement model. 91f:60152
- Lee, Jae-Uk *see* Gen, Mitsuo; et al., (Not in MR)
- Levy, Hanoch (with Sidi, Moshe; Boxma, Onno J.) Dominance relations in polling systems. 91f:60172
- Lim, Jong-Tae (with Meerkov, Semyon M.; Top, Ferudun) Homogeneous, asymptotically reliable serial production lines: theory and a case study. 91h:90044
- Lomakin, M. I. Guaranteed estimates for the probability of failure-free work in a class of distributions with fixed moments. (Russian) (Not in MR)
- Lubkov, N. V. *see* Karibskii, V. V., (Not in MR)
- Luce, R. Duncan *see* Suppes, Patrick; et al., 91g:90022
- Mahmoud, Mohamed (with Mokhles, N. A.; Saleh, E. H.) A two nonidentical units redundant system with common-cause failure and one standby unit. 91c:60115
- Meerkov, Semyon M. *see* Lim, Jong-Tae; et al., 91h:90044
- Melolidakis, Costis *see* Katehakis, Michael N., 91h:90034
- Miescke, Klaus J. Optimum replacement policies for using the most reliable components. 91m:62177
- Mokhles, N. A. *see* Mahmoud, Mohamed; et al., 91c:60115
- Natvig, Bent On information-based minimal repair and the reduction in remaining system lifetime due to the failure of a specific module. 91m:62178
- Neuts, Marcel F. (with Sumita, Ushio; Takahashi, Yoshitaka) Renewal characterization of Markov modulated Poisson processes. 91a:60225
- O'Connell, Colm Art On the limitations of multivariate phase-type families. 91m:60031
- Papastavridis, Stavros G. *see* Chrysaphinou, Ourania, 91f:60150 and 91f:60222
- Pezeshk, H. *see* Soltani, A. Reza, 91f:60231
- Rachev, Svetlozar T. (with Yakovlev, A. Yu.) Some problems of the competing risks theory. 91a:62270
- Rao, B. Raja Life expectancy for a class of life distributions having the "setting the clock back to zero" property. (Not in MR)
- Reneau, D. M. (with Samaniego, Francisco J.; Boyles, R. A.) Estimating a survival curve when new is better than used with respect to a distinguished set. 91m:62179
- Rittgen, Werner *see* Becker, Nikolaus, 91c:92073
- Rubin, Izhak (with Zhang, Zhensheng) Performance analysis on test scheduling schemes for a multi-access communications network. 91m:68016
- Saleh, E. H. *see* Mahmoud, Mohamed; et al., 91c:60115
- Samaniego, Francisco J. *see* Reneau, D. M.; et al., 91m:62179
- Schochetman, Irwin E. (with Smith, Robert L.) Infinite horizon optimization. 91g:90175
- Sereda, V. I. *see* Anisimov, V. V., 91c:60116
- Shaked, Moshe *see* Çinar, Erhan; et al., 91f:60151
- Shanthikumar, J. George *see* Çinar, Erhan; et al., 91f:60151
- Shpak, V. D. A general approach to the construction of unbiased analytic-statistical estimates for reliability and efficiency indices of systems. (Russian) 91c:60257
- Sidi, Moshe *see* Levy, Hanoch; et al., 91f:60172
- Singh, H. R. (with Agrawal, Prabha) Information theoretic approach for optimum redundancy. (Not in MR)
- Singh, Harshinder *see* Deshpande, Jayant V.; et al., 91f:62159
- Smith, Robert L. *see* Schochetman, Irwin E., 91g:90175
- So, Kut C. *see* Federgruen, Avi, 91c:90052
- Soltani, A. Reza (with Pezeshk, H.) A shock model based on the atoms of Poisson random measure. 91f:60231
- Srivastav, G. L. *see* Dutta, K., (Not in MR)
- Sulanke, Hannelore *see* Brandt, Andreas, 91g:60103
- Sumita, Ushio (with Kaio, Naoto; Goes, Paulo B.) Analysis of effective service time with age dependent interruptions and its application to optimal rollback policy for database management. 91a:68051
- *see also* Neuts, Marcel F.; et al., 91a:60225
- Suppes, Patrick (with Krantz, David M.; Luce, R. Duncan; Tversky, Amos) ★ Foundations of measurement. Vol. II. 91g:90022

- Satrik, János (with Anisimov, V. V.) Reliability analysis of a complex renewable system with fast repair. (German and Russian summaries) 91d:60217
- Takahashi, Yoshitaka see Neuts, Marcel F.; et al., 91a:60225
- Teugels, Jozef L. Renewal theory and applications in engineering. 91g:90077
- Top, Ferudun see Lim, Jong-Tae; et al., 91h:90044
- Trivedi, Kishor S. see Bobbio, Andrea, 91c:60251
- Tversky, Amos see Suppes, Patrick; et al., 91g:90022
- Vogt, Herbert ★ Methoden der Statistischen Qualitätskontrolle. (German) [Methods of statistical quality control] 91f:62163
- Wahnon, Elias A min-max testing approach to failure detection and identification. (see 91f:93002)
- Williams, Ruth J. see Harrison, J. Michael, 91f:60204
- Yakovlev, A. Yu. see Rachev, Svetlozar T., 91a:62270
- Yang, Grace L. A renewal look at switching rules in the MIL-STD-105D sampling system. 91a:62281
- Yunos, M. Naim Transient blocking probability in a loss system with arbitrary initial conditions. 91f:60181
- Zhang, Jian Zhong Analysis and design of fault-tolerant capability of single-stage interconnection network RMISE. 91d:68002
- Zhang, Xue Jun ★ Auxiliary signal design in fault detection and diagnosis. 91b:94001
- Zhang, Zhenheng see Rubin, Izhak, 91m:68016

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences see Zhang, Xue Jun, 91b:94001

90B30 Production models

- Aneja, Y. P. see Singh, N.; et al., (Not in MR)
- Baker, Kenneth R. Lot-sizing procedures and a standard data set: a reconciliation of the literature. (Not in MR)
- Blażewicz, Jacek (with Drozdowski, Maciej; Soniewicki, Bolesław; Walkowiak, Rafał) Two-dimensional cutting problem basic complexity results and algorithms for irregular shapes. (Not in MR)
- Drozdowski, Maciej see Blażewicz, Jacek; et al., (Not in MR)
- Dubois, Didier (with Steck, Kathryn E.) Dynamic analysis of repetitive decision-free discrete-event processes: applications to production systems. (Not in MR)
- Golovnya, S. G. see Istomin, L. A., (91c:90001)
- Gutiérrez, J. M. (with Mata, V.) Layout of production lines considering the material movement system. (German summary) (Not in MR)
- Harti, Richard (with Krauth, Johannes) Optimal production mix. (Not in MR)
- Heinrich, Claus E. ★ Mehrstufige Losgrößenplanung in hierarchisch strukturierten Produktionsplanungssystemen. (German) [Multilevel lot-size planning in hierarchically structured production planning systems] 91a:90089
- Hillion, Hervé P. Timed Petri nets and application to multi-stage production systems. (see 91b:68002)
- Hindi, K. S. see Zhuang, Li, 91d:90051
- Hoppe, Veronika Erstellung zulässiger Bedienungspläne für die vorbeugende Instandhaltung von Systemen paralleler Anlagen. I. [Set-up of reliable service plans for preventive maintenance of systems of parallel devices. I.] 91g:90074
- Erstellung zulässiger Bedienungspläne für die vorbeugende Instandhaltung von Systemen paralleler Anlagen. II. Optimale Belegungspläne. [Set-up of reliable service plans for preventive maintenance of systems of parallel devices. II. Optimal components layout diagrams] 91g:90075
- Erstellung zulässiger Bedienungspläne für die vorbeugende Instandhaltung von Systemen paralleler Anlagen. III. Algorithmische Erzeugung der optimalen Belegungspläne. [Set-up of reliable service plans for preventive maintenance of systems of parallel devices. III. Algorithmic generation of optimal component layout diagrams] 91g:90076
- Istomin, L. A. (with Golovnya, S. G.) Determining the rational structure of the interchangeability of goods in production-transportation problems. (Russian) (see 91c:90001)
- Iyer, Ananth V. (with Ratliff, H. Donald; Vijayan, Gopalakrishnan) On an edge ranking problem of trees and graphs. 91c:90071
- Kafnitkaya, R. B. The problem of finding the optimal ratio between capacity and volume of a storehouse in multiproduct multistage processing of raw materials. (Russian) (Not in MR)
- Kislyak, V. M. A procedure for optimizing bulk scheduling of machine-building production. (Russian) (see 91c:90001)
- Kistner, K.-P. (with Switalski, M.) Warteschlangen-Netzwerke in der hierarchischen Produktionsplanung. (English summary) [Queueing networks in hierarchical production planning] (Not in MR)
- Komonenko, I. V. ★ Оптимизация развития производственных систем, представленных имитационными моделями. (Russian) [Optimization of the development of production systems represented by simulation models] (Not in MR)
- Krauth, Johannes see Harti, Richard, (Not in MR)
- Lasserre, Jean Bernard (with Mercé, C.) Robust hierarchical production planning under uncertainty. (Not in MR)
- Leung, Janny M. Y. (with Magnanti, Thomas L.; Vachani, Rita) Facets and algorithms for capacitated lot sizing. 91b:90101
- Li, Tie-Ke (with Nakamura, Nobuto) Part-grouping problem in planning of flexible manufacturing systems. 91a:90090
- Lim, Jong-Tae (with Meerkov, Semyon M.; Top, Ferudun) Homogeneous, asymptotically reliable serial production lines: theory and a case study. 91h:90044
- Magnanti, Thomas L. see Leung, Janny M. Y.; et al., 91b:90101
- Mata, V. see Gutiérrez, J. M., (Not in MR)
- Meerkov, Semyon M. see Lim, Jong-Tae; et al., 91h:90044
- Meizin, L. K. Control of a dynamical system with reserves. (Not in MR)
- Mercé, C. see Lasserre, Jean Bernard, (Not in MR)
- Nakamura, Nobuto see Li, Tie-Ke, 91a:90090
- Noyes, D. Les réseaux de Petri et la modélisation modulaire des systèmes de production. (English summary) [Petri nets and the modular modelization of production systems] (Not in MR)

- Pashchenko, M. G. An algorithm for calculating a lower bound for a dynamic problem of the optimal choice of the composition of machinery with constraints on production volumes. (Russian) (Not in MR)
- Perry, David (with Posner, M. J. M.) Analysis of production/inventory systems with several production rates. 91d:90050
- Posner, M. J. M. see Perry, David, 91d:90050
- Rana, S. P. see Singh, N.; et al., (Not in MR)
- Ratliff, H. Donald see Iyer, Ananth V.; et al., 91h:90071
- Rhyne, David M. A methodology for optimum vertical job loading. (see 91b:90002)
- Sandbothe, Richard A. (with Thompson, Gerald L.) A forward algorithm for the capacitated lot size model with stockouts. (Not in MR)
- (Schneeweiss, Ch.) see Heinrich, Claus E., 91a:90089
- Sengupta, Jati K. Structural efficiency in stochastic models of data envelopment analysis. (Not in MR)
- Singh, N. (with Aneja, Y. P.; Rana, S. P.) Multiobjective modelling and analysis of process planning in a manufacturing system. (Not in MR)
- Soniewicki, Bolesław see Blażewicz, Jacek; et al., (Not in MR)
- Stecke, Kathryn E. see Dubois, Didier, (Not in MR)
- Switalski, M. see Kistner, K.-P., (Not in MR)
- Teugels, Jozef L. Renewal theory and applications in engineering. 91g:90077
- Thompson, Gerald L. see Sandbothe, Richard A., (Not in MR)
- Top, Ferudun see Lim, Jong-Tae; et al., 91h:90044
- Vachani, Rita see Leung, Janny M. Y.; et al., 91b:90101
- Vijayan, Gopalakrishnan see Iyer, Ananth V.; et al., 91h:90071
- Walkowiak, Rafał see Blażewicz, Jacek; et al., (Not in MR)
- Weeda, P. J. Comparing fragmentary and integral production and inventory control concepts. 91b:90102
- Yang, Zi Hou (with Zhang, Hou Qi) Control of resources start-ups for a class of flexible manufacturing systems. (Chinese. English summary) (Not in MR)
- Zhang, Hou Qi see Yang, Zi Hou, (Not in MR)
- Zhuang, Li (with Hindi, K. S.) Mean value analysis for multiclass closed queueing network models of flexible manufacturing systems with limited buffers. 91d:90051
- Zijm, W. H. M. Capacity analysis of automatic transport systems in an assembly factory. (see 91a:90002)

Items with secondary classifications in 90B30

- Anderson, Edward J. Testing feasibility in a lot scheduling problem. 91h:90072
- Courcoubetis, Costas (with Konstantopoulos, Panagiotis; Walrand, Jean; Weber, Richard R.) Stabilizing an uncertain production system. 91d:90044
- Евнусте, Ю. А. (with Матин, А. В.) ★ Стохастические экономические модели адаптивного оптимального планирования и проблемы их координации. (Russian) [Stochastic economic models for adaptive optimal planning and problems of their coordination] 91a:90049
- Fine, Charles H. (with Freund, Robert M.) Optimal investment in product-flexible manufacturing capacity. (Not in MR)
- Fleischmann, Bernhard The discrete lot-sizing and scheduling problem. (Not in MR)
- Freund, Robert M. see Fine, Charles H., (Not in MR)
- Hennet, Jean-Claude (with Lasserre, Jean Bernard) États atteignables et états d'équilibre de systèmes de production linéaires en temps discret sous contraintes. (English summary) [Attainable states and equilibrium states of discrete-time constrained linear production systems] 91i:93073
- Kaspi, Haya (with Perry, David) On a duality between a non-Markovian storage/production process and a Markovian dam process with state-dependent input and output. 91c:60137
- Kono, Hirokazu (with Nakamura, Zentarō) The balanced lot size for a single-machine multi-product lot scheduling problem. 91j:90040
- Konstantopoulos, Panagiotis see Courcoubetis, Costas; et al., 91d:90044
- Kuntsevich, A. V. see Shor, N. Z.; et al., 91a:90128
- Kushner, Harold J. Numerical methods for stochastic control problems in continuous time. 91i:93130
- Lasserre, Jean Bernard see Hennet, Jean-Claude, 91i:93073
- Magnanti, Thomas L. (with Vachani, Rita) A strong cutting plane algorithm for production scheduling with changeover costs. 91j:90041
- Maremyanin, V. A. (with Savelyev, V. P.) An integer problem for optimizing production rhythm. (Russian) (Not in MR)
- Matin, A. V. see Евнусте, Ю. А., 91a:90049
- Nakamura, Zentarō see Kono, Hirokazu, 91j:90040
- Perry, David see Kaspi, Haya, 91c:60137
- Savelyev, V. P. see Maremyanin, V. A., (Not in MR)
- Shor, N. Z. (with Zhurbenko, N. G.; Kuntsevich, A. V.) A problem of planning a production program for a corporation. 91a:90128
- Vachani, Rita see Magnanti, Thomas L., 91j:90041
- Vostretsov, A. G. Detection of an unreliable element in a flexible manufacturing system. 91a:90086
- Walrand, Jean see Courcoubetis, Costas; et al., 91d:90044
- Weber, Richard R. see Courcoubetis, Costas; et al., 91d:90044
- Zhurbenko, N. G. see Shor, N. Z.; et al., 91a:90128

90B35 Scheduling theory [see also 68M20]

- Adiri, I. (with Frostig, E.; Rinnooy Kan, Alexander H. G.) Scheduling on a single machine with a single breakdown to minimize stochastically the number of tardy jobs. (Not in MR)
- Adrałski, A. (with Grabowski, Józef; Wodecki, M.) One-machine sequencing with release dates, delivery times and precedence constraints. (Not in MR)
- Ahmadi, Reza H. (with Bagchi, Uttaran) Improved lower bounds for minimizing the sum of completion times of n jobs over m machines in a flow shop. 91a:90091
- (with Bagchi, Uttaran) Lower bounds for single-machine scheduling problems. 91h:90045
- Allasia, A. see Contorno, R.; et al., (Not in MR)

- Álvarez-Valdés, Ramón (with Tamarit Goerlich, José Manuel) Heuristic algorithms for resource-constrained project scheduling: a review and an empirical analysis. (see 91a:90095)
- (with Tamarit Goerlich, José Manuel) Deterministic and random heuristic algorithms for project scheduling with resource constraints. (Spanish) (Not in MR)
- Anderson, Edward J. Testing feasibility in a lot scheduling problem. 91k:90072
- see also Mason, A. J. (Not in MR)
- Arkin, Esther M. (with Roundy, Robin O.) Weighted-tardiness scheduling on parallel machines with proportional weights. 91m:90076
- Badran, Fouad Introduction de dates échues dans l'analyse PERT-coût. (English summary) [Introduction of deadlines in PERT-cost analysis] (Not in MR)
- Bagchi, Uttarayan see Ahmadi, Reza H., 91a:90091 and 91h:90045
- Baker, Kenneth R. (with Scudder, Gary D.) Sequencing with earliness and tardiness penalties: a review. 91f:90058
- Batykanov, M. Sh. see Lange, E. G., 91c:90051
- Bell, Colin E. (with Han, Jaemin) A new heuristic solution method in resource-constrained project scheduling. (Not in MR)
- Birge, J. (with Frenk, J. B. G.; Mittenthal, John; Rinnooy Kan, Alexander H. G.) Single-machine scheduling subject to stochastic breakdowns. 91h:90046
- Bitran, Gabriel R. (with Gilbert, Stephen M.) Sequencing production on parallel machines with two magnitudes of sequence-dependent setup cost. (Not in MR)
- Blasiewicz, Jacek (with Kubiak, W.; Swarcfter, J.) Scheduling independent fixed-type tasks. (see 91a:90095)
- (with Laporte, Gilbert) Routing and scheduling within a job shop framework. 91h:90103
- Bondarenko, V. A. Permutational schedules. 91f:90059
- Boukas, El-Kebir (with Haurie, Alain; Soumis, François) Hierarchical approach to steel production scheduling under a global energy constraint. (Not in MR)
- Brucker, Peter (with Schlie, R.) Job-shop scheduling with multi-purpose machines. (German summary) 91m:90077
- (with Burkard, Rainer E.; Hurink, Johanna) Cyclic schedules for r irregularly occurring events. 91c:90049
- (with Kathmann, U.) Pattern scheduling. (German summary) 91g:90078
- Bücker, Matthias How to treat cycles in minimizing the expected weighted flowtime in 1-machine scheduling problems with EOR-precedence constraints. (see 91f:90006)
- Bulgak, A. S. The problem of parallel machines with polymatroid constraints. 91h:90104
- Burkard, Rainer E. see Brucker, Peter; et al., 91c:90049
- Cartier, J. Scheduling under financial constraints. 91c:90056
- (with Pinson, E.) A practical use of Jackson's preemptive schedule for solving the job shop problem. (Not in MR)
- Čepko, O. see Tegze, M., 91a:90094
- Chang, Yih-Long see Vakharia, Asoo J., (Not in MR) and Ho, Johnny C., (Not in MR)
- Cheng, T. C. E. On the NP-completeness of a single-processor sequencing problem to minimize flowtime and missed due-dates. (Not in MR)
- Minimizing flowtime and missed due-dates in single-machine sequencing. 91d:90052
- Chetto, H. see Chetto, M., (Not in MR)
- Chetto, M. (with Chetto, H.) A feasibility test for scheduling tasks in a distributed hard real-time system. (French summary) (Not in MR)
- Chogovadze, G. G. (with Kharebava, T. V.) Some optimal schedules in production-type queueing systems. (Russian. English and Georgian summaries) 91m:90078
- Coffman, E. G., Jr. (with Yannakakis, Mihalis; Magazine, M. J.; Santos, Cipriano) Batch sizing and job sequencing on a single machine. (Not in MR)
- Conterno, R. (with Allasia, A.; Proverbio, A.) A queueing network/branch-and-bound approach to lot scheduling in flexible manufacturing systems. (Not in MR)
- Crachra, W. Allocation of resources in tree networks. (see 91a:90095)
- Dallery, Yves see David, René Marcel; et al., 91m:90079
- David, René Marcel (with Xie, Xiaolan; Dallery, Yves) Properties of continuous models of transfer lines with unreliable machines and finite buffers. 91m:90079
- Dejax, Pierre see Han, Wenxue, 91c:90074
- Dempster, M. A. H. (with Solé, E.) Stochastic scheduling via stochastic control. (see 91j:60093)
- Desai, Rajendra see Sherali, Hanif D.; et al., (Not in MR)
- De Serres, Yves Simultaneous optimization of flow control and scheduling in a single server queue with two job classes. (Not in MR)
- Desrosiers, Jacques see Dumas, Yvan; et al., 91k:90073
- Dessouky, M. I. (with Lageweg, B. J.; Lenstra, Jan Karel; van de Velde, S. L.) Scheduling identical jobs on uniform parallel machines. 91m:90080
- Dickman, Bernard (with Wilamowski, Yonah; Epstein, Sheldon) Optimal common due-date with limited completion time. 91m:90081
- Dileepan, Parthasarathi (with Yakin, M. Zafer; Khumawala, Basheer) A heuristic algorithm for multi-period delivery planning problems. (Not in MR)
- Dewney, Peter J. Distribution-free bounds on the expectation of the maximum with scheduling applications. 91h:90047
- Du, Jianzhong (with Leung, Joseph Y.-T.) Minimizing total tardiness on one machine is NP-hard. 91h:90048
- Dubois, Didier (with Stecké, Kathryn E.) Dynamic analysis of repetitive decision-free discrete-event processes: the algebra of timed marked graphs and algorithmic issues. 91m:90082
- Dadizinski, Krzysztof A heuristic algorithm for sequencing jobs with deadlines. (see 91f:90007)
- Dumas, Yvan (with Soumis, François; Desrosiers, Jacques) Optimizing the schedule for a fixed vehicle path with convex inconvenience costs. 91k:90073
- Dyer, Martin E. (with Wolsey, Laurence A.) Formulating the single machine sequencing problem with release dates as a mixed integer program. 91g:90079
- Elmaghraby, Salah E. The estimation of some network parameters in the PERT model of activity networks: review and critique. (see 91a:90095)
- Elsayed, E. A. see Kao, Tien Y., 91f:90061
- Emmons, Hamilton (with Pinedo, Michael) Scheduling stochastic jobs with due dates on parallel machines. 91j:90039
- Epstein, Sheldon see Dickman, Bernard; et al., 91m:90081
- Erschler, J. (with Roubellat, F.) An approach for real time scheduling of activities with time and resource constraints. 91c:90057
- Espeña, A. see Lázaro, M.; et al., (Not in MR)
- Erwacha, Kevin (with Rival, Ivan; Steiner, George) Permutation schedules for flow shops with precedence constraints. (Not in MR)
- Feldman, R. (with Golumbic, Martin Charles) Optimization algorithms for student scheduling via constraint satisfiability. (Not in MR)
- Fleischmann, Bernhard The discrete lot-sizing and scheduling problem. (Not in MR)
- Frenk, J. B. G. see Birge, J.; et al., 91h:90046
- Frestig, E. see Adiri, I.; et al., (Not in MR)
- Gabisoniya, V. E. (with Sikharulidze, D. M.) A problem of ordering a number of jobs. (Russian. English and Georgian summaries) (Not in MR)
- Gaiblati, Giulia On the asymptotic probabilistic analysis of scheduling problems in the presence of precedence constraints. 91f:90060
- Gartinkel, R. S. (with Plotnicki, W. J.) Fixed cycle scheduling: a solvable problem with empty precedence structure. (Not in MR)
- Geidel, Joachim Project scheduling with fuzzy data. (see 91f:90007)
- Gilbert, Stephen M. see Bitran, Gabriel R., (Not in MR)
- Glazebrook, K. D. Strategy evaluation for stochastic scheduling problems with order constraints. 91m:90083
- Golumbic, Martin Charles see Feldman, R., (Not in MR)
- Grabowski, Józef see Adrabinski, A.; et al., (Not in MR)
- Grigoriyeva, N. S. (with Latypov, I. Sh.; Romanovskii, I. V.) Cyclic problems of scheduling theory. (Not in MR)
- Guo, Yao Huang A new algorithm for scheduling urban vehicle routing. (Chinese. English summary) (Not in MR)
- Gupta, Sushil K. see Kunnathur, Annad S., (Not in MR)
- Han, Jaemin see Bell, Colin E., (Not in MR)
- Han, Wenxue (with Dejax, Pierre) Une heuristique pour le problème d'ordonnement de type $n/m//F/C_{max}$ avec la présence de machines goulets. (English summary) [A heuristic for the $n/m//F/C_{max}$ scheduling problem in the presence of bottleneck machines] 91k:90074
- Hamen, Claire Les tables de réservation numériques: un outil pour la résolution de certains problèmes d'ordonnement cycliques. (English summary) [Numerical reservation tables: a tool for the solution of certain cyclic scheduling problems] (Not in MR)
- Harrison, J. Michael (with Wein, Lawrence M.) Scheduling networks of queues: heavy traffic analysis of a simple open network. 91g:90080
- Haurie, Alain see Boukas, El-Kebir; et al., (Not in MR)
- Hemig, Mordechai I. (with Simchi-Levi, David) Scheduling tasks with failure probabilities to minimize expected cost. 91g:90081
- Herrbach, Lee A. (with Leung, Joseph Y.-T.) Preemptive scheduling of equal length jobs on two machines to minimize mean flow time. 91d:90053
- Ho, Johnny C. (with Chang, Yih-Long) Heuristics for minimizing mean tardiness for m parallel machines. (Not in MR)
- Hoppe, Veronika (with Kovalév, M. M.) Zu einigen Problemen der Reihenfolgeoptimierung der operativen Steuerung in FMS (flexible manufacturing systems). (English summary) [On some problems in the optimization of sequencing of the operative control of FMS (flexible manufacturing systems)] 91c:90050
- Huang, Chuang Chiu (with Weiss, Gideon) On the optimal order of M machines in tandem. (Not in MR)
- Hurink, Johanna see Brucker, Peter; et al., 91c:90049
- Ishii, Hiroaki (with Tada, Minoru; Nishida, Toshio) Bi-criteria scheduling problem on uniform processors. 91d:90054
- see also Masuda, Tetsuo; et al., 91g:90084
- Janiak, Adam Scheduling independent one-processor tasks with linear models of release dates under a given maximum schedule length to minimize resource consumption. 91m:90084
- Jonsson, Orlan (with Larsson, Torbjörn; Värbrand, Peter) A Lagrangean relaxation scheme for a scheduling problem. 91m:90085
- Kao, Tien Y. (with Elsayed, E. A.) Performance of the LPT algorithm in multiprocessor scheduling. 91f:90061
- Kathmann, U. see Brucker, Peter, 91g:90078
- Kawaguchi, Tsuyoshi (with Taniguchi, Yuji; Kyan, Seiki) Scheduling jobs on a multiprocessor system with a common memory. (Not in MR)
- Khan, Zulfiqar Ali A note on a network model for nursing staff scheduling problems. (Not in MR)
- Kharebava, T. V. see Chogovadze, G. G., 91m:90078
- Khumawala, Basheer see Dileepan, Parthasarathi; et al., (Not in MR)
- Kleinmann, P. (with Schultz, Rüdiger) A simple procedure for optimal load dispatch using parametric programming. (German summary) (Not in MR)
- Kolotilin, B. B. (with Litvinchev, I. S.; Tsarkov, V. I.) The problem of optimal deployment of information-and-computer equipment in a three-level real-time network. (Not in MR)
- Kono, Hirokazu (with Nakamura, Zentarō) The balanced lot size for a single-machine multi-product lot scheduling problem. 91j:90040
- Kovalév, M. M. see Hoppe, Veronika, 91c:90050
- Kovalév, M. Ya. (with Shafrenskii, Ya. M.; Strusevich, V. A.; Tanaev, V. S.; Tuzikov, A. V.) Approximation scheduling algorithms: a survey. 91a:90092
- Kröger, Karin Eine Methode zur Herleitung von analytischen Darstellungen der Zielfunktionen verschiedener Reihenfolgeprobleme. [A method for deriving analytic representations of the objective functions of several sequential problems] 91g:90082
- Kubiak, W. see Blasiewicz, Jacek; et al., (91a:90095)
- Kumar, P. R. (with Seidman, Thomas I.) Dynamic instabilities and stabilization methods in distributed real-time scheduling of manufacturing systems. 91a:90093
- Kumar, Srikanth P. R. see Xu, Susan H.; et al., 91h:90052
- Kunnathur, Annad S. (with Gupta, Sushil K.) Minimizing the makespan with late start penalties added to processing times in a single facility scheduling problem. (Not in MR)
- Kusiak, Andrew A knowledge- and optimization-based approach to scheduling in automated manufacturing systems. (see 91h:68014)
- Kyan, Seiki see Kawaguchi, Tsuyoshi; et al., (Not in MR)
- Lageweg, B. J. see Dessouky, M. I.; et al., 91m:90080
- Lange, E. G. (with Batykanov, M. Sh.) Independence of the total down time of a loader in

- the hourly schedule of the operation of a transportation-loading subcomplex. (Russian) 91c:90051
- Laporte, Gilbert *see* Błażewicz, Jacek, 91b:90103
- Larsson, Torbjörn *see* Jonsson, Örjan; et al., 91m:90085
- Latypov, I. Sh. *see* Grigor'eva, N. S.; et al., (Not in MR)
- Lawler, E. L. A dynamic programming algorithm for preemptive scheduling of a single machine to minimize the number of late jobs. 91m:90086
- Lázaro, M. (with Espuña, A.; Puigjaner, L.) MOPP-I: an optimization package for multipurpose batch operations. (Not in MR)
- Ledak, L. P. Optimal aggregation in problems in scheduling theory with discrete time periods. (Russian) (see 91m:90016)
- Lenstra, Jan Karel *see* Dessouky, M. I.; et al., 91m:90080
- Leung, Joseph Y.-T. (with Young, Gilbert H.) Preemptive scheduling to minimize mean weighted flow time. 91b:90105
- *see also* Herrbach, Lee A., 91d:90053 and Du, Jianzhong, 91h:90048
- Liebling, Th. M. *see* Margot, F.; et al., 91g:90083
- Litvinchev, I. S. *see* Kolotilin, B. B.; et al., (Not in MR)
- Lou, Sheldon (with Sethi, Suresh P.; Sorger, Gerhard) Analysis of a class of real-time multiproduct lot scheduling policies. (Not in MR)
- Magazine, M. J. *see* Coffman, E. G., Jr.; et al., (Not in MR)
- Magnanti, Thomas L. (with Vachani, Rita) A strong cutting plane algorithm for production scheduling with changeover costs. 91j:90041
- Margot, F. (with Prodon, A.; Liebling, Th. M.) The poset scheduling problem. 91g:90083
- Mason, A. J. (with Anderson, Edward J.) Minimizing flow time on a single machine with job classes and setup times. (Not in MR)
- Masuda, Teruo (with Ishii, Hiroaki¹; Nishida, Toshio) Scheduling problem on quasi-identical parallel machines. 91g:90084
- Matloff, Norman S. On the value of predictive information in a scheduling problem. (Not in MR)
- Matsuo, Hirofumi Cyclic sequencing problems in the two-machine permutation flow shop: complexity, worst-case, and average-case analysis. 91m:90087
- Mees, A. I. Railway scheduling by network optimization. (Not in MR)
- Mirchandani, Pitu B. *see* Xu, Susan H.; et al., 91h:90052
- Mittenthal, John *see* Birge, J.; et al., 91h:90046
- Möhring, Rolf H. (with Radermacher, Franz Josef) The order-theoretic approach to scheduling: the deterministic case. 91j:90042
- (with Radermacher, Franz Josef) The order-theoretic approach to scheduling: the stochastic case. 91j:90043
- Mukherjee, S. P. (with Roychowdhury, Soma) A sequencing problem with probabilistic processing times. (Not in MR)
- Nakamura, Zentaro *see* Kono, Hirokazu, 91j:90040
- Neumann, Klaus Scheduling of stochastic projects by means of GERT networks. (see 91a:90095)
- Nishida, Toshio *see* Ishii, Hiroaki¹; et al., 91d:90054 and Masuda, Teruo; et al., 91g:90084
- Nowicki, Eugeniusz (with Zdrzałka, Stanisław) A survey of results for sequencing problems with controllable processing times. 91c:90058
- Oerlemans, A. G. *see* Spieksma, F. C. R.; et al., (Not in MR)
- Patterson, J. H. (with Slowiński, Roman; Talbot, F. B.; Weglarz, Jan) An algorithm for a general class of precedence and resource constrained scheduling problems. (see 91a:90095)
- Pegden, Claude Dennis (with Rosenshine, Matthew) Scheduling arrivals to queues. 91d:90055
- Pinedo, Michael *see* Emmons, Hamilton, 91j:90039
- Pinson, E. *see* Carlier, J., (Not in MR)
- Plehn, Jürgen Preemptive scheduling of independent jobs with release times and deadlines on a hypercube. 91c:90059
- Piotnicki, W. J. *see* Garfinkel, R. S., (Not in MR)
- Posner, Marc E. Reducibility among single machine weighted completion time scheduling problems. 91k:90075
- Prodon, A. *see* Margot, F.; et al., 91g:90083
- Proverbio, A. *see* Conterno, R.; et al., (Not in MR)
- Puigjaner, L. *see* Lázaro, M.; et al., (Not in MR)
- Palat, P. Simin Maximum outflow in generalized flow networks. 91b:90106
- Radermacher, Franz Josef *see* Möhring, Rolf H., 91j:90042 and 91j:90043
- Rinnooy Kan, Alexander H. G. *see* Birge, J.; et al., 91h:90046 and Adiri, I.; et al., (Not in MR)
- Rival, Ivan *see* Ewacha, Kevin; et al., (Not in MR)
- Romanovskii, I. V. *see* Grigor'eva, N. S.; et al., (Not in MR)
- Rosenshine, Matthew *see* Pegden, Claude Dennis, 91d:90055
- Roubellat, F. *see* Erschler, J., 91c:90057
- Roundy, Robin O. *see* Arkin, Esther M., 91m:90076
- Roychowdhury, Soma *see* Mukherjee, S. P., (Not in MR)
- Santos, Cláudio *see* Coffman, E. G., Jr.; et al., (Not in MR)
- Sarin, Subhash C. *see* Sherali, Hanif D.; et al., (Not in MR)
- Sauer, Norbert W. (with Stone, M. G.) Preemptive scheduling. 91h:90049
- Schile, R. *see* Brucker, Peter, 91m:90077
- Schultz, Rüdiger *see* Kleinmann, P., (Not in MR)
- Scudder, Gary D. *see* Baker, Kenneth R., 91f:90058
- Seidman, Thomas L. *see* Kumar, P. R., 91a:90093
- Serafini, Paolo (with Speranza, M. Grazia) Production scheduling problems in a textile industry. (see 91h:68005)
- Sethi, Suresh P. *see* Srikandarajah, C., 91f:90062 and Lou, Sheldon; et al., (Not in MR)
- Shafarzskii, Ya. M. *see* Kovalev, M. Ya.; et al., 91a:90092
- Sherali, Hanif D. (with Sarin, Subhash C.; Desai, Rajendra) Models and algorithms for job selection, routing, and scheduling in a flexible manufacturing system. (Not in MR)
- Sikharulidze, D. M. *see* Gabisoniya, V. E., (Not in MR)
- Simchi-Levi, David *see* Henig, Mordechai I., 91g:90081
- Slowiński, Roman Multiobjective project scheduling under multiple-category resource constraints. (see 91a:90095)
- *see also* Patterson, J. H.; et al., (91a:90095) and *Advances in project scheduling*, 91a:90095
- So, Kut C. Some heuristics for scheduling jobs on parallel machines with setups. (Not in MR)
- Solai, E. *see* Dempster, M. A. H., (91j:60003)
- Sorger, Gerhard *see* Lou, Sheldon; et al., (Not in MR)
- Sot-skor, Yu. N. Complexity of problems of optimal servicing of three customers. 91k:90076
- Soumis, François *see* Dumas, Yvan; et al., 91k:90073 and Boukas, El-Kebir; et al., (Not in MR)
- Speranza, M. Grazia *see* Serafini, Paolo, (91h:68005)
- Spieksma, F. C. R. (with Vrieze, Koos; Oerlemans, A. G.) On the system setup and the scheduling problem in a flexible manufacturing system (FMS). (Not in MR)
- Srikandarajah, C. (with Sethi, Suresh P.) Scheduling algorithms for flexible flowshops: worst and average case performance. 91f:90062
- A note on the generalized due dates scheduling problems. 91g:90085
- Stecke, Kathryn E. *see* Dubois, Didier, 91m:90082
- Steiner, George The connection between the bump number problem and flow-shop scheduling with precedence constraints. 91f:90063
- *see also* Ewacha, Kevin; et al., (Not in MR)
- Stone, M. G. *see* Sauer, Norbert W., 91h:90049
- Strusevich, V. A. An improved algorithm for choosing machine speeds for a two-machine mixed shop. (Russian) 91b:90107
- Optimal choice of machine speeds for two-stage inhomogeneous systems. (Not in MR)
- *see also* Kovalev, M. Ya.; et al., 91a:90092
- Szwarc, Włodzisław Parametric precedence relations in single machine scheduling. 91c:90060a
- Addendum: "Parametric precedence relations in single machine scheduling". 91c:90060b
- Szwarcfiter, J. *see* Błażewicz, Jacek; et al., (91a:90095)
- Tada, Minoru *see* Ishii, Hiroaki¹; et al., 91d:90054
- Tailard, E. Some efficient heuristic methods for the flow shop sequencing problem. (Not in MR)
- Talbot, F. B. *see* Patterson, J. H.; et al., (91a:90095)
- Tamarit Goerlich, José Manuel *see* Álvarez-Valdés, Ramón, (Not in MR) and (91a:90095)
- Tanar, V. S. *see* Kovalev, M. Ya.; et al., 91a:90092
- Tang, Christopher S. Scheduling batches on parallel machines with major and minor setups. 91b:90108
- Tang, Gao Chun A new branch and bound algorithm for minimizing the weighted number of tardy jobs. 91h:90050
- Taniguchi, Yuji *see* Kawaguchi, Tsuyoshi; et al., (Not in MR)
- Tegze, M. (with Čepček, O.) Minimizing the number of Grab's changes in a single machine scheduling problem. 91a:90094
- Tsarkov, V. I. *see* Kolotilin, B. B.; et al., (Not in MR)
- Tuzikov, A. V. *see* Kovalev, M. Ya.; et al., 91a:90092
- Vachani, Rita *see* Magnanti, Thomas L., 91j:90041
- Vakhaniya, N. N. Construction of a truncated tree of variants for a general problem of scheduling theory. (Russian) 91m:90088
- Vakharia, Asoo J. (with Chang, Yih-Long) A simulated annealing approach to scheduling a manufacturing cell. (Not in MR)
- Vährbrand, Peter *see* Jonsson, Örjan; et al., 91m:90085
- van de Velde, S. L. Minimizing the sum of the job completion times in the two-machine flow shop by Lagrangian relaxation. 91k:90077
- *see also* Dessouky, M. I.; et al., 91m:90080
- Vince, Andrew Scheduling periodic events. 91b:90109
- Vrieze, Koos *see* Spieksma, F. C. R.; et al., (Not in MR)
- Wang, Jie Sheng Crane scheduling problems with precedence constraints and their NP-completeness. 91h:90051
- Weber, Richard R. *see* Xu, Susan H.; et al., 91h:90052
- Weglarz, Jan Scheduling under continuous performing speed vs. resource amount activity models. 91c:90061
- Multicriteria scheduling problems under continuous activity models: processing speed vs. resource amount. 91d:90056
- Multicriteria scheduling under continuous, doubly constrained resources. 91j:90044
- *see also* Patterson, J. H.; et al., (91a:90095) and *Advances in project scheduling*, 91a:90095
- Wein, Lawrence M. *see* Harrison, J. Michael, 91g:90080
- Weiss, Gideon Approximation results in parallel machines stochastic scheduling. 91k:90078
- *see also* Huang, Chueng Chiu, (Not in MR)
- Werner, Frank A locally optimal insertion heuristic for a one-machine scheduling problem. (French summary) (Not in MR)
- de Werra, Dominique Graph-theoretical models for preemptive scheduling. 91f:90064
- A note on SS/TDMA satellite communication. (Not in MR)
- Wilamowski, Yonah *see* Dickman, Bernard; et al., 91m:90081
- Wodecki, M. *see* Adrabiński, A.; et al., (Not in MR)
- Wolsey, Laurence A. *see* Dyer, Martin E., 91g:90079
- Xie, Xiaolan *see* David, René Marcel; et al., 91m:90079
- Xu, Susan H. (with Mirchandani, Pitu B.; Kumar, Srikanth P. R.; Weber, Richard R.) Stochastic dispatching of multi-priority jobs to heterogeneous processors. 91h:90052
- Yakis, M. Zafer *see* Dileepan, Parthasarathi; et al., (Not in MR)
- Yannakakis, Mihalis *see* Coffman, E. G., Jr.; et al., (Not in MR)
- Young, Gilbert H. *see* Leung, Joseph Y.-T., 91b:90105
- Yue, Min Yi On the exact upper bound for the multifit processor scheduling algorithm. 91m:90089
- Zdrzałka, Stanisław *see* Nowicki, Eugeniusz, 91c:90058
- Zipkin, Paul H. Computing optimal lot sizes in the economic lot scheduling problem. 91m:90090

Items listed otherwise than by author

Advances in project scheduling ★ Advances in project scheduling. 91a:90095

Items with secondary classifications in 90B35

- Adler, Ilan (with Cosares, S.) Advantageous properties of dual transshipment polyhedra. 91c:90072
- Ahuja, Mohan (with Zhu, Yuhui) An $O(n \log n)$ feasibility algorithm for preemptive scheduling of n independent jobs on a hypercube. (Not in MR)
- Arnett, R. (with de Palma, André; Lindsey, R.) Departure time and route choice for the morning commute. (Not in MR)
- Assad, Arjang A. Modeling and implementation issues in vehicle routing. (see 91c:90041)
- see also Nag, Barindra; et al. (91c:90041) and Vehicle routing: methods and studies, 91c:90041
- Baker, Edward K. see Solomon, Marius M.; et al. (91c:90041)
- Bali, Michael O. Allocation/routing: models and algorithms. (see 91c:90041)
- Bhattacharya, Partha P. (with Ephremides, Anthony) Optimal scheduling with strict deadlines. 91b:68073
- Blazewicz, Jacek (with Drozdowski, Maciej; Soniewicki, Boleslaw; Walkowiak, Rafal) Two-dimensional cutting problem basic complexity results and algorithms for irregular shapes. (Not in MR)
- Blumenfeld, Dennis E. (with Burns, Lawrence D.; Daganzo, Carlos F.) Synchronizing production and transportation schedules. (Not in MR)
- Bolkan, Waverly E. see Nygard, Kendall E.; et al. (91c:90041)
- Bovet, J. (with Constantin, C.; de Werra, Dominique) A convoy scheduling problem. 91c:90062
- Branden, Margaret L. (with Chiu, Samuel S.) Trajectory analysis of the stochastic queue median in a plane with rectilinear distances. 91d:90042
- Burns, Lawrence D. see Blumenfeld, Dennis E.; et al. (Not in MR)
- Casco, Daniel O. (with Golden, Bruce L.; Wasil, Edward A.) Vehicle routing with backhauls: models, algorithms, and case studies. (see 91c:90041)
- Cheng, T. C. E. see Sin, C. C. S., 91a:68141
- Chiu, Samuel S. see Branden, Margaret L., 91d:90042
- Christienne, Philippe Task scheduling over distributed memory machines. 91c:68046
- Chung, Jen-Yao see Shih, Wei Kuan; et al. 91c:68094
- Collin, A. W. Examination schedules without three examinations in a row. 91g:05122
- Constantin, C. see Bovet, J.; et al. 91c:90062
- Cosares, S. see Adler, Ilan, 91c:90072
- Daganzo, Carlos F. see Blumenfeld, Dennis E.; et al. (Not in MR)
- Dejax, Pierre see Haouari, Mohamed; et al. (Not in MR)
- Desrochers, Martin (with Lenstra, Jan Karel; Savelsbergh, M. W. P.; Soumis, François) Vehicle routing with time windows: Optimization and approximation. (see 91c:90041)
- see also Haouari, Mohamed; et al. (Not in MR)
- van Dijk, Nico M. Mixed parallel processors with interdependent blocking. (Not in MR)
- Drozdowski, Maciej see Blazewicz, Jacek; et al. (Not in MR)
- Du, Jianzhong (with Leung, Joseph Y.-T.; Young, Gilbert H.) Minimizing mean flow time with release time constraint. 91k:68074
- Ephremides, Anthony see Bhattacharya, Partha P., 91b:68073
- Feigle, Ulrich see Von Arnim, Annelie; et al., 91g:52007
- Fields, Malcolm C. (with Frederickson, Greg N.) A faster algorithm for the maximum weighted tardiness problem. (Not in MR)
- Frederickson, Greg N. see Fields, Malcolm C. (Not in MR)
- Glazebrook, K. D. Procedures for the evaluation of strategies for resource allocation in a stochastic environment. 91a:90174
- Golden, Bruce L. see Casco, Daniel O.; et al. (91c:90041); Nag, Barindra; et al. (91c:90041) and Vehicle routing: methods and studies, 91c:90041
- Greenberg, Peter see Nygard, Kendall E.; et al. (91c:90041)
- Haimovich, M. (with Rinnooy Kan, Alexander H. G.; Stougie, L.) Analysis of heuristics for vehicle routing problems. (see 91c:90041)
- Haouari, Mohamed (with Dejax, Pierre; Desrochers, Martin) Les problèmes de tournées avec contraintes de fenêtres de temps, l'état de l'art. [The state of the art in vehicle routing and scheduling problems with time-window constraints] (Not in MR)
- Helbig, Siegfried Parametric semi-infinite optimization in certain lattices: continuity of the feasible set. 91c:90117
- An algorithm for a vector optimization problem over a disjunctive feasible set. 91f:90110
- Hirayama, Tetsuji (with Kijima, Masaaki; Nishimura, Shōichi) Further results for dynamic scheduling of multiclass $G/G/1$ queues. 91b:68016
- Hwang, F. K. A new bridge tournament schedule. 91g:90026
- Kakeshita, Tetsuro (with Kambayashi, Yuhiko) Optimal concurrency control schedulers in terms of secondary storage access. (Not in MR)
- Kambayashi, Yuhiko see Kakeshita, Tetsuro, (Not in MR)
- Kamurawski, J. PERT networks under incomplete probabilistic information. 91f:90051
- Katehakis, Michael N. (with Melolidakis, Costis) On stochastic optimality of policies in first passage problems. 91b:90034
- Kijima, Masaaki see Hirayama, Tetsuji; et al., 91b:68016
- Kislyak, V. M. A procedure for optimizing bulk scheduling of machine-building production. (Russian) (see 91c:90001)
- Krass, Israfel A. Shadow method for convex programming with application for navy credit sea/shore rotation problem. (Not in MR)
- Kuntsevich, A. V. see Shor, N. Z.; et al., 91a:90128
- Lehoczky, John P. see Sha, Lu; et al., 91g:52007
- Leifer, Eric M. Enacting networks: the feasibility of fairness. (Not in MR)
- Leifman, Lev J. Combinatorial optimization: accuracy versus complexity and stability. 91m:90138
- Lenstra, Jan Karel see Desrochers, Martin; et al. (91c:90041)
- Leung, Janny M. Y. (with Magnanti, Thomas L.; Vachani, Rita) Facets and algorithms for capacitated lot sizing. 91b:90101
- Leung, Joseph Y.-T. see Du, Jianzhong; et al., 91k:68074
- Lindsey, R. see Arnett, R.; et al. (Not in MR)
- Liu, Jane W. S. see Shih, Wei Kuan; et al., 91k:68094
- Liu, Zhen A note on Graham's bound. 91j:68054
- Magnanti, Thomas L. see Leung, Janny M. Y.; et al., 91b:90101
- Melamed, I. I. (with Sergeev, S. I.; Sigal, I. Kh.) The traveling salesman problem. Issues in the theory. 91b:90160
- Melolidakis, Costis see Katehakis, Michael N., 91b:90034
- Muchow, Dieter (with Werner, Frank) Zur Quasikonvexität ausgewählter Einmaschinenprobleme. [On the quasiconvexity of selected single-machine problems] 91g:90172
- Mukai, H. see Yan, Di, 91c:90080
- Nag, Barindra (with Golden, Bruce L.; Assad, Arjang A.) Vehicle routing with site dependencies. (see 91c:90041)
- Nain, Philippe (with Tsoucas, Pantelis; Walrand, Jean) Interchange arguments in stochastic scheduling. 91b:60230
- Nishimura, Shōichi see Hirayama, Tetsuji; et al., 91b:68016
- Nygard, Kendall E. (with Greenberg, Peter; Bolkan, Waverly E.; Swenson, Elizabeth J.) Generalized assignment methods for the deadline vehicle routing problem. (see 91c:90041)
- de Palma, André see Arnett, R.; et al. (Not in MR)
- Powell, Warren B. A comparative review of alternative algorithms for the dynamic vehicle allocation problem. (see 91c:90041)
- Rajkumar, Raghunathan see Sha, Lu; et al., 91g:52007
- Rinnooy Kan, Alexander H. G. see Haimovich, M.; et al. (91c:90041)
- Rubin, Izhak (with Zhang, Zhensheng) Performance analysis on test scheduling schemes for a multi-access communications network. 91m:68016
- Savelsbergh, M. W. P. An efficient implementation of local search algorithms for constrained routing problems. 91m:90064
- see also Desrochers, Martin; et al. (91c:90041)
- Schaffer, Joanne R. see Solomon, Marius M.; et al. (91c:90041)
- Schrader, Rainer see Von Arnim, Annelie; et al., 91g:52007
- Sergeev, S. I. see Melamed, I. I.; et al., 91b:90160
- Sha, Lu (with Rajkumar, Raghunathan; Lehoczky, John P.) Priority inheritance protocols: an approach to real-time synchronization. 91j:68018
- Shih, Wei Kuan (with Liu, Jane W. S.; Chung, Jen-Yao) Algorithms for scheduling imprecise computations with timing constraints. 91c:68094
- Shor, N. Z. (with Zhurbenko, N. G.; Kuntsevich, A. V.) A problem of planning a production program for a corporation. 91a:90128
- Sigal, I. Kh. see Melamed, I. I.; et al., 91b:90160
- Sin, C. C. S. (with Cheng, T. C. E.) On the NP-completeness of the $n/m/$ parallel $(\sum_{i \in M} (\sum_j w_j) \sum_i t_i)$ scheduling problem. 91a:68141
- Solomon, Marius M. (with Baker, Edward K.; Schaffer, Joanne R.) Vehicle routing and scheduling problems with time window constraints: efficient implementations of solution improvement procedures. (see 91c:90041)
- Soniewicki, Boleslaw see Blazewicz, Jacek; et al. (Not in MR)
- Soumis, François see Desrochers, Martin; et al. (91c:90041)
- Stougie, L. see Haimovich, M.; et al. (91c:90041)
- Sugihara, Kazuo (with Suzuki, Ichiro; Yamashita, Masafumi) The searchlight scheduling problem. 91f:68154
- Suzuki, Ichiro see Sugihara, Kazuo; et al., 91f:68154
- Swenson, Elizabeth J. see Nygard, Kendall E.; et al. (91c:90041)
- Tsoucas, Pantelis see Nain, Philippe; et al., 91b:60230
- Vachani, Rita see Leung, Janny M. Y.; et al., 91b:90101
- Von Arnim, Annelie (with Feigle, Ulrich; Schrader, Rainer) The permutahedron of series-parallel posets. 91g:52007
- Walkowiak, Rafal see Blazewicz, Jacek; et al. (Not in MR)
- Walrand, Jean see Nain, Philippe; et al., 91b:60230
- Wasil, Edward A. see Casco, Daniel O.; et al. (91c:90041)
- Wein, Lawrence M. Optimal control of a two-station Brownian network. 91c:90049
- Werner, Frank see Muchow, Dieter, 91g:90172
- de Werra, Dominique see Bovet, J.; et al., 91c:90062
- Yamashita, Masafumi see Sugihara, Kazuo; et al., 91f:68154
- Yan, Di (with Mukai, H.) Discrete optimization with estimation. 91c:90080
- Young, Gilbert H. see Du, Jianzhong; et al., 91k:68074
- Zhang, Zhensheng see Rubin, Izhak, 91m:68016
- Zhu, Yuhui see Ahuja, Mohan, (Not in MR)
- Zhurbenko, N. G. see Shor, N. Z.; et al., 91a:90128

Items listed otherwise than by author

Vehicle routing: methods and studies ★ Vehicle routing: methods and studies. 91c:90041

90B40 Search theory

- Allpov, N. V. Correcting search algorithms for a point on the segment $[0, 1]$ with uniform partitioning of the intervals of indeterminacy. (Russian) 91a:90096
- Anderson, Edward J. (with Aramendia, M. A.) An improvement step for a dynamic search game on a network. 91g:90086
- Aramendia, M. A. see Anderson, Edward J., 91g:90086
- Balkhi, Z. T. On the minimality of search paths under absolutely continuous univariate distributions. (German summary) 91c:90062
- Barnev, Yair Dynamic programming algorithm for detecting dim moving targets. (see 91c:90054)
- Bar-Shalom, Yaakov see Pattipati, Krishna R.; et al., (91c:90054) and Multitarget-multisensor tracking: advanced applications, 91c:90054
- Berman, Oded see Stincheli, David, 91k:90079
- Blackman, S. S. Association and fusion of multiple sensor data. (see 91c:90054)
- Calderón, Calixto P. (with Kwembe, Tor A.) On the classical trapping problem. 91m:90091
- Chang, Kuo-Chu see Chung, Chee-Yee; et al., (91c:90054)
- Chung, Chee-Yee (with Mori, Shozo; Chang, Kuo-Chu) Distributed multitarget multisensor tracking. (see 91c:90054)
- Deh, Somnath see Pattipati, Krishna R.; et al., (91c:90054)
- Eagle, James N. (with Yee, James R.) An optimal branch-and-bound procedure for the constrained path, moving target search problem. 91a:90097
- Garnaev, A. Yu. A game-theoretic search problem in a rectangular domain. (Russian) 91f:90065

- Hinderer, Karl On dichotomous search with direction-dependent costs for a uniformly hidden object. 91c:90052
- Holzbaur, Ulrich D. Periodic optimal search. 91g:90087
- Kikuta, Kensaku A one-dimensional search with traveling cost. 91g:90088
- Kim, D. P. ★ Методы поиска и преследования подвижных объектов. (Russian) [Methods for the search and pursuit of moving objects] 91m:90092
- Kiselev, V. N. (with Malafeev, O. A.) Game-theoretic dynamic search problems. (Russian) 91f:90066
- Kurien, Thomas Issues in the design of practical multitarget tracking algorithms. (see 91c:90054)
- Kwembe, Tor A. see Calderón, Calixto P. 91m:90091
- Malafeev, O. A. see Kiselev, V. N. 91f:90066
- Mori, Shozo see Chong, Chee-Yee; et al. (91c:90054)
- Nakai, Teruhisa A preemptive detection game. 91a:90098
- Optimal search for an object with unknown type. 91c:90063
- Optimal search model with compulsory stop for a randomly arriving target. 91m:90093
- Optimal search for a passing target. 91m:90094
- Nanda, J. N. Area search for a moving target. (Not in MR)
- Pattipati, Krishna R. (with Deb, Somnath; Bar-Shalom, Yaakov; Washburn, Robert B.) Passive multisensor data association using a new relaxation algorithm. (see 91c:90054)
- Pshenichnyi, B. N. (with Shishkina, N. B.) Formulation of search problems with two moving objects. 91f:90067
- Shishkina, N. B. A discrete model of a search problem. (Russian) 91c:90053
- see also Pshenichnyi, B. N. 91f:90067
- Simchi-Levi, David (with Berman, Oded) Optimal locations and districts of two traveling salesmen on a tree. 91k:90079
- Washburn, Robert B. see Pattipati, Krishna R.; et al. (91c:90054)
- Wilson, John G. Approximating an infinite stage search problem with a finite horizon model. 91a:90099
- Yee, James R. see Eagle, James N. 91a:90097
- Zhang, Wan Xie Two algebraic Riccati equations for a continuous time linear quadratic regulator and eigenvalue problems. (Chinese. English summary) (Not in MR)

Items listed otherwise than by author

Multitarget-multisensor tracking: advanced applications ★ Multitarget-multisensor tracking: advanced applications. 91c:90054

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- Chen, Ming-Syan (with Shin, Kang G.) On relaxed squashed embedding of graphs into a hypercube. 91c:05067
- Doyle, Peter G. (with Mallows, Colin L.; Orlitsky, Alon; Shepp, Larry A.) On the evolution of islands. 91k:05078
- Hoem, Jan M. Identifiability in hazard models with unobserved heterogeneity: the compatibility of two apparently contradictory results. 91g:62086
- Kikuta, Kensaku A hide and seek game with traveling cost. 91g:90219
- Kohli, Rajeev (with Krishnamurti, Ramesh) Average performance of heuristics for satisfiability. 91a:68131
- Krishnamurti, Ramesh see Kohli, Rajeev. 91a:68131
- Madras, N. (with Orlitsky, Alon; Shepp, Larry A.) Monte Carlo generation of self-avoiding walks with fixed endpoints and fixed length. 91b:60082
- Mallows, Colin L. see Doyle, Peter G.; et al. 91k:05078
- Orlitsky, Alon see Madras, N.; et al. 91b:60082 and Doyle, Peter G.; et al. 91k:05078
- Shepp, Larry A. Connectedness of certain random graphs. 91k:05077
- see also Madras, N.; et al. 91b:60082 and Doyle, Peter G.; et al. 91k:05078
- Shin, Kang G. see Chen, Ming-Syan. 91c:05067

90B50 Management decision-making, including multiple objectives [see also 90A05, 90C31, 90D35]

- Acsel, János Determining merged relative scores. 91g:90089
- Bianco, L. (with La Bella, Agostino) Social preference and political issues in transportation planning: an analytical approach. (Not in MR)
- Bogetoft, Peter (with Tind, Jørgen) Dual decomposition schemes for multicriteria decision making. 91j:90045
- Castellan, N. John, Jr. (with Sawyer, Teresa A.) Multiattribute decision models: task order and group effects. (see 91a:90015)
- Chen, Ting see Zhou, Ze Kun. 91a:90100
- van Dalen, J. Chr. Decision support: challenges, opportunities, and limitations of operations research. (see 91a:90002)
- Eom, Hyun B. (with Lee, Sang M.) Decision support systems applications research: a bibliography (1971–1988). (Not in MR)
- Fawcett, R. H. (with Thornton, P. K.) Mean-Gini dominance in decision analysis. (Not in MR)
- Haimes, Yacov Y. see Li, Duan. (Not in MR)
- Harhalakis, George see Hilger, Jean; et al. (Not in MR)
- Hilger, Jean (with Harhalakis, George; Proth, Jean-Marie) Manufacturing cells and part families: generalization of the GP method. (Not in MR)
- Hillion, Hervé P. see Proth, Jean-Marie. 91k:90081
- Jain, Neelam Transitivity of fuzzy relations and rational choice. 91k:90080
- James, D. J. G. (with Rumchev, Ventseslav G.) Linear-feedback recruitment policies for constant-size manpower systems. (Not in MR)
- Jansen, Peter J. (with Wirl, Franz) Public decisions under multiple objectives. (see 91f:90004)
- Kasanen, Eero (with Östermark, Ralf; Zeleny, Milan) Gestalt system of holistic graphics: new management support view of MCDM. (Not in MR)
- Kersten, Gregory E. (with Szpakowicz, Stan) Rule-based formalism and preference representation: an extension of NEGOPLAN. (Not in MR)
- Kitsainik, L. M. Systematization of choice rules with binary relations. (Not in MR)
- Kleyte, Robert M. see de Korvin, André. 91f:90033
- Korhonen, Pekka J. (with Wallenius, Jyrki) A careful look at efficiency and utility in multiple criteria decision making: a tutorial. 91g:90090
- (with Moskowitz, Herbert; Wallenius, Jyrki) Choice behavior in interactive multiple-criteria decision making. 91h:90053
- de Korvin, André (with Kleyte, Robert M.) Goal uncertainty and the supermartingale property in an information feedback loop. 91f:90033
- La Bella, Agostino see Bianco, L. (Not in MR)
- Lee, Sang M. see Eom, Hyun B. (Not in MR)
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- Moskowitz, Herbert see Korhonen, Pekka J.; et al. 91h:90053
- Namatake, Akira Dynamic adaptive competitive systems. (Not in MR)
- Östermark, Ralf see Kasanen, Eero; et al. (Not in MR)
- Peters, H. J. M. (with van der Stel, H.) A class of solutions for multiperson multicriteria decision making. (German summary) 91j:90046
- Proth, Jean-Marie (with Hillion, Hervé P.) ★ Mathematical tools in production management. 91k:90081
- see also Hilger, Jean; et al. (Not in MR)
- Rose, John S. Optimal selection with holding. 91c:90055
- Rumchev, Ventseslav G. see James, D. J. G. (Not in MR)
- Sawyer, Teresa A. see Castellan, N. John, Jr. (91a:90015)
- van der Stel, H. see Peters, H. J. M. 91j:90046
- Szpakowicz, Ferenc Cournot equilibrium and joint profit maximizing prices in multi-product oligopolies. (Not in MR)
- Szpakowicz, Stan see Kersten, Gregory E. (Not in MR)
- Thornton, P. K. see Fawcett, R. H. (Not in MR)
- Tind, Jørgen see Bogetoft, Peter. 91j:90045
- Trenk, N. N. Some algorithms for the formation of coordinated decisions in hierarchical distributed systems. (Not in MR)
- Wallenius, Jyrki see Korhonen, Pekka J. 91g:90090 and 91h:90053
- Wang, Shou Yang An approach to resolve conflicts by trade-off analysis. (Not in MR)
- Wirl, Franz see Jansen, Peter J. (91f:90004)
- Xu, Li D. Linguistic approach to the multi-criteria ranking problem. 91f:90068
- Zeleny, Milan see Kasanen, Eero; et al. (Not in MR)
- Zhou, Ze Kun (with Chen, Ting) A method for estimating the largest average productivity scale with multi-outputs. (Chinese. English summary) 91a:90100

Items with secondary classifications in 90B50

- Adzhimolae, T. A. see Ryabchikova, N. A.; et al. (Not in MR)
- Avenhaus, Rudolf Decision procedures for safeguards systems. (Not in MR)
- Bernau, H. Some remarks on the vector optimization method of Fandel. (German summary) 91k:90149
- Börger, Tilman Undominated strategies and coordination in normalform games. 91m:90010
- Borzenko, V. L. (with Sarychev, A. V.; Shubina, M. V.) Modeling preferences and finding compromise solutions for two decision makers with different vector criteria. (Russian) 91h:90010
- Farquhar, Peter H. (with Keller, L. Robin) Preference intensity measurement. 91a:90017
- (von Furstenberg, George M.) see Acting under uncertainty: multidisciplinary conceptions. 91a:90015
- Gerth, Christiane (with Heisig, K.; Lipp, R.; Zimmermann, L.) Anwendung der Vektoroptimierung bei Aufgabenstellungen aus der chemischen Industrie. [Applications of vector optimization in stating problems from the chemical industry] (Not in MR)
- Ghose, D. A necessary and sufficient condition for Pareto-optimal security strategies in multicriteria matrix games. 91m:90199
- Glückauf, D. Auswahl von besten Varianten im Komplexbewertungsvergleich. [Selection of best variants in the comparison of complex evaluations] (Not in MR)
- Galati, T. R. (with Islam, M. A.) Efficiency and proper efficiency in differentiable multiobjective programming. 91j:90063
- Guo, Xian Ping Approximation of Markov decision process average models using expected state transitions. (Chinese. English summary) 91j:90094
- Hakimi, S. Louis see Schmeichel, Edward; et al. 91f:68011
- Heisig, K. see Gerth, Christiane; et al. (Not in MR)
- Iijima, Junichi see Takahara, Yasuhiko. 91m:90016
- Islam, M. A. see Galati, T. R. 91j:90063
- Keller, L. Robin see Farquhar, Peter H. 91a:90017
- Labbé, Martine Location of an obnoxious facility on a network: a voting approach. 91a:90073
- Lai, Yao Tsung Using attribute trend testing in decision analysis. 91c:90134
- Lipfert, Wilfried Über sequentielle stochastische Entscheidungsmodelle mit vektorwertigen Ertragsfunktionalen. (English and Russian summaries) [On sequential stochastic decision models with vector-valued reward functionals] 91k:90155
- Lipp, R. see Gerth, Christiane; et al. (Not in MR)
- Liu, Guang Zhong An iterative trade-off method for multi-objective programming problems. (Chinese. English summary) 91h:90091
- Moldovanu, B. Stable bargained equilibria for assignment games without side payments. 91k:90251
- Montero de Juan, Francisco Javier An axiomatic approach to fuzzy multicriteria analysis. 91g:90179
- Novák, Jiří VMDP-program for solving optimality problems in vector criterion Markov and semi-Markov decision processes. 91k:90218
- Otsuka, M. see Schmeichel, Edward; et al. 91f:68011
- Ravindran, A. see Shin, Wan S. 91m:90145
- Ryabchikova, N. A. (with Shul'govskii, V. V.; Adzhimolae, T. A.) Specifics of the structure of algorithms of human behavior in formal environments. (Not in MR)
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- (with Yano, Hitoshi) An interactive fuzzy satisficing method for generalized multiobjective linear programming problems with fuzzy parameters. **91a:90159**
- *see also* Yano, Hitoshi, **91b:90172**
- Sarychev, A. V. *see* Borzenko, V. I.; et al., **91b:90010**
- Schmeichel, Edward (with Hakimi, S. Louis; Otsuka, M.; Sullivan, G.) A parallel fault identification algorithm. **91f:68011**
- (Shachter, Ross D.) *see* Special Issue: Influence diagrams, **91c:92030**
- Shin, Wan S. (with Ravindran, A.) An interactive method for multiple-objective mathematical programming problems. **91m:90145**
- Shubina, M. V. *see* Borzenko, V. I.; et al., **91b:90010**
- Shul'govskii, V. V. *see* Ryabchikova, N. A.; et al., (Not in MR)
- Simons, Gordon (with Yao, Yi-Ching) Some results on the bomber problem. **91h:90151**
- Stadje, Wolfgang A full information pricing problem for the sale of several identical commodities. (German summary) **91d:90034**
- Sullivan, G. *see* Schmeichel, Edward; et al., **91f:68011**
- Takahara, Yasuhiko (with Iijima, Junichi) Rational decision principle and social choice function. **91m:90016**
- Takahashi, Takenori Simultaneous control charts based on (\bar{X}, s) and (\bar{X}, R) for multiple decision on process change. (Not in MR)
- Uppasuri, V. R. R. Prioritization techniques based on stochastic paired comparisons. **91g:92031**
- Węglarz, Jan Multicriteria scheduling under continuous, doubly constrained resources. **91j:90044**
- Weidner, Petra An approach to different scalarizations in vector optimization. **91j:90068**
- Woodside, William An optimal decision rule for the parking-meter problem. **91g:60064**
- Yano, Hitoshi (with Sakawa, Masatoshi) Interactive fuzzy decision making for generalized multiobjective linear fractional programming problems with fuzzy parameters. **91b:90172**
- *see also* Sakawa, Masatoshi, **91a:90159** and **91c:90094**
- Yao, Yi-Ching *see* Simons, Gordon, **91h:90151**
- Zimmermann, L. *see* Gerth, Christiane; et al., (Not in MR)

Items listed otherwise than by author

Acting under uncertainty: multidisciplinary conceptions ★ Acting under uncertainty: multidisciplinary conceptions. **91a:90015**

Special Issue:

Influence diagrams ★ Special issue on influence diagrams. **91c:92030**

90B60 Marketing, advertising [see also 90A60]

- Carpenter, Gregory S. Perceptual position and competitive brand strategy in a two-dimensional, two-brand market. **91b:90110**
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- Zhao, Lan *see* Nagurney, Anna, **91m:90067**

90B70 Theory of organizations, industrial and manpower planning [see also 92H35]

- Atkins, Derek A survey of lower bounding methodologies for production/inventory models. (Not in MR)
- Dresnick, R. F. ★ A mathematical organization theory. **91k:90082**
- Krivonoz, I. Yu. (with Pokotilo, V. G.; Pshenichnyi, B. N.) Optimization of an observation process. **91g:90091**
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- Pokotilo, V. G. *see* Krivonoz, I. Yu.; et al., **91g:90091**
- Pshenichnyi, B. N. *see* Krivonoz, I. Yu.; et al., **91g:90091**

90B80 Discrete location and assignment [see also 90C10]

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- Anderson, Edward J. (with Weber, Richard R.) The rendezvous problem on discrete locations. **91h:90054**
- Balas, Egon (with Saltzman, Matthew J.) An algorithm for the three-index assignment problem. (Not in MR)
- Balasubramanian, K. N. *see* Panneerselvam, R.; et al., **91b:90111**
- Barceló, Jaime (with Halleford, Ása; Fernández, Eduardo; Jörnsten, Kurt) Lagrangean relaxation and constraint generation procedures for capacitated plant location problems with single sourcing. (German summary) **91c:90064**
- Berman, Oded Mean-variance location problems. **91h:90083**
- (with Kaplan, Edward H.) Equity maximizing facility location schemes. (Not in MR)
- Bigildeeva, T. B. (with Ganzha, T. V.; Tretyakov, A. A.; Yaitkov, A. S.) A model and a method for solving an extremal allocation problem in the design of high-speed computers. (Not in MR)
- Branco, I. M. (with Coelho, J. D.) The Hamiltonian p -median problem. **91h:90055**
- Brandeau, Margaret L. (with Chiu, Samuel S.) Parametric analysis of optimal facility locations. **91m:90095**
- Brown, Kathleen M. *see* Ramesh, R. (Not in MR)
- Chen, C. K. *see* Hooker, J. N.; et al., **91m:90096**
- Chen, Reuben An improved method for the solution of the problem of location on an inclined plane. (French summary) (Not in MR)
- Chiu, Samuel S. *see* Brandeau, Margaret L., **91m:90095**
- Coelho, J. D. *see* Branco, I. M., **91h:90055**

- Dorhout, B. *see* Nawijn, Wim M., **91k:90087**
- Eiselt, Horst A. (with Laporte, Gilbert) Locational equilibrium of two facilities on a tree. (French summary) (Not in MR)
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- El-Darzi, Ella (with Mitra, Gautam) A tree search approach based on an assignment relaxation for the solution of set covering problems. **91g:90092**
- Erkut, Erhan The discrete p -dispersion problem. **91c:90056**
- Fernández, Eduardo *see* Barceló, Jaime; et al., **91c:90064**
- Ganzha, T. V. *see* Bigildeeva, T. B.; et al., (Not in MR)
- Garfinkel, R. S. *see* Hooker, J. N.; et al., **91m:90096**
- Gaubert, Stéphane An algebraic method for optimizing resources in timed event graphs. **91E:90069**
- Hajek, Bruce Performance of global load balancing by local adjustment. (Not in MR)
- Halleford, Ása *see* Barceló, Jaime; et al., **91c:90064**
- Ho, Peng-Kuan *see* Perl, Josef; (Not in MR)
- Holzman, Ron An axiomatic approach to location on networks. **91k:90084**
- Hooker, J. N. (with Garfinkel, R. S.; Chen, C. K.) Finite dominating sets for network location problems. **91m:90096**
- Jörnsten, Kurt *see* Barceló, Jaime; et al., **91c:90064**
- Kaplan, Edward H. *see* Berman, Oded, (Not in MR)
- Karkazis, John Locating obnoxious materials in a building. **91f:90005**
- Locating emergency centers on the plane. **91f:90070**
- Kasai, Tamotsu *see* Yamada, Shōichirō, (Not in MR)
- Kiran, Ali S. *see* Kouvelis, Panagiotis, (Not in MR)
- Ko, M. T. (with Lee, R. C. T.) On weighted rectilinear 2-center and 3-center problems. **91h:90056**
- Kouvelis, Panagiotis (with Kiran, Ali S.) The plant layout problem in automated manufacturing systems. (Not in MR)
- Kulper, J. H. Location patterns and distances in Tinbergen-Bos systems. (Not in MR)
- Laporte, Gilbert *see* Eiselt, Horst A., (Not in MR)
- Lee, Cheong Y. An optimal algorithm for the multiproduct capacitated facility location problem with a choice of facility type. **91f:90075**
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- Lin, Shioh Nan *see* Liang, Gin Shuh, **91f:90071**
- Love, Robert F. (with Morris, James G.; Wesolowsky, George O.) ★ Facilities location. **91k:90086**
- Martello, Silvano (with Toth, Paolo) Lower bounds and reduction procedures for the bin packing problem. **91c:90057**
- Michelot, C. *see* Lefebvre, O.; et al., **91c:90065** and (Not in MR)
- Miller, Donald L. *see* Pekny, Joseph F.; et al., (Not in MR)
- (Mills, Edwin S.) *see* Handbook: Regional and urban economics, **91k:90091**
- Mitra, Gautam *see* El-Darzi, Ella, **91g:90092**
- Monma, Clyde L. (with Schrijver, Alexander; Todd, Michael J.; Wei, Victor K.) Convex resource allocation problems on directed acyclic graphs: duality, complexity, special cases, and extensions. **91f:90047**
- Morozenko, V. V. Complexity of self-correcting algorithms for two search problems. (Russian) (Not in MR)
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- Nawijn, Wim M. (with Dorhout, B.) On the expected number of assignments in reduced matrices for the linear assignment problem. **91k:90087**
- Panneerselvam, R. (with Balasubramanian, K. N.; Thiagarajan, M. T.) Models for warehouse location problem. **91b:90111**
- Parulava, B. V. A connection between the homogeneous and the nonhomogeneous problem of optimal location. (Russian) (Not in MR)
- Pekny, Joseph F. (with Miller, Donald L.; Stodolsky, Daniel) A note on exploiting the Hamiltonian cycle problem substructure of the asymmetric traveling salesman problem. (Not in MR)
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- Plus, Max L'algebre (max, +) et sa symétrisation ou l'algebre des équilibres. (English summary) [(max, +) algebra and its symmetrization or the algebra of balances] **91j:90048**
- Quinzil, Martine (with Thisse, Jacques-François) On the optimality of central places. **91m:90097**
- Ramesh, R. (with Brown, Kathleen M.) An efficient four-phase heuristic for the generalized orienteering problem. (Not in MR)
- ReVelle, Charles Urban public facility location. (see **91k:90091**)
- Rhee, WanSoo T. (with Talagrand, Michel) On the k -center problem with many centers. **91f:90093**
- Righter, Rhonda Stochastically maximizing the number of successes in a sequential assignment problem. **91j:90049**
- Rom, Eytan NP-complete stable matching problems. **91k:90088**
- Saario, Vesa (with Sakaguchi, Minoru) Some generalized house-selling problems. **91g:90094**
- Sakaguchi, Minoru *see* Saario, Vesa, **91g:90094**
- Saltzman, Matthew J. *see* Balas, Egon, (Not in MR)
- Schrijver, Alexander *see* Monma, Clyde L.; et al., **91f:90047**
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Song, Tian Tai (with Zhou, Li) A new algorithm for the quasi-assignment problem. 91k:90090

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Stodolsky, Daniel see Pekny, Joseph F.; et al., (Not in MR)

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Talagrand, Michel see Rhee, WanSoo T., 91g:90093

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Thisse, Jacques-François see Quinzil, Martine, 91m:90097

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Tien, James M. see Eitan, Yair; et al., (Not in MR)

Todd, Michael J. see Monma, Clyde L.; et al., 91j:90047

Toth, Paolo see Martello, Silvano, 91c:90057

Tref'akov, A. A. see Bigil'deva, T. B.; et al., (Not in MR)

Wagner, Wieslaw see Wysocki, Feliks, (Not in MR)

Weber, Richard R. see Anderson, Edward J., 91h:90054

Wei, Victor K. see Monma, Clyde L.; et al., 91j:90047

Wesolowsky, George O. see Love, Robert F.; et al., 91k:90086

Wysocki, Feliks (with Wagner, Wieslaw) Some remarks on the determination of the initial matrix of membership degree in a fuzzy classification of objects. (Czech summary) (Not in MR)

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Yaitakov, A. S. see Bigil'deva, T. B.; et al., (Not in MR)

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problem. (Not in MR)

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problem. (Russian) (Not in MR)

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Cheng, Kam-Hoi see Li, Keqin, 91f:68070

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deterministic approximation scheme. 91f:68049

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Rubinstein, Reuven Y. How to optimize discrete-event systems from a single sample path by

the score function method. 91m:90186

Solanki, Rajendra S. Generating the noninferior set in mixed integer biobjective linear

programs: an application to a location problem. 91g:90116

Thompson, Clark D. see Raghavan, Prabhakar, 91f:68049

Tiešis, Vytautas Gradient algorithms for discrete resource allocation. (Russian. English and

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Xu, Da Tu see Wu, Yu Hua¹, (Not in MR)

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90B85 Continuous location

Castañón, David A. see Miao, Xiyi; et al., (Not in MR)

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Caputo, Michael R. How to do comparative dynamics on the back of an envelope in optimal control theory. 91g:49012

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problem. 91k:90157

Juška, Faustas see Tiešis, Vytautas; et al., 91k:90112

Panik, Michael J. Output learning and duality in joint production programs. (Not in MR)

Pokotilo, V. G. see Pshenichnyi, B. N., 91k:49041

Pshenichnyi, B. N. (with Pokotilo, V. G.) On the problem of the optimal girth of sets.

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Šaltenis, Vydnas see Tiešis, Vytautas; et al., 91k:90112

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Haken, Hermann Synergetics: theory of self-organization in complex systems. (see

91f:90006)

Papadakis, Nikiforos A. (with Perakis, Anastassios N.) Deterministic minimal time vessel

routing. 91f:90073

Perakis, Anastassios N. see Papadakis, Nikiforos A., 91f:90073

Vyazgin, V. A. (with Fedorov, Vyacheslav Vasil'evich) ★ Математические методы

автоматизированного проектирования. (Russian) [Mathematical methods for auto-

mated design] 91b:90113

Items with secondary classifications in 90B99

Aggarwal, Alok (with Klawe, Maria; Lichtenstein, David; Linial, Nathan; Wigderson, Avi)

A lower bound on the area of permutation layouts. 91m:68071

Anderson, Richard John (with Mayr, Ernst W.; Warmuth, Manfred K.) Parallel approxima-

tion algorithms for bin packing. 91c:68045

Csikrik, J. (with Frenk, J. B. G.; Labbé, Martine; Zhang, S.) On the multidimensional vector

bin packing. 91k:68082

Delosme, Jean-Marc A parallel algorithm for the algebraic path problem. (see 91a:68006)

De Simone, Caterina The cut polytope and the Boolean quadric polytope. 91c:52017

Frenk, J. B. G. see Csikrik, J.; et al., 91k:68082

Friesen, Donald K. (with Langston, Michael A.) Analysis of a compound bin packing

algorithm. 91k:68070

Klawe, Maria see Aggarwal, Alok; et al., 91m:68071

Labbé, Martine see Csikrik, J.; et al., 91k:68082

Langston, Michael A. see Friesen, Donald K., 91k:68070

Lichtenstein, David see Aggarwal, Alok; et al., 91m:68071

Linial, Nathan see Aggarwal, Alok; et al., 91m:68071

Mayr, Ernst W. see Anderson, Richard John; et al., 91c:68045

Ostaszewicz, Walenty Formalization of quantifier phrases. 91a:03056

Rubinshtein, M. I. ★ Оптимальная группировка взаимосвязанных объектов. (Russian)

[Optimal grouping of interconnected objects] 91a:90120

Shafer, Glenn The unity of probability. 91g:03015

Warmuth, Manfred K. see Anderson, Richard John; et al., 91c:68045

Wigderson, Avi see Aggarwal, Alok; et al., 91m:68071

Zhang, S. see Csikrik, J.; et al., 91k:68082

90Cxx Mathematical programming [see also 49Mxx, 65Kxx]

(Cabot, A. Victor) see Special issue on global optimization, (Not in MR)

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decision problems] (Not in MR)

Guidotti, Laura see Muracchini, Luigi, 91b:90114

Muracchini, Luigi (with Guidotti, Laura) ★ Programmazione matematica. (Italian)

[Mathematical programming] 91b:90114

Items listed otherwise than by author

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[Guide to operations research. Vol. 1] 91g:90060

(Brahimi, Ch.) see All, A., 91g:90060

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(Gay, David M.) see Interior point methods for linear programming, 91m:90004

Khachiyan, L. G. The problem of calculating the volume of a polyhedron is enumeratively hard. 91c:68073

(Kojima, Masakazu) *see* Interior point methods for linear programming. 91m:90004
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Lemaréchal, Claude ★ *Méthodes numériques d'optimisation*. (French) [Numerical methods of optimization] 91d:65002

(Lignelet, P.) *see* Ali, A., 91g:90060

(Pardalos, Panos M.) *see* Computational methods in global optimization. 91h:90004

(Rosen, J. B.) *see* Computational methods in global optimization. 91h:90004

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Items listed otherwise than by author

Computational methods in global optimization ★ Computational methods in global optimization. 91h:90004

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Special Issue:

Interior point methods for linear programming ★ Interior point methods for linear programming. 91m:90004

90C05 Linear programming

Aardal, Karen (with Ari, Aysen) On the resemblance between the Karmarkar-Liptak and cross decomposition techniques for block-angular linear programs. 91d:90057

Abdel-Fattah, Ibrahim Moussa Probabilistic version for sensitivity analysis in deterministic linear programming model. (Not in MR)

Adler, Ilan *see* Monteiro, Renato D. C.; et al., 91m:90101

Akçil, Mustafa A short proof of Karmarkar's main result. (Turkish summary) 91e:90058

Anstreicher, Kurt M. The worst-case step in Karmarkar's algorithm. 91a:90101

— A standard form variant, and safeguarded linesearch, for the modified Karmarkar algorithm. 91k:90092

Ari, Aysen *see* Aardal, Karen, 91d:90057

Ašić, Miroslav D. (with Kovačević-Vujčić, Vera V.; Radosavljević-Nikolić, Mirjana D.) Asymptotic behaviour of Karmarkar's method for linear programming. 91c:90066

Babikov, G. V. Linear programming over ordered division rings. 91f:90074

Bagchi, Ansuman *see* Shanno, David F., 91f:90080

Bandoni, José A. (with Romagnoli, José A.) Uncertainty in linear programming. (see 91c:90029)

Baumgart, Ralf (with Beer, Klaus) Ein Dekompositionszugang zu inkonsistenten linearen Optimierungsaufgaben. [A decomposition approach to inconsistent linear optimization problems] 91h:90058

Bector, C. R. *see* Feiring, Bruce R.; et al., (Not in MR)

Beer, Klaus *see* Baumgart, Ralf, 91h:90058

Bein, W. (with Brucker, Peter) An $O(n \log n)$ -algorithm for solving a special class of linear programs. (German summary) 91a:90102

Best, M. J. (with Chakravarti, N.) Stability of linearly constrained convex quadratic programs. 91h:90115

Bettayeb, Maamar New interpretation of balancing state space representations as an input-output energy minimization problem. (Not in MR)

Blair, Charles Representation for multiple right-hand sides. 91h:90059

Böttcher, Jürgen Local decomposition for linear programs with dual block-angular structure. 91g:90096

Brucker, Peter *see* Bein, W., 91a:90102

Chadha, S. S. An upper bounded parametric linear program. 91h:90116

Chakravarti, N. *see* Best, M. J., 91h:90115

Chandrasekaran, R. *see* Megiddo, Nimrod, 91h:90122

Chang, Sao Y. (with Murty, Katta G.) The steepest descent gravitational method for linear programming. 91a:90103

Chang, Yun Xiu *see* Feng, En Min; et al., (Not in MR)

Charnes, A. (with Neralich, L.) Sensitivity analysis in data envelopment analysis. I. (Serbo-Croatian summary) 91h:90060

Chatterjee, Shyamal *see* Sen, Rabindranath, 91a:90109

Chen, Chao (with Huang, Chun Yi) A combinatorial program using the simplex method. (Chinese. English summary) 91e:90059

Cheng, T. C. E. *see* Feiring, Bruce R.; et al., (Not in MR)

Coleman, Thomas F. (with Li, Yuying) A quadratically-convergent algorithm for the linear programming problem with lower and upper bounds. 91k:90093

Delgado, M. (with Verdegay, J. L.; Vila, M. A.) Relating different approaches to solve linear programming problems with imprecise costs. 91f:90075

Deng, Xiao Tie An optimal parallel algorithm for linear programming in the plane. 91c:90060

Du, Ding Zhu (with Wu, Fang; Zhang, Xiang Sun) Why is the objective function nonlinearized in the interior point methods for linear programming? (Chinese) 91k:90094

— *see also* Zhang, Xiang Sun, 91h:90065

Ducs, Dorel I. Theorems of the alternative for nonhomogeneous complex linear equations and inequalities. 91k:90095

Eiselt, Horst A. (with Sandblom, C.-L.) Experiments with external pivoting. (Not in MR)

Fazylov, V. R. *see* Valina, A. I., 91k:90102

Feiring, Bruce R. (with Cheng, T. C. E.; Bector, C. R.) A note on probability assignments in estimating the time to solve linear programs. (Not in MR)

Feng, En Min (with Wu, Tie Sheng; Piao, Ming Zhi; Chang, Yun Xiu) An optimization model and an algorithm for acting dynamic parameters. (Chinese. English summary) (Not in MR)

Friskay, C. Linear updates for a single-phase projective method. 91m:90098

Fuller, Robert On fuzzified linear programming problems. 91h:90061

Fülöp, János A finite cutting plane method for solving linear programs with an additional reverse convex constraint. 91a:90104

Gabasov, R. F. (with Kirillova, F. M.; Kostina, E. A.) A network problem in piecewise-linear programming. (Russian. English summary) 91h:90117

Gamboa, Fabrice (with Gzyl, Henryk) Linear programming with maximum entropy. 91e:90034

Gao, Zi You *see* Lu, Xin Ming; et al., 91k:90097

García, Lina An iterative aggregation algorithm for general linear programming. (Spanish. English summary) 91h:90118

— A decomposition method in linear programming. (Spanish. English summary) 91g:90097

Gushchenko, V. S. Development and numerical investigation of algorithms for solving linear optimization problems that admit the application of approximate computations. (Russian) 91a:90105

Godlevskii, M. D. An algorithm for correcting contradictory models of multicriterial problems of planning the development of large technical and economic systems. 91g:90098

Goffin, J.-L. (with Vial, Jean-Philippe) Cutting planes and column generation techniques with the projective algorithm. 91d:90058

Golub, B. M. A modification of the linearization method. (Ukrainian. Russian summary) (Not in MR)

Gonzaga, Clovis C. Polynomial affine algorithms for linear programming. 91h:90035

Gribkovskaya, I. V. A dual method for solving a perturbed problem of linear programming. (Russian) 91h:90119

Gzyl, Henryk The max-ent approach to linear programming with quadratic errors. (Not in MR)

— *see also* Gamboa, Fabrice, 91e:90034

He, Bing Sheng The saddle point algorithm for general linear programming. (Chinese. English summary) 91m:90099

He, Yue Shan A method for finding the initial feasible basis in linear programming. (Chinese) (Not in MR)

Hettich, R. (with Ries, M.) A modified scaling algorithm for LP. 91h:90062

Hollatz, Horst Some numerical and practical problems in linear programming. (see 91h:90023)

Huang, Chun Yi *see* Chen, Chao, 91e:90059

Huang, Sheng Le Identification of controlled processes by using simplex method for the linear programming on a computer. (Chinese. English summary) (Not in MR)

Huynh, Huu-Nhon (with Kumar, Santosh) A random search method for extreme point mathematical programming. (Not in MR)

Ishii, Hiroaki *see* Morita, Hiroshi; et al., 91f:90077

Jansson, C. (with Rump, Siegfried M.) Rigorous sensitivity analysis for systems of linear equations and linear programming problems. 91h:90063

Jędrzej, Jadwiga (with Rycerz, Anna) On some operation that preserves the total dual integrality. (Polish summary) 91h:90120

Kakes, Alibelt (with Oliva, Aurora) A two-step method for dynamical linear models. (Spanish. English summary) 91k:90096

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Karmarkar, Narendra K. (with Lagarias, Jeffrey C.; Slutsman, Lev; Wang, Pyng) Power series variants of Karmarkar-type algorithms. 91g:90099

Kim, Moon-Hyun *see* Kalaba, Robert; et al., (Not in MR)

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Komlads, G. M. An algorithm for solving problems in linear programming. (Russian. English and Georgian summaries) (Not in MR)

Korytowski, A. Inner search methods for linear programming. 91f:90076

Kostina, E. A. *see* Gabasov, R. F.; et al., 91h:90117

Kovačević-Vujčić, Vera V. *see* Ašić, Miroslav D.; et al., 91c:90066

Kudia, V. I. A relaxational scheme for solving a linear programming problem using the sequential analysis method. 91d:90059

Kumar, Santosh *see* Huynh, Huu-Nhon, (Not in MR)

Lagarias, Jeffrey C. The nonlinear geometry of linear programming. III. Projective Legendre transform coordinates and Hilbert geometry. 91g:90100

— *see also* Karmarkar, Narendra K.; et al., 91g:90099

Li, Yuying *see* Coleman, Thomas F., 91k:90093

Lissac, A. (with Tolla, Pierre) Variants of Karmarkar's algorithm. (French summary) 91c:90068

Liu, Xi Guang A new improvement on the simplex algorithm. (Chinese) (Not in MR)

Lozovans, D. D. The equivalence of a bilinear programming problem and a maximin linear problem with constrained variables. (Russian) 91a:90106

Lu, Xin Ming (with Gao, Zi You; Zhang, Shu Jian) A simplex method and a broken line search technique for solving linear programming problems. (Chinese. English summary) 91k:90097

Lastig, Irvin J. (with Marsten, Roy E.; Shanno, David F.) The primal-dual interior point method on the Cray supercomputer. 91m:90100

Ma, Jian Ling (with Wang, Ze Ke) The flex simplex algorithm. (Chinese) (Not in MR)

Maros, István ★ MILP. Linear programming optimizer for personal computers under DOS. (Not in MR)

Marsten, Roy E. *see* Lastig, Irvin J.; et al., 91m:90100

McDiarmid, C. J. H. On the improvement per iteration in Karmarkar's algorithm for linear programming. 91h:90121

McLewin, Will ★ Linear programming and applications. 91e:90061

Megiddo, Nimrod (with Chandrasekaran, R.) On the ϵ -perturbation method for avoiding degeneracy. 91h:90122

Mirzakhmedov, F. (with Mosheev, L. I.) A stochastic analogue of a class of improper linear programming problems. (Russian) (see 91m:90095)

— (with Mosheev, L. I.) Duality for a class of improper problems of linear programming and their applications. 91k:90098

Mizuno, Shinji A rank one updating interior algorithm for linear programming. (Arabic summary) 91h:90064

Monteiro, Renato D. C. (with Adler, Ilan; Resende, Mauricio G. C.) A polynomial-time primal-dual affine scaling algorithm for linear and convex quadratic programming and its power series extension. 91m:90101

Moore, James E., II *see* Kalaba, Robert; et al., (Not in MR)

Morita, Hiroshi (with Ishii, Hiroaki; Nishida, Toshio) Stochastic linear programming

- problem with partially estimated constraint. 91f:90077
- Morley, T. D. Linear programming and operator means. 91a:90107
- Mosheev, L. I. see Mirzakhmedov, F. 91k:90098 and 91m:90005
- Murty, Katta G. see Chang, Soo Y., 91a:90103
- Neralic, L. see Charnes, A., 91h:90060
- Nesterov, Yu. E. Polynomial iterative methods in linear and quadratic programming. (Russian) 91a:90108
- Nie, Yi Yong see Xu, Shu Rong. 91k:90104
- Nishida, Toshio see Morita, Hiroshi; et al., 91f:90077
- Nozawa, Ryohel Linear programming related to homogeneous programming. 91m:90102
- Oliva, Aurora see Kakes, Albeit, 91k:90096
- Osborne, M. R. An interior point method for linear programming. 91f:90078
- Ostapenko, V. A. Necessary and sufficient conditions for the dependence of constraints in problems of linear programming. (Russian) (see 91b:90029)
- Pan, Ping Qi Practical finite pivoting rules for the simplex method. (Not in MR)
- Pan, Victor The modified barrier function method for linear programming and its extensions. 91f:90079
- Paparrizos, Konstantinos A two phase simplex without artificial variables. 91d:90060
- Pesikov, E. B. see Yusupov, F., (91m:00013)
- Piao, Ming Zhi see Feng, En Ming; et al., (Not in MR)
- Powell, M. J. D. Karmarkar's algorithm: a view from nonlinear programming. 91k:90099
- Prekopa, András The discrete moment problem and linear programming. 91j:90050
- Radosavljević-Nikolić, Mirjana D. see Aškć, Miroslav D.; et al., 91c:90066
- Resende, Mauricio G. C. see Monteiro, Renato D. C.; et al., 91m:90101
- Ries, M. see Hettich, R., 91h:90062
- Robinson, Lawrence W. Baseball playoff eliminations: an application of linear programming. 91m:90103
- Rohn, Jiří Characterization of a linear program in standard form by a family of linear programs with inequality constraints. (Czech summary) (Not in MR)
- Romagnoli, José A. see Bandoni, José A., (91c:00029)
- Ross, C. An $O(n^3L)$ approximate center method for linear programming. 91k:90100
- Rump, Siegfried M. see Jansson, C., 91h:90063
- Rycerz, Anna see Jegier, Jadwiga. 91b:90120
- Sandblom, C.-L. see Eiselt, Horst A., (Not in MR)
- Sen, Rabindranath (with Chatterjee, Shyamal) Interval linear programming with disjunctive constraints. 91a:90109
- Shang, Yi (with Shao, He Ping) A new iterative algorithm for linear programming based on direct saddle point convergence. 91b:90123
- Shanno, David F. (with Bagchi, Ansuman) A unified view of interior point methods for linear programming. 91f:90080
- see also Lustig, Irvin J.; et al., 91m:90100
- Shao, He Ping see Shang, Yi, 91b:90123
- Shvartsin, S. M. A general problem for studying stability for linear programming. 91c:90069
- Slutsman, Lev see Karmarkar, Narendra K.; et al., 91g:90099
- Sonnevend, György (with Stoer, Josef; Zhao, Gong Yun) On the complexity of following the central path of linear programs by linear extrapolation. 91f:90036
- Stoer, Josef see Sonnevend, György; et al., 91g:90036
- Tanabe, Kunio see Tsuchiya, Takashi, 91c:90070
- Tapia, Richard (with Zhang, Y.) Cubically convergent method for locating a nearby vertex in linear programming. 91k:90101
- Tichatschke, Rainer Connections between generalized, inexact and semi-infinite linear programming. 91b:90124
- Tondere, Teodor Use of deep cuts in Khachiyan's algorithm. (Romanian summary) 91g:90101
- Tolla, Pierre Optimal termination criterion and optimal solution accuracy test in Karmarkar's algorithm. 91f:90081
- see also Lieser, A., 91c:90068
- Torabi, M. Decomposed block Cholesky factorization in the Karmarkar algorithm. Solving a class of super large LP problems. 91f:90082
- Tsatskin, M. L. (with Ubaidullaev, A. A.) A recurrent linear programming algorithm. (Russian) (see 91m:90013)
- Tseng, Paul Distributed computation for linear programming problems satisfying a certain diagonal dominance condition. 91c:90061
- Tsuchiya, Takashi (with Tanabe, Kunio) Local convergence properties of new methods in linear programming. 91c:90070
- Ubaidullaev, A. A. see Tsatskin, M. L., (91m:90013)
- Vafina, A. I. (with Fazylov, V. R.) A random search method for the solution of a series of linear programming problems. (Russian) 91k:90102
- Venkatesh, V. Ch. An efficient algorithm for linear programming. 91k:90103
- Verdegay, J. L. see Delgado, M.; et al., 91f:90075
- Vial, Jean-Philippe A unified approach to projective algorithms for linear programming. 91b:90125
- see also Goffin, J.-L., 91d:90058
- Vila, M. A. see Delgado, M.; et al., 91f:90075
- Wang, Ping see Karmarkar, Narendra K.; et al., 91g:90099
- Wang, Ze Ke see Ma, Jian Ling. (Not in MR)
- Ward, James E. (with Wendell, Richard E.) Approaches to sensitivity analysis in linear programming. 91m:90104
- Wendell, Richard E. see Ward, James E., 91m:90104
- de Werra, Dominique ★ *Éléments de programmation linéaire avec application aux graphes.* (French) [Elements of linear programming with application to graphs] 91b:90126
- Wright, Stephen Joseph Implementing proximal point methods for linear programming. 91d:90062
- Wu, Fang see Du, Ding Zhu; et al., 91k:90094
- Wu, Tie Sheng see Feng, En Ming; et al., (Not in MR)
- Xia, Shao Gang (with Zhang, Zhen Gang) A method for solving linear programming problems with upper bounds on variables. (Chinese) (Not in MR)
- Xu, Shu Rong (with Nie, Yi Yong) Some improved results on ellipsoid algorithm for linear programming. (Chinese summary) 91k:90104
- Xue, Jia Qing A one-phase simplex method. (Chinese. English summary) 91a:90110
- Yang, Zhong Hua² see Zhu, Mei Fang. 91b:90127
- Ye, Yinyu Recovering optimal basic variables in Karmarkar's polynomial algorithm for linear programming. 91f:90083
- A class of projective transformations for linear programming. 91a:90111
- Yue, Ming The data envelopment analysis method for establishing production functions. (Chinese) (Not in MR)
- Yusupov, F. (with Pesikov, E. B.) A method for reducing a stochastic planning model with row constraints in probability to a deterministic equivalent. (Russian) (see 91m:00013)
- Zeleny, Milan De novo programming. (Czech summary) (Not in MR)
- Zhang, Jian Zhong The affine transformation method and the path following method for solving linear programming problems. (Chinese) (Not in MR)
- Zhang, Shu Jian see Lu, Xin Ming; et al., 91k:90097
- Zhang, Xiang Sun (with Du, Ding Zhu) Generalized binary search and its application to the proof of the complexity of polynomial algorithms for LP. (Chinese. English summary) 91h:90065
- see also Du, Ding Zhu; et al., 91k:90094
- Zhang, Y. see Tapia, Richard, 91k:90101
- Zhang, Zhen Gang see Xia, Shao Gang. (Not in MR)
- Zhao, Gong Yun see Sonnevend, György; et al., 91g:90036
- Zhao, Ming Qing Fuzzy linear programming problems for a class of fuzzy numbers with L-R type variables. (Chinese. English summary) (Not in MR)
- Zhu, Mei Fang (with Yang, Zhong Hua²) The LU decomposition technique for active set methods in linear programming. (Chinese. English summary) 91b:90127
- Zimmermann, U. Search directions for a class of projective methods. (German summary) 91m:90105
- Zyugina, R. A. Solution of a system of linear equations on the basis of an ordered consolidation of its multilayered block property. (Russian) (Not in MR)
- Algorithms for solving block problems of linear programming in connection with a programming package for realizing them. (Russian) (Not in MR)

Items with secondary classifications in 90C05

- Adams, Warren P. see Sherali, Hanif D., 91k:90116
- Al-Khayyal, Faiz A. On characterizing linear complementarity problems as linear programs. 91c:90119
- An, Li Jing see Li, Xian Bin, 91c:93058
- Anderson, Edward J. (with Lewis, Adrian S.) An extension of the simplex algorithm for semi-infinite linear programming. 91c:90118
- Aragón, J. L. (with Vázquez Polo, G.; Gómez, Alfredo) A general algorithm for the generation of quasilattices by means of the cut and projection method using the simplex method of linear programming and the Moore-Penrose generalized inverse. 91f:90030
- Ashby, Steven F. (with Manteuffel, Thomas A.; Saylor, Paul E.) Adaptive polynomial preconditioning for Hermitian indefinite linear systems. 91m:65123
- Avis, David (with Doskas, Mike) Algorithms for high-dimensional stabbing problems. 91c:68119
- Bakanda, Athanase Sur l'ensemble des points efficaces en programmation multilinéaire. (English summary) [On the set of efficient points in linear multiobjective programming] 91b:90163
- Barahona, Francisco (with Mahjoub, Ali Ridha) Facets of the balanced (acyclic) induced subgraph polytope. 91c:05178
- Bazaraa, Mokhtar S. (with Jarvis, John J.; Sherali, Hanif D.) ★ *Linear programming and network flows.* 91h:90001
- Bregman, L. M. A polynomial method of simplex type for solving systems of linear inequalities. 91f:65121
- Bricker, D. L. see Rajgopal, J., 91h:90088
- Buckley, James J. Multiobjective possibilistic linear programming. 91d:90103
- de Campos Ibáñez, Luis Miguel Fuzzy linear programming models to solve fuzzy matrix games. 91j:90098
- Caron, R. J. (with McDonald, James Frederick; Ponc, C. M.) A degenerate extreme point strategy for the classification of linear constraints as redundant or necessary. 91a:90146
- Charnes, A. (with Cooper, W. W.; Sears, M.; Zlobec, S.) Efficiency evaluations in perturbed data envelopment analysis. (see 91k:90010)
- Chandhari, N. S. (with Phatak, D. B.) A new approach for graph isomorphism. 91b:05131
- Chavez, J. D. A natural notion of morphism for linear programming problems. 91c:90071
- Chen, Kai Zhou (with Dang, Chuang Yin) A new variable-dimension simplicial algorithm based on a new triangulation D_1 . (Chinese. English summary) 91h:65087
- Cohon, Jared L. see Solanki, Rajendra S., 91c:90100
- Cooper, W. W. see Charnes, A.; et al., (91k:90010)
- Costa, O. L. V. Impulse control of piecewise-deterministic processes via linear programming. 91k:93054
- Dang, Chuang Yin (with Talman, Dolf) A new triangulation of the unit simplex for computing economic equilibria. 91g:90037
- see also Chen, Kai Zhou, 91h:65087
- Dauer, Jerald P. (with Saleh, O. A.) Constructing the set of efficient objective values in multiple objective linear programs. 91d:90081
- (with Liu, Yi-Hsin) Solving multiple objective linear programs in objective space. 91d:90082
- Donescu, Al. The SIMPLEX algorithm with the aid of Gauss-Seidel method. (French and Russian summaries) 91a:65069
- Doskas, Mike see Avis, David, 91c:68119
- Dror, Moshe (with Gass, Saul I.) A case for interactive multiobjective linear programming (MOLP). 91k:90151
- Duca, Dorel I. see Stancu-Minasian, I. M.; et al., 91c:90101
- Farkas, Gábor On the extreme points of sets of measures defined by moment inequalities. 91c:44010
- Fisher, Marshall L. (with Kedia, Pradeep) Optimal solution of set covering/partitioning problems using dual heuristics. 91c:90073
- Fukushima, Masao A conjugate gradient algorithm for sparse linear inequalities. 91h:65106
- Gabaso, R. F. (with Kirillova, F. M.; Prishchepova, S. V.) A modular problem of piecewise-linear programming. (Russian. English summary) 91j:90071
- Gambarelli, Gianfranco (with Holubiec, Jerzy; Kacprzyk, Janusz) Modeling and optimization

- tion of international economic cooperation via fuzzy mathematical programming and co-operative games. (Russian and Polish summaries) 91h:90058
- Gass, Saul I. *see* Dror, Moshe, 91k:90151
- Gassmann, Horand I. MSLiP: a computer code for the multistage stochastic linear programming problem. 91d:90069
- Gómez, Alfredo *see* Aragón, J. L.; et al., 91j:52020
- Guminski, A. V. A min-max algorithm for linear multicriterial programming. (Russian and Polish summaries) 91d:90083
- Gusfield, Dan (with Irving, Robert W.) ★ The stable marriage problem: structure and algorithms. 91c:68062
- Gyeván, Ferenc Duality for matrix maximum and vector maximum problems and its connections. (Hungarian. English summary) 91k:90153
- Helbig, Siegfried Stability in disjunctive linear optimization. I. Continuity of the feasible set. 91k:90199
- Holubiec, Jerzy *see* Gambarelli, Gianfranco; et al., 91h:90058
- Huynh, Tien (with Laszewski, Catherine; Laszewski, Jean-Louis) Fourier algorithm revisited. (see 91g:68001)
- Irving, Robert W. *see* Gusfield, Dan, 91c:68062
- Ivanitskii, A. Yu. *see* Morozov, V. A., (91k:65008) and (91k:65008)
- Jarvis, John J. *see* Bazaraa, Mokhtar S.; et al., 91h:90001
- Johanson, Robert E. Reducing cardinality in linear programmed cutting stock solutions. (Not in MR)
- Juhnke, Friedrich Das Umkreisproblem und lineare semiinfinit Optimierung. [The problem of the circumsphere and linear semi-infinite optimization] 91a:90167
- Kabe, D. G. Vanishing Jacobians, Jacobians, and the implicit function theorem with applications. 91c:26013
- Kacprzyk, Janusz *see* Gambarelli, Gianfranco; et al., 91h:90058
- Kedia, Pradeep *see* Fisher, Marshall L., 91c:90073
- Keerthi, S. S. (with Sridharan, K.) Solution of parametrized linear inequalities by Fourier elimination and its applications. 91f:15041
- Kirillova, F. M. *see* Gabasov, R. F.; et al., 91j:90071
- Klafsky, Emil (with Mayer, János; Terlaky, Tamás) Linearly constrained estimation by mathematical programming. 91h:93064
- (with Terlaky, Tamás) The role of the pivot technique in the proof of some fundamental theorems of linear algebra. (Spanish. English summary) 91j:65058
- Klatte, Diethard (with Thieme, Gisbert) Über Fehlerschranken für lineare Ungleichungssysteme. [On error bounds for systems of linear inequalities] 91f:65123
- Korte, Bernhard (with Lovász, László) Polyhedral results for antimatroids. 91c:52024
- Kostyukova, O. I. Optimization of a multidimensional linear dynamical control system. (Russian. English summary) 91m:49035
- Kriens, J. On the differentiability of the set of efficient (μ, σ^2) combinations in the Markowitz portfolio selection method. 91c:90021
- Krysov, Yu. A. *see* Ven, V. L., 91i:90069
- Laszewski, Catherine *see* Huynh, Tien; et al., (91g:68001)
- Laszewski, Jean-Louis *see* Huynh, Tien; et al., (91g:68001)
- Lewis, Adrian S. *see* Anderson, Edward J., 91c:90118
- Li, Xian Bin (with An, Li Jing) Comprehensive damping coefficient. A new definition to damping effect of linear time-invariant systems. 91c:93058
- Liu, De Gang *see* Zhang, Xiang Sun, 91m:90172
- Liu, Yi-Hsin *see* Dauer, Jerald P., 91d:90082
- Lovász, László *see* Korte, Bernhard, 91c:52024
- Lueker, George S. (with Megiddo, Nimrod; Ramachandran, Vijaya) Linear programming with two variables per inequality in poly-log time. 91k:68090
- Mahjoub, Ali Ridha *see* Narasana, Francisco, 91c:05178
- Mangasarian, O. L. (with Settono, R.; Wolberg, W. H.) Pattern recognition via linear programming: theory and application to medical diagnosis. (see 91h:90029)
- Mantecelli, Thomas A. *see* Ashby, Steven F.; et al., 91m:65123
- Masuzawa, Kaori (with Mizuno, Shinji; Mori, Masao) A polynomial time interior point algorithm for minimum cost flow problems. 91i:90077
- Mayer, János *see* Klafsky, Emil; et al., 91h:93064
- McDonald, James Frederick *see* Caron, R. J.; et al., 91a:90146
- Megiddo, Nimrod *see* Lueker, George S.; et al., 91k:68090
- Mitra, Sujit Kumar A pair of simultaneous linear matrix equations $A_1XB_1 = C_1$, $A_2XB_2 = C_2$ and a matrix programming problem. 91h:15016
- Mizuno, Shinji *see* Masuzawa, Kaori; et al., 91i:90077
- Mori, Masao *see* Masuzawa, Kaori; et al., 91i:90077
- Morozov, V. A. (with Ivanitskii, A. Yu.) A stable method for solving a class of linear programming problems. (Russian) (see 91k:65008)
- (with Ivanitskii, A. Yu.) Stable methods for solving linear programming problems with interval coefficients. (Russian) (see 91k:65008)
- Mukhamediev, B. M. Multistage two-person games with control parameters under constraints and a second-order objective function. (Russian) 91c:90137
- Nishida, Toshio *see* Stancu-Minasian, I. M.; et al., 91c:90101
- Nováč, Jiří Generating all efficient vertices in multiple objective linear programs: comparative evaluation. (Czech summary) 91a:90143
- Panik, Michael J. Farkas' theorem under convex combination. 91k:15037
- Phatak, D. B. *see* Chandhary, N. S., 91h:05131
- Pirlot, Marc Minimal representation of a semiorder. 91f:90011
- Ponic, C. M. *see* Caron, R. J.; et al., 91a:90146
- Prishchepova, S. V. *see* Gabasov, R. F.; et al., 91j:90071
- Rajgopal, J. (with Bricker, D. L.) Polynomial geometric programming as a special case of semi-infinite linear programming. 91h:90088
- Ramachandran, Vijaya *see* Lueker, George S.; et al., 91k:68090
- Reuter, Henry An approximation method for the efficiency set of multiobjective programming problems. 91m:90144
- Ruszczynski, Andrzej An augmented Lagrangian decomposition method for block diagonal linear programming problems. 91h:90128
- Saleh, O. A. *see* Dauer, Jerald P., 91d:90081
- Saylor, Paul E. *see* Ashby, Steven F.; et al., 91m:65123
- Schäfer, Klaus Semi-infinite linear optimization on noncompact spaces and its application to approximation theory. 91d:90098
- Sears, M. *see* Charnes, A.; et al., (91k:90010)
- Settono, R. *see* Mangasarian, O. L.; et al., (91h:90029)
- Shenoy, G. V. ★ Linear programming. 91k:90062
- Sherali, Hanif D. (with Adams, Warren P.) A hierarchy of relaxations between the continuous and convex hull representations for zero-one programming problems. 91k:90116
- *see also* Bazaraa, Mokhtar S.; et al., 91h:90001
- Shmyrlov, V. I. A problem of polyhedral complementarity. (Russian) 91c:90112
- A search for equilibrium in a linear exchange model with fixed budgets and additional constraints of financial type. (Russian) 91k:90036
- Smale, Stephen Some remarks on the foundations of numerical analysis. 91k:00007
- Solanki, Rajendra S. (with Cohon, Jared L.) Approximating the noninferior set in linear biobjective programs using multiparametric decomposition. 91c:90100
- Srgevich, V. G. On decomposition in problem of Markov chain optimal control calculation by means of linear programming. 91h:93078
- Sridharan, K. *see* Keerthi, S. S., 91f:15041
- Stancu-Minasian, I. M. (with Duca, Dorel I.; Nishida, Toshio) Multiple objective linear fractional optimization in complex space. 91c:90101
- Stockbridge, Richard H. Time-average control of martingale problems: existence of a stationary solution. 91h:49028
- Time-average control of martingale problems: a linear programming formulation. 91h:49029
- Sutherland, W. R. S. The offsets of a convex polygon. 91f:52023
- Talman, Dolf *see* Dang, Chuang Yin, 91g:90037
- Terlaky, Tamás *see* Klafsky, Emil; et al., 91h:93064 and 91j:65058
- Thieme, Gisbert *see* Klatte, Diethard, 91f:65123
- Todd, Michael J. The effects of degeneracy and null and unbounded variables on variants of Karmarkar's linear programming algorithm. 91m:65175
- Tran Quoc Chien Medium distances of probability fuzzy-points and an application to linear programming. 91h:03094
- Vázquez Polo, G. *see* Aragón, J. L.; et al., 91j:52020
- Ven, V. L. (with Krysov, Yu. A.) Aggregation and approximation in problems of parametric programming. 91i:90069
- Wei, Zi Loan The problem of consistency for systems of linear equations and inequalities. 91f:15013
- Wolberg, W. H. *see* Mangasarian, O. L.; et al., (91h:90029)
- Yuan, Ya Xiang Nonlinear programming—a review. 91c:90107
- Zhang, Xiang Sun (with Liu, De Gang) A note on the continuity of solutions of parametric linear programs. 91m:90172
- Zionts, Stanley Multiple criteria mathematical programming: an updated overview and several approaches. 91c:90102
- Zlobec, S. *see* Charnes, A.; et al., (91k:90010)

90C06 Large-scale problems

- Chavez, J. D. A natural notion of morphism for linear programming problems. 91c:90071
- Godlewski, M. D. An RPD-algorithm for system optimization of developing systems in problems of linear programming of large dimension. 91k:90105
- Iu, Siu-Leong *see* Zenios, Stavros A., 91b:90129
- Pak, V. E. On an asymptotic optimization problem in a class of finite suspensions. (Russian. English and Ukrainian summaries) (Not in MR)
- Ruszczynski, Andrzej An augmented Lagrangian decomposition method for block diagonal linear programming problems. 91h:90128
- Zenios, Stavros A. (with Iu, Siu-Leong) Vector and parallel computing for matrix balancing. 91h:90129
- Items with secondary classifications in 90C06
- Ahlfeld, David P. *see* Mulvey, John M.; et al., 91d:90099
- Godlewski, M. D. (with Vial, Jean-Philippe) Cutting planes and column generation techniques with the projective algorithm. 91d:90058
- Horst, Reinier (with Thai Q. Phong; Nguyen Van Thoai) On solving general reverse convex programming problems by a sequence of linear programs and line searches. 91k:90142
- Mulvey, John M. (with Zenios, Stavros A.; Ahlfeld, David P.) Simplicial decomposition for convex generalized networks. 91d:90099
- Nguyen Van Thoai *see* Horst, Reinier; et al., 91k:90142
- Thai Q. Phong *see* Horst, Reinier; et al., 91k:90142
- Tokareva, O. N. The decomposition method for solving a block system of linear equalities and inequalities of large dimension by means of sequential quadratic programming. 91a:90129
- Vial, Jean-Philippe *see* Godlewski, M. D., 91d:90058
- Wright, Stephen Joseph Implementing proximal point methods for linear programming. 91d:90062
- Zenios, Stavros A. *see* Mulvey, John M.; et al., 91d:90099

90C08 Special problems of linear programming (transportation, multi-index, etc.)

- Achary, K. K. A direct simplex type method for determining all efficient solution pairs of time-cost transportation problem. (French and Russian summaries) (Not in MR)
- Adler, Ilan (with Cosares, S.) Advantageous properties of dual transshipment polyhedra. 91c:90072
- Averbakh, I. L. Saddle points of the Lagrange function of an m -dimensional knapsack problem. 91h:90130
- Balakrishnan, Nagraj Modified Vogel's approximation method for the unbalanced transportation problem. (Not in MR)
- Bandopadhyaya, L. (with Bhatia, H. L.) The "three axial sums" problem with capacity restrictions. 91c:90062
- Bhatia, H. L. *see* Bandopadhyaya, L., 91c:90062

- Cheng, M. C. A new algorithm for transportation problem. 91i:90037
- Cesares, S. *see* Adler, Ilan, 91c:90072
- Dangalchev, Ch. A. Partially-linear problems obtained by absolute value functions. 91k:90106
- Durhout, B. Assignment and shortest path problems. 91f:90084
- Dubov, Yu. A. (with Shmul'yan, B. L.; Levina, T. V.) A generalized model of competing possibilities. (Not in MR)
- Filipp, János A finite cutting plane method for facial disjunctive programs. (German summary) 91m:90106
- George, John A. *see* Intrator, Jacob, 91k:90108
- Goemans, Michel X. Valid inequalities and separation for mixed 0-1 constraints with variable upper bounds. 91b:90131
- González, Jaime Sparse dual transportation polyhedra: extreme points and signatures. 91k:90107
- Holmberg, Kaj On the convergence of cross decomposition. 91a:90063
- Intrator, Jacob (with George, John A.) A dual method for the transportation problem using shortest path updates. 91k:90108
- Juška, Faustas *see* Tiesis, Vytautas; et al., 91k:90112
- Konno, Hiroshi *see* Kuno, Takahito; et al., 91m:90107
- Kravtsov, M. K. Polyhedral aspects of transportation problems. (Russian) 91g:90102
- A conjecture on the maximum diameter for a polyhedron of a transportation problem with limited throughput. (Russian. English summary) 91g:90103
- Kuno, Takahito (with Konno, Hiroshi; Zemel, Eitan) A linear-time algorithm for solving continuous maximin knapsack problems. 91m:90107
- Levina, T. V. *see* Dubov, Yu. A.; et al., (Not in MR)
- Lin, Guo Ning (with Lin, Yi Xun) A strong polynomial algorithm for the transshipment problem—a graphical method of primal-dual type. (Chinese. English summary) 91e:90064
- Lin, Yi Xun *see* Lin, Guo Ning, 91e:90064
- Meijer, A. R. A tree among the stepping stones. (Not in MR)
- Pilipchuk, L. A. A method for solving a nonhomogeneous transportation network problem with additional interval constraints. (Russian) 91a:90112
- Romero, David Easy transportation-like problems on K -dimensional arrays. 91k:90109
- Roos, C. An exponential example for Terlaky's pivoting rule for the criss-cross simplex method. 91k:90110
- Šaltenis, Vydytnas *see* Tiesis, Vytautas; et al., 91k:90112
- Shmul'yan, B. L. *see* Dubov, Yu. A.; et al., (Not in MR)
- Solomon, D. I. Mathematical models for routing trucks. (Russian) (Not in MR)
- Tardella, Fabio On the equivalence between some discrete and continuous optimization problems. 91k:90111
- Thompson, Gerald L. A Lagrangian transportation problem relaxation method for solving problem A of L. V. Kantorovich. 91f:90038
- Tiesis, Vytautas (with Šaltenis, Vydytnas; Juška, Faustas) A study of algorithms for assigning of consumers to groups. (Russian. English and Lithuanian summaries) 91k:90112
- Ugowski, Henryk Remarks on the ascent algorithm for the linear minimax problem. 91j:90051
- Vladimirov, Yu. N. Problems of the optimal displacement of a mass on a plane and Lipschitz functions connected with them. (Russian) 91j:90052
- Zemel, Eitan *see* Kuno, Takahito; et al., 91m:90107
- Zhang, Huan Zhen An optimal solution algorithm for a class of sequencing problems. (Chinese) (Not in MR)
- Zhou, Hui La An algorithm for optimal assignments. (Chinese) 91f:90085
- Items with secondary classifications in 90C08
- Averbakh, I. L. (with Tsurkov, V. I.) Integer optimization models of block type. (Russian. English summary) 91d:90064
- Bell, Michael G. H. The estimation of origin-destination matrices by constrained generalised least squares. (Not in MR)
- Bianco, L. (with La Bella, Agostino) Social preference and political issues in transportation planning: an analytical approach. (Not in MR)
- Blumenfeld, Dennis E. (with Burns, Lawrence D.; Daganzo, Carlos F.) Synchronizing production and transportation schedules. (Not in MR)
- Bookhold, Ines A contribution to quadratic assignment problems. 91m:90137
- Burns, Lawrence D. *see* Blumenfeld, Dennis E.; et al., (Not in MR)
- Chandra, Suresh (with Dixon, L. C. W.) Benders' decomposition for the constrained l_1 -problem. 91m:90151
- Daganzo, Carlos F. *see* Blumenfeld, Dennis E.; et al., (Not in MR)
- Das, Chakradhar (with Patel, D. K.) The signature method for some classes of transportation problem. 91k:90056
- Dixon, L. C. W. *see* Chandra, Suresh, 91m:90151
- Dudziński, Krzysztof On a special type linear programming knapsack problem. 91m:90114
- Gabow, Harold N. (with Tarjan, Robert Endre) Faster scaling algorithms for network problems. 91d:68042
- Golovnya, S. G. *see* Istomlin, L. A., (91c:90001)
- Guo, Yao Huang A new algorithm for scheduling urban vehicle routing. (Chinese. English summary) (Not in MR)
- Istomlin, L. A. (with Golovnya, S. G.) Determining the rational structure of the interchangeability of goods in production-transportation problems. (Russian) (see 91c:90001)
- Iu, Siu-Leong *see* Zenios, Stavros A., 91b:90129
- Ivancic, Nancy (with Mathur, Kamlesh; Mohanty, Bidhu B.) An integer programming based heuristic approach to the three-dimensional packing problem. 91k:90122
- La Bella, Agostino *see* Bianco, L., (Not in MR)
- Martinelli, Giuseppe (with Prina Ricotti, L.; Ragazzini, S.; Mascioli, F. M.) A pyramidal delayed perceptron. 91m:92007
- Mascioli, F. M. *see* Martinelli, Giuseppe; et al., 91m:92007
- Mathur, Kamlesh *see* Ivancic, Nancy; et al., 91k:90122
- Mohanty, Bidhu B. *see* Ivancic, Nancy; et al., 91k:90122
- Pak, V. E. On an asymptotic optimization problem in a class of finite suspensions. (Russian. English and Ukrainian summaries) (Not in MR)

- Patel, D. K. *see* Das, Chakradhar, 91k:90056
- Prina Ricotti, L. *see* Martinelli, Giuseppe; et al., 91m:92007
- Ragazzini, S. *see* Martinelli, Giuseppe; et al., 91m:92007
- Shenoy, G. V. * Linear programming. 91k:90002
- Song, Tian Tai (with Zhou, Li) A new algorithm for the quasi-assignment problem. 91k:90090
- Tarjan, Robert Endre *see* Gabow, Harold N., 91d:68042
- Tsurkov, V. I. *see* Averbakh, I. L., 91d:90064
- Zenios, Stavros A. (with Iu, Siu-Leong) Vector and parallel computing for matrix balancing. 91b:90129
- Zhou, Li *see* Song, Tian Tai, 91k:90090

90C09 Boolean programming

- Abdulla, Mukhibulla *see* Isachenko, A. N., 91b:90135
- Adams, Warren P. *see* Sherali, Hanif D., 91k:90116
- Antamoshkin, A. N. (with Saraev, V. N.; Semënkina, E. S.) Optimization of unimodal monotone pseudo-Boolean functions. 91m:90108
- Averbakh, I. L. An algorithm for solving an m -dimensional knapsack problem with random coefficients. (Russian) 91k:90113
- Bagchi, Ansuman *see* Kalantari, Bahman, 91i:90039
- Boros, Endre (with Prékopa, András) Probabilistic bounds and algorithms for the maximum satisfiability problem. 91b:90132
- (with Crama, Yves; Hammer, Peter L.) Upper-bounds for quadratic 0-1 maximization. 91e:90065
- Boydzhiev, Dolchin T. An algorithm for a special case of Boolean linear optimization problems. (Not in MR)
- Cox, Louis Anthony, Jr. (with Qiu, Yiping; Kuehner, Warren) Heuristic least-cost computation of discrete classification functions with uncertain argument values. 91a:90113
- Crama, Yves (with Hansen, Pierre; Jaumard, Brigitte) The basic algorithm for pseudo-Boolean programming revisited. 91k:90114
- (with Hammer, Peter L.; Ibaraki, Toshhide) Packing, covering and partitioning problems with strongly unimodular constraint matrices. 91g:90104
- *see also* Boros, Endre; et al., 91e:90065
- Feirag, Bruce R. Some properties of matrices from certain binary mathematical programming problems. 91b:90066
- Gen, Mitsuo (with Ida, Kenichi; Lee, Jae-Uk) A computational algorithm for solving 0-1 goal programming with GUB structures and its application for optimization problems in system reliability. (Not in MR)
- Hammer, Peter L. (with Kalantari, Bahman) A bound on the roof-duality gap. 91b:90133
- (with Simeone, Bruno) Quadratic functions of binary variables. 91b:90134
- *see also* Boros, Endre; et al., 91e:90065 and Crama, Yves; et al., 91g:90104
- Hansen, Pierre (with Lu, Shi Hui; Simeone, Bruno) On the equivalence of paved-duality and standard linearization in nonlinear 0-1 optimization. 91m:90109
- *see also* Crama, Yves; et al., 91k:90114
- Ibaraki, Toshhide *see* Crama, Yves; et al., 91g:90104
- Ida, Kenichi *see* Gen, Mitsuo; et al., (Not in MR)
- Isachenko, A. N. On the structure of the quadratic Boolean problem polytope. 91m:90110
- (with Abdulla, Mukhibulla) Facets of a polyhedron of a problem of quadratic Boolean programming. (Russian) 91b:90135
- Jaumard, Brigitte *see* Crama, Yves; et al., 91k:90114
- Johnson, Ellis L. On binary group problems having the Fulkerson property. 91f:90086
- Kalantari, Bahman (with Bagchi, Ansuman) An algorithm for quadratic zero-one programs. 91i:90039
- *see also* Hammer, Peter L., 91b:90133
- Körner, Frank On duality for Boolean programming. 91d:90063
- Kovalev, M. Ya. (with Sot'skov, Yu. N.) Stability of ϵ -approximate solutions of Boolean problems of minimizing a linear form. (Russian. English summary) 91b:90067
- Kuehner, Warren *see* Cox, Louis Anthony, Jr.; et al., 91a:90113
- Lee, Jae-Uk *see* Gen, Mitsuo; et al., (Not in MR)
- Lozovanu, D. D. Correlation between concave and Boolean programming and bilinear programming. (Russian) (Not in MR)
- Lu, Shi Hui *see* Hansen, Pierre; et al., 91m:90109
- Makhmudov, R. A. An algorithm for the set partition problem. (Russian. English and Azerbaijani summaries) (Not in MR)
- Mamer, John W. (with Schilling, Kenneth E.) On the growth of random knapsacks. 91k:90115
- Martinec, Ivan A stochastic algorithm for zero-one programming with linear objective function. (Czech. English summary) (Not in MR)
- Prékopa, András *see* Boros, Endre, 91b:90132
- Qiu, Yiping *see* Cox, Louis Anthony, Jr.; et al., 91a:90113
- Saraev, V. N. *see* Antamoshkin, A. N.; et al., 91m:90108
- Schilling, Kenneth E. The growth of m -constraint random knapsacks. 91e:90066
- *see also* Mamer, John W., 91k:90115
- Semënkina, E. S. *see* Antamoshkin, A. N.; et al., 91m:90108
- Sherali, Hanif D. (with Adams, Warren P.) A hierarchy of relaxations between the continuous and convex hull representations for zero-one programming problems. 91k:90116
- Sher, N. Z. Dual quadratic estimates in polynomial and Boolean programming. 91m:90111
- Simeone, Bruno *see* Hammer, Peter L., 91b:90134 and Hansen, Pierre; et al., 91m:90109
- Sot'skov, Yu. N. *see* Kovalev, M. Ya., 91b:90067
- Wolsey, Laurence A. Valid inequalities for 0-1 knapsacks and mips with generalised upper bound constraints. 91i:90040
- Items with secondary classifications in 90C09
- Adams, Warren P. (with Sherali, Hanif D.) Linearization strategies for a class of zero-one mixed integer programming problems. 91a:90122
- Antamoshkin, A. N. * Оптимизация функционалов с булевыми переменными. (Russian) [Optimization of functionals with Boolean variables] 91b:90002

- ★ Регулярная оптимизация псевдобулевых функций. (Russian) [Regular optimization of pseudo-Boolean functions] 91m:90001
- Averbakh, I. L. Saddle points of the Lagrange function of an m -dimensional knapsack problem. 91b:90130
- Balasubramanian, K. N. see Panneerselvam, R.; et al., 91b:90111
- Bein, W. (with Brucker, Peter) An $O(n \log n)$ -algorithm for solving a special class of linear programs. (German summary) 91a:90102
- Brucker, Peter see Bein, W., 91a:90102
- Fox, G. Edward (with Nachtsheim, Christopher J.) An analysis of six greedy selection rules on a class of zero-one integer programming models. 91b:90140
- Freiman, Gregory Subset-sum problem with different summands. 91b:11023
- Goemans, Michel X. Valid inequalities and separation for mixed 0-1 constraints with variable upper bounds. 91b:90131
- Hallefjord, Åsa (with Storøy, Sverre) Aggregation and disaggregation in integer programming problems. 91d:90067
- Hansen, Pierre (with Jaumard, Brigitte) Algorithms for the maximum satisfiability problem. (German summary) (Not in MR)
- Jajou, Amer F. (with Zimmermann, Karel) Max-separable equations and the set covering. (Russian and Czech summaries) 91a:90117
- Jaumard, Brigitte see Hansen, Pierre, (Not in MR)
- Kuzurya, N. N. Asymptotically exact polynomial algorithms in problems of integer linear programming. 91a:90118
- Mashford, J. S. A method for the solution of fixed charge problems by Benders' decomposition. 91k:90129
- Nachtsheim, Christopher J. see Fox, G. Edward, 91b:90140
- Panneerselvam, R. (with Balasubramanian, K. N.; Thiagarajan, M. T.) Models for warehouse location problem. 91b:90111
- Popenjia, Fl. A survey of recent knapsack cryptosystems. (Romanian summary) 91d:90414
- Rao, M. R. see Sterbin Gottlieb, Elsie, 91b:90162
- (Rastrigin, L. A.) see Antamoshkin, A. N., 91b:90002
- Sherali, Hanif D. see Adams, Warren P., 91a:90122
- Sommerschuh, J. On the surrogate constraint and the core of a linear mixed-integer 0-1 program with few constraints. 91b:90145
- Sterbin Gottlieb, Elsie (with Rao, M. R.) The generalized assignment problem: valid inequalities and facets. 91b:90162
- Facet defining inequalities for the dichotomous knapsack problem. 91c:90075
- Storøy, Sverre see Hallefjord, Åsa, 91d:90067
- Tardella, Fabio On the equivalence between some discrete and continuous optimization problems. 91b:90111
- Thiagarajan, M. T. see Panneerselvam, R.; et al., 91b:90111
- Zimmermann, Karel see Jajou, Amer F., 91a:90117
- ### 90C10 Integer programming
- Aboudi, Ronny (with Jörnsten, Kurt) Resource constrained assignment problems. 91k:90117
- Ageev, A. A. A transformation of the problem of maximizing a concave separable function on a polymatroid intersection. (Russian) 91f:90087
- Alliev, A. A. An algorithm for the approximate solution of the multidimensional knapsack problem. (Russian) (see 91m:00015)
- Averbakh, I. L. Combined decomposition in block problems of integer linear programming. 91g:90105
- (with Turkov, V. I.) Integer optimization models of block type. (Russian. English summary) 91d:90064
- Babaei, Dzh. A. (with Veliev, G. P.; Mamedov, K. Sh.; Yusifov, M. M.) Solution of two types of knapsack problem. 91m:90112
- Bakshi, H. C. see Verma, Vanita; et al., 91b:90076
- Ball, Michael O. (with Derigs, Ulrich; Hilbrand, C.; Metz, Achim) Matching problems with generalized upper bound side constraints. 91b:90068
- Bank, Bernd (with Heintz, Joos; Krick, Teresa; Mandel, Reinhard; Solernó, Pablo) Une borne géométrique pour la programmation entière à contraintes polynomiales. (English summary) [A geometrical bound for integer programming with polynomial constraints] 91b:90136
- Barceló, Jaime (with Fernández, Eduardo) 0-1 knapsack problems with a side constraint. (Spanish) 91f:90088
- Barcia, Paulo (with Jörnsten, Kurt) Improved Lagrangean decomposition: an application to the generalized assignment problem. 91a:90114
- Bartholdi, John J., III see Platzman, Loren K., 91k:90124
- Beasley, J. E. A Lagrangian heuristic for set-covering problems. 91a:90115
- Benson, Harold P. (with Erenguc, S. Selcuk) An algorithm for concave integer minimization over a polyhedron. 91k:90118
- Biró, Miklós Characterization of the binary decompositions of bounded integer variables. (Hungarian. English summary) 91k:90119
- Brylawski, Thomas Greedy families for linear objective functions. 91m:90113
- Burkard, Rainer E. Special cases of travelling salesman problems and heuristics. 91b:90069
- Camerini, P. M. (with Maffioli, F.; Vercellis, C.) Multi-constrained matroidal knapsack problems. 91b:90137
- Cechláková, Katarína (with Szabó, Peter) On the Monge property of matrices. 91d:90041
- Chalmovich, Mark Solving a value-independent knapsack problem with the use of methods of additive number theory. 91b:90138
- Chandrasekaran, R. see Kahadi, Santosh N., 91c:90074
- Cheng, Chun Hung see Kusiak, Andrew, (Not in MR)
- Chernykh, A. K. see Kokunin, Yu. V., (91c:90013)
- Chopra, Sumit (with Rao, M. R.) On the multiway cut polyhedron. 91k:90120
- Cook, William J. Cutting-plane proofs in polynomial space. 91f:90089
- Derigs, Ulrich see Ball, Michael O.; et al., 91b:90068
- Dietrich, Brenda L. Monge sequences, antimatroids, and the transportation problem with forbidden arcs. 91b:90078
- (with Escudero, L. F.) Coefficient reduction for knapsack-like constraints in 0-1 programs with variable upper bounds. 91d:90065
- Do Zui Chin' see Koval'ev, M. M., 91j:90053
- Dror, Moshe Cost allocation: the traveling salesman, binpacking, and the knapsack. (French summary) 91d:90066
- Dudziński, Krzysztof Methods for solving selected generalizations of the knapsack problem. 91f:90090
- On a special type linear programming knapsack problem. 91m:90114
- Dyer, Martin E. (with Frieze, A. M.) On an optimization problem with nested constraints. 91b:90139
- Emelichev, V. A. (with Koval'ev, M. M.; Ramazanov, A. B.) The error of gradient extrema of the strongly convex function of a discrete argument. (Russian) 91b:90071
- Erenguc, S. Selcuk see Benson, Harold P., 91b:90118
- Escudero, L. F. see Dietrich, Brenda L., 91d:90065
- Eswaran, P. K. (with Ravindran, A.; Moskowitz, Herbert) Algorithms for nonlinear integer bicriterion problems. 91a:90116
- Falgout, Ulrich (with Turán, György) Static on-line decomposition of series-parallel and interval orders. 91g:90106
- Fang, Za Yao The greedy structure for linear objective functions. (Chinese. English summary) 91b:90072
- Fernández, Eduardo see Barceló, Jaime, 91f:90088
- Fisher, Marshall L. (with Kedia, Pradeep) Optimal solution of set covering/partitioning problems using dual heuristics. 91c:90073
- Fox, G. Edward (with Nachtsheim, Christopher J.) An analysis of six greedy selection rules on a class of zero-one integer programming models. 91b:90140
- Frieze, A. M. see Dyer, Martin E., 91b:90139
- Fülöp, János (with Jaumard, Brigitte) ★ On transforming the satisfiability and maximum satisfiability problems into set covering problems. (Not in MR)
- Gavish, Bezalel (with Glover, Fred; Pirkul, Hasan) Surrogate constraints in integer programming. (Not in MR)
- Glebov, M. V. (with Veniaminov, S. S.) On extension of the domain of applicability of the dominance principle. 91b:90141
- Glover, Fred see Gavish, Bezalel; et al., (Not in MR)
- Goddyn, Luis A. Quantizers and the worst-case Euclidean traveling salesman problem. 91f:90091
- Gorbachevskaya, L. E. Approximate solutions of a nonlinear location problem. (Russian) (Not in MR)
- Granot, Frieda (with Skorin-Kapov, Jadranka) Some proximity and sensitivity results in quadratic integer programming. 91c:90067
- Grötschel, Martin (with Wakabayashi, Y.) Facets of the clique partitioning polytope. 91f:90091
- (with Monma, Clyde L.) Integer polyhedra arising from certain network design problems with connectivity constraints. 91m:90115
- Guignard, Monique (with Rosenwein, Moshe B.) An application of Lagrangean decomposition to the resource-constrained minimum weighted arborescence problem. 91b:90142
- Gyál, Henryk (with Jiménez, Raúl; Quirós, Adolfo J.) The physicist's approach to the travelling salesman problem. II. 91g:90107
- Hallefjord, Åsa (with Storøy, Sverre) Aggregation and disaggregation in integer programming problems. 91d:90067
- Heintz, Joos see Bank, Bernd; et al., 91b:90136
- Hempel, L. (with Herrmann, Uwe; Hölzer, W.; Wetzel, R.) A necessary and sufficient condition for the total unimodularity of a matrix in terms of graph theory. 91g:90108
- Henig, Mordechai I. Risk criteria in a stochastic knapsack problem. (Not in MR)
- Herrmann, Uwe see Hempel, L.; et al., 91g:90108
- Hilbrand, C. see Ball, Michael O.; et al., 91b:90068
- Hillier, Frederick S. see Saltzman, Robert M., 91k:90127
- Hirche, Joachim (with Pholsena, Khamlien) Lösung einer Klasse ganzzahliger Optimierungsprobleme mit zusammengesetzten Zielfunktionen. [Solution of a class of integer optimization problems with complex objective functions] (Not in MR)
- Hilster, W. see Hempel, L.; et al., 91g:90108
- Hung, Ming S. (with Rom, Walter O.) An application of the Hermite normal form in integer programming. 91m:90116
- Ivanic, Nancy (with Mathur, Kamlesh; Mohanty, Bidhu B.) An integer programming based heuristic approach to the three-dimensional packing problem. 91k:90122
- Jajou, Amer F. (with Zimmermann, Karel) Max-separable equations and the set covering. (Russian and Czech summaries) 91a:90117
- Jaumard, Brigitte see Fülöp, János, (Not in MR)
- Jenkins, Larry Parametric methods in integer linear programming. 91m:90117
- Jeromin, Bernd Untersuchungen zu einer Dualisierung des Rundreiseproblems. [Investigations on a dualization of the traveling salesman problem] 91f:90092
- Jiménez, Raúl see Gyál, Henryk; et al., 91g:90107
- Jonker, R. (with Volgenant, A.) Teaching linear assignment by Mack's algorithm. (see 91a:90002)
- Jörnsten, Kurt see Barcia, Paulo, 91a:90114 and Aboudi, Ronny, 91k:90117
- Kabadi, Santosh N. (with Chandrasekaran, R.) On totally dual integral systems. 91c:90074
- Kabe, D. G. On solving linear zero integer programming problems of hypothesis testing theory. 91g:90109
- Karwan, Mark H. see Ramesh, R.; et al., 91g:90111 and Palekar, Udaya S.; et al., (Not in MR)
- Kedia, Pradeep see Fisher, Marshall L., 91c:90073
- Klastorin, T. D. On a discrete nonlinear and nonseparable knapsack problem. 91g:90110
- Kokunin, Yu. V. (with Chernykh, A. K.) A method for solving an integer programming problem. (Russian) (see 91c:90013)
- Korsemov, Chavdar D. see Sgurev, Vasil S.; et al., 91a:90121
- de Kort, J. B. J. M. Lower bounds for symmetric K -peripatetic salesman problems. 91m:90118
- Koval'ev, M. M. (with Moshchenskii, A. V.) An optimal search for extrema of convex functions on lattices. (Russian) 91h:90073
- (with Do Zui Chin') A problem of parametric convex discrete optimization. (Russian) 91j:90053
- see also Emelichev, V. A.; et al., 91b:90071
- Krick, Teresa see Bank, Bernd; et al., 91b:90136

- Kusiak, Andrew (with Cheng, Chun Hung) A branch-and-bound algorithm for solving the group technology problem. (Not in MR)
- Kuzurin, N. N. Asymptotically exact polynomial algorithms in problems of integer linear programming. 91a:90118
- Ladinskas, Kęstutis Successive reduction of a feasible domain for a class of problems of discrete optimization. (Russian. English and Lithuanian summaries) 91k:90123
- Lacena, Abilio Time-dependent traveling salesman problem—the deliveryman case. 91f:90093
- Maffioli, F. see Camerini, P. M.; et al., 91b:90137
- Mamedov, K. Sh. see Babaev, Dzh. A.; et al., 91m:90112
- Mandel, Reinhard see Bank, Bernd; et al., 91b:90136
- Mareš'yanin, V. A. (with Savell'ev, V. P.) An integer problem for optimizing production rhythm. (Russian) (Not in MR)
- Mathur, Kamlesh see Ivancic, Nancy; et al., 91k:90122
- McKeown, Patrick G. see Ragsdale, Cliff T., 91b:90074
- Meanti, M. (with Rinnooy Kan, Alexander H. G.; Stougie, L.; Vercellis, C.) A probabilistic analysis of the multiknapsack value function. 91c:90068
- Meiko, Ivan Discrete piecewise linear f_1 approximation. 91m:90119
- Metz, Achim see Ball, Michael O.; et al., 91b:90068
- Möbius, Arnulf (with Richter, M.) Restricted branch-and-bound algorithm for combinatorial optimization: travelling salesman revisited. (see 91k:92005)
- Mohanty, Bidhu B. see Ivancic, Nancy; et al., 91k:90122
- Monma, Clyde L. see Grötschel, Martin, 91m:90115
- Moshchenskii, A. V. see Koval'ev, M. M., 91b:90073
- Moskowitz, Herbert see Eswaran, P. K.; et al., 91a:90116
- Mühlenbein, Heinz Parallel genetic algorithms, population genetics and combinatorial optimization. (see 91k:92005)
- Murav'ev, S. V. Two methods for ordering covering elements for solving the set-covering problem. 91a:90119
- Nachtsheim, Christopher J. see Fox, G. Edward, 91b:90140
- Nakagawa, Yuji A new method for discrete optimization problems. (Not in MR)
- Palekar, Udaya S. (with Karwan, Mark H.; Zionts, Stanley) A branch-and-bound method for the fixed charge transportation problem. (Not in MR)
- Pholsena, Khamlien see Hirsch, Joachim, (Not in MR)
- Pirkul, Hasan see Gavish, Bezaleh; et al., (Not in MR)
- Platzman, Loren K. (with Bartholdi, John J., III) Spacefilling curves and the planar travelling salesman problem. 91k:90124
- Puri, M. C. see Verma, Vanita; et al., 91b:90076
- Quiroz, Adolfo J. see Gyl, Henryk; et al., 91g:90107
- Ragsdale, Cliff T. (with McKeown, Patrick G.) An algorithm for solving fixed-charge problems using surrogate constraints. 91b:90074
- Ramazanov, A. B. see Emelichev, V. A.; et al., 91b:90071
- Ramessh, R. (with Karwan, Mark H.; Zionts, Stanley) An interactive method for bicriteria integer programming. 91g:90111
- Rao, M. R. see Chopra, Sunil, 91k:90120
- Ravindran, A. see Eswaran, P. K.; et al., 91a:90116
- Richter, M. see Möbius, Arnulf, (91k:92005)
- Rinnooy Kan, Alexander H. G. see Meanti, M.; et al., 91c:90068
- Rom, Walter O. see Hung, Ming S., 91m:90116
- Rosenwein, Moshe B. see Guignard, Monique, 91b:90142
- Roshchin, V. A. (with Semenova, N. V.; Sergienko, I. V.) A decomposition approach to the solution of some integer programming problems with inexact data. (Russian) 91h:90075
- Rubinskii, G. B. Integer minimization of fractional-separable functions. (Russian) 91k:90125
- Rubinshtein, M. I. ★ ОПТИМАЛЬНАЯ ГРУППИРОВКА ВЗАИМОСВЯЗАННЫХ ОБЪЕКТОВ. (Russian) [Optimal grouping of interconnected objects] 91a:90120
- Ryan, Jennifer The structure of an integral monoid and integer programming feasibility. 91j:90054
- Rycerz, Anna Operations that preserve the integer rounding property of linear inequality systems. 91k:90126
- Saltzman, Robert M. (with Hillier, Frederick S.) An exact ceiling point algorithm for general integer linear programming. 91k:90127
- Savell'ev, V. P. see Mareš'yanin, V. A., (Not in MR)
- Schwarzer, Michael Charakterisierung einer Klasse von Schnitten an lokalen Kegeln. (English and Russian summaries) [Characterization of a class of cuts on local cones] 91m:90120
- On the reduction of elementary divisors of local cones—an aggregation-type approach. 91g:90112
- Semenova, N. V. see Roshchin, V. A.; et al., 91h:90075
- Sergienko, I. V. see Roshchin, V. A.; et al., 91h:90075
- Sgurev, Vasil S. (with Vasil'ev, Vasil S.; Korsemov, Chavdar D.) An approximate algorithm for solving integer programming problems. (Bulgarian. English and Russian summaries) 91a:90121
- Shlyk, V. A. A search for generating cones of subadditive functions. (Russian. English summary) 91b:90042
- Skorin-Kapov, Jadranka see Granot, Frieda, 91c:90067
- Solernó, Pablo see Bank, Bernd; et al., 91b:90136
- Sterbin Gottlieb, Elsie Facet defining inequalities for the dichotomous knapsack problem. 91c:90075
- Storey, Sverre see Hallefjord, Åsa, 91d:90067
- Stougie, L. see Meanti, M.; et al., 91c:90068
- Szabó, Peter² see Čechlářová, Katarína, 91i:90041
- Tadislina, Suresh K. see Trout, Marvin D., (Not in MR)
- Trout, Marvin D. (with Tadislina, Suresh K.) A mixed integer programming approach for accommodating outliers with the minimum absolute error criterion. (Not in MR)
- Tourkov, V. I. see Averkhin, I. L., 91d:90064
- Turán, György see Faigle, Ulrich, 91g:90106
- Unguryanu, M. M. A search for Pareto-optimal estimates in an integer problem of bicriterial linear optimization. (Russian) 91c:90076
- Vasil'ev, Vasil S. see Sgurev, Vasil S.; et al., 91a:90121
- Veller, G. P. see Babaev, Dzh. A.; et al., 91m:90112
- Veniaminov, S. S. see Glebov, M. V., 91b:90141
- Vercellis, C. see Camerini, P. M.; et al., 91b:90137 and Meanti, M.; et al., 91c:90068
- Verma, Vanita (with Bakhshi, H. C.; Puri, M. C.) Ranking in integer linear fractional programming problems. (German summary) 91h:90076
- Volgenant, A. Partial contraction in Christofides' lower bound for the traveling salesman problem. 91f:90094
- see also Jonker, R., (91a:90002)
- Wakabayashi, Y. see Grötschel, Martin, 91f:90091
- Wetzel, R. see Hempel, L.; et al., 91g:90108
- Wilson, John Montgomery Compact normal forms in propositional logic and integer programming formulations. 91b:90143
- Generating cuts in integer programming with families of special ordered sets. 91c:90069
- Xu, Jie Feng A study on the traveling salesman problem in operations research. (Chinese. English summary) (Not in MR)
- Yusifov, M. M. see Babaev, Dzh. A.; et al., 91m:90112
- Zahedi, Fatemeh A knowledge base for integer programming—a meta-OR approach. (see 91b:90014)
- Zalgaller, V. A. Dynamical programming in an aggregation problem. (Russian) 91d:90068
- Zambitskii, D. K. The parametric Steiner problem for discrete median metric spaces and its application. (Russian) 91f:90095
- Zemel, Eitan Easily computable facets of the knapsack polytope. 91g:90113
- Zimmermann, Karel see Jajou, Amer F., 91a:90117
- Zionts, Stanley see Ramesh, R.; et al., 91g:90111 and Palekar, Udaya S.; et al., (Not in MR)

Items with secondary classifications in 90C10

- Ageev, A. A. Graphs, matrices and an elementary location problem. (Russian) (Not in MR)
- Akhlebinasikii, M. Yu. (with Konstantinov, M. S.) Choice of strategy for servicing of objects in a certain parametric problem of M travelling salesmen. (Not in MR)
- Assad, Arjang A. see Kelly, James P.; et al., 91b:68079
- Balinski, M. L. (with Demange, G.) An axiomatic approach to proportionality between matrices. 91b:15005
- Barceló, Jaime (with Hallefjord, Åsa; Fernández, Eduardo; Jörnsten, Kurt) Lagrangean relaxation and constraint generation procedures for capacitated plant location problems with single sourcing. (German summary) 91c:90064
- Berge, Claude Optimisation and hypergraph theory. (Not in MR)
- Bogetoft, Peter (with Tind, Jørgen) Dual decomposition schemes for multicriteria decision making. 91j:90045
- Bookhold, Ines A contribution to quadratic assignment problems. 91m:90137
- Bovet, J. (with Constantin, C.; de Werra, Dominique) A convoy scheduling problem. 91k:90062
- Branco, I. M. (with Coelho, J. D.) The Hamiltonian p -median problem. 91h:90055
- Chakrabarti, P. P. see Sarkar, U. K.; et al., 91m:68027
- Claassen, Michael (with Fortenbacher, Albrecht) Efficient solution of linear Diophantine equations [MR 90i:11151]. (see 91j:68006)
- Coelho, J. D. see Branco, I. M., 91h:90055
- Constantin, C. see Bovet, J.; et al., 91k:90062
- Calrik, J. An on-line algorithm for variable-sized bin packing. 91a:68110
- Demange, G. see Balinski, M. L., 91b:15005
- De Sarkar, S. C. see Sarkar, U. K.; et al., 91m:68027
- Dress, Andreas W. M. (with Wenzel, Walter) Matroidizing set systems: a new approach to matroid theory. 91f:5033
- (with Wenzel, Walter) Valuated matroids: a new look at the greedy algorithm. 91f:5034
- Dyer, Martin E. (with Wolsey, Laurence A.) Formulating the single machine sequencing problem with release dates as a mixed integer program. 91g:90079
- El-Darzi, Ella (with Mitra, Gautam) A tree search approach based on an assignment relaxation for the solution of set covering problems. 91g:90092
- Erkut, Erhan The discrete p -dispersion problem. 91c:90056
- Fernández, Eduardo see Barceló, Jaime; et al., 91c:90064
- Fisk, C. S. Traffic assignment and the lane choice problem. 91h:90036
- Fortenbacher, Albrecht see Claassen, Michael, (91j:68006)
- Gaubert, Stéphane An algebraic method for optimizing resources in timed event graphs. 91f:90069
- Ge, Ren Pu (with Huang, Chang Bin) A continuous approach to nonlinear integer programming. 91c:90097
- Ghose, S. see Sarkar, U. K.; et al., 91m:68027
- Gimadi, É. Kh. The traveling salesman problem on a maximum: conditions for the asymptotic accuracy of the algorithm "go to the most remote city". (Russian) (Not in MR)
- Golden, Bruce L. see Kelly, James P.; et al., 91b:68079
- González, Jaime Sparse dual transportation polyhedra: extreme points and signatures. 91k:90107
- Granot, Frieda (with Skorin-Kapov, Jadranka) On simultaneous approximation in quadratic integer programming. 91b:90149
- Grötschel, Martin (with Monma, Clyde L.) Integer polyhedra arising from certain network design problems with connectivity constraints. 91m:90115
- Gupta, Surinder Kumar (with Punnen, A. P.) k -sum optimization problems. 91d:90077
- Hallefjord, Åsa see Barceló, Jaime; et al., 91c:90064
- He, Xia (with Yesha, Yaacov) Efficient parallel algorithms for r -dominating set and p -center problems on trees. 91a:68129
- Huang, Chang Bin see Ge, Ren Pu, 91c:90097
- Jeromin, Bernd (with Körner, Frank) A note on dual solutions of the assignment problem in connection with the traveling salesman problem. 91a:90069
- Jones, Peter Wilcox Rectifiable sets and the traveling salesman problem. 91k:26016
- Jonsson, Örjan (with Larsson, Torbjörn; Värbrand, Peter) A Lagrangean relaxation scheme for a scheduling problem. 91m:90085
- Jörnsten, Kurt see Barceló, Jaime; et al., 91c:90064
- Kelly, James P. (with Assad, Arjang A.; Golden, Bruce L.) The controlled rounding problem: relaxations and complexity issues. (German summary) 91h:68079
- Khachaturov, V. R. ★ МАТЕМАТИЧЕСКИЕ МЕТОДЫ РЕГИОНАЛЬНОГО ПРОГРАММИРОВАНИЯ. (Russian) [Mathematical methods for regional programming] 91k:90004

- Kindervater, G. A. P. (with Lenstra, Jan Karel; Savelsbergh, M. W. P.) Parallel local search for the time-constrained traveling salesman problem. **91g:90063**
- Konno, Hiroshi. *see* Kuno, Takahito; et al., **91m:90107**
- Konstantinov, M. S. *see* Akhlebina, M. Ya. (Not in MR)
- Körner, Frank. *see* Jeromin, Bernd, **91a:90069**
- Kuno, Takahito (with Konno, Hiroshi; Zemel, Eitan) A linear-time algorithm for solving continuous maximin knapsack problems. **91m:90107**
- Larsson, Torbjörn. *see* Jonasson, Örjan; et al., **91m:90085**
- Leclerc, Matthias (with Rendl, F.) k -best constrained bases of a matroid. (German summary) **91h:05039**
- Lenstra, Jan Karel. *see* Kindervater, G. A. P.; et al., **91g:90063**
- Leung, Janny M. Y. (with Magnanti, Thomas L.; Vachani, Rita) Facets and algorithms for capacitated lot sizing. **91h:90101**
- (with Magnanti, Thomas L.) Valid inequalities and facets of the capacitated plant location problem. **91c:90042**
- Love, Robert F. (with Morris, James G.; Wesolowsky, George O.) ★ Facilities location. **91k:90086**
- Magnanti, Thomas L. (with Vachani, Rita) A strong cutting plane algorithm for production scheduling with changeover costs. **91j:90041**
- *see also* Leung, Janny M. Y.; et al., **91h:90101** and **91c:90042**
- Makishko, N. K. Analysis of the efficiency of a coordinate-wise ascent algorithm for the chain problem. (Russian. English summary) **91j:90064**
- Mitra, Gantam. *see* El-Darzi, Elia, **91g:90092**
- Monma, Clyde L. *see* Grötschel, Martin, **91m:90115**
- Morris, James G. *see* Love, Robert F.; et al., **91k:90086**
- Nobili, P. (with Sassano, A.) Composition operations for clutters and related polyhedra. **91f:52016**
- Ofitserv, D. V. The discrete ψ -transformation method for solving integer programming problems. **91m:90122**
- Papadimitriou, Christos H. (with Yannakakis, Mihalis) On recognizing integer polyhedra. **91f:68071**
- Potters, Jos A. M. A class of traveling salesman games. **91k:90232**
- Punnen, A. P. *see* Gupta, Surinder Kumar, **91h:90077**
- Rendl, F. *see* Leclerc, Matthias, **91h:05039**
- Rodseth, Øystein J. An upper bound for the h -range of the postage stamp problem. **91h:11013**
- Ryan, Jennifer. Fractional total colouring. **91f:05056**
- Sarkar, U. K. (with Chakrabarti, P. P.; Ghose, S.; De Sarkar, S. C.) Multiple stack branch and bound. **91m:68027**
- Sasaki, Galem. The effect of the density of states on the Metropolis algorithm. **91m:68093**
- Sassano, A. *see* Nobili, P., **91f:52016**
- Savelsbergh, M. W. P. An efficient implementation of local search algorithms for constrained routing problems. **91m:90064**
- *see also* Kindervater, G. A. P.; et al., **91g:90063**
- Scheithauer, Gustram. Optimaler Zuschnitt trapezförmiger Teile. [Optimal cutting of trapezoidal pieces] **91f:90050**
- Schwill, Andreas. Nonblocking graphs: greedy algorithms to compute disjoint paths. **91g:68064**
- Shenoy, G. V. ★ Linear programming. **91k:90002**
- Shungarov, Kh. D. On the efficiency of an algorithm for solving a problem of the covering of a graph by stars. (Russian) **91f:05109**
- Simon, Hans-Ulrich. On approximate solutions for combinatorial optimization problems. **91c:68058**
- Skorin-Kapov, Jadranka. *see* Granot, Frieda, **91h:90149**
- Solomon, D. I. A mathematical model for constructing ring routes. (Russian) **91m:90056**
- Sommerschuh, J. Verzweigungsstrategien in Branch and Bound-Algorithmen für gemischt-ganzzahlige lineare 0-1-Optimierungsaufgaben. (English summary) [Branching strategies in branch and bound algorithms for mixed-integer linear 0-1 programming problems] **91h:90144**
- On the surrogate constraint and the core of a linear mixed-integer 0-1 program with few constraints. **91h:90145**
- Tigan, Eugenia. Algorithms to minimize the cost/capacity ratio. (French and Russian summaries) **91m:90181**
- Tind, Jørgen. *see* Bogetoft, Peter, **91j:90045**
- Tseng, S. S. The average performance of a parallel stable marriage algorithm. **91a:68143**
- Vachani, Rita. *see* Leung, Janny M. Y.; et al., **91h:90101** and **91h:90041**
- Värbrand, Peter. *see* Jonasson, Örjan; et al., **91m:90085**
- Vitrák, Béla. ★ An application of an optimal behaviour of the greedy solution in number theory. **91h:11024**
- Warren, Richard H. Classes of matrices for the traveling salesman problem. **91h:15020**
- Wenzel, Walter. *see* Drees, Andreas W. M., **91f:05033** and **91f:05034**
- de Werra, Dominique. *see* Bogetoft, Peter, **91j:90045**
- Wesolowsky, George O. *see* Love, Robert F.; et al., **91k:90086**
- Wolsey, Laurence A. *see* Dyer, Martin E., **91g:90079**
- Yang, Zhong Hua. *see* Zhu, Mei Fang, **91h:90127**
- Yannakakis, Mihalis. *see* Papadimitriou, Christos H., **91f:68071**
- Yosha, Yaacov. *see* He, Xin, **91a:68129**
- Zemel, Eitan. *see* Kuno, Takahito; et al., **91m:90107**
- Zhu, Mei Fang (with Yang, Zhong Hua) The LU decomposition technique for active set methods in linear programming. (Chinese. English summary) **91h:90127**
- 90C11 Mixed integer programming**
- Adams, Warren P. (with Sherali, Hanif D.) Linearization strategies for a class of zero-one mixed integer programming problems. **91a:90122**
- Al-Khayyal, Faiz A. (with Larsen, Christian) Global optimization of a quadratic function subject to a bounded mixed integer constraint set. **91h:90128**
- Austin, Larry M. *see* Lin, Youling; et al., **91c:90078**
- Beisel, E.-P. (with Mendel, M.) Ein kapazitiver Enumerationsalgorithmus für lineare Optimierungsprobleme mit Ganzzahligkeitsbedingungen. (English summary) [A powerful enumeration algorithm for integer linear programming problems] **91m:90121**
- Burns, James R. *see* Lin, Youling; et al., **91c:90078**
- Cook, William J. (with Kannan, Ravindran; Schrijver, Alexander) Chvátal closures for mixed integer programming problems. **91c:90077**
- Guignard, Monique (with Opaswongkarn, Kongkiat) Lagrangean dual ascent algorithms for computing bounds in capacitated plant location problems. **91a:90123**
- Inoue, Koichi. *see* Nishihara, O.; et al., **91k:90130**
- Jeroslow, Robert G. Two mixed integer programming formulations arising in manufacturing management. **91f:90096**
- Kannan, Ravindran. *see* Cook, William J.; et al., **91c:90077**
- Kumamoto, H. *see* Nishihara, O.; et al., **91k:90130**
- Larsen, Christian. *see* Al-Khayyal, Faiz A., **91h:90128**
- Lin, Youling (with Austin, Larry M.; Burns, James R.) An implicit branch-and-bound algorithm for mixed-integer-linear programming. **91c:90078**
- Mashford, J. S. A method for the solution of fixed charge problems by Benders' decomposition. **91k:90129**
- Mata, Fernando. *see* Relly, Charles H., **91g:90115**
- Mendel, M. *see* Beisel, E.-P., **91m:90121**
- Nemhauser, George L. (with Wolsey, Laurence A.) A recursive procedure to generate all cuts for 0-1 mixed integer programs. **91g:90114**
- Nishihara, O. (with Kumamoto, H.; Inoue, Koichi) The new formulations of minimum feedback arc set problem. **91k:90130**
- Ofitserv, D. V. The discrete ψ -transformation method for solving integer programming problems. **91m:90122**
- Opaswongkarn, Kongkiat. *see* Guignard, Monique, **91a:90123**
- Relly, Charles H. (with Mata, Fernando) Calculating solution-value bounds for a geostationary-satellite location problem. **91g:90115**
- Schrijver, Alexander. *see* Cook, William J.; et al., **91c:90077**
- Sherali, Hanif D. *see* Adams, Warren P., **91a:90122**
- Solanki, Rajendra S. Generating the noninferior set in mixed integer biobjective linear programs: an application to a location problem. **91g:90116**
- Sommerschuh, J. Verzweigungsstrategien in Branch and Bound-Algorithmen für gemischt-ganzzahlige lineare 0-1-Optimierungsaufgaben. (English summary) [Branching strategies in branch and bound algorithms for mixed-integer linear 0-1 programming problems] **91h:90144**
- On the surrogate constraint and the core of a linear mixed-integer 0-1 program with few constraints. **91h:90145**
- Torres, Francisco E. Linearization of mixed-integer products. (Not in MR)
- Wolsey, Laurence A. Strong formulations for mixed integer programming: a survey. **91c:90079**
- *see also* Nemhauser, George L., **91g:90114**
- Items with secondary classifications in 90C11**
- Averbakh, I. L. (with Tsurkov, V. I.) Integer optimization models of block type. (Russian. English summary) **91d:90064**
- Chatterjee, A. K. *see* Mustafa, C. K., **91h:90032**
- Flippo, Olaf E. (with Rinnooy Kan, Alexander H. G.) A note on Benders decomposition in mixed-integer quadratic programming. **91c:90074**
- Floudas, Christodoulos A. *see* Georgiou, Apostolos, **91a:93001**
- Georgiou, Apostolos (with Floudas, Christodoulos A.) Structural properties of large scale systems. **91a:93001**
- Goemans, Michel X. Valid inequalities and separation for mixed 0-1 constraints with variable upper bounds. **91h:90131**
- Holmberg, Kaj. On the convergence of cross decomposition. **91c:90063**
- Kolen, A. W. J. Constructing valid inequalities for combinatorial optimization problems. **91c:90090**
- Leiserson, Charles E. (with Saxe, James B.) Retiming synchronous circuitry. **91h:68048**
- Leung, Janny M. Y. (with Magnanti, Thomas L.) Valid inequalities and facets of the capacitated plant location problem. **91c:90042**
- Magnanti, Thomas L. *see* Leung, Janny M. Y., **91c:90042**
- Mustafi, C. K. (with Chatterjee, A. K.) Multi-attribute choice behaviour models—a note on two modifications and extensions. **91h:90032**
- Rinnooy Kan, Alexander H. G. *see* Flippo, Olaf E., **91c:90074**
- Saxe, James B. *see* Leiserson, Charles E., **91h:68048**
- Shetty, Balu. Approximate solutions to large scale capacitated facility location problems. **91k:90089**
- Tsurkov, V. I. *see* Averbakh, I. L., **91d:90064**
- Wolsey, Laurence A. Valid inequalities for 0-1 knapsacks and mips with generalised upper bound constraints. **91h:90040**
- 90C15 Stochastic programming**
- Akulov, A. P. *see* Sakharov, Yu. P., (Not in MR)
- Allende Alonso, Sira. *see* Bouza Herrera, Carlos, **91g:90117** and (Not in MR)
- Betró, Bruno (with Schoen, Fabio) A stochastic technique for global optimization. (Not in MR)
- Bouza Herrera, Carlos (with Allende Alonso, Sira) Density function estimation and the approximation of convergence rates in stochastic linear programming. (Spanish summary) (Not in MR)
- (with Allende Alonso, Sira) Bounding the variance of the approximation error. (Spanish summary) **91g:90117**
- Censor, Yair (with De Pierro, Alvaro R.; Iusem, Alfredo N.) Optimization of Burg's entropy over linear constraints. **91m:90123**
- Chernykh, O. L. *see* Vorozheeva, S. V.; et al., (91i:90004)
- Chernyshova, G. D. *see* Vorozheeva, S. V.; et al., (91i:90004)
- Chykan, O. R. (with Sukharev, A. G.) On adaptive and nonadaptive stochastic and deterministic algorithms. **91c:90070**
- Dempster, M. A. H. On stochastic programming. II. Dynamic problems under risk. **91c:90071**
- De Pierro, Alvaro R. *see* Censor, Yair; et al., **91m:90123**

- Dorea, C. C. Y. Stochastic algorithm for solving a set of inequalities. 91f:90097
- Dupečová, Jitka On nonnormal asymptotic behavior of optimal solutions of stochastic programming problems: the parametric case. 91h:90077
- Stochastic programming—model building and selected applications. (Spanish summary) (Not in MR)
- Stability and sensitivity analysis for stochastic programming. 91h:90131
- Flåm, Sjur D. (with Zowe, Jochem) Exact penalty functions in single-stage stochastic programming. 91h:90132
- Galvornskii, A. A. Numerical methods for minimizing convex functionals from probability measures with applications to optimal monitoring. 91e:90072
- A numerical method for searching for optimal submeasures. 91h:90043
- Gassmann, Horand I. MSLIP: a computer code for the multistage stochastic linear programming problem. 91d:90069
- Gl'v, A. B. (with Kaplinskii, A. I.; Umyakin, V. M.) Information base of procedures for searching for optimal variants of an object that does not use differential characteristics of the quality exponent. (Russian) (see 91f:90004)
- Gu, Fu Wen Density estimation of measurable optimal value functions and measurable solutions in stochastic programming. (Chinese. English summary) 91a:90124
- Ishii, Hiroaki¹ see Shioda, S.; et al., (Not in MR)
- Inem, Alfredo N. see Censor, Yair; et al., 91m:90123
- Jaganathan, Raj A stochastic geometric programming problem with multiplicative recourse. 91g:90118
- Kaňková, Vlasta A note on the minimax approach to the stochastic programming problems. (Czech summary) 91m:90124
- Kaplinskii, A. I. see Gl'v, A. B.; et al., 91f:90004
- Kasitskaya, E. I. Approximation of the solution of a stochastic programming problem with noise that is a homogeneous random field. (Russian) (see 91m:90005)
- (with Knopov, P. S.) Asymptotic behavior of empirical estimates in problems of stochastic programming. (Russian) (Not in MR)
- Katkauskaitė, Aldona Minimization of functions that are observable with noise. (Russian. English and Lithuanian summaries) (Not in MR)
- Kateh, Naoki An ε -approximation scheme for minimum variance problems. 91h:90133
- Knopov, P. S. see Kasitskaya, E. I., (Not in MR)
- Komáromi, Éva On the convergence of a dual algorithm for the solution of the probabilistic constrained linear programming problem. (Hungarian. English summary) 91e:90073
- Lepp, Rhuo Approximations to stochastic programs with complete recourse. 91h:90146
- Li, Xiao Liu (with Wang, Jin De) Approximate feasible direction method for stochastic programming problems with recourse. Linear inequality deterministic constraints. 91j:90055
- Martí, Kurt⁵ Descent directions and efficient solutions in discretely distributed stochastic programs. 91a:90125
- Optimal semistochastic approximation. 91d:90070
- (with Plöschinger, E.) Optimal step sizes in semi-stochastic approximation procedures. I. 91h:90078
- (with Plöschinger, E.) Optimal step sizes in semistochastic approximation procedures. II. 91m:90125
- Mikhalevich, M. V. Estimates for the rate of convergence of stochastic procedures using averaged descent directions. 91h:90147
- Mukai, H. see Yan, Di, 91c:90080
- Nishida, Toshio see Shioda, S.; et al., (Not in MR)
- Norkin, V. I. ★ Оптимизация вероятностей. (Russian) [Optimization of probabilities] 91i:90044
- Perevozchikov, A. G. see Zavriv, S. K., 91j:90057
- Perttunen, Cary D. A nonparametric global optimization method using the rank transformation. 91a:90126
- Plöschinger, E. see Martí, Kurt, 91h:90078 and 91m:90125
- Polyak, B. T. A new method of stochastic approximation type. 91j:90056
- (with Tsybakov, A. B.) Optimal orders of accuracy for search algorithms of stochastic optimization. 91h:90045
- Prékopa, András Dual method for the solution of a one-stage stochastic programming problem with random RHS obeying a discrete probability distribution. (German summary) 91h:90134
- Pryev, Yu. P. Nonlinear reduction of a measurement. (Russian) 91a:90127
- Ritter, Klaus Approximation and optimization on the Wiener space. 91h:90135
- Sakharov, Yu. P. (with Akulov, A. P.) A method for nonlinear global optimization under conditions of uncertainty. (Russian. English and Georgian summaries) (Not in MR)
- Schoen, Fabio see Betrò, Bruno, (Not in MR)
- Shapiro, Alexander On differential stability in stochastic programming. 91g:90119
- Shioda, S. (with Ishii, Hiroaki¹; Nishida, Toshio) Errata: "A stochastic linear knapsack problem" [Naval Res. Logist. 34 (1987), no. 5, 753–759; MR 88h:90158]. (Not in MR)
- Saleldovich, Moshe Solution strategies for variance minimization problems. 91m:90126
- Sekharev, A. G. see Chuyana, O. R., 91e:90070
- Tang, Heng Yong A dual parallel algorithm for stochastic linear programs with simple recourse. (Chinese. English summary) 91h:90148
- Tsybakov, A. B. see Polyak, B. T., 91j:90045
- Umyakin, V. M. see Gl'v, A. B.; et al., (91f:90004)
- Vorobeeva, S. V. (with Chernykh, O. I.; Chernyshova, G. D.) Construction of probabilistic algorithms for optimization by means of a modified Lagrange function for computer-aided design systems problems. (Russian) (see 91f:90004)
- Wang, Jin De Continuity of the feasible solution sets of probabilistic constrained programs. 91d:90071
- see also Li, Xiao Liu, 91j:90055
- Ward, Y. Stochastic algorithms with Armijo stepsizes for minimization of functions. 91m:90127
- Winkler, William E. On Dykstra's iterative fitting procedure. 91h:90079
- Yan, Di (with Mukai, H.) Discrete optimization with estimation. 91c:90080
- Zavriv, S. K. (with Perevozchikov, A. G.) A stochastic quasigradient method for optimization of the parameters of dynamical systems. 91j:90057
- Zowe, Jochem see Flåm, Sjur D., 91h:90132
- Items with secondary classifications in 90C15
- Averbakh, I. L. An algorithm for solving an m -dimensional knapsack problem with random coefficients. (Russian) 91h:90113
- Bean, James C. see Hight, Julia L.; et al., 91h:49027
- Bhatt, Sandeep N. (with Chung, Fan R. K.; Rosenberg, Arnold L.) Partitioning circuits for improved testability. 91j:68047
- Chung, Fan R. K. see Bhatt, Sandeep N.; et al., 91j:68047
- Haurie, Alain (with Zaccour, Georges; Smeers, Y.) Stochastic equilibrium programming for dynamic oligopolistic markets. 91f:90039
- Hight, Julia L. (with Bean, James C.; Smith, Robert L.) Deterministic equivalence in stochastic infinite horizon problems. 91h:49027
- Kokorev, M. A. Construction of a stochastic algorithm, optimal for one step, for the approximation of a Lipschitz function. (Russian) 91m:65031
- Li, Duan Multiple objectives and nonseparability in stochastic dynamic programming. 91m:90143
- Martí, Kurt Stochastic optimization methods in structural mechanics. 91f:73028
- Nakoschney, A. N. Extremal problems with rare events. I. 91m:49025
- Nollau, Volker Some aspects of vector-valued stochastic dynamic programming. 91h:90093
- Norkin, V. I. ★ Устойчивость стохастических оптимизационных моделей и статистические методы стохастического программирования (по материалам ИААСА). (Russian) [Stability of stochastic optimization models and statistical methods in stochastic programming (from reports of the International Institute of Applied Systems Analysis)] 91i:90071
- Paine, T. B. see Trout, Marvin D., 91h:49043
- Perevozchikov, A. G. see Zavriv, S. K., 91f:90012
- Righter, Rhonda Stochastically maximizing the number of successes in a sequential assignment problem. 91j:90049
- Rockafellar, R. Tyrrell (with Wets, Roger J.-B.) Generalized linear-quadratic problems of deterministic and stochastic optimal control in discrete time. 91f:49041
- Rosenberg, Arnold L. see Bhatt, Sandeep N.; et al., 91j:68047
- Rustem, Berc Methods for optimal economic policy design. 91m:90037
- Sakawa, Masatoshi see Yano, Hiroshi, 91h:90172
- Sarma, M. S. On the convergence of the Baba and Dorea random optimization methods. (Not in MR)
- Smeers, Y. see Haurie, Alain; et al., 91f:90039
- Smith, Robert L. see Hight, Julia L.; et al., 91h:49027
- Trout, Marvin D. (with Paine, T. B.) A monotone variational method for optimal probability distributions. (German summary) 91h:49043
- Walk, H. Zur Konvergenzgeschwindigkeit eines rekursiven Penalisationsverfahrens der stochastischen Optimierung. [On the rate of convergence of a recursive penalization method of stochastic optimization] 91m:90135
- Ward, Y. Stochastic approximation algorithm for minimax problems. 91d:49011
- Wets, Roger J.-B. see Rockafellar, R. Tyrrell, 91f:49041
- Yano, Hiroshi (with Sakawa, Masatoshi) Interactive fuzzy decision making for generalized multiobjective linear fractional programming problems with fuzzy parameters. 91h:90172
- Yarin, Y. Optimal launch conditions: an optimal stochastic control problem. (Not in MR)
- Zaccour, Georges see Haurie, Alain; et al., 91f:90039
- Zavriv, S. K. (with Perevozchikov, A. G.) The stochastic generalized gradient method for solving minimax problems with connected variables. (Russian) 91f:49012
- Zavriva, M. K. ★ Комбинированный метод штрафов и стохастических квазиградиентов для поиска связанного максимума. (Russian) [A combined penalty and stochastic quasigradient method for the search for a connected maximin] 91m:49005

90C20 Quadratic programming

- Bernau, H. Quadratic programming problems and related linear complementarity problems. 91m:90128
- Blanchon, G. (with Dodu, J. C.; Bonnans, Joseph Frédéric) Optimisation des réseaux électriques de grande taille. [Optimization of large electrical networks] (see 91f:93002)
- Bonnans, Joseph Frédéric see Blanchon, G.; et al., (91f:93002)
- Casas Rentería, Eduardo (with Pola, Cecilia) A new quadratic-programming algorithm. (Spanish) (see 91j:90015)
- Crinà, Marco A finite algorithm for global quadratic minimization. 91g:90120
- Dodu, J. C. see Blanchon, G.; et al., (91f:93002)
- Er, M. H. Quadratic optimization problems in robust beamforming. 91h:90046
- First, Zvi (with Hackman, Steven T.; Passy, Uri) Matrix criteria for the pseudo- P -convexity of a quadratic form. 91h:90080
- Filippo, Olaf E. (with Rinnooy Kan, Alexander H. G.) A note on Benders decomposition in mixed-integer quadratic programming. 91e:90074
- Fujishige, Satoru (with Zhan, Ping) A dual algorithm for finding the minimum-norm point in a polytope. 91h:90081
- Gramlich, G. see Hettich, R., 91c:90081
- Granot, Frieda (with Skorin-Kapov, Jadranka) On simultaneous approximation in quadratic integer programming. 91h:90149
- (with Skorin-Kapov, Jadranka) Towards a strongly polynomial algorithm for strictly convex quadratic programs: an extension of Tardos' algorithm. 91e:90075
- Hackman, Steven T. see First, Zvi; et al., 91h:90080
- Han, Chi-Geun (with Pardalos, Panos M.; Ye, Yinyu) Computational aspects of an interior point algorithm for quadratic programming problems with box constraints. 91h:90136
- see also Pardalos, Panos M.; et al., (91f:93002)
- He, Bing Sheng A projection method for a class of quadratic programming problems. (Chinese. English summary) 91e:90076
- Hettich, R. (with Gramlich, G.) A note on an implementation of a method for quadratic semi-infinite programming. 91c:90081
- Idrissi, H. (with Lefebvre, O.; Michelot, C.) Applications and numerical convergence of the partial interior method. 91f:90098
- Jarre, F. On the method of analytic centers for solving smooth convex programs. 91e:90077
- On the convergence of the method of analytic centers when applied to convex quadratic programs. 91m:90129

- Kevorkova, M. R. *see* Seisov, Yu. B., (Not in MR)
- Körner, Frank On the numerical realization of the exact penalty method for quadratic programming algorithms. 91d:90072
- Kovoor, N. *see* Pardalos, Panos M., 91j:90058
- Kuntsevich, A. V. *see* Shor, N. Z.; et al., 91a:90128
- Lafèvre, O. *see* Idrissi, H.; et al., 91f:90098
- Martini, L. (with Schaible, Siegfried) On solving a linear program with one quadratic constraint. (Italian summary) 91b:90150
- Mehrotra, Sanjay (with Sun, Jie) An algorithm for convex quadratic programming that requires $O(n^3L)$ arithmetic operations. 91m:90130
- (with Sun, Jie) A method of analytic centers for quadratically constrained convex quadratic programs. 91m:90131
- Michelot, C. *see* Idrissi, H.; et al., 91f:90098
- More, Jorge J. (with Toraldo, Gerardo) On the solution of large quadratic programming problems with bound constraints. 91k:90137
- Pardalos, Panos M. (with Ye, Yinyu; Han, Chi-Geun) An interior-point algorithm for large-scale quadratic problems with box constraints. (see 91f:90062)
- (with Kovoor, N.) An algorithm for a singly constrained class of quadratic programs subject to upper and lower bounds. 91j:90058
- *see also* Han, Chi-Geun; et al., 91k:90136
- Passy, Ury *see* First, Zvi; et al., 91h:90080
- Phillips, A. T. (with Rosen, J. B.) Guaranteed ε -approximate solution for indefinite quadratic global minimization. 91i:90047
- Pola, Cecilia *see* Casas Reuter, Eduardo, (91j:00015)
- Rinneoy Kan, Alexander H. G. *see* Filipo, Olaf E., 91c:90074
- Rosen, J. B. *see* Phillips, A. T., 91i:90047
- Schäible, Siegfried *see* Martini, L., 91b:90150
- Seisov, Yu. B. (with Kevorkova, M. R.) Justification of methods for solving mathematical programming problems with a quadratic constraint. (Russian. English summary) (Not in MR)
- Shi, Zhen Jun A matrix decomposition algorithm for quadratic programming. (Chinese. English summary) (Not in MR)
- Shor, N. Z. (with Zhurbenko, N. G.; Kuntsevich, A. V.) A problem of planning a production program for a corporation. 91a:90128
- Skorin-Kapov, Jadranka *see* Grant, Frieda, 91b:90149 and 91e:90075
- Solov'ev, V. N. Algorithms for solving some problems of quadratic programming and of optimal guaranteed estimation. 91j:90048
- Sui, Yan Kang An algorithm for solving quadratic programming problems with second-order constraints. (Chinese. English summary) (Not in MR)
- Sun, Jie *see* Mehrotra, Sanjay, 91m:90130 and 91m:90131
- Takahashi, Satoru A numerical method for the solution of parametric convex quadratic programs. 91c:90082
- Todd, Michael J. *see* Ye, Yinyu, 91g:90121
- Tokareva, O. N. The decomposition method for solving a block system of linear equalities and inequalities of large dimension by means of sequential quadratic programming. 91a:90129
- Toraldo, Gerardo *see* More, Jorge J., 91k:90137
- Yang, Hung Chang A partially simultaneous extension of Hildreth's iterative row-action method for quadratic programming. 91k:90138
- Ye, Yinyu (with Todd, Michael J.) Containing and shrinking ellipsoids in the path-following algorithm. 91g:90121
- *see also* Han, Chi-Geun; et al., 91k:90136 and Pardalos, Panos M.; et al., (91f:90062)
- Yuan, Ya Xiang On a subproblem of trust region algorithms for constrained optimization. 91e:90078
- Zhan, Ping *see* Fujishige, Satoru, 91h:90081
- Zhurbenko, N. G. *see* Shor, N. Z.; et al., 91a:90128
- Items with secondary classifications in 90C20
- Adler, Ilan *see* Monteiro, Renato D. C.; et al., 91m:90101
- Al-Khayyal, Faiz A. Jointly constrained bilinear programs and related problems: an overview. 91d:90074
- Ben-Tal, Aharon (with Teboulle, Marc) A geometric property of the least squares solution of linear equations. 91h:15004
- Berkowitz, Brian *see* Dax, Achiya, 91g:65149
- Cai, Qi Zhi *see* Li, Ming Xia; et al., 91b:65071
- Coleman, Thomas F. (with Hempel, Christian) Computing a trust region step for a penalty function. 91g:49014
- Dax, Achiya A new theorem of the alternative. 91f:15047
- (with Berkowitz, Brian) Column relaxation methods for least norm problems. 91g:65149
- Dodu, J. C. (with Huard, P.) Méthodes de quasi-Newton sous contraintes non linéaires: algorithmes à convergence locale superlinéaire. II. Convergence en x seul. (English summary) [Quasi-Newton methods in the nonlinearly constrained case: locally and superlinearly convergent algorithms. II. Convergence of the quadratic program solution itself] 91f:90058
- Duff, Iain S. The solution of large-scale least-squares problems on supercomputers. 91a:65122
- Evans, Robert Andrew (with Maskin, Eric S.) Efficient renegotiation-proof equilibria in repeated games. 91e:90147
- Gill, Philip E. (with Murray, Walter; Saunders, Michael A.; Wright, Margaret H.) A Schur-complement method for sparse quadratic programming. 91m:65171
- Gong, Jin Shuang *see* Li, Zong Yuan, 91j:90080
- Griewank, Andreas (with Sheng, Laihua) On the Gauss-Broyden method for nonlinear least squares. 91a:65154
- Hammer, Peter L. (with Kalantari, Bahman) A bound on the roof-duality gap. 91b:90133
- Hansen, Pierre (with Lu, Shi Hui; Simeone, Bruno) On the equivalence of paved-duality and standard linearization in nonlinear 0-1 optimization. 91m:90109
- Harker, Patrick T. (with Xiao, Baichun) A polynomial-time algorithm for affine variational inequalities. (Not in MR)
- Hempel, Christian *see* Coleman, Thomas F., 91g:49014
- Huang, Shi Qing *see* Li, Ming Xia; et al., 91b:65071
- Huard, P. *see* Dodu, J. C., 91f:90058
- Kalantari, Bahman *see* Hammer, Peter L., 91b:90133
- Klafsky, Emil (with Terlaky, Tamás) Oriented matroids, quadratic programming and the criss-cross method. (Hungarian. English summary) 91k:05030
- (with Mayer, János; Terlaky, Tamás) Linearly constrained estimation by mathematical programming. 91h:93064
- Kaoth, O. A globalization scheme for the generalized Gauss-Newton method. 91a:65157
- Konno, Hiroshi Piecewise linear risk function and portfolio optimization. 91h:90028
- Laratta, A. (with Zironi, Fernando) Numerical solution of linear least-squares problems with linear equality constraints. 91d:65091
- Li, Ming Xia (with Huang, Shi Qing; Cai, Qi Zhi) An algorithm for solving a special quadratic programming problem. (Chinese. English summary) 91b:65071
- Li, Zong Yuan (with Gong, Jin Shuang) A perturbed successive quadratic programming algorithm and its convergence. (Chinese. English summary) 91j:90080
- Lu, Shi Hui *see* Hansen, Pierre; et al., 91m:90109
- Martinez, José Mario (with Santos, Rita Filomena) An algorithm for solving nonlinear least-squares problems with a new curvilinear search. (German summary) 91g:65152
- Maskin, Eric S. *see* Evans, Robert Andrew, 91e:90147
- Mayer, János *see* Klafsky, Emil; et al., 91h:93064
- Monteiro, Renato D. C. (with Adler, Ilan; Resende, Mauricio G. C.) A polynomial-time primal-dual affine scaling algorithm for linear and convex quadratic programming and its power series extension. 91m:90101
- Murray, Walter *see* Gill, Philip E.; et al., 91m:65171
- Nesterov, Yu. E. Polynomial iterative methods in linear and quadratic programming. (Russian) 91a:90108
- Ogasawara, Hideho Some properties of a quadratic formulation for linear complementarity problems. 91a:90166
- Pardalos, Panos M. Polynomial time algorithms for some classes of constrained nonconvex quadratic problems. 91k:90179
- Resende, Mauricio G. C. *see* Monteiro, Renato D. C.; et al., 91m:90101
- Rockafellar, R. Tyrrell (with Wets, Roger J.-B.) Generalized linear-quadratic problems of deterministic and stochastic optimal control in discrete time. 91f:49041
- Santos, Rita Filomena *see* Martinez, José Mario, 91g:65152
- Saunders, Michael A. *see* Gill, Philip E.; et al., 91m:65171
- Sheng, Laihua *see* Griewank, Andreas, 91a:65154
- Shor, N. Z. Dual quadratic estimates in polynomial and Boolean programming. 91m:90111
- Simeone, Bruno *see* Hansen, Pierre; et al., 91m:90109
- Stachurski, A. An equivalence between two algorithms for a class of quadratic programming problems with M -matrices. 91h:65111
- Teboulle, Marc *see* Ben-Tal, Aharon, 91h:15004
- Terlaky, Tamás *see* Klafsky, Emil; et al., 91h:93064 and 91k:05030
- Vavasis, Stephen A. Quadratic programming is in NP. 91m:68095
- Wets, Roger J.-B. *see* Rockafellar, R. Tyrrell, 91f:49041
- Wright, Margaret H. *see* Gill, Philip E.; et al., 91m:65171
- Wright, Stephen Joseph Implementing proximal point methods for linear programming. 91d:90062
- Xiao, Baichun *see* Harker, Patrick T., (Not in MR)
- Zironi, Fernando *see* Laratta, A., 91d:65091
- ## 90C25 Convex programming
- Adler, Ilan *see* Monteiro, Renato D. C., 91h:90062
- Aharoni, Ron (with Censor, Yair) Block-iterative projection methods for parallel computation of solutions to convex feasibility problems. 91b:90151
- Araújo, Aloisio Pessoa (with Monteiro, P. K.) On programming when the positive cone has an empty interior. 91k:90139
- Balas, Egon (with Tama, Joseph M.; Tind, Jørgen) Sequential convexification in reverse convex and disjunctive programming. 91g:90122
- Ben Saad, Sihem (with Jacobsen, Stephen E.) A level set algorithm for a class of reverse convex programs. 91j:90059
- Censor, Yair *see* Aharoni, Ron, 91b:90151
- Char, Bruce W. (with Macnaughton, Alan R.; Strooper, Paul A.) Discovering inequality conditions in the analytic solution of optimization problems. 91a:90130
- Chen, Song Qiang (with Zhou, Huan Wen) Inf-dif-stability of oblique perturbation. 91g:90123
- Eggenmont, P. P. B. Multiplicative iterative algorithms for convex programming. 91k:90140
- Encheva, Tatiana I. (with Levin, A. Yu.) Central sections in quasi-convex programming. 91a:90131
- Ermiin, I. I. A general scheme for forming dualities for improper problems in mathematical programming. 91a:90132
- Fazlyov, V. R. *see* Kulikov, A. N., 91k:90143
- Ferris, M. C. Iterative linear programming solution of convex programs. 91b:90152
- García Palomares, Ubaldo M. A class of methods for solving large convex systems. 91c:90083
- Giorgi, Giorgio A note on the relationships between convexity and invexity. 91e:90079
- Gol'shtein, E. G. (with Tret'yakov, N. V.) * Модифицированные функции Лагранжа. (Russian) [Modified Lagrange functions] 91k:90141
- (with Nemirovskii, A. S.; Nesterov, Yu. E.) Some recent advances in optimization. (Russian) 91f:90099
- Gowda, M. Seetharama (with Teboulle, Marc) A comparison of constraint qualifications in infinite-dimensional convex programming. 91f:90100
- Grygarová, Libule *see* Nollíkka, Frantisek, 91m:90133
- Gurwich, V. A. *see* Grishiani, A. D., 91g:90124 and Obratsov, I. F.; et al., 91h:90083
- Grishiani, A. D. (with Gurvich, V. A.) Conditions for the existence and uniqueness of the solution of problems of convex programming. 91g:90124
- *see also* Obratsov, I. F.; et al., 91h:90083
- Hiriart-Urruty, J.-B. From convex optimization to nonconvex optimization. Necessary and sufficient conditions for global optimality. 91a:90133

- Horst, Reiner (with Thai Q. Phong; Nguyen Van Thoai) On solving general reverse convex programming problems by a sequence of linear programs and line searches. **91h:90142**
- Indihar, Stane Enumerative methods in convex maximization. (Slovenian summary) (see **91m:90027**)
- Jacobsen, Stephen E. see Ben Saad, Sihem, **91j:90059**
- Kamilskii, V. A. Minimization of a convex functional on a class of sets in a space with measure. **91h:90153**
- Kiwiel, Krzysztof C. Proximity control in bundle methods for convex nondifferentiable minimization. **91c:90084**
- Kolkov, A. N. (with Fazylov, V. R.) Convex optimization with prescribed accuracy. (Russian) **91h:90143**
- Larsson, Torbjörn (with Migdalas, A.) An algorithm for nonlinear programs over Cartesian product sets. **91j:90060**
- Lefebvre, O. (with Michelot, C.) About the finite convergence of the proximal point algorithm. **91c:90085**
- Lemaire, Bernard Coupling optimization methods and variational convergence. **91h:90154**
- Levin, A. Yu. see Encheva, Tatiana I., **91a:90131**
- Litvichev, I. S. Decomposition-aggregation method for convex programming problems. **91m:90132**
- Macnaughton, Alan R. see Char, Bruce W.; et al., **91a:90130**
- Michélot, C. see Lefebvre, O., **91c:90085**
- Migdalas, A. see Larsson, Torbjörn, **91j:90060**
- Monteiro, P. K. see Arango, Aloisio Pessoa, **91h:90139**
- Monteiro, Renato D. C. (with Adler, Ilan) An extension of Karmarkar type algorithm to a class of convex separable programming problems with global linear rate of convergence. **91h:90082**
- Muganda, Godfrey Chamba A note on multiple optimality conditions for programs with convex inequality constraints. **91f:90101**
- Nemirovskii, A. S. see Gol'shtein, E. G.; et al., **91f:90099**
- Nesterov, Yu. E. see Gol'shtein, E. G.; et al., **91f:90099**
- Nguyen Van Thoai see Horst, Reiner; et al., **91h:90142**
- Noll, Dominikus Sandwich theorem and supportability for partially defined convex operators. **91g:90125**
- Neittka, František (with Grygarová, Libuše) Some topological questions connected with strictly convex functions. **91m:90133**
- Obratsov, I. F. (with Gvishiani, A. D.; Gurvich, V. A.) Elementary vectors in separable convex programming. **91h:90083**
- Phan Thiên Thạch Convex minimization under Lipschitz constraints. **91d:90073**
- Poliquin, René A. Subgradient monotonicity and convex functions. **91h:90155**
- Prede, Vasile Convex optimization with nested maxima and matrix game equivalence. (Not in MR)
- Rapcsák, Tamás On geodesic convex programming problems. **91a:90134**
- On a generalization of convex programming. (Hungarian. English summary) **91h:90144**
- Reiland, Thomas W. Generalized invexity for nonsmooth vector-valued mappings. **91g:90126**
- Rzhevskaia, S. V. On the structure of the conditional ε -subgradient method for the simultaneous solution of the direct and the dual programming problem. **91h:90084**
- Schmetterer, Leopold Über konvexe Programme mit stochastischen Störungen. [On convex programs with stochastic disturbances] **91f:90102**
- Schneider, Michael H. Matrix scaling, entropy minimization, and conjugate duality. II. The dual problem. **91c:90086**
- Shvarts, B. see Tichatschke, Rainer, **91a:90135**
- Simmons, P. Comparative statics and relative convexity. **91h:90085**
- Snyder, Timothy Law (with Steele, J. Michael) Worst-case greedy matchings in the unit d -cube. **91g:90127**
- Steele, J. Michael see Snyder, Timothy Law, **91g:90127**
- Strooper, Paul A. see Char, Bruce W.; et al., **91a:90130**
- Tama, Joseph M. see Balas, Egon; et al., **91g:90122**
- Teboulle, Marc see Gowda, M. Seetharama, **91f:90100**
- Thai Q. Phong see Horst, Reiner; et al., **91h:90142**
- Tichatschke, Rainer (with Shvarts, B.) Methods of feasible directions for extremal problems of semi-infinite type. I. (Russian) **91a:90135**
- Tind, Jürgen see Balas, Egon; et al., **91g:90122**
- Trufayakov, N. V. see Gol'shtein, E. G., **91h:90141**
- Tseng, Paul Further applications of a splitting algorithm to decomposition in variational inequalities and convex programming. **91h:90145**
- Applications of a splitting algorithm to decomposition in convex programming and variational inequalities. **91m:90134**
- Uberti, Mariacristina The use of branch and bound methods for the maximization of some statistical indexes. (see **91f:90007**)
- Walk, H. Zur Konvergenzgeschwindigkeit eines rekursiven Penalisationsverfahrens der stochastischen Optimierung. [On the rate of convergence of a recursive penalization method of stochastic optimization] **91m:90135**
- Wang, Wei* A superlinearly convergent algorithm, using the suboptimization method, for solving linearly constrained convex programming problems. (Chinese. English summary) **91c:90080**
- Wanka, Gert Dualität beim skalaren und vektoriellen Standortproblem. (English and Russian summaries) [Duality in the scalar and vector location problem] **91c:90081**
- Zhou, Huan Wen see Chen, Song Qiang, **91g:90123**
- Items with secondary classifications in 90C25
- Antanoshkin, A. N. ★ Оптимизация функционалов с булевыми переменными. (Russian) [Optimization of functionals with Boolean variables] **91h:90002**
- Asi, D. (with Voile, Michel) A stability result in quasi-convex programming. **91j:90086**
- Bakka, A. G. The Moreau-Rockafellar equality for sublinear functionals. **91a:90025**
- Barahona, Francisco (with Mahjoub, Ali Ridha) Facets of the balanced (acyclic) induced subgraph polytope. **91c:05178**
- Beer, Gerald A. (with Borwein, Jonathan M.) Mosco convergence and reflexivity. **91c:46016**
- Borwein, Jonathan M. see Beer, Gerald A., **91c:46016**
- Burtsev, S. V. Once more on a problem of Ulam. (Russian) **91c:49031**
- Cardinali, T. (with Papalini, F.) An extension of the concept of midpoint convexity for multifunctions. (Italian. English summary) **91h:26010**
- Dax, Achya The smallest point of a polytope. **91d:65088**
- Ding, Xie Ping (with Tan, Kok-Keong) Matching theorems, fixed point theorems and minimax inequalities without convexity. **91f:47082**
- Dinh Thé Lâc Continuity properties of cone-convex functions. **91m:52007**
- Erdmann, Dittmar Zur Konvexität positiv homogener Funktionen. [On the convexity of positively homogeneous functions] **91h:26017**
- Ferreira, P. A. Valente see Geromel, J. C., **91m:90142**
- Flâm, Sjur D. (with Zowe, Jochem) Relaxed outer projections, weighted averages and convex feasibility. **91c:65074**
- Focke, J. (with Schulze, Ralf) On a DC-optimization-problem from statistical factor analysis. **91d:62082**
- Galvovskii, A. A. Numerical methods for minimizing convex functionals from probability measures with applications to optimal monitoring. **91c:90072**
- Gamble, A. B. (with Pulleyblank, William R.) Forest covers and a polyhedral intersection theorem. **91c:05142**
- Gaudioso, Manlio (with Monaco, Maria Flavia) Some techniques for finding the search direction in nonsmooth minimization problems. **91c:90096**
- Geromel, J. C. (with Ferreira, P. A. Valente) An upper bound on properly efficient solutions in multiobjective optimization. **91m:90142**
- Gramlich, G. see Hettich, R., **91c:90081**
- Hettich, R. (with Gramlich, G.) A note on an implementation of a method for quadratic semi-infinite programming. **91c:90081**
- Hiriart-Urruty, J.-B. (with Plazanet, Ph.) Moreau's decomposition theorem revisited. **91h:58017**
- Jarre, F. On the method of analytic centers for solving smooth convex programs. **91c:90077**
- Kaplan, A. A. Convergence rate estimates for regularized methods of solving variational problems. **91a:65156**
- Kim, Sung Ki see Park, Sehie, **91c:49016**
- Lebeuf, Robert Existence of solutions for an origin-destination matrix estimation problem. (French summary) **91h:90203**
- Lefebvre, O. (with Michelot, C.; Plastria, F.) Geometric interpretation of the optimality conditions in multifacility location and applications. **91c:90065**
- (with Michelot, C.; Plastria, F.) Errata corrigé: "Geometric interpretation of the optimality conditions in multifacility location and applications" [J. Optim. Theory Appl. 65 (1990), no. 1, 85–101; MR 91c:90065]. (Not in MR)
- Lewis, Adrian S. The convergence of entropic estimates for moment problems. **91a:41030**
- Mahjoub, Ali Ridha see Barahona, Francisco, **91c:05178**
- Michelot, C. see Lefebvre, O.; et al., **91c:90065** and (Not in MR)
- Monaco, Maria Flavia see Gaudioso, Manlio, **91c:90096**
- Musina, Roberta On the continuity of the Nemitsky operator induced by a Lipschitz continuous map. **91g:58017**
- Neftci, V. N. Error estimation in convex polynomial problems of optimization. **91c:90109**
- Novikova, N. M. Iterative regularization of the approximation of the penalty method in a Hilbert space. **91a:90178**
- Papalini, F. see Cardinali, T., **91h:26010**
- Pappalardo, Massimo Image space approach to penalty methods. **91a:65159**
- Park, Sehie (with Kim, Sung Ki) On generalized extremal principles. **91c:49016**
- Plastria, F. see Lefebvre, O.; et al., **91c:90065** and (Not in MR)
- Plazanet, Ph. see Hiriart-Urruty, J.-B., **91h:58017**
- Pulleyblank, William R. see Gamble, A. B., **91c:05142**
- (Rastrigina, L. A.) see Antanoshkin, A. N., **91h:90002**
- Rueda, Norma G. Generalized convexity in nonlinear programming. **91c:90114**
- Schulze, Ralf see Focke, J., **91d:62082**
- Takahashi, Satoru A numerical method for the solution of parametric convex quadratic programs. **91c:90082**
- Tan, Kok-Keong see Ding, Xie Ping, **91f:47082**
- Tardella, Fabio On the equivalence between some discrete and continuous optimization problems. **91h:90111**
- Tichatschke, Rainer Connections between generalized, inexact and semi-infinite linear programming. **91h:90124**
- Tokareva, O. N. The decomposition method for solving a block system of linear equalities and inequalities of large dimension by means of sequential quadratic programming. **91a:90129**
- Voile, Michel see Asi, D., **91j:90086**
- Weir, T. Duality for nondifferentiable multiple objective fractional programming problems. **91a:90163**
- Zowe, Jochem see Flâm, Sjur D., **91c:65074**

90C26 Nonconvex programming, quasiconvex programming

- Al-Khayyal, Faiz A. Jointly constrained bilinear programs and related problems: an overview. **91d:90074**
- Borzsák, P. see Rapcsák, Tamás, **91c:90084**
- Burke, James V. On the identification of active constraints. II. The nonconvex case. **91c:90082**
- Engelmann, B. see Tatjewski, P., **91b:90156**
- Feng, Jun Wen (H, Ω) conjugate function theory. (Chinese. English summary) **91c:90083**
- Grygarová, Libuše About a special class of nonconvex optimization problems. (Russian and Czech summaries) **91h:90049**
- Ismaïlov, I. G. On a proximal method for solving nonconvex optimization problems. (Russian) (Not in MR)
- Rapcsák, Tamás (with Borzsák, P.) ★ On separable product functions. **91c:90084**
- Tatjewski, P. (with Engelmann, B.) Two-level primal-dual decomposition technique for large-scale nonconvex optimization problems with constraints. **91h:90156**
- Tran Quoc Chien Perturbation theory of duality in vector nonconvex optimization via the abstract duality scheme. **91h:90157**

- Trần Vũ Thiệu Improvement and implementation of some algorithms for nonconvex optimization problems. 91c:90085
 Zălinescu, Constantin Stability for a class of nonlinear optimization problems and applications. 91d:90075

90C27 Combinatorial optimization

- Aarts, Emile H. L. *see van Laarhoven, Peter J. M.*, 91c:00031
 Ankudinov, G. I. Symbol-numerical methods in problems of discrete programming with logic constraints. 91a:90136
 Apolloni, Bruno (with Carvalho, Maria Conceição V.; de Falco, Diego) Quantum stochastic optimization. 91a:90137
 Arzunin, D. V. ★ Некоторые вопросы исследования задач на перестановках. (Russian) [Some problems in the study of permutation problems] 91k:90146
 Atkinson, M. D. (with Negro, Alberto; Santoro, Nicola) Sums of lexicographically ordered sets. 91m:90136
 Barvinok, A. I. (with Vershik, A. M.) Methods of representations theory in combinatorial optimization problems. 91c:90086
 — The method of Newton sums in problems of combinatorial optimization. (Russian) 91c:90087
 Bezrukov, S. L. Minimization of shadows of subsets of a semilattice of partial mappings. (Russian) 91h:90158
 Bookhold, Ines A contribution to quadratic assignment problems. 91m:90137
 Carvalho, Maria Conceição V. *see Apolloni, Bruno; et al.*, 91a:90137
 Connolly, David T. An improved annealing scheme for the QAP. 91a:90138
 Eglesse, R. W. Simulated annealing: a tool for operational research. 91d:90076
 Exeler, H. Upper bounds for the homogeneous case of a two-dimensional packing problem. (German summary) (Not in MR)
 de Falco, Diego *see Apolloni, Bruno; et al.*, 91a:90137
 Freund, Harold *see Grassberger, Peter*, 91c:90088
 Fukuda, Komei (with Tamura, Akihisa) Dualities in signed vector systems. 91k:90147
 Goecke, Oskar (with Korte, Bernhard; Lovász, László) Examples and algorithmic properties of greedoids. 91f:90103
 Gordiev, E. N. Complexity of the investigation of the stability of problems of discrete optimization. (Russian) 91g:90128
 Grassberger, Peter (with Freund, Harold) An efficient heuristic algorithm for minimum matching. (German summary) 91c:90088
 Gröppen, V. O. ★ Принципы оптимизация комбинаторных процедур. (Russian) [Principles of the optimization of combinatorial procedures] 91f:90104
 Grötschel, Martin (with Truemper, K.) Decomposition and optimization over cycles in binary matroids. 91a:90139
 Gupta, Surinder Kumar (with Punnen, A. P.) k -sum optimization problems. 91d:90077
 Hassin, Refael (with Tamir, Arie) Maximizing classes of two-parameter objectives over matroids. 91f:90105
 Helman, Paul A common schema for dynamic programming and branch and bound algorithms. 91h:90086
 Huang, Ch'J Jui Random perturbation and its application to simulated annealing. (see 91c:90022)
 Kesidis, George (with Wong, Eugene) Optimal acceptance probability for simulated annealing. 91c:90089
 Kolen, A. W. J. Constructing valid inequalities for combinatorial optimization problems. 91c:90090
 Korte, Bernhard *see Goecke, Oskar; et al.*, 91f:90103
 van Laarhoven, Peter J. M. (with Aarts, Emile H. L.) Simulated annealing: theory of the past, practice of the future? (see 91c:90031)
 Laporte, Gilbert (with Martello, Silvano) The selective travelling salesman problem. 91c:90087
 Lefman, Lev J. Combinatorial optimization: accuracy versus complexity and stability. 91m:90138
 Lin, Rung-Bin *see Shragowitz, Eugene*, 91c:90091
 Lin, Wei Gao A lower bound for the Steiner tree problem in directed graphs. 91m:90139
 Lovász, László *see Goecke, Oskar; et al.*, 91f:90103
 Martello, Silvano *see Laporte, Gilbert*, 91c:90087
 Melamed, I. I. (with Sergeev, S. I.; Sigal, I. Kh.) The traveling salesman problem. Approximate algorithms. 91b:90159
 — (with Sergeev, S. I.; Sigal, I. Kh.) The traveling salesman problem. Issues in the theory. 91h:90160
 Meyer, T. W. S. *see Smith, T. H. C.; et al.*, 91a:90141
 Minoux, M. Solving combinatorial problems with combined min-max-min-sum objective and applications. 91a:90140
 Mohar, Bojan (with Poljak, Svatopluk) Eigenvalues and max-cut problem. 91b:90161
 Negro, Alberto *see Atkinson, M. D.; et al.*, 91m:90136
 Padberg, Manfred (with Rinaldi, Giovanni) Facet identification for the symmetric traveling salesman polytope. 91f:90106
 Poljak, Svatopluk *see Mohar, Bojan*, 91b:90161
 Punnen, A. P. *see Gupta, Surinder Kumar*, 91d:90077
 Rao, M. R. *see Sterbin Gottlieb, Elsie*, 91b:90162 and 91c:90088
 Rinaldi, Giovanni *see Padberg, Manfred*, 91f:90106
 Romero, David (with Sánchez-Flores, Adolfo) Methods for the one-dimensional space allocation problem. 91d:90078
 Sánchez-Flores, Adolfo *see Romero, David*, 91d:90078
 Santoro, Nicola *see Atkinson, M. D.; et al.*, 91m:90136
 Scheithauer, Guntram Optimale Zuschnitt trapezförmiger Teile. [Optimal cutting of trapezoidal pieces] 91f:90059
 Sergeev, S. I. *see Melamed, I. I.; et al.*, 91b:90159 and 91h:90160
 Shragowitz, Eugene (with Lin, Rung-Bin) Combinatorial optimization by stochastic automata. 91c:90091
 Sigal, I. Kh. *see Melamed, I. I.; et al.*, 91b:90159 and 91h:90160
 Slinger, Ivan Some relations between combinatorial min-max equalities and Lagrangian duality, via coupling functions. I. Cardinality results. 91g:90129a
 — Some relations between combinatorial min-max equalities and Lagrangian duality, via coupling functions. II. Further results. 91g:90129b
 Smith, T. H. C. (with Meyer, T. W. S.; Thompson, Gerald L.) Lower bounds for the symmetric travelling salesman problem from Lagrangean relaxations. 91a:90141
 Sterbin Gottlieb, Elsie (with Rao, M. R.) The generalized assignment problem: valid inequalities and facets. 91h:90162
 — (with Rao, M. R.) $(1, k)$ -configuration facets for the generalized assignment problem. 91c:90088
 Tamir, Arie *see Hassin, Refael*, 91f:90105
 Tamura, Akihisa *see Fukuda, Komei*, 91k:90147
 Thompson, Gerald L. *see Smith, T. H. C.; et al.*, 91a:90141
 Truemper, K. *see Grötschel, Martin*, 91a:90139
 Vershik, A. M. *see Barvinok, A. I.*, 91c:90086
 Wong, Eugene *see Kesidis, George*, 91c:90089
 Yakovlev, S. V. Estimates for the minimum of convex functions on Euclidean combinatorial sets. 91h:90087
 Yanushauskaite, N. A. *see Zabello, L. E.*, 91j:90061
 Zabello, L. E. (with Yanushauskaite, N. A.) Solution of a combinatorial problem by the dynamic programming method. (Russian) 91j:90061
- Items with secondary classifications in 90C27
- Alliney, Stefano The greedy algorithm for defective independence systems. (Italian summary) 91m:05050
 Blazewicz, Jacek (with Drozdowski, Maciej; Soniewicki, Bolesław; Walkowiak, Rafał) Two-dimensional cutting problem basic complexity results and algorithms for irregular shapes. (Not in MR)
 Bondarenko, V. A. Permutational schedules. 91f:90059
 Boros, Endre (with Prékopa, András) Probabilistic bounds and algorithms for the maximum satisfiability problem. 91b:90132
 Brylawski, Thomas Greedy families for linear objective functions. 91m:90113
 Chan, S. C. *see Wong, A. K. C.; et al.*, 91c:05176
 Chandrasekaran, R. *see Kabadi, Santosh N.*, 91c:90074
 Crescenzi, Pierluigi (with Panconesi, Alessandro) Completeness in approximation classes. 91b:68034
 De Simone, Caterina (with Lucertini, Mario; Pallottino, Stefano; Simeone, Bruno) Fair dissections of spiders, worms, and caterpillars. 91c:05169
 — Lifting facets of the cut polytope. 91h:90075
 Deza, Michel-Marie *see Laurent, Monique*, 91c:05056
 Drozdowski, Maciej *see Blazewicz, Jacek; et al.*, (Not in MR)
 Fernández-Baca, David (with Slutzki, Giora) Solving parametric problems on trees. 91a:68126
 Fishburn, Peter C. Unique nontransitive additive conjoint measurement on finite sets. 91k:92052
 Friedrich, Sylvia C. *see Gargano, Michael L.*, 91h:05114
 Frieze, A. M. Probabilistic analysis of graph algorithms. (German summary) 91m:68081
 Furnari, M. (with Massarotti, A.) Comparing notions of approximation. 91c:68047
 Gargano, Michael L. (with Friedrich, Sylvia C.) On constructing a spanning tree with optimal sequencing. 91h:05114
 Glushkova, V. V. (with Kasphitskaya, M. F.) A class of problems on permutations. (Russian) 91g:90178
 Goodhill, G. J. (with Willshaw, D. J.) Application of the elastic net algorithm to the formation of ocular dominance stripes. (Not in MR)
 Hassin, Refael An algorithm for computing maximum solution bases. 91h:90117
 Huang, Ch'J Jui (with Sheu, Shuenn Jyi) On the weak reversibility condition in simulated annealing. 91c:90111
 Kabadi, Santosh N. (with Chandrasekaran, R.) On totally dual integral systems. 91c:90074
 Kasphitskaya, M. F. *see Glushkova, V. V.*, 91g:90178
 Klafsky, Emil (with Terlaky, Tamás) Some generalizations of the criss-cross method for the linear complementarity problem of oriented matroids. 91a:05023
 Kulkarni, V. G. Generating random combinatorial objects. 91f:68167
 Laurent, Monique (with Deza, Michel-Marie) Bouquets of geometric lattices: some algebraic and topological aspects. 91c:05056
 Lee, Jon² Characterizations of the dimension for classes of concordant polytopes. 91c:52018
 Lengauer, Thomas ★ Combinatorial algorithms for integrated circuit layout. 91h:68089
 Leung, Janny M. Y. (with Magnanti, Thomas L.) Valid inequalities and facets of the capacitated plant location problem. 91c:90042
 Leung, Joseph Y.-T. Bin packing with restricted piece sizes. 91a:68133
 Liebling, Th. M. *see Truyen, M.*, (91f:90005)
 Lucertini, Mario *see De Simone, Caterina; et al.*, 91c:05169
 Magnanti, Thomas L. *see Leung, Janny M. Y.*, 91c:90042
 Massarotti, A. *see Furnari, M.*, 91c:68047
 Monma, Clyde L. (with Munson, Beth Spellman; Pulleyblank, William R.) Minimum-weight two-connected spanning networks. 91d:90041
 Makai, H. *see Yao, Di*, 91c:90080
 Munson, Beth Spellman *see Monma, Clyde L.; et al.*, 91d:90041
 Niu, Jia Ji (with Zhang, Xiang Sun) Some discussions on introducing combinatorial properties into nonlinear programming problems. (Chinese. English summary) (Not in MR)
 Orlin, James B. (with Vande Vate, John H.) Solving the linear matroid parity problem as a sequence of matroid intersection problems. 91h:05042
 Pallottino, Stefano *see De Simone, Caterina; et al.*, 91c:05169
 Panconesi, Alessandro *see Crescenzi, Pierluigi*, 91b:68034
 (Pena, Bryan) *see Lengauer, Thomas*, 91h:68089
 Prékopa, András *see Boros, Endre*, 91b:90132
 Pulleyblank, William R. *see Monma, Clyde L.; et al.*, 91d:90041
 Rinnooy Kan, Alexander H. G. (with Stougie, L.) Probabilistic analysis of algorithms. 91c:68057
 Rubinshtein, M. I. ★ Оптимальная группировка взаимосвязанных объектов. (Russian) [Optimal grouping of interconnected objects] 91a:90120

- Sapir, M. V. A logic approach to combinatorial computations. 91h:68050
- Savagau, Michael A. Evolution of regulation examined with a novel strategy for comparative optimization. (see 91h:92005)
- Servakh, V. V. The traveling salesman problem on tape graphs. (Russian) 91h:90081
- Shen, Shuenn Jyi see Huang, Ch'Jui, 91e:90111
- Simeone, Bruno see De Simone, Caterina; et al., 91c:05169
- Simon, Hans-Ulrich Continuous reductions among combinatorial optimization problems. 91f:68166
- On approximate solutions for combinatorial optimization problems. 91c:68058
- Slutski, Giora see Fernández-Baca, David, 91a:68126
- Soniewicki, Bolesław see Błażewicz, Jacek; et al., (Not in MR)
- Stoogie, L. see Rinnoooy Kan, Alexander H. G., 91c:68057
- Terlaky, Tamás see Klafszky, Emil, 91a:05023
- Troyan, M. (with Liebbling, Th. M.) Asymptotics for geometric combinatorial optimization problems. (see 91f:90005)
- Vaidya, Pravin M. Approximate minimum weight matching on points in k -dimensional space. 91h:68090
- Vande Vate, John H. see Orlin, James B., 91h:05042
- Walkowiak, Rafał see Błażewicz, Jacek; et al., (Not in MR)
- Willshaw, D. J. see Goodhill, G. J., (Not in MR)
- Wong, A. K. C. (with You, Man Lai; Chan, S. C.) An algorithm for graph optimal monomorphism. 91c:05176
- Yan, Di (with Mukai, H.) Discrete optimization with estimation. 91c:90080
- You, Man Lai see Wong, A. K. C.; et al., 91c:05176
- Zalgaller, V. A. Dynamical programming in an aggregation problem. (Russian) 91d:90068
- Zhang, Xiang Sun see Niu, Jia Ji, (Not in MR)

90C28 Geometric programming

- Bricker, D. L. see Rajgopal, J., 91h:90088
- Jefferson, Thomas R. (with Wang, Y. P.; Scott, Carlton) Composite geometric programming. 91h:90148
- Rajgopal, J. (with Bricker, D. L.) Posynomial geometric programming as a special case of semi-infinite linear programming. 91h:90088
- Scott, Carlton see Jefferson, Thomas R.; et al., 91h:90148
- Wang, Y. P. see Jefferson, Thomas R.; et al., 91h:90148
- Items with secondary classifications in 90C28
- Elster, Karl-Heinz (with Elster, Rosalind; Göpfert, Alfred) On approaches to duality theory in geometric vector optimization. 91f:90108
- Elster, Rosalind see Elster, Karl-Heinz; et al., 91f:90108
- Göpfert, Alfred see Elster, Karl-Heinz; et al., 91f:90108
- Klafszky, Emil (with Mayer, János; Terlaky, Tamás) Linearly constrained estimation by mathematical programming. 91h:93064
- Mayer, János see Klafszky, Emil; et al., 91h:93064
- Terlaky, Tamás see Klafszky, Emil; et al., 91h:93064

90C29 Multi-objective and goal programming; vector optimization

- Bakunda, Athanase Sur l'ensemble des points efficaces en programmation multilinéaire. (English summary) [On the set of efficient points in linear multiobjective programming] 91h:90163
- Baryshnikov, Yu. M. The average number of variants that cannot be dominated in V. V. Podinovskii comparisons. (Russian) 91g:90130
- Batishchev, D. I. (with Shaposhnikov, D. E.) Comparison of variants of engineering projects by means of a mean-degree generalized criterion. (Russian) (see 91h:90004)
- Bernau, H. Some remarks on the vector optimization method of Fandel. (German summary) 91h:90149
- Callaris, O. (with Oliva, P.) Some remarks on existence theorems for Pareto problems. 91d:90079
- Chandra, Suresh (with Craven, B. D.; Mond, B.) Vector-valued Lagrangian and multi-objective fractional programming duality. 91h:90150
- Charnes, A. (with Cooper, W. W.; Wei, Quan Ling; Huang, Zhi Min) Fundamental theorems of nondominated solutions associated with cones in normed linear spaces. 91g:90131
- Chen, A. Shi A first-order differential criterion for extrema of bivariate functions. (Chinese) 91d:90080
- Chen, Chen see Yang, Jian Bo; et al., 91f:90112
- Chen, Guang Ya (with Yang, Xiao Qi) The vector complementary problem and its equivalences with the weak minimal element in ordered spaces. 91m:90140
- (with Craven, B. D.) A vector variational inequality and optimization over an efficient set. (German summary) 91a:90142
- Chien, I. S. (with Yu, P. L.; Zhang, Dazhi) Indefinite preference structures and decision analysis. 91c:90089
- Cohon, Jared L. see Solanki, Rajendra S., 91e:90100
- Cooper, W. W. see Charnes, A.; et al., 91g:90131
- Craven, B. D. A modified Wolfe dual for weak vector minimization. 91h:90164
- Quasimin and quasiefficient point for vector optimization. 91e:90092
- see also Chen, Guang Ya, 91a:90142 and Chandra, Suresh; et al., 91h:90150
- Damer, Jerald P. (with Saleh, O. A.) Constructing the set of efficient objective values in multiple objective linear programs. 91d:90081
- (with Liu, Yi-Hsin) Solving multiple objective linear programs in objective space. 91d:90082
- Despotis, D. K. (with Yannacopoulos, D.) Méthode d'estimation d'utilités additives concaves en programmation linéaire multiobjectifs. (English summary) [A method for estimating concave additive utility functions in multiple-objective linear programming] (Not in MR)
- Ding, Baoyan (with Wang, Chung-Lie; Dong, Jia Li) Structure of the solutions on a vector optimization problem. 91g:90132
- Đinh Thế Lạc An existence theorem in vector optimization. 91e:90093
- On three concepts of quasiconvexity in vector optimization. 91m:90141
- Contractibility of efficient point sets in normed spaces. 91f:90107
- Dong, Jia Li see Ding, Baoyan; et al., 91g:90132
- Dror, Moshe (with Gass, Saul I.) A case for interactive multiobjective linear programming (MOLP). 91k:90151
- Duca, Dorel I. see Stancu-Minasian, I. M.; et al., 91e:90101
- Dumitru, Vincențiu (with Luban, Florica) Monotone operators and Pareto invariance in multicriteria optimization. 91h:90089
- Durier, Roland On Pareto optima, the Fermat-Weber problem, and polyhedral gauges. 91c:90090
- Dyckla, O. A. Solution of a problem of selecting an optimal series with restrictions on the volume of production. 91h:90165
- Elster, Karl-Heinz (with Elster, Rosalind; Göpfert, Alfred) On approaches to duality theory in geometric vector optimization. 91f:90108
- Elster, Rosalind (with Gerth, Christiane; Göpfert, Alfred) Duality in geometric vector optimization. 91e:90094
- see also Elster, Karl-Heinz; et al., 91f:90108
- Erşavşer, A. Application of discrete mappings for a solution of multi-index problems in mathematical programming. (Russian) (Not in MR)
- Ferreira, P. A. Valente (with Geromel, J. C.) An interactive projection method for multicriteria optimization problems. 91c:90091
- see also Geromel, J. C., 91m:90142
- Fruhwith, B. see Ruhe, G., 91g:90137
- Fujii, Yasuo see Ichida, K., 91c:90092
- Gamkrelidze, L. Ch. (with Ostrokh, E. N.) A method of solving discrete problems of multicriteria optimization. 91j:90062
- Gass, Saul I. see Dror, Moshe, 91k:90151
- Geromel, J. C. (with Ferreira, P. A. Valente) An upper bound on properly efficient solutions in multiobjective optimization. 91m:90142
- see also Ferreira, P. A. Valente, 91c:90091
- Gerth, Christiane (with Weidner, Petra) Nonconvex separation theorems and some applications in vector optimization. 91k:90152
- see also Elster, Rosalind; et al., 91e:90094
- Göpfert, Alfred see Elster, Rosalind; et al., 91e:90094 and Elster, Karl-Heinz; et al., 91f:90108
- Guerras Martín, L. A. The analysis of resources in PERT projects via multicriteria programming. (Not in MR)
- Gulati, T. R. (with Islam, M. A.) Efficiency and proper efficiency in differentiable multiobjective programming. 91j:90063
- (with Islam, M. A.) Efficiency and proper efficiency in nonlinear vector maximum problems. 91g:90133
- Guminski, A. V. A min-max algorithm for linear multicriteria programming. (Russian and Polish summaries) 91d:90083
- Gyeván, Ferenc Duality for matrix maximum and vector maximum problems and its connections. (Hungarian. English summary) 91k:90153
- Helbig, Siegfried A scalarization for vector optimization problems in locally convex spaces. 91f:90109
- An algorithm for a vector optimization problem over a disjunctive feasible set. 91f:90110
- An interactive algorithm for nonlinear vector optimization. 91g:90134
- Henig, Mordechai I. Value functions, domination cones and proper efficiency in multicriteria optimization. 91e:90095
- Hu, Yu Da Theory and application of multiobjective optimization in China—a survey. (Not in MR)
- Majorized order classes of vector spaces. (Chinese) 91k:90154
- Huang, Zhi Min see Charnes, A.; et al., 91g:90131
- Ichida, K. (with Fujii, Yasuo) Multicriterion optimization using interval analysis. (German summary) 91c:90092
- Islam, M. A. see Gulati, T. R., 91g:90133 and 91j:90063
- Kolstad, C. D. (with Lasdon, L. S.) Derivative evaluation and computational experience with large bilevel mathematical programs. 91h:90166
- Kotarski, Wiesław On some specification of the Dubovickii-Milutin theorem for Pareto optimal problems. 91h:90167
- Ladenzon, A. B. (with Litvak, B. G.) The principle of ordered criteria in multicriteria estimates. 91h:90168
- Lai, Han Ch'ing (with Yang, Lien Hsiang) Strong duality for infinite-dimensional vector-valued programming problems. 91g:90135
- (with Liu, Cheng Ch'uan) A necessary and sufficient condition of convex multiobjective programming. 91h:90090
- Lasdon, L. S. see Kolstad, C. D., 91h:90166
- Levner, E. V. see Vladov, Sergei G., 91g:90138
- Ll, Duan Multiple objectives and nonseparability in stochastic dynamic programming. 91m:90143
- Liu, Lai Ch'ng Optimality of differentiable, vector-valued n -set functions. 91g:90136
- Lipfert, Wilfried Über sequentielle stochastische Entscheidungsmodelle mit vektorwertigen Ertragsfunktionalen. (English and Russian summaries) [On sequential stochastic decision models with vector-valued reward functionals] 91h:90155
- Litvak, B. G. see Ladenzon, A. B., 91h:90168
- Liu, Cheng Ch'uan see Lai, Han Ch'ing, 91h:90135
- Liu, Guang Zhong An interactive trade-off method for multi-objective programming problems. (Chinese. English summary) 91h:90091
- Liu, San Yang Wolfe duality in nonsmooth nonconvex multi-objective programming. (Chinese. English summary) (Not in MR)
- Sufficient conditions for solutions to nonsmooth nonconvex multi-objective programming problems. (Chinese. English summary) (Not in MR)
- Liu, Yi-Hsin see Damer, Jerald P., 91d:90082
- Loridan, Pierre (with Morgan, Jacqueline) Approximate solutions for two-level optimization problems. 91d:90084
- Luban, Florica see Dumitru, Vincențiu, 91h:90089
- Makishaka, N. K. Analysis of the efficiency of a coordinate-wise ascent algorithm for the chain problem. (Russian. English summary) 91j:90064

- Malivert, Christian First and second order optimality conditions in vector optimization. (French summary) 91f:90111
- Marcotte, Patrice (with Savard, Gilles) A note on the Pareto optimality of solutions to the linear bilevel programming problem. (Not in MR)
- Mond, B. see Chandra, Suresh; et al., 91h:90150
- Morgan, Jacqueline see Loridan, Pierre, 91d:90084
- Mukherjee, Rathindra Nath¹ (with Singh, Ashok Kumar¹) Multi-objective optimization involving nonconvex semi-differentiable functions. 91h:90169
- Nehse, R. Irwege in der Vektoroptimierung. [False paths in vector optimization] 91h:90092
- Ng, W.-Y. An interactive descriptive graphical approach to data analysis for trade-off decisions in multi-objective programming. (Not in MR)
- Nishida, Toshio see Stancu-Minasian, I. M.; et al., 91e:90101
- Nollau, Volker Some aspects of vector-valued stochastic dynamic programming. 91h:90093
- Novak, Jiří Generating all efficient vertices in multiple objective linear programs: comparative evaluation. (Czech summary) 91a:90143
- Oettli, Werner Note on Pareto optimality and duality for certain nonlinear systems. 91h:90094
- Oliva, P. see Caligaris, O., 91d:90079
- Ostrowski, E. N. see Gamkrelidze, L. Ch., 91j:90062
- Penot, Jean-Paul (with Sterna-Karwat, Alicia) Parametrized multicriteria optimization; order continuity of the marginal multifunctions. 91d:90085
- Petschke, Martin On a theorem of Arrow, Barankin, and Blackwell. 91e:90096
- Polishchuk, L. I. On a class of efficiency conditions. 91h:90095
- Postol, Costante Inclusion theorems for nonexplosive and strongly exposed cones in normed spaces. 91e:90097
- Poper, N. M. An algorithm for multicriterial optimization in an automated design system. (Russian) (see 91k:93005)
- Ravindran, A. see Shih, Wan S., 91m:90145 and (Not in MR)
- Reuter, Henry An approximation method for the efficiency set of multiobjective programming problems. 91m:90144
- Roy, Bernard Decision-aid and decision-making. 91e:90098
- Ruhe, G. (with Fruhwirth, B.) ϵ -optimality for bicriteria programs and its application to minimum cost flows. (German summary) 91g:90137
- Sakawa, Masatoshi Generalized hyperplane methods for generating A -extreme points and trade-off rates for multiobjective optimization problem. 91e:90093
- (with Yano, Hitoshi) A unified approach to multi-objective linear programming problems with fuzzy parameters. 91j:90065
- (with Yano, Hitoshi) Trade-off rates in the hyperplane method for multiobjective optimization problems. 91c:90094
- see also Yano, Hitoshi, 91h:90172
- Saleh, O. A. see Dasser, Jerald P., 91d:90081
- Samborskiĭ, S. N. (with Tarashchan, A. A.) Semirings that arise in multicriterial optimization problems and in problems of the analysis of computational media. 91e:90099
- Savard, Gilles see Marcotte, Patrice, (Not in MR)
- Schweiger, Dietmar Linear extensions and vector-valued spanning trees. (see 91f:90006)
- Shang, Shou Ting see Yang, Guang Wen, 91j:90069
- Shaposhnikov, D. E. see Batishchev, D. I., (91h:90084)
- Shih, Wan S. (with Ravindran, A.) Interactive multiple objective optimization: survey I—continuous case. (Not in MR)
- (with Ravindran, A.) An interactive method for multiple-objective mathematical programming problems. 91m:90145
- Singh, Ashok Kumar² see Mukherjee, Rathindra Nath¹, 91h:90169
- Singh, Chanchal Multiobjective programming strong vector duality. 91m:90146
- Skaliński, Andrzej M. J. Classification and properties of dominating points in vector optimization. 91h:90096
- Slowinski, Roman Interactive multi-objective optimization based on outranking and ordinal regression. 91j:90066
- Solanki, Rajendra S. (with Cohon, Jared L.) Approximating the noninferior set in linear biobjective programs using multiparametric decomposition. 91e:90100
- Stancu-Minasian, I. M. (with Duca, Dorel I.; Nishida, Toshio) Multiple objective linear fractional optimization in complex space. 91e:90101
- Sterna-Karwat, Alicia Convexity of the optimal multifunctions and its consequences in vector optimization. 91h:90170
- Approximating families of cones and proper efficiency in vector optimization. 91j:90067
- see also Penot, Jean-Paul, 91d:90085
- Tanino, Tetsuzo Stability and sensitivity analysis in multiobjective nonlinear programming. 91k:90156
- Tarashchan, A. A. see Samborskiĭ, S. N., 91e:90099
- Thierfelder, J. Trennungsaussagen und Pareto-Optimalität. [Separation theorems and Pareto optimality] 91h:90051
- Vladut, Sergei G. (with Levner, E. V.) Duality relationships in multicriterial problems of mathematical programming. 91g:90138
- Vogel, S. Zur Stabilität von Vektoroptimierungsproblemen. [On the stability of vector optimization problems] 91h:90097
- Wang, Chung-Lie see Ding, Baoyan; et al., 91g:90132
- Wang, Shou Yang Algorithms for multiobjective and nonsmooth optimization. 91g:90139
- (with Yang, F. M.) A gap between multiobjective optimization and scalar optimization. (Not in MR)
- Wei, Quan Ling see Charnes, A.; et al., 91g:90131
- Weidner, Petra An approach to different scalarizations in vector optimization. 91j:90068
- see also Gerth, Christiane, 91h:90152
- Weir, T. On efficiency, proper efficiency and duality in multiobjective programming. 91m:90147
- White, Douglas John Least elements revisited. 91h:90171
- The maximal dispersion problem and the "first point outside the neighbourhood" heuristic. 91h:90098
- Yang, F. M. see Wang, Shou Yang, (Not in MR)
- Yang, Guang Wen (with Shang, Shou Ting) Conjugate duality in multi-objective programming. (Chinese. English summary) 91j:90069
- Yang, Jian Bo (with Chen, Chen; Zhang, Zhong Jun) The interactive step trade-off method (ISTM) for multiobjective optimization. 91f:90112
- Yang, Lien Hsiang see Lai, Han Ch'ing, 91g:90135
- Yang, Xiao Qi see Chen, Guang Ya, 91m:90140
- Yannacopoulos, D. see Despotis, D. K., (Not in MR)
- Yano, Hitoshi (with Sakawa, Masatoshi) Interactive fuzzy decision making for generalized multiobjective linear fractional programming problems with fuzzy parameters. 91h:90172
- see also Sakawa, Masatoshi, 91c:90094 and 91j:90065
- Yu, P. L. see Chien, I. S.; et al., 91c:90089
- Zălinescu, Constantin On two notions of proper efficiency. 91d:90086
- Zhang, Dazhi see Chien, I. S.; et al., 91c:90089
- Zhang, Yu Ming A condition for uniqueness of efficient solutions. (Chinese) 91h:90052
- Zhang, Zhong Jun see Yang, Jian Bo; et al., 91f:90112
- Zheng, Han Ding A programming problem with time coefficients on an n -dimensional complex. (Chinese. English summary) (Not in MR)
- Zionts, Stanley Multiple criteria mathematical programming: an updated overview and several approaches. 91e:90102
- Zuhri, J. Scalarization of vector optimization problems via generalized Chebyshev norm. (see 91h:93003)
- Items with secondary classifications in 90C29
- van den Aarsen, J. C. M. see Borm, P. E. M.; et al., 91f:90145
- Alutina, E. F. see Gorelik, V. A., 91m:49026
- Argerinos, Evgenios P. (with Papageorgiou, Nikolaos S.) Pareto optimality for nonlinear infinite-dimensional control systems. 91d:49015
- Bendjilali, Boualem On the stability of a retarded functional-differential equation Edgeworth process. 91g:90040
- Bogetoft, Peter (with Tind, Jørgen) Dual decomposition schemes for multicriteria decision making. 91j:90045
- Borm, P. E. M. (with Tijs, Stef H.; van den Aarsen, J. C. M.) Pareto equilibria in multiobjective games. 91f:90145
- Buckley, James J. Multiobjective possibilistic linear programming. 91d:90103
- Chen, Ting see Wang, Shou Ning, (Not in MR)
- Delgado, M. (with Verdegay, J. L.; Vila, M. A.) Relating different approaches to solve linear programming problems with imprecise costs. 91f:90075
- Dinh Thé Luc Recession cones and the domination property in vector optimization. 91h:46012
- Ghose, D. A necessary and sufficient condition for Pareto-optimal security strategies in multicriteria matrix games. 91m:90199
- Godlevskii, M. D. An algorithm for correcting contradictory models of multicriterial problems of planning the development of large technical and economic systems. 91g:90098
- Gorelik, V. A. (with Alutina, E. F.) Discrete dynamic multicriterial problems. (Russian) 91m:49026
- Haimes, Yacov Y. see Li, Duan, 91b:90205
- Huynh, Huu-Nhon (with Kumar, Santosh¹) A random search method for extreme point mathematical programming. (Not in MR)
- Karwan, Mark H. see Ramesh, R.; et al., 91g:90111
- Korhonen, Pekka J. (with Wallenius, Jyrki) A careful look at efficiency and utility in multiple criteria decision making: a tutorial. 91g:90090
- Kumar, Santosh¹ see Huynh, Huu-Nhon, (Not in MR)
- Kuz'michev, A. S. Numerical models with several quality criteria. (Russian) (see 91h:90004)
- Lepp, Riho Approximations to stochastic programs with complete recourse. 91b:90146
- Li, Duan On the minimax solution of multiple linear-quadratic problems. 91f:49040
- (with Haimes, Yacov Y.) New approach for nonseparable dynamic programming problems. 91b:90205
- Li, Ren Hao The shortest path in the 2-norm sense in a network with weighted vectors. (Chinese. English summary) 91g:90028
- Liu, San Yang (with You, Zhao Yong) Proper efficient solutions to nonsmooth nonconvex vector extreme value problems. (Chinese. English summary) 91f:65114
- Minchenko, L. I. Subdifferentials of marginal functions of multivalued mappings. (Russian. English summary) 91d:49018
- Morgan, Jacqueline Constrained well-posed two-level optimization problems. 91h:90220
- Papageorgiou, Nikolaos S. see Argerinos, Evgenios P., 91d:49015
- Peters, H. J. M. (with van der Stel, H.) A class of solutions for multiperson multicriteria decision making. (German summary) 91j:90046
- Phan Quốc Khánh Multicriterial optimization. (Polish. English summary) 91f:90003
- Postolka, Vasilie Existence conditions of efficient points for multifunctions with values in locally convex spaces. 91h:90216
- Ramesh, R. (with Karwan, Mark H.; Zionts, Stanley) An interactive method for bicriteria integer programming. 91g:90111
- Rustem, Berc The diagonalizability of quadratic functions and the arbitrariness of shadow prices. (Not in MR)
- Sakawa, Masatoshi (with Yano, Hitoshi) Multiobjective fuzzy linear regression analysis and its application. (Not in MR)
- van der Stel, H. see Peters, H. J. M., 91j:90046
- Sterna-Karwat, Alicia On a structure of preorder relations on a topological space. 91e:54085
- Sui, Shu Lin Necessary and sufficient conditions for optimal solutions to posynomial geometric programming problems containing parameters. (Chinese) 91b:90192
- Taras'ev, A. M. The function of an optimal guaranteed result of control problems with a vector criterion. (Russian summary) 91h:90222
- Tijs, Stef H. see Borm, P. E. M.; et al., 91h:90145
- Tind, Jørgen see Bogetoft, Peter, 91j:90045
- Tran Quoc Chien Perturbation theory of duality in vector nonconvex optimization via the abstract duality scheme. 91h:90157
- Unguryana, M. M. A search for Pareto-optimal estimates in an integer problem of bicriterial linear optimization. (Russian) 91c:90076
- Verdegay, J. L. see Delgado, M.; et al., 91f:90075
- Vila, M. A. see Delgado, M.; et al., 91f:90075

Wallenius, Jyrki *see* Korhonen, Pekka J., 91g:90090

Wang, Sha Ning (with Chen, Ting) Parameter estimator suitable for some bad samples. (Not in MR) 91g:90081

Wanka, Gert Dualität beim skalaren und vektoriellen Standortproblem. (English and Russian summaries) [Duality in the scalar and vector location problem] 91g:90081

Weir, T. Symmetric dual multiobjective fractional programming. 91m:90174

Xaba, A. B. Equilibrium point optimality for the Noy-Meir grazing model. (Not in MR)

Yano, Hitoshi *see* Sakawa, Masatoshi, (Not in MR)

Yon, Zhao Yong *see* Liu, San Yang, 91j:65114

Zeleny, Milan De novo programming. (Czech summary) (Not in MR)

Zharkynbaev, S. On a problem of vector optimization with time delay. (Russian)

91c:49030

Zionts, Stanley *see* Ramesh, R.; et al., 91g:90111

90C30 Nonlinear programming

Agayan, G. M. (with Ryutin, A. A.; Timofeeva, I. Yu.) On a mathematical programming problem with approximately given information. (Russian) 91b:90173

Aggarwal, Avnish (with Floudas, Christodoulos A.) A decomposition approach for global optimum search in QP, NLP and MINLP problems. 91m:90148

Agrachev, A. A. One more condition for a conditional extremum. 91c:90095

Ahn, Hyunsil *see* Kim, Seun, 91j:90077 and 91k:90170

Antonyuk, A. A. (with Danilin, Yu. M.) Secant-type methods in minimization problems. (Russian) 91a:90144

— *see also* Mikhalevich, V. S.; et al., 91k:90175

Apitzsch, W. (with Fritzsche, Bernd; Kirstein, Bernd) A Schur analysis approach to minimum distance problems. 91m:90149

Aschmuty, Giles Duality algorithms for smooth unconstrained optimization. 91g:90140

Barceló, Jaime (with Fernández, Eduardo) Heuristics, cutting planes and subgradient optimization for set partitioning problems. (Spanish) 91c:90103

Bard, Jonathan F. Some properties of the bilevel programming problem. (Not in MR)

— *see also* Edmunds, Thomas A., (Not in MR)

Bawa, N. P. S. *see* Shukla, D. P., 91g:90158

Bayalov, E. B. On a system of three interrelated mathematical programming problems. (Russian) 91c:90104

Beattie, C. A. (with Boisen, M. B., Jr.; Johnson, L. W.) Inertia-preserving secant updates. 91a:90145

— (with Boisen, M. B., Jr.; Johnson, L. W.) Errata corrigé: "Inertia-preserving secant updates" [J. Optim. Theory Appl. 62 (1989), no. 1, 1–16; MR 91a:90145]. (Not in MR)

Benčekroun, Bahia (with Falk, James E.) A nonconvex piecewise linear optimization problem. (Not in MR)

Benson, Harold P. Separable concave minimization via partial outer approximation and branch and bound. 91j:90070

Ben-Tal, Aharon (with Meiman, A.; Zowe, Jochem) Curved search methods for unconstrained optimization. 91i:90053

Berezovskii, O. A. *see* Shor, N. Z., 91a:90151

Bertocchi, Maria Parallel optimization. (Russian and Polish summaries) 91m:90150

Bin Mohd, Ismail Unconstrained global optimization using strict complementary slackness. 91c:90105

Boichuk, L. M. (with Shkvarun, N. M.) A combined (deterministic-evolutional) method of optimization in the presence of constraints by "compressing" a bundle of trajectories of motion toward an extremum. 91i:90054

Boisen, M. B., Jr. *see* Beattie, C. A.; et al., 91a:90145 and (Not in MR)

Bomze, Immanuel M. Copositivity and optimization. 91g:90141

Bonnans, Joseph Frédéric Local study of Newton type algorithms for constrained problems. 91g:90142

— Asymptotic admissibility of the unit stepsize in exact penalty methods. 91b:90174

— Théorie de la pénalisation exacte. (English summary) [The theory of exact penalty] 91i:90055

Borzsák, P. *see* Rapcsák, Tamás, 91i:90066

Bromberg, Matt (with Chang, Tsu Shuan) A function imbedding technique for a class of global optimization problems: one-dimensional global optimization. 91f:90113

Burkard, Rainer E. *see* Fruehwirth, B.; et al., 91c:90107

Burke, James V. (with Moré, Jorge J.; Toraldo, Gerardo) Convergence properties of trust region methods for linear and convex constraints. 91f:90114

Caron, R. J. (with McDonald, James Frederick; Ponc, C. M.) A degenerate extreme point strategy for the classification of linear constraints as redundant or necessary. 91a:90146

Chandra, Suresh (with Dixon, L. C. W.) Benders' decomposition for the constrained l_1 -problem. 91m:90151

Chandrasekaran, R. (with Tamir, Arie) Algebraic optimization: the Fermat-Weber location problem. 91k:90157

Chang, Tsu Shuan *see* Bromberg, Matt, 91f:90113 and Tang, Jianxin; et al., 91g:90159

Chen, Guang Jun Algorithmic models for nonlinearly constrained extremal problems. (Chinese. English summary) 91i:90056

— A gradient projection algorithm constructed by generating functions. (Chinese. English summary) (Not in MR)

Chen, Ji An elementary proof of a theorem on unit fractions. (Chinese. English summary) 91i:90057

Cherrault, Y. A new method for global optimisation (Alienor). 91g:90143

Cho, Seong-Chul *see* Kim, Seun; et al., 91k:90170

Choi, Seung-Chan *see* Harker, Patrick T., 91k:90166

Chu, Lian Yuan *see* Wang, Cui Lan, 91m:90165

Colmenares, William *see* García Palomares, Ubaldo M., (Not in MR)

Conn, Andrew R. (with Gould, Nicholas I. M.; Toint, Philippe L.) A globally convergent augmented Lagrangian algorithm for optimization with general constraints and simple bounds. 91k:90158

Coope, Ian D. A conjugate direction implementation of the BFGS algorithm with automatic scaling. 91b:90175

Corana, A. (with Marchesi, M.; Martini, C.; Ridella, S.) Corrigenda: "Minimizing multimodal functions of continuous variables with the 'simulated annealing' algorithm"

[ACM Trans. Math. Software 13 (1987), no. 3, 262–280; MR 88m:90121]. (Not in MR)

Csendes, Tibor Interval method for bounding level sets: revisited and tested with global optimization problems. 91k:90159

Danilin, Yu. M. *see* Antonyuk, A. A., 91a:90144

Davidon, William C. Variable metric method for minimization. 91k:90160

Darydov, E. G. Solution of some classes of multiple minimax problems. (Russian)

91g:90144

De Luca, Marino (with Maugeri, Antonino) Quasi-variational inequalities and applications to the traffic equilibrium problem; discussion of a paradox. 91c:90106

Denisov, D. V. Necessary conditions for an extremum in problems in mathematical programming. (Russian) 91g:90145

— Application of local coordinates in optimization problems. 91b:90176

Dennis, J. E., Jr. (with Martínez, Héctor J.; Tapia, Richard) Convergence theory for the structured BFGS secant method with an application to nonlinear least squares. 91b:90177

Di Pillo, G. (with Grippo, L.) Exact penalty functions in constrained optimization. 91d:90087

Dixon, L. C. W. (with Maany, Z.; Mohseninia, M.) Automatic differentiation of large sparse systems. (Not in MR)

— *see also* Chandra, Suresh, 91m:90151

Dodu, J. C. (with Huard, P.) Méthodes de quasi-Newton sous contraintes non linéaires: algorithmes à convergence locale superlinéaire. II. Convergence en x seul. (English summary) [Quasi-Newton methods in the nonlinearly constrained case: locally and superlinearly convergent algorithms. II. Convergence of the quadratic program solution itself] 91i:90058

Doedel, Eusebius J. *see* Kerner, J.-P.; et al., 91j:90076

Dora, C. C. Y. Stopping rules for a random optimization method. 91b:90178

Du, Ding Zhu (with Zhang, Xiang Sun) Global convergence of Rosen's gradient projection method. 91b:90179

— (with Wu, Fang; Zhang, Xiang Sun) On Rosen's gradient projection methods. 91i:90059

Dudov, S. I. Necessary conditions for the maximum of the function of the difference of arguments. (Russian) (see 91j:90017)

Edmunds, Thomas A. (with Bard, Jonathan F.) Algorithms for nonlinear bilevel mathematical programs. (Not in MR)

Egorushkin, A. A. (with Zyabrev, N. B.) Solution of one-product problems of nonlinear programming with common constraints. 91d:90088

El-Alem, Mahmood A global convergence theory for the Celis-Dennis-Tapia trust-region algorithm for constrained optimization. 91k:90161

El-Gindy, T. M. (with Salim, M. S.) Penalty function with partial quadratic interpolation technique in the constrained optimization problems. (Not in MR)

Emami-Naeini, Abbas *see* Khraishi, Nasser M., 91g:90152

Engels, John R. (with Martínez, Héctor J.) Local and superlinear convergence for partially known quasi-Newton methods. 91k:90162

Eskov, Elizabeth *see* Smith, Sharon L.; et al., 91k:90184

Evtushenko, Yu. G. (with Zhadan, V. G.) Exact auxiliary functions in optimization problems. 91f:90115

Falk, James E. *see* Benčekroun, Bahia, (Not in MR)

Feng, Jun Wen (H, Ω) duality theory for nonlinear programming. (Chinese. English summary) 91m:90152

Fernández, Eduardo *see* Barceló, Jaime, 91c:90103

Fiacco, Anthony V. (with McCormick, Garth P.) ★ Nonlinear programming. 91d:90089

— Perturbed variations of penalty function methods. Example: projective SUMT. 91m:90153

Fikm, Sjur D. A continuous path to convex feasibility. (see 91k:90010)

Fletcher, Roger A new variational result for quasi-Newton formulae. 91k:90163

Floudas, Christodoulos A. (with Pardalos, Panos M.) ★ A collection of test problems for constrained global optimization algorithms. 91m:90154

— *see also* Aggarwal, Avnish, 91m:90148

Fritzsche, Bernd *see* Apitzsch, W.; et al., 91m:90149

Fruehwirth, B. (with Burkard, Rainer E.; Rote, Günter) Approximation of convex curves with application to the bicriterial minimum cost flow problem. 91c:90107

Fülöp, János On a special nonconvex programming problem. (Hungarian. English summary) 91k:90164

Furukawa, Toshihiro (with Kubota, Hajime; Tsujii, Shigeo) A fast block adaptive algorithm and its performance. (Not in MR)

Gabaso, R. F. (with Kirillova, F. M.; Prishchepova, S. V.) A modular problem of piecewise-linear programming. (Russian. English summary) 91j:90071

Galperin, Elia A. The non-Lipschitzian cubic algorithm. 91g:90146

Gao, Zi You (with Wang, Wei) An improved feasible direction method for nonlinear programming. (Chinese. English summary) 91i:90060

— (with Lu, Xin Ming) Comment: "Sufficient conditions for the convergence of a variable metric algorithm" [in *Optimization* (Keele, 1968), 273–281, Academic Press, London, 1969; MR 44:5107] by D. Goldfarb. (Chinese. English summary) 91j:90072

— *see also* Zeng, Qing Guang; et al., 91k:90190

García Palomares, Ubaldo M. (with Colmenares, William) On the minimization of a quasi-concave function subject to linear constraints. (Not in MR)

Gasparyan, M. S. (with Nersisyan, G. Sh.) A truncated method for unconditional minimization. (Russian. English and Armenian summaries) 91k:90165

Gaudioso, Manlio (with Monaco, Maria Flavia) Some techniques for finding the search direction in nonsmooth minimization problems. 91c:90096

Gauvin, Jacques Directional derivative for the value function in mathematical programming. 91c:90108

Ge, Ren Pu (with Huang, Chang Bin) A continuous approach to nonlinear integer programming. 91c:90097

— (with Qin, Yong Feng) The globally convexified filled functions for global optimization. 91f:90117

— The filled function transformations for constrained global optimization. 91j:90073

— A filled function method for finding a global minimizer of a function of several variables. 91f:90116

Gelman, E. (with Mandel, Jan) On multilevel iterative methods for optimization problems. 91b:90180

- Giannessi, F. (with Pappalardo, Massimo; Pellegrini, L.) Necessary optimality conditions via image problem. **91c:90096**
- Glunt, W. (with Hayden, T. L.; Hong, Sangki; Wells, Jim) An alternating projection algorithm for computing the nearest Euclidean distance matrix. **91j:90074**
- Godonoga, A. F. (with Ursu, B. P.) A scheme for solving discrete minimax problems with successive choice of functions. (Russian) **91i:90061**
- (Goldfarb, Donald) *see* Gao, Zi You, **91j:90072**
- Golub, B. M. *see* Shcherbina, Yu. N., **91c:90105**
- Gomes, Hermínio Simões (with Martínez, José Mario) A numerically stable reduced-gradient type algorithm for solving large-scale linearly constrained minimization problems. **91g:90147**
- Gong, Jin Shuang *see* Li, Zong Yuan, **91j:90080** and **91k:90173**
- Gorodetskiĭ, S. Yu. A method of searching for a conditional global minimum that is based on simple probability models of a minimizable function and functions of constraints. (Russian) **91h:90099**
- Gould, Nicholas I. M. *see* Conn, Andrew R.; et al., **91k:90158**
- Grippo, L. *see* Di Pillo, G., **91d:90087**
- Gu, Hong Zhong A local minimization method for DC programming. (Chinese) (Not in MR)
- Gulati, T. R. (with Talaat, Nadia) Sufficiency in nonlinear programming: a unified theorem. **91k:90181**
- Guo, Jian¹ *see* Tang, Huan Wen; et al., **91i:90068**
- Hager, William W. Dual techniques for constrained optimization. II. **91h:90182**
- Halmes, Yacov Y. *see* Li, Duan, **91j:90079**
- Hamala, Milan A general approach to interior point transformation methods for mathematical programming. (Russian and Slovak summaries) **91j:90075**
- Han, Ji Ye (with Hu, Xiao Dong; Liu, Jin) A unified approach to the feasible point method type for nonlinear programming with linear constraints under degeneracy and the convergence properties. **91m:90155**
- Han, Wen Xiu (with Ma, Su Feng) A fuzzy goal programming method and its application. (Chinese. English summary) (Not in MR)
- Handschuh, Michael Notwendige Optimalitätsbedingungen für nichtglatte Optimierungsaufgaben und Anwendung auf Steuerprobleme. (English and Russian summaries) [Necessary conditions for optimality for nonsmooth optimization problems and application to control problems] **91c:90109**
- Harker, Patrick T. (with Choi, Seung-Chan) A penalty function approach for mathematical programs with variational inequality constraints. **91k:90166**
- Hayden, T. L. *see* Glunt, W.; et al., **91j:90074**
- He, Guang Zong Rosen's gradient projection with discrete steps. **91c:90110**
- He, Guo Ping *see* Lai, Yan Lian, **91k:90171** and Zeng, Qing Guang; et al., **91k:90190**
- Heinecke, Gabriele (with Oettli, Werner) A nonlinear theorem of the alternative without regularity assumption. **91g:90148**
- Helbig, Siegfried Optimality criteria in disjunctive optimization and some applications. **91g:90149**
- Hennicke, R. Ein Trust-Region-Algorithmus für Optimierungsprobleme mit Gleichungs- und Ungleichungsrestriktionen. [A trust-region algorithm for optimization problems with restrictions on equations and inequalities] (Not in MR)
- Higgins, J. E. (with Polak, Elijah) Minimizing pseudococonvex functions on convex compact sets. **91k:90167**
- Hilliard, Michael R. *see* Liepins, Gunar E.; et al., **(91h:68014)**
- Hoang Tuy *see* Phan Thien Thach, **91f:90124**
- Homburg, Christian A note on step size alteration in subgradient optimization. (*see* **91f:90065**)
- Hong, Sangki *see* Glunt, W.; et al., **91j:90074**
- Horst, Reinier Deterministic methods in constrained global optimization: some recent advances and new fields of application. **91k:90168**
- Hu, Hai A one-phase algorithm for semi-infinite linear programming. **91d:90090**
- Hu, Xiao Dong A note on the space dilation algorithm. (Chinese) (Not in MR)
- *see also* Han, Ji Ye; et al., **91m:90155**
- Hu, Xin Sheng (with Tang, Huan Wen) Kuhn-Tucker sufficient conditions for a class of nondifferentiable programming problems. (Chinese. English summary) **91h:90183**
- Huang, Chang Bin *see* Ge, Ren Pu, **91j:90097**
- Huang, Ch'i Jui (with Sheu, Shuenn Jyi) On the weak reversibility condition in simulated annealing. **91c:90111**
- Huang, Ji Qing The exact penalty function method for non-Lipschitz programming. (Chinese) (Not in MR)
- Huang, Zhen Jie The Kuhn-Tucker optimality conditions under linear constraints. (Chinese) **91h:90190**
- Huang, Zhi Jian *see* Zhang, Lian Sheng, **91a:90153**
- Huard, P. *see* Dodu, J. C., **91i:90058**
- Huth, Martin (with Tichatschke, Rainer) A hybrid method for semi-infinite programming problems. **91g:90150**
- Ito, Kazufumi (with Kunisch, Karl) The augmented Lagrangian method for equality and inequality constraints in Hilbert spaces. **91i:90062**
- Ishutkin, V. S. (with Kokurin, M. Yu.) Reduced gradient methods with feasible points for solving the nonlinear programming problem. **91c:90099**
- Janin, Robert (with Mado, J. C.; Narayanasamy, J.) Second order multipliers and marginal function in nonlinear programs. **91k:90169**
- Jefferson, Thomas R. *see* Scott, Carlton, **91g:90157**
- Jennings, L. S. (with Teo, Kok Lay) A computational algorithm for functional inequality constrained optimization problems. **91g:90151**
- Jiang, Ye *see* Tang, Huan Wen; et al., **91i:90068**
- Jin, Yue Feng *see* Zhang, Hua Xiao, **91f:90128**
- Johnson, L. W. *see* Beattie, C. A.; et al., **91a:90145** and (Not in MR)
- Jonil, Elyes Functions with constant generalized gradients. **91c:90100**
- Jovanović, Milan V. Strong quasiconvexity of a norm and linear functions. (Serbo-Croatian summary) **91m:90156**
- Jovanović, Mirko S. Some inequalities for strong quasiconvex functions. (Serbo-Croatian summary) **91f:90118**
- Karstner, V. G. *see* Vasil'ev, S. N., **(91j:90008)**
- Kassay, G. (with Kolmán, L.) On the constrained optimization. **91d:90091**
- Kaul, R. N. (with Lyall, Vinod) Erratum: "Nonconvex and semi-differentiable functions" [Indian J. Pure Appl. Math. **19** (1988), no. 12, 1167-1179; MR **89m:90141**]. (Not in MR)
- Kernévez, J.-P. (with Liu, Yu²; Seane, M. L.; Doedel, Eusebius J.) Optimization by continuation. **91j:90076**
- Khilenko, V. V. Solution of multidimensional ravine problems of optimization on the basis of decomposition. (Russian. English summary) (Not in MR)
- Khraisli, Nasser M. (with Emami-Naeini, Abbas) A characterization of optimal scaling for structured singular value computation. **91g:90152**
- Kim, Do Sang Pseudo-invertibility in mathematical programming. **91h:90184**
- Kim, Sehun (with Ahn, Hyunsil; Cho, Seong-Cheol) Variable target value subgradient method. **91k:90170**
- (with Ahn, Hyunsil) Convergence properties of the modified subgradient method of Camerini et al. **91j:90077**
- Kinard, L. A. *see* Kostreva, M. M., **91m:90157**
- Kirilova, F. M. *see* Gabasov, R. F.; et al., **91j:90071**
- Kirstein, Bernd *see* Aplitzsch, W.; et al., **91m:90149**
- Kiwiel, Krzysztof C. ★ Niektóre metody obliczeniowe optymalizacji nieróżniczkowalnej. (Polish) [Some computation methods for nondifferentiable optimization] **91f:90119**
- Kjellström, G. Useful Monte Carlo optimization. (Not in MR)
- Klafusky, Emil (with Mayer, János; Terlaky, Tamás) A new convergent algorithm for the continuous modular design problem. (Arabic summary) **91h:90101**
- Knyazev, E. A. The method of centers with adaptation of parameters on the basis of steepest descent. (Russian) **91i:90063**
- Kokarin, M. Yu. *see* Ishutkin, V. S., **91c:90099**
- Kolmán, L. *see* Kassay, G., **91d:90091**
- Konolát, S. On a possible generalization of Pshenichnyi's quasidifferentiability. **91h:90185**
- Kenno, I. V. Application of the method of successive relaxation to the solution of extremal problems with semismooth functions. (Russian) **91i:90064**
- Kononov, V. A. A problem on the optimal search for extrema. (Russian) (*see* **91j:90017**)
- Konurbayev, E. M. *see* Konurbayev, B. M.; et al., (Not in MR)
- Konurbayev, B. M. (with Konurbayev, E. M.; Kurbanov, A. T.) An algorithm for solving an optimization problem with a multiplicative objective function and with linear constraints. (Russian. Kazakh summary) (Not in MR)
- Körner, Frank Remarks on the Newton method for solving nonlinear equality constrained optimization problems. (French summary) **91g:90153**
- Kostreva, M. M. (with Kinard, L. A.) A differentiable homotopy approach for solving polynomial optimization problems and noncooperative games. **91m:90157**
- Kozlov, M. A. Solution of a nonlinear programming problem by the method of Ψ -transformations. (Russian. English and Georgian summaries) (Not in MR)
- Krysov, Ya. A. The use of aggregation for constructing a class of nonlocal approximations of an optimum function. **91g:90154**
- *see also* Ven, V. L., **91i:90069**
- Kubota, Hajime *see* Furukawa, Toshihiro; et al., (Not in MR)
- Kucis, Anna (with Nowak, Andrzej S.) Relations among some classes of functions in mathematical programming. (Not in MR)
- Kunisch, Karl *see* Ito, Kazufumi, **91i:90062**
- Kurbanov, A. T. *see* Konurbayev, B. M.; et al., (Not in MR)
- Lai, Yan Lian An algorithm for nonlinear programming using a combination of the normal direction and the gradient direction, and its convergence. (Chinese. English summary) **91h:90186**
- (with He, Guo Ping) A constrained variable metric algorithm for second-order corrections. (Chinese. English summary) **91k:90171**
- Lemaire, Bernard (with Lemaire-Misonne, Catherine) An optimization problem with a piecewise linear objective and conditional threshold constraints. Solution by partitioning. **91a:90147**
- Lemaire-Misonne, Catherine *see* Lemaire, Bernard, **91a:90147**
- Leyden, Dennis Patrick Modified quadratic hill-climbing with SAS/IML. **91k:90172**
- Li, Bao Xiu (with Shen, Yu) A generalized Kuhn-Tucker condition for nonlinear programming problems. (Chinese. English summary) **91j:90078**
- Li, Duan (with Halmes, Yacov Y.) Multilevel methodology for a class of nonseparable optimization problems. **91j:90079**
- Li, Xing Si Applications of entropy of information in optimization problems. (Chinese) (Not in MR)
- Li, Zong Yuan (with Gong, Jin Shuang) A perturbed successive quadratic programming algorithm and its convergence. (Chinese. English summary) **91j:90080**
- (with Gong, Jin Shuang) An algorithm for successive quadratic programming with perturbations and its global convergence. (Chinese. English summary) **91k:90173**
- Liepins, Gunar E. (with Hilliard, Michael R.; Richardson, John M.; Palmer, Mark) Genetic algorithms applications to set covering and traveling salesman problems. (*see* **91h:68014**)
- Liu, Ts'ung Wu Well-behaved penalty functions for constrained optimization. (Chinese summary) **91g:90155**
- Litvincher, I. S. Decomposition in extremal problems with special structure. (Russian) **91j:90081**
- Liu, Jin *see* Han, Ji Ye; et al., **91m:90155**
- Liu, Yu³ *see* Kernévez, J.-P.; et al., **91j:90076**
- Lozovann, D. D. A method for solving problems of piecewise-linear concave programming that uses embedding properties of polyhedral sets. (Russian) **91k:90174**
- Lu, Xia Ming *see* Gao, Zi You, **91j:90072**
- Luderer, Bernd (with Rösiger, Roland) On Shapiro's results in quasidifferential calculus. **91e:90120**
- Luh, Peter B. *see* Tang, Jianxin; et al., **91g:90159**
- Lundberg, Bruce N. (with Poore, Aubrey B.; Yang, Bing) Smooth penalty functions and continuation methods for constrained optimization. **91j:90082**
- Lutze, F. H. *see* Vasudevan, G.; et al., (Not in MR)
- Lyall, Vinod *see* Kaul, R. N., (Not in MR)
- Ma, Su Feng *see* Han, Wen Xiu, (Not in MR)
- Maany, Z. *see* Dixon, L. C. W.; et al., (Not in MR)
- Mado, J. C. *see* Janin, Robert; et al., **91k:90169**
- Makamskas, Al'girdas *see* Žilinskas, Antanas, **91k:90195**

- Makler, A. Yu. *see* Zavriev, S. K., 91g:93005
- Mandel, Jan. *see* Gelman, E., 91h:90180
- Marchesi, M. *see* Corana, A.; et al., (Not in MR)
- Martínez, Héctor J. *see* Dennis, J. E., Jr.; et al., 91b:90177 and Engels, John R., 91k:90162
- Martínez, José Mario *see* Gomes, Hermínio Simões, 91g:90147
- Martini, C. *see* Corana, A.; et al., (Not in MR)
- Maugeri, Antonino *see* De Luca, Marino, 91e:90106
- Mayer, János *see* Klafszky, Emil; et al., 91h:90101
- Mazurov, V. D. Duality in discriminant analysis. (Russian) 91g:90156
- McCormick, Garth P. *see* Fiacco, Anthony V., 91d:90089
- McDonald, James Frederick *see* Caron, R. J.; et al., 91a:90146
- Melman, A. *see* Ben-Tal, Aharon; et al., 91i:90053
- Mikhalevich, V. S. (with Redkovskii, N. N.; Antonyuk, A. A.; Perekatov, A. E.) Nonconvex approximations in unconditional minimization. 91k:90175
- Mockus, Adria (with Mockus, Linas) Structure of an interactive optimization system. (Russian. English and Lithuanian summaries) 91m:90158
- Mockus, Linas A global optimization method for an arbitrary domain. (Russian. English and Lithuanian summaries) 91k:90176
- *see also* Mockus, Adria, 91m:90158
- Mohseninia, M. *see* Dixon, L. C. W.; et al., (Not in MR)
- Monaco, Maria Flavia *see* Gaudioso, Manlio, 91c:90096
- Moná, B. (with Smart, I.) Duality with inexact for a class of nondifferentiable static and continuous programming problems. 91a:90148
- Moore, Ramon E. Global optimization to prescribed accuracy. 91m:90159
- More, Jorge J. On the performance of algorithms for large-scale bound constrained problems. 91m:90160
- *see also* Burke, James V.; et al., 91f:90114
- Narayanansamy, J. *see* Janin, Robert; et al., 91k:90169
- Nash, Stephen G. (with Sofer, Ariela) Assessing a search direction within a truncated-Newton method. 91f:90121
- Nefedov, V. N. A mathematical programming problem with a convex nonregular set of possible solutions. (Russian) 91j:90083
- Nekrutkin, V. V. (with Tikhomirov, A. S.) Some properties of a global Markov random search. 91c:90101
- Nersisyan, G. Sh. *see* Gasparyan, M. S., 91k:90165
- Nguyen, V. Hien *see* Xia, Zuo Quan; et al., 91c:90106
- Nguyen Van Thoi On a class of global optimization problems. 91f:90122
- Nin, Jia Ji (with Zhang, Xiang Sun) Some discussions on introducing combinatorial properties into nonlinear programming problems. (Chinese. English summary) (Not in MR)
- A method for finding the global extremum and the extreme point. (Chinese. English summary) (Not in MR)
- Nocedal, Jorge The performance of several algorithms for large scale unconstrained optimization. 91k:90183
- Noda, Tatsuo A modification of the gradient method and function extremization. 91a:90149
- Nomakuchi, Kentaro A sufficient condition for obtaining solutions of a maximizing problem by a projection. 91k:90177
- Nowak, Andrzej S. *see* Kucia, Anna, (Not in MR)
- Nurminskii, E. A. Extremal problems and mathematical modeling. (Russian) (*see* 91m:90005)
- Oettli, Werner *see* Heinecke, Gabriele, 91g:90148
- Osborne, M. R. (with Womersley, R. S.) Strong uniqueness in sequential linear programming. 91k:90178
- Otero Pereira, Juan Manuel Zwei Trajektorienverfahren zur Lösung nichtlinearer Optimierungsaufgaben. (English summary) [Two trajectory methods for the solution of nonlinear optimization problems] 91i:90065
- Outrata, Jiří V. On necessary optimality conditions in a class of optimization problems. (Russian and Czech summaries) 91e:90112
- Pak, Yong Il A method for solving nonlinear programming problems. (Korean. English summary) (Not in MR)
- Palmer, Mark *see* Liepins, Gunar E.; et al., (91h:68014)
- Pan, Ching-Tsuan A vector majorization method for solving a nonlinear programming problem. 91h:90187
- Pang, Ying Some properties of a class of variable metric algorithms. (Chinese) (Not in MR)
- Pappalardo, Massimo *see* Giannessi, F.; et al., 91c:90098
- Pardalos, Panos M. Polynomial time algorithms for some classes of constrained nonconvex quadratic problems. 91k:90179
- *see also* Floudas, Christodoulos A., 91m:90154
- Pellegrini, L. *see* Giannessi, F.; et al., 91c:90098
- Perekatov, A. E. *see* Mikhalevich, V. S.; et al., 91k:90175
- Perevuchikov, A. G. On the complexity of the calculation of the global extremum in a class of multi-extremal problems. (Russian) 91b:90188
- Pham Hà's Sách Second-order necessary optimality conditions for optimization problems involving set-valued maps. 91f:90123
- Phan Thiên Thanh (with Hoàng Tuy) The relief indicator method for constrained global optimization. 91f:90124
- Phillips, A. T. (with Rosen, J. B.) A parallel algorithm for partially separable nonconvex global minimization: linear constraints. 91m:90161
- Phua, Kang Hoh *see* Shanno, David F., 91c:90104
- Piccoli, Mauro (with Ramponi, A.) Stopping rules for the multistart method when different local minima have different function values. 91h:90102
- Pintér, J. On the convergence of adaptive partition algorithms in global optimization. Comment on: "Note on J. Pintér's paper" [Optimization 19 (1988), no. 2, 195; MR 89f:90162] by A. Žilinskas. 91c:90102
- Polak, Elijah Basics of minimax algorithms. 91f:90125
- (with Wiest, E. I.) Variable-metric technique for the solution of affinely parametrized nondifferentiable optimal design problems. 91k:90180
- *see also* Higgins, J. E., 91k:90167
- Ponik, C. M. *see* Caron, R. J.; et al., 91a:90146
- Poore, Aubrey B. *see* Tiaht, C. A., 91e:90115 and Lundberg, Bruce N.; et al., 91j:90082
- Powell, M. J. D. (with Yuan, Ya Xiang) A trust region algorithm for equality constrained optimization. 91m:90162
- Prishchepova, S. V. *see* Gabasov, R. F.; et al., 91j:90071
- Pu, Ding Guo Variable metric algorithms with linear constraints. (Chinese) (Not in MR)
- Qi, Li Qun The maximal normal operator space and integration of subdifferentials of nonconvex functions. 91a:90150
- Qin, Xin Chuan *see* Sul, Yun Kang; et al., (Not in MR)
- Qin, Yong Feng *see* Ge, Ren Pu, 91f:90117
- Rabinovich, Ya. I. ★ Принцип гарантированного результата в задачах поиска экстремума. (Russian) [The principle of guaranteed result in problems on the search for an extremum] 91k:90181
- Ramos, J. A. A Kalman-tracking filter approach to nonlinear programming. 91b:90189
- Ramponi, A. *see* Piccoli, Mauro, 91h:90102
- Rapcsák, Tamás ★ Tensor optimization. 91k:90182
- (with Borzsák, P.) On separable product functions. 91i:90066
- Ratschek, H. (with Voller, R. L.) Global optimization over unbounded domains. 91c:90103
- (with Rokne, J. G.) Interval tools for global optimization. (Not in MR)
- Redkovskii, N. N. *see* Mikhalevich, V. S.; et al., 91k:90175
- Richardson, John M. *see* Liepins, Gunar E.; et al., (91h:68014)
- Ridella, S. *see* Corana, A.; et al., (Not in MR)
- Robinson, Stephen M. Corrigenda to: "Local structure of feasible sets in nonlinear programming. III. Stability and sensitivity" [Math. Programming Stud. No. 30 (1987), 45–66; MR 88j:90198]. (Not in MR)
- Rockafellar, R. Tyrrell Perturbation of generalized Kuhn-Tucker points in finite-dimensional optimization. 91e:90113
- Generalized second derivatives of convex functions and saddle functions. 91b:90190
- Rokne, J. G. *see* Ratschek, H., (Not in MR)
- Rosen, J. B. *see* Phillips, A. T., 91m:90161
- Rösiger, Roland *see* Laderer, Bernd, 91f:90120
- Rote, Günter *see* Fruhwirth, B.; et al., 91e:90107
- Rueda, Norma G. Generalized convexity in nonlinear programming. 91e:90114
- Rustem, Berc The diagonalizability of quadratic functions and the arbitrariness of shadow prices. (Not in MR)
- Ryutin, A. A. *see* Agayan, G. M.; et al., 91b:90173
- Salim, M. S. *see* El-Gindy, T. M., (Not in MR)
- Saltenis, Vydnas *see* Žilinskas, Antanas, 91b:90196
- Schäffler, S. (with Warsitz, H.) A trajectory-following method for unconstrained optimization. 91m:90163
- Schittkowski, K. Solving constrained nonlinear least squares problems by a general purpose SQP-method. 91b:90191
- Schnabel, Robert B. *see* Smith, Sharon L.; et al., 91k:90184
- Scott, Carlton (with Jefferson, Thomas R.) On duality for mathematical programs involving composite functions. 91g:90157
- Seeger, Alberto An extremal problem involving matricial quadratic forms. 91k:90185
- Senkient, Elvyra (with Valeičienė, Jūratė) Some problems in annealing algorithms. (Russian. English and Lithuanian summaries) (Not in MR)
- Seoane, M. L. *see* Kerdáñez, J.-P.; et al., 91j:90076
- Shanno, David F. (with Phua, Kang Hoh) Numerical experience with sequential quadratic programming algorithms for equality constrained nonlinear programming. 91c:90104
- Shcherbina, Yu. N. (with Golub, B. M.) Modification of the linearization method for the solution of the mathematical programming problem on a simple set of "parallelepiped" type. (Russian) 91e:90105
- Shen, Yu *see* Li, Bao Xiu, 91j:90078
- Sherali, Hanif D. (with Ulular, Osman) Conjugate gradient methods using quasi-Newton updates with inexact line searches. 91f:90126
- Shen, Shuen Jyi *see* Huang, Ch'Jui, 91e:90111
- Shi, Bao Chang A unified approach to feasible direction methods: a two-stage algorithm model. (Chinese. English summary) (Not in MR)
- *see also* Zhou, Xiao Yang, 91k:90193
- Shkvarun, N. M. *see* Boichuk, L. M., 91i:90054
- Shor, N. Z. (with Berezovskii, O. A.) The use of an algorithm of subgradient type with space dilatation for constructing an ellipsoid of maximum volume inscribed in a polyhedron. (Russian. English summary) 91a:90151
- Shukla, D. P. (with Bawa, N. P. S.) \tilde{R}_j^2 —a new triangulation of R^n . 91g:90158
- Smart, I. *see* Mond, B., 91a:90148
- Smirnov, A. I. An algorithm for solving a problem of optimizing the use of a resource in a natural economic system. (Russian) 91i:90067
- Smith, Sharon L. (with Eakow, Elizabeth; Schnabel, Robert B.) Large adaptive, asynchronous stochastic global optimization algorithms for sequential and parallel computation. 91k:90184
- Sofer, Ariela *see* Nash, Stephen G., 91f:90121
- Strodt, J.-J. *see* Xia, Zuo Quan; et al., 91c:90106
- Sul, Shu Lin Necessary and sufficient conditions for optimal solutions to posynomial geometric programming problems containing parameters. (Chinese) 91h:90192
- Sul, Yun Kang (with Qin, Xin Chuan; Wang, Xi Cheng) A method of optimizing curve direction based on objective streamlines. (Chinese. English summary) (Not in MR)
- Sun, Yan Feng A facetial resolution algorithm for concave programs with a reverse convex constraint. (Chinese. English summary) (Not in MR)
- Sun, Zai Dong A family of easily implementable Clarke gradient projection algorithms and its convergence. (Chinese. English summary) (Not in MR)
- Talaat, Nadia *see* Golati, T. R., 91b:90181
- Tamir, Arle *see* Chandrasekaran, R., 91k:90157
- Tang, Huan Wen (with Guo, Jian; Jiang, Ye) Generalized pseudoconvex functions and convergence of the fixed-point algorithm for nonsmooth optimization. (Chinese) 91i:90068
- *see also* Hu, Xin Sheng, 91b:90183
- Tang, Jianxin (with Luh, Peter B.; Chang, Tsu Shuan) Mixed coordination method for nonlinear programming problems with separable structures. 91g:90159

- Tapia, Richard. *see* Dennis, J. E., Jr.; et al., 91b:90177
- Tatjewski, P. New dual-type decomposition algorithm for nonconvex separable optimization problems. 91a:90152
- Teo, Kok Lay. *see* Jennings, L. S., 91g:90151
- Terlaky, Tamás. *see* Klafszky, Emil; et al., 91h:90101
- Tihari, C. A. (with Poore, Aubrey B.) Bifurcation and persistence of minima in nonlinear parametric programming. 91c:90115
- Tian, Zhi Yuan. A quasi-Newton algorithm for solving a class of composite nonsmooth minimization problems. (Chinese. English summary) 91m:90164
- Tichatschke, Rainer. *see* Hoth, Martin, 91g:90150
- Tikhomirov, A. S. *see* Nekrutkin, V. V., 91c:90101
- Timofeeva, I. Yu. *see* Agayan, G. M.; et al., 91h:90173
- Todd, Michael J. On convergence properties of algorithms for unconstrained minimization. 91h:90193
- Toint, Philippe L. *see* Conn, Andrew R.; et al., 91k:90158
- Torraldo, Gerardo. *see* Burke, James V.; et al., 91f:90114
- Tseng, Paul. Dual ascent methods for problems with strictly convex costs and linear constraints: a unified approach. 91k:90186
- Tsunji, Shigeo. *see* Furukawa, Toshihiko; et al., (Not in MR)
- Uthaler, Osman. *see* Sherail, Hanif D., 91f:90126
- Unguryan, V. A. NP-hardness of the problem of testing the embeddability of a k -dimensional unit cube in an orthogonal projection of a convex polyhedral set. (Russian) 91j:90084
- Ursu, B. P. *see* Godonoga, A. F., 91i:90061
- Valečienė, Jūratė. *see* Senkienė, Elvyra, (Not in MR)
- Vasil'ev, S. N. (with Karatuev, V. G.) Representation of knowledge and the organization of computations in the applied program package VFL-1. (Russian) (*see* 91j:90008)
- Vasudevan, G. (with Watson, Layne T.; Lutze, F. H.) Homotopy approach for solving constrained optimization problems. (Not in MR)
- Ven, V. L. (with Krysov, Yu. A.) Aggregation and approximation in problems of parametric programming. 91i:90069
- Vignes, Jean. Optimal implementation of optimization methods and estimation of the accuracy of the results. 91d:90092
- Voller, R. L. *see* Ratschek, H., 91c:90103
- Wang, Chung-Lie. Dynamic programming and inequalities. 91f:90138
- (with Xing, An-Qing) Dynamic programming and penalty functions. 91h:90103
- Wang, Cui Lan. (with Chu, Lian Yuan) A double complex algorithm and its application in research on the phenomenological nuclear force. (Chinese. English summary) 91m:90165
- Wang, Wei². *see* Gao, Zi You, 91f:90060
- Wang, Xi Cheng. *see* Sui, Yun Kang; et al., (Not in MR)
- Warsitz, H. *see* Schäffler, S., 91m:90163
- Watson, Layne T. *see* Vasudevan, G.; et al., (Not in MR)
- Wells, Jim. *see* Glunt, W.; et al., 91j:90074
- White, Douglas John. Heuristic programming. (Not in MR)
- Wiest, E. J. *see* Polak, Elijah, 91k:90180
- Womersley, R. S. *see* Osborne, M. R., 91k:90178
- Wright, Stephen Joseph. Convergence of an inexact algorithm for composite nonsmooth optimization. 91k:90187
- Wu, Fang. (with Wu, Shi Quan¹) An improved Frank-Wolfe algorithm and its convergence properties. (Chinese) (Not in MR)
- *see also* Du, Ding Zhu; et al., 91f:90059
- Wu, Shi Quan¹. *see* Wu, Fang, (Not in MR)
- Xia, Zan Quan. (with Strodt, J.-J.; Nguyen, V. Hien) The C_M -embedded problem and optimality conditions. 91c:90106
- Xie, Yuan Fu. An investigation of variable metric methods that are optimal in the variational sense—derivation of a new variable metric formula. (Chinese) 91f:90127
- Xing, An-Qing. *see* Wang, Chung-Lie, 91h:90103
- Xu, Cheng Xian. A least squares solution method for constrained optimization problems. (Chinese. English summary) 91h:90104
- Yang, Bing. *see* Lundberg, Bruce N.; et al., 91j:90082
- Ye, Yinyu. Interior-point algorithms for global optimization. 91k:90188
- A "build-down" scheme for linear programming. 91h:90194
- Yuan, Ya Xiang. On a subproblem of trust region algorithms for constrained optimization. 91g:90160
- Nonlinear programming—status quo and development. (Chinese) (Not in MR)
- Nonlinear programming—a review. 91c:90107
- *see also* Powell, M. J. D., 91m:90162
- Yen, Tian Quan. Solution of simultaneous equations of cosine law arising from subjectivity geometry. (Not in MR)
- Zablayko, G. I. Restart procedures in the method of conjugate gradients. (Russian) (Not in MR)
- Zabotin, I. Ya. On the minimization of the maximum function of a special type. (Russian) 91j:90085
- Zalmal, G. J. Sufficiency criteria and duality for nonlinear programs involving n -set functions. 91d:90093
- Zavriev, S. K. (with Makieva, A. Yu.) Stability of a gradient algorithm for the iterative penalty method. (Russian) (*see* 91k:93005)
- Criteria for termination of computation in auxiliary problems of sequential unconditional optimization methods. I. The method of barrier functions. (Russian) 91d:90094
- Criteria for termination of computation in auxiliary problems of sequential unconditional optimization methods. II. The method of penalty functions. (Russian) (Not in MR)
- Convergence properties of the gradient method in the presence of noises of variable level. (Russian) 91k:90189
- Zeng, Qing Guang. (with He, Guo Ping; Gao, Zi You) A convergence theorem for Rosen gradient projection under linear constraints. (Chinese. English summary) 91k:90190
- Zhadan, V. G. *see* Ertshenko, Yu. G., 91f:90115
- Zhan, Chong Xi. A penalty method for a constrained extreme problem and its application. (Chinese. English summary) (Not in MR)
- Zhang, Hua Xiao. (with Jin, Yue Feng) The optimality conditions of D -pseudoconvex programming with the functional constraints. (Chinese summary) 91f:90128
- Zhang, Jian Zhong. (with Zhu, De Tong) Projected quasi-Newton algorithm with trust region for constrained optimization. 91k:90191
- (with Zhu, De Tong) A trust region type dogleg method for nonlinear optimization. 91h:90105
- Zhang, Lian Sheng. (with Huang, Zhi Jian) On L_1 -exact penalty functions in nonlinear Lipschitz programming. (Chinese) 91a:90153
- Zhang, Xiang Sun. *see* Du, Ding Zhu, 91h:90179; 91i:90059 and Niu, Jia Ji, (Not in MR)
- Zhang, Yu Zhong. The global property of local minima of α -quasiconvex functions. (Chinese. English summary) (Not in MR)
- Zhao, Jian Hua. An analysis of the extended gradient algorithm. (Chinese. English summary) (Not in MR)
- Zheng, Quan¹. Robust analysis and global minimization of a class of discontinuous functions. I. 91k:90192
- Robust analysis and global optimization. 91m:90166
- Zhou, Xiao Yang. (with Shi, Bao Chang) A method of generalized differentiable limited-region exact penalty functions for converting an inequality-constrained problem into an unconstrained optimization. (Chinese. English summary) 91k:90193
- Zhu, De Tong. Convergence of projected Hessian updating algorithms for minimizing nonsmooth composite functions. (Chinese. English summary) 91k:90194
- *see also* Zhang, Jian Zhong, 91h:90105 and 91k:90191
- Zhusupbaev, A. Zh. A method for solving a nonlinear two-stage allocation problem. (Russian) 91b:90195
- Žilinskas, Antanas. (with Saltenis, Vydyūnas) ★ Поиск оптимальных. (Russian) [The search for an optimum] 91b:90196
- (with Makauskas, Algirdas) The possibility of calculating derivatives in statistical models of multi-extremal functions. (Russian. English and Lithuanian summaries) 91k:90195
- *see also* Pinter, J., 91c:90102
- Zewe, Jochem. The BT-algorithm for minimizing a nonsmooth functional subject to linear constraints. 91m:90167
- *see also* Ben-Tal, Aharon; et al., 91i:90053
- Zyabrev, N. B. *see* Egorushkin, A. A., 91d:90088

Items with secondary classifications in 90C30

- Abadie, J. (with Dekhli, F.) Error estimation in mathematical programming computation. (*see* 91e:90029)
- Abasov, T. M. ★ Модифицированные функции Лагранжа в задачах отыскания седловых точек. (Russian) [Modified Lagrange functions in problems of determining saddle points] 91j:49006
- Aluffi-Pentini, Filippo. (with Parisi, Valerio; Zirilli, Francesco) A global optimization algorithm using stochastic differential equations. (Not in MR)
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- (with Parisi, Valerio; Zirilli, Francesco) A parallel global optimization algorithm inspired by quantum physics. (Not in MR)
- Antsiferov, E. G. (with Ashchepkov, L. T.; Bulatov, V. P.) ★ Методы оптимизации и их приложения. Часть I. (Russian) [Optimization methods and their applications. Part I] 91f:90001
- Argyros, Ioannis K. (with Szidarovszky, Ferenc) Comparison theorems for algorithmic models. 91h:65102
- Ashchepkov, L. T. *see* Antsiferov, E. G.; et al., 91f:90001
- Axelsson, Owe. Preconditioned conjugate gradient methods. Preface. 91a:65150
- Bukhich, N. V. (with Ivanova, S. Yu.; Sharanyuk, A. V.) ★ Динамика конструкции. Анализ и оптимизация. (Russian) [Dynamics of structures. Analysis and optimization] 91m:73055
- Ben-Tal, Aharon. (with Teboulle, Marc) A smoothing technique for nondifferentiable optimization problems. 91g:90006
- Bogle, I. D. L. (with Perkins, J. D.) A new sparsity preserving quasi-Newton update for solving nonlinear equations. 91f:65099
- Borde, J. (with Crouzeix, J.-P.) Continuity properties of the normal cone to the level sets of a quasiconvex function. 91m:49012
- Borkowski, A. (with Jendo, S.) ★ Structural optimization. Vol. 2. 91j:73046
- Bukchin, A. M. A method for solving a discrete problem of optimal control of a queueing system with multidimensional input flows. 91f:90053
- Bulatov, V. P. *see* Antsiferov, E. G.; et al., 91f:90001
- Byrd, Richard H. On the convergence of constrained optimization methods with accurate Hessian information on a subspace. 91k:65117
- Carter, Richard G. On the global convergence of trust region algorithms using inexact gradient information. 91m:65178
- Chandra, Suresh. (with Mond, B.; Smart, I.) Constrained games and symmetric duality with pseudo-invexity. 91k:49051
- Chattopadhyay, Rini. *see* Sen, Rabindranath; et al., 91m:65173
- Chen, Xiao Jun. On the convergence of Broyden-like methods for nonlinear equations with nondifferentiable terms. 91k:65087
- Chentsov, A. G. Two-valued measures on the semi-algebra of sets and some of their applications to infinite-dimensional problems in mathematical programming. 91d:28014
- Clements, D. J. *see* Goh, C. J.; et al., 91h:93068
- Coleman, Thomas F. On characterizations of superlinear convergence for constrained optimization. 91h:65105
- (with Hempel, Christian) Computing a trust region step for a penalty function. 91g:49014
- Cominetti, Roberto. (with Correa, R.) A generalized second-order derivative in nonsmooth optimization. 91h:49017
- On pseudo-differentiability. 91h:26009
- Cong, Wen Xiang. (with He, Yuan Kui) An extension of a theorem in convex analysis. (Chinese. English summary) 91h:52010
- Correa, R. (with Thibault, L.) Subdifferential analysis of bivariate separately regular functions. 91h:49018
- *see also* Cominetti, Roberto, 91h:49017
- Craven, B. D. A modified Wolfe dual for weak vector minimization. 91b:90164
- Crouzeix, J.-P. *see* Borde, J., 91m:49012

- Curry, James H. On zero finding methods of higher order from data at one point. 91a:65134
- Dancs, S. Generalized tangent cone and an optimization problem in a normed space. 91i:90080
- Danninger, G. A recursive algorithm for determining (strict) copositivity of a symmetric matrix. 91i:15022
- Dekhlil, F. *see* Abadie, J., (91e:00029)
- Ding, Guan Dong (with Lin, Ying Ju) A feasible direction algorithm for nonsmooth optimization with linear constraints. (Chinese. English summary) 91b:65069
- Dixon, L. C. W. (with Mohseninia, M.) Incomplete Cholesky decomposition in the truncated Newton method. (see 91e:00029)
- Dô Van Lu'u Regularity and sufficient optimality conditions for some classes of mathematical programming problems. 91c:90120
- Doyle, John C. *see* Fan, Michael K. H.; et al., 91m:93061
- Du, Ding Zhu (with Wu, Fang; Zhang, Xiang Sun) Why is the objective function nonlinearized in the interior point methods for linear programming? (Chinese) 91b:90094
- Duchrau, Petra (with Frischmuth, Kurt) A numerical search algorithm for experimental design. (Not in MR)
- Ellis, J. E. *see* Hu, G. H.; et al., 91b:49032
- Elster, Karl-Heinz (with Thierfelder, J.) On cone approximations and generalized directional derivatives. 91b:49019
- Enacheva, Tatiana I. Computational comparisons for method of centers of gravity of vertices. (Not in MR)
- Fan, Michael K. H. (with Tits, André L.; Doyle, John C.) Robustness in the presence of mixed parametric uncertainty and unmodeled dynamics. 91m:93061
- Ferris, M. C. Iterative linear programming solution of convex programs. 91b:90152
- Flacco, Anthony V. (with Ishizuka, Yo) Sensitivity and stability analysis for nonlinear programming. 91b:90198
- Fischer, Herbert Automatic differentiation: parallel computation of function, gradient, and Hessian matrix. 91b:65158
- Fletcher, Roger Recent developments in methods for nonlinear programming. (see 91j:00015)
- Fontecilla, Rodrigo Inexact secant methods for nonlinear constrained optimization. 91c:65042
- Friedman, Joel On the convergence of Newton's method. 91a:30005
- Frischmuth, Kurt *see* Duchrau, Petra, (Not in MR)
- Fu, Yi Hui (with Li, Mi An) Optimality conditions for a class of generalized max-min problems in the space \mathbb{R}^n . (Chinese. English summary) 91b:49005
- Fukushima, Masao A conjugate gradient algorithm for sparse linear inequalities. 91b:65106 — *see also* Nagamochi, Hiroshi; et al., 91b:90079
- Fülöp, János A finite cutting plane method for facial disjunctive programs. (German summary) 91m:90106
- Gabasov, R. F. (with Kirillova, F. M.) New algorithms of solving extremal problems. 91j:65110
- Gabidullina, Z. R. Minimization of a nonsmooth strictly quasiconvex function by a method of conditional gradient type. (Russian) 91b:49014
- Gabisoniy, V. E. (with Kharchev, V. N.) * МАТЕМАТИЧЕСКИЕ АСПЕКТЫ АВТОМАТИЧЕСКОГО ПРОЕКТИРОВАНИЯ. (Russian) [Mathematical aspects of automated design] 91c:65043
- Galperin, Efim A. Problem-method classification in optimization and control. (Not in MR)
- Gao, Tang An A condition for existence of zeroes of combinatorial mappings. (Chinese. English summary) (Not in MR)
- Gandioso, Manlio (with Monaco, Maria Flavia) Quadratic approximations in convex nondifferentiable optimization. 91m:49013
- Genkin, A. V. (with Muchnik, I. B.) An optimal algorithm for maximization of submodular functions. 91b:65117
- Georg, Kurt An introduction to PL algorithms. 91b:65083
- Ghosh, Nilotpal (with Hager, William W.) A derivative-free bracketing scheme for univariate minimization. 91b:65122
- Gilbert, J. Ch. On the local and global convergence of a reduced quasi-Newton method. 91c:65153
- Goh, C. J. (with Lim, Cheng-Chew; Teo, Kok Lay; Clements, D. J.) Robust controller design for systems with interval parameter design. (Russian summary) 91b:93068
- Gorbunov, V. K. Regularization of extremal problems. (Russian) 91m:49033
- Greenbaum, Anne (with Rodrigue, Garry) Optimal preconditioners of a given sparsity pattern. 91b:65061
- Griewank, Andreas (with Sheng, Laihua) On the Gauss-Broyden method for nonlinear least squares. 91a:65154
- Direct calculation of Newton steps without accumulating Jacobians. 91b:65088
- (with Rabier, Patrick J.) On the smoothness of convex envelopes. 91b:49021
- Grippo, L. (with Lampariello, F.; Lucidi, S.) A quasi-discrete Newton algorithm with a nonmonotone stabilization technique. 91c:65086
- Galjak, Boris Some convergence properties of rank-one quasi-Newton methods. (Serbo-Croatian summary) 91a:65138
- Hager, William W. *see* Ghosh, Nilotpal, 91b:65122
- Han, Dan Fu *see* Wang, Xing Hua, 91b:65081
- Hansen, Pierre (with Lu, Shi Hui; Simeone, Bruno) On the equivalence of paved-duality and standard linearization in nonlinear 0-1 optimization. 91m:90109
- Hartmann, Mark E. (with Trotter, L. E., Jr.) A topological characterization for closed sets under polar duality in Q^n . 91b:49052
- Hassan, Nizar (with Rzymowski, Witold) An ordinary differential equation in nonlinear programming. 91j:34006
- He, Bing Sheng The saddle point algorithm for general linear programming. (Chinese. English summary) 91m:90099
- He, Guang Zong Proof of convergence of Rosen's gradient projection method. (Chinese. English summary) 91g:65150
- He, Yuan Kai *see* Cong, Wen Xiang, 91b:52010
- Hearn, D. W. *see* Lawphongpanich, Sripiphong, 91b:49015
- Hempel, Christian *see* Coleman, Thomas F., 91g:49014
- Hiriart-Urruty, J.-B. From convex optimization to nonconvex optimization. Necessary and sufficient conditions for global optimality. 91a:90133
- Hou, Shao Pin *see* Zhang, Jian Zhong; et al., 91b:65113a and 91b:65113b
- Hu, G. H. (with Liu, Zhi Yong; Lin, Jie; Ellis, J. E.; Roberts, P. D.) An algorithm with a point-linearized input-output mapping for integrated system optimization and parameter estimation. 91b:49032
- Ibaraki, Toshihide *see* Nagamochi, Hiroshi; et al., 91b:90079
- Ishizuka, Yo *see* Flacco, Anthony V., 91b:90198
- Ito, Satoshi (with Shimizu, Kiyotaka) Necessary conditions for constrained optimal control problems via mathematical programming. 91m:49019
- Inseem, Alfredo N. (with Moledo, Leonardo) On finitely convergent iterative methods for the convex feasibility problem. 91a:65155
- Ivanova, S. Yu. *see* Banichak, N. V.; et al., 91m:73055
- Jajou, Amer F. (with Zimmermann, Karel) Max-separable equations and the set covering. (Russian and Czech summaries) 91a:90117
- Jendo, S. *see* Borkowski, A., 91j:73046
- Ji, Guo Li An augmented open-loop interaction balance method. (Chinese. English summary) 91b:93005
- Jiang, Hua Guang Continuity and subdifferentiability of convex operators. (Chinese. English summary) 91b:47083
- Jofré, Alejandro (with Penot, Jean-Paul) Comparing new notions of tangent cones. 91b:49021
- Jourani, A. (with Thibault, L.) The use of metric graphical regularity in approximate subdifferential calculus rules in finite dimensions. 91b:49021
- Kalashnikov, V. V. (with Kalashnikova, N. I.) Control of step accuracy in the loaded functional method. (Russian) 91b:65113
- Kalashnikova, N. I. *see* Kalashnikov, V. V., 91b:65113
- Kelly, L. M. Geometry in mathematical programming and optimization. (Arabic summary) 91b:90003
- Kesidis, George (with Wong, Eugene) Optimal acceptance probability for simulated annealing. 91c:90089
- Kharchev, V. N. *see* Gabisoniy, V. E., 91c:65043
- Kim, Byong Bae On the convergence radius and convergence rate of quasi-Newton methods. (Korean. English summary) 91b:65058
- Kirillova, F. M. *see* Gabasov, R. F., 91j:65110
- Kiwiel, Krzysztof C. Proximity control in bundle methods for convex nondifferentiable minimization. 91c:90084
- Korobochkin, Yu. B. *see* Kurkin, O. M.; et al., 91j:93102
- Korotchenko, A. G. Suboptimal algorithms for searching for an extremum in a class of functions. (Russian) 91c:65044
- Kurkin, O. M. (with Korobochkin, Yu. B.; Shatalov, S. A.) * МИНИМАЛЬНАЯ ОБРАБОТКА ИНФОРМАЦИИ. (Russian) [Minimal processing of information] 91j:93102
- Kurzanskii, M. A. *see* Vasil'ev, F. P., 91b:65077
- Lampariello, F. *see* Grippo, L.; et al., 91c:65086
- Larsson, Torbjörn (with Migdalas, A.) An algorithm for nonlinear programs over Cartesian product sets. 91j:90060
- Lavery, John E. Solution of steady-state, two-dimensional conservation laws by mathematical programming. 91m:65265
- Lawphongpanich, Sripiphong (with Hearn, D. W.) Benders decomposition for variational inequalities. 91b:49015
- Li, Mi An *see* Fu, Yi Hui, 91b:49005
- (Li, Qing Yang) *see* Wang, Ze Ke, 91b:65093
- Lim, Cheng-Chew *see* Goh, C. J.; et al., 91b:93068
- Lin, Jie *see* Hu, G. H.; et al., 91b:49032
- Lin, Ying Ju *see* Ding, Guan Dong, 91b:65069
- Liu, Zhi Yong *see* Hu, G. H.; et al., 91b:49032
- Loridan, Pierre (with Morgan, Jacqueline) ϵ -regularized two-level optimization problems: approximation and existence results. 91b:90197
- Lazovana, D. D. (with Unguryanu, V. A.) An algorithm for testing the embeddability of a k -dimensional unit cube in an orthogonal projection of a polyhedral set defined by a system of linear inequalities. (Russian) 91g:65151
- Lu, Shi Hui *see* Hansen, Pierre; et al., 91m:90109
- Lucidi, S. *see* Grippo, L.; et al., 91c:65086
- Luderer, Bernd Quasidifferenzierbare Optimierungsprobleme und primale Dekomposition. [Quasidifferentiable optimization problems and primal decomposition] 91b:49023
- Lukian, Ladislav Computational experience with improved variable metric methods for unconstrained minimization. 91b:65109
- Marti, Kurt * Descent directions and efficient solutions in discretely distributed stochastic programs. 91a:90125
- Martinez, José Mario A family of quasi-Newton methods for nonlinear equations with direct secant updates of matrix factorizations. 91b:65084
- Merav, Pavel On the existence of a solution of $F(x) = 0$ in some compact sets. (Russian summary) 91d:65073
- Symmetric homotopies for solving systems of polynomial equations. (Russian summary) 91d:65074
- Merkavsky, R. R. (with Ward, D. E.) General constraint qualifications in nondifferentiable programming. 91b:49015
- Miclo, Laurent Recuit simulé sur \mathbb{R}^n . [Simulated annealing on \mathbb{R}^n] 91d:60189
- Migdalas, A. *see* Larsson, Torbjörn, 91j:90060
- (Mo, Zi Zhong) *see* Wang, Ze Ke, 91b:65093
- Mohd, Ismail Bin An interval global optimization algorithm for a class of functions with several variables. 91m:65134
- Mohseninia, M. *see* Dixon, L. C. W., (91e:00029)
- Moledo, Leonardo *see* Inseem, Alfredo N., 91a:65155
- Monaco, Maria Flavia *see* Gandioso, Manlio, 91m:49013
- Mond, B. *see* Chandra, Suresh; et al., 91b:49051 and Smart, I., 91b:49055
- Morgan, Jacqueline *see* Loridan, Pierre, 91b:90197
- Muchnik, I. B. *see* Genkin, A. V., 91b:65117
- Muganda, Geoffrey Chamba Convergence of constrained optimization problems. 91j:49018
- Mukherjee, Rathindra Nath *see* Yadav, Shri Ram, 91d:90096
- Nagamochi, Hiroshi (with Fukushima, Masao; Ibaraki, Toshihide) Relaxation methods for the strictly convex multimodality flow problem with capacity constraints on individual

- commodities. 91b:90079
- Nakai, Teruhisa. Optimal search for an object with unknown type. 91c:90063
- Nakano, Kazuaki (with Tsurumi, Ichiro; Sagara, Setsuo). Finite-dimensional approach to estimation of functional parameters in a parabolic system. 91m:93122
- Pak, V. E. On an asymptotic optimization problem in a class of finite suspensions. (Russian. English and Ukrainian summaries) (Not in MR)
- Pang, Jeng-Shi. Newton's method for B -differentiable equations. 91m:49029
- Pappalardo, Massimo. Image space approach to penalty methods. 91a:65159
- Parisi, Valerio. *see* Aluffi-Penttilä, Filippo; et al., (Not in MR); (Not in MR) and (Not in MR)
- Penot, Jean-Paul (with Volle, Michel). On quasi-convex duality. 91k:49054
- (with Volle, Michel). Inversion of real-valued functions and applications. (German summary) 91e:26012
- *see also* Jofré, Alejandro, 91b:49021
- Perevozchikov, A. G. *see* Zariev, S. K., 91b:49012
- Prodan, N. V. *see* Bogie, I. D. L., 91f:65099
- Plastér, J. Solving nonlinear equation systems via global partition and search: some experimental results. (German summary) 91a:65141
- Plaskota, L. Asymptotic error for the global maximum of functions in s dimensions. 91a:65161
- Plassman, Paul E. Sparse Jacobian estimation and factorization on a multiprocessor. 91m:65346
- Pokotilo, V. G. *see* Pshenichnyi, B. N., 91k:49041
- Poshtaru, A. I. (with Prodan, N. V.). A probabilistic analogue of a problem on the center of a graph. (Russian) 91a:05092
- Powell, M. J. D. On a matrix factorization for linearly constrained optimization problems. 91b:65074
- Karmanik's algorithm: a view from nonlinear programming. 91k:90099
- Prodan, N. V. *see* Poshtaru, A. I., 91a:05092
- Pshenichnyi, B. N. Necessary conditions for an extremum, penalty functions and regularity. 91c:49041
- (with Pokotilo, V. G.) On the problem of the optimal girth of sets. 91k:49041
- Qi, Ding Guo. A modified DFP algorithm. (Chinese) (Not in MR)
- (with Yu, Wen Ci). On the convergence property of the DFP algorithm. 91h:65110
- Pytlak, Radosław. Numerical experiment with new conjugate direction methods for nondifferentiable optimization. 91c:49052
- Qi, Li Qun. Quasidifferentiability and maximal normal operators. 91m:49014
- *see also* Wang, Ze Ke, 91f:65093
- Rabier, Patrick J. *see* Griewank, Andreas, 91k:49021
- Rapcsák, Tamás. On geodesic convex programming problems. 91a:90134
- (with Szenthe, J.). On the connection between mechanical force equilibrium and nonlinear programming. (German and Russian summaries) 91m:70018
- Reiland, Thomas W. Saddlepoint problems in nondifferentiable programming. 91j:49023
- (Reitman, M. L.) *see* Borkowski, A., 91j:73046
- Roberts, P. D. *see* Hu, G. H.; et al., 91c:49032
- Rockafellar, R. Tyrrell. Second-order optimality conditions in nonlinear programming obtained by way of epi-derivatives. 91b:49022
- Rodríguez, Garry. *see* Greenbaum, Anne, 91h:65061
- Roman, P. G. An iterative method for solving systems of nonlinear equations on a parallelepiped. 91g:65118
- Rzymowski, Witold. *see* Hassan, Nizar, 91j:34006
- Sachs, Ekkehard W. Convergence of algorithms for perturbed optimization problems. 91k:49047
- Sagara, Setsuo. *see* Nakano, Kazuaki; et al., 91m:93122
- Saha, Tripti. *see* Sen, Rabinathan; et al., 91m:65173
- (Sava, M.) *see* Borkowski, A., 91j:73046
- Scheiber, Ernest. On the convergence of the Ritz method used simultaneously with the gradient projection method. 91c:65045
- Schlotzke, W. ★ Differenzierbare Extremalprobleme. (German) [Differentiable extremal problems] 91g:49001
- Schmidt, Jochen W. Monotone data smoothing by quadratic splines via dualization. (German and Russian summaries) 91j:41012
- Schochetman, Irwin E. (with Smith, Robert L.). Infinite horizon optimization. 91g:90175
- Sen, Rabinathan (with Chattopadhyay, Rini; Saha, Tripti). On a general convergence for Broyden like update method. 91m:65173
- Sergeev, Ya. D. (with Strongin, R. G.). An algorithm for global minimization with parallel iterations. 91g:65153
- Sharanyuk, A. V. *see* Banichuk, N. V.; et al., 91m:73055
- Shatalov, S. A. *see* Kurkin, O. M.; et al., 91j:93102
- Shen, Yun Qiu (with Ypma, Tjalling J.). Solving nonlinear systems of equations with only one nonlinear variable. 91g:65119
- Sheng, Lihua. *see* Griewank, Andreas, 91a:65154
- Shimizu, Kiyotaka. *see* Ito, Satoshi, 91c:49019
- Simeone, Bruno. *see* Hansen, Pierre; et al., 91m:90109
- Smart, L. (with Mood, B.). Symmetric duality with invexity in variational problems. 91k:49055
- *see also* Chandra, Suresh; et al., 91k:49051
- Smith, Robert L. *see* Schochetman, Irwin E., 91g:90175
- Storey, Colin. *see* Touati-Ahmed, D., 91c:65046
- Strongin, R. G. *see* Sergeev, Ya. D., 91g:65153
- Sukharev, A. G. ★ Минимаксные алгоритмы в задачах численного анализа. (Russian) [Minimax algorithms in problems of numerical analysis] 91a:65004
- Sun, Yan Feng. Second-order sufficient conditions for local minima of semismooth functions. (Chinese. English summary) 91h:49017
- Swartz, Charles W. Pshenichnyi's necessary condition for nonsmooth programming. 91k:49018
- Szenthe, J. *see* Rapcsák, Tamás, 91m:70018
- Seldarovskiy, Ferenc. *see* Argros, Ioannis K., 91h:65102
- Szymalska-Zagrodny, Joanna. Some sufficient conditions in constrained nonsmooth optimization. 91m:49015
- Tanaka, Yoshihiro. Note on generalized convex functions. (Not in MR)
- Teboulle, Marc. *see* Ben-Tal, Aharon, 91g:49006
- Teo, Kok Lay. *see* Goh, C. J.; et al., 91b:93068
- Tereschenko, V. Ya. A variational-difference scheme for realization of a duality algorithm in problems of minimization of generalized Trefftz functionals. (Russian) 91m:49032
- Thibault, L. *see* Correa, R., 91h:49018 and Jourani, A., 91j:49021
- Thierfelder, J. *see* Elster, Karl-Heinz, 91h:49019
- Tikhomirov, V. M. Some problems arising in connection with the theory of optimization. 91f:90143
- Tits, André L. *see* Fan, Michael K. H.; et al., 91m:93061
- Touati-Ahmed, D. (with Storey, Colin). Efficient hybrid conjugate gradient techniques. 91c:65046
- Treiman, Jay S. Optimal control with small generalized gradients. 91c:49027
- Trotter, L. E., Jr. *see* Hartmann, Mark E., 91k:49052
- Tsurumi, Ichiro. *see* Nakano, Kazuaki; et al., 91m:93122
- Uberti, Mariacristina. The use of branch and bound methods for the maximization of some statistical indexes. (see 91f:90007)
- Unguryanu, V. A. *see* Lazovanu, D. D., 91g:65151
- Uryas'ev, S. P. Adaptive variable metric methods for nondifferentiable optimization problems. 91h:65112
- Vasil'ev, F. P. (with Kurzhanski, M. A.). On the method of quasisolutions for unstable problems of minimization with imprecisely defined initial data. 91b:65077
- Vladimirov, Yu. N. Problems of the optimal displacement of a mass on a plane and Lipschitz functions connected with them. (Russian) 91j:90052
- Volle, Michel. *see* Penot, Jean-Paul, 91e:26012 and 91k:49054
- Vrahatis, Michael N. Solving systems of nonlinear equations using the nonzero value of the topological degree. 91g:65006
- Algorithm 666. CHABIS: a mathematical software package for locating and evaluating roots of systems of nonlinear equations. 91g:65007
- Wang, Weif. A superlinearly convergent algorithm, using the suboptimization method, for solving linearly constrained convex programming problems. (Chinese. English summary) 91c:90080
- Wang, Xing Hua (with Han, Dan Fu). On dominating sequence method in the point estimate and Smale theorem. 91h:65081
- Wang, Ze Ke. A constructive approach to zero distribution of a class of continuous functions. 91f:65108
- On the basic theory of the vector-labelled simplicial algorithm—some opinions concerning the book *Numerical solution methods for systems of nonlinear equations* (Chinese) [Science Press, Beijing, 1987] by Q. Y. Li, Z. Z. Mo and L. Q. Qi. (Chinese. English summary) 91j:65093
- Ward, D. E. *see* Merkovsky, R. R., 91b:49015
- Wong, Eugene. *see* Kesidis, George, 91c:90089
- Wu, Fang. *see* Du, Ding Zhu; et al., 91k:90094
- Wu, Shi Quan. A restricted stepsize method and its extension. (Chinese. English summary) 91j:65165
- Xia, Zun Quan (with Zhao, Chun Jin). Second-order expansions for a class of quasidifferentiable functions. 91m:49016
- Xie, Zhi Yun. Nonlinear programming algorithms for the best interpolation knots of a spline. 91h:65028
- Xu, Cheng Xian. Hybrid method for nonlinear least-square problems without calculating derivatives. 91g:65155
- Yadav, Shri Ram (with Mukherjee, Rathindra Nath). Duality for fractional minimax programming problems. 91d:90096
- Ypma, Tjalling J. *see* Shen, Yun Qiu, 91g:65119
- Yu, Wen Ci. *see* Qi, Ding Guo, 91h:65110
- Zabotina, I. Ya. A subgradient method for finding a saddle point of a convex-concave function. (Russian) 91h:49012
- Zagrodny, D. A note on the equivalence between the mean value theorem for the Dini derivative and the Clarke-Rockafellar derivative. 91j:49026
- Zălinescu, Constantin. Stability for a class of nonlinear optimization problems and applications. 91d:90075
- On some types of second order convexity. 91c:26017
- Zariev, S. K. (with Perevozchikov, A. G.). The stochastic generalized gradient method for solving minimax problems with connected variables. (Russian) 91f:49012
- Zhang, Jian Zhong (with Zhu, De Tong; Hou, Shao Pin). Some improved projected quasi-Newton algorithms and their convergence. I. Methods and global behavior. 91h:65113a
- (with Zhu, De Tong; Hou, Shao Pin). Some improved projected quasi-Newton algorithms and their convergence. II. Local convergence rate and numerical tests. 91h:65113b
- Zhang, Xiang Sun. *see* Du, Ding Zhu; et al., 91k:90094
- Zhao, Chun Jin. *see* Xia, Zun Quan, 91m:49016
- Zhao, Fu An. Optimality conditions for a class of nonsmooth optimization problems. (Chinese. English summary) 91h:49019
- Zhu, De Tong. *see* Zhang, Jian Zhong; et al., 91h:65113a and 91h:65113b
- Zimmermann, Karel. *see* Jajou, Amer F., 91a:90117
- Zinichuk, N. A. Conversion of minimax parameter estimation problems to a system of algebraic equations. 91j:49010
- Zirilli, Francesco. *see* Aluffi-Penttilä, Filippo; et al., (Not in MR); (Not in MR) and (Not in MR)

90C31 Sensitivity, stability, parametric optimization

- Allakhbarov, S. M. (with Vasil'ev, F. P.). Regularization methods for solving unstable problems of standardization type. (Russian) 91k:90196
- An, He Ping. *see* You, Zhao Yong, 91h:90110 and 91h:90111
- Attouch, Hedy (with Wets, Roger J.-B.). Epigraphical analysis. 91g:90161
- Ausslander, A. (with Cominetti, Roberto). First and second order sensitivity analysis of nonlinear programs under directional constraint qualification conditions. 91k:90197
- Azé, D. (with Volle, Michel). A stability result in quasi-convex programming. 91j:90086
- Bonnans, Joseph Frédéric. On the stability of solutions in nonlinear programming. 91j:90087
- Brosowski, Bruno. A criterion for efficiency and some applications. 91a:90154

- Charnes, A. (with Cooper, W. W.; Sears, M.; Zlobec, S.) Efficiency evaluations in perturbed data envelopment analysis. (see 91k:90010)
- Chen, Guang Ya Vector variational inequality and its application for multiobjective optimization. 91a:90155
- Chen, Ting see Tang, Da Hong. (Not in MR)
- Cominetti, Roberto see Auslender, A., 91k:90197
- Cooper, W. W. see Charnes, A.; et al., (91k:90010)
- Daner, Jerald P. (with Gallagher, Richard J.) Positive proper efficient points and related cone results in vector optimization theory. 91a:90156
- Dempe, Stephan An optimality condition for problems of two-level optimization. 91c:90116
- Corrigendum: "On the directional derivative of the optimal solution mapping without linear independence constraint qualification" [Optimization 20 (1989), no. 4, 401–414; MR 90m:90269]. (Not in MR)
- Eaves, B. Curtis Deforming subdivisions. 91i:90070
- Fernández-Baca, David (with Srinivasan, S.) Constructing the minimization diagram of a two-parameter problem. (Not in MR)
- Fiacco, Anthony V. (with Ishizuka, Yo) Sensitivity and stability analysis for nonlinear programming. 91k:90198
- Global multi-parametric optimal value bounds and solution estimates for separable parametric programs. (Not in MR)
- Gallagher, Richard J. see Daner, Jerald P., 91a:90156
- Gauvin, Jacques (with Janin, Robert) Directional derivative of the value function in parametric optimization. 91m:90168
- Heibig, Siegfried Parametric semi-infinite optimization in certain lattices: continuity of the feasible set. 91c:90117
- On the connectedness of the set of weakly efficient points of a vector optimization problem in locally convex spaces. 91c:90108
- Stability in disjunctive linear optimization. I. Continuity of the feasible set. 91k:90199
- Hirabayashi, Ryuichi see Matsumoto, Toshihiro; et al., 91k:90202 and Shindoh, Susumu; et al., (91k:90010)
- Ishizuka, Yo see Fiacco, Anthony V., 91k:90198
- Janin, Robert see Gauvin, Jacques, 91m:90168
- Jiang, Hong Lang Shadow prices in mathematical programming. (Chinese) 91k:90200
- Jongens, Hubertus Th. Parametric optimization: critical points and local minima. 91g:90162
- (with Weber, Gerhard-W.) On parametric nonlinear programming. 91k:90201
- Kerimov, A. M. A class of mappings that admit a first-order approximation. (Russian) 91m:90169
- Kirilyuk, V. S. On the directional differentiability of a marginal function. (Russian) (see 91m:90005)
- Krysov, Yu. A. On certain nonlocal properties of optimum functions. 91m:90170
- Kyparisis, Jerry Sensitivity analysis for nonlinear programs and variational inequalities with nonunique multipliers. 91g:90163
- Lai, Shiva Narala (with Mukherjee, Rathindra Nath¹; Singh, Ashok Kumar¹) Regularity and convexity properties of optimal value functions in parametric programming. 91k:90106
- Liu, De Gang see Zhang, Xiang Sun, 91m:90172
- Liu, Pei Yi see Shou, Ji Lin, 91k:90072
- Loridan, Pierre (with Morgan, Jacqueline) ϵ -regularized two-level optimization problems: approximation and existence results. 91b:90197
- Luderer, Bernd The quasidifferential of an optimal value function in nonsmooth programming. 91a:90157
- Ma, Xiao Xian see Shi, Guang Yan, 91k:90203
- Matsumoto, Toshihiro (with Shindoh, Susumu; Hirabayashi, Ryuichi) 1-determinacy of feasible sets. 91k:90202
- see also Shindoh, Susumu; et al., (91k:90010)
- Minchenko, L. I. Calculation of subdifferentials of marginal functions by means of a distance function. 91b:90198
- Morgan, Jacqueline see Loridan, Pierre, 91b:90197
- Mukherjee, Rathindra Nath¹ see Lai, Shiva Narala; et al., 91k:90106
- Neffdor, V. N. Error estimation in convex polynomial problems of optimization. 91c:90109
- Norkin, V. I. ★ Устойчивость стохастических оптимизационных моделей и статистические методы стохастического программирования (по материалам ИААС). (Russian) [Stability of stochastic optimization models and statistical methods in stochastic programming (from reports of the International Institute of Applied Systems Analysis)] 91i:90071
- Pappalardo, Massimo Stability studies in parametric optimization via the image-space approach. (see 91k:90010)
- Phan Quoc Khanh (with Trần Huệ Nhung) On necessary and sufficient conditions in vector optimization. 91a:90158
- Poore, Aubrey B. Bifurcations in parametric nonlinear programming. 91m:90171
- see also Tlahrt, C. A., 91h:90109
- Robinson, Stephen M. Mathematical foundations of nonsmooth embedding methods. 91k:90107
- Sakawa, Masatoshi (with Yano, Hitoshi) An interactive fuzzy satisficing method for generalized multiobjective linear programming problems with fuzzy parameters. 91a:90159
- Sarykin, B. V. Models of optimal strategies in sequential decision making. (Not in MR)
- Schade, L. Eine allgemeine Einbettungsstrategie zur Lösung uneigentlicher Optimierungsprobleme. [A general embedding strategy for the solution of improper optimization problems] 91h:90108
- Sears, M. see Charnes, A.; et al., (91k:90010)
- Shi, Guang Yan (with Ma, Xiao Xian) Differential stability for parametric nonsmooth optimization. (Chinese summary) 91k:90203
- Shindoh, Susumu (with Hirabayashi, Ryuichi; Matsumoto, Toshihiro) Structure of solution set to nonlinear programs with two parameters. I. Change of stationary indices. (see 91k:90010)
- see also Matsumoto, Toshihiro; et al., 91k:90202
- Shou, Ji Lin (with Liu, Pei Yi) Differential stability in nonsmooth parameter programming. (Chinese. English summary) 91i:90072
- Singh, Ashok Kumar¹ see Lai, Shiva Narala; et al., 91k:90106
- Srinivasan, S. see Fernández-Baca, David, (Not in MR)
- Stoyan, E. Yu. see Sviridov, V. V.; et al., 91c:90110
- Sviridov, V. V. (with Stoyan, E. Yu.; Yakovlev, S. V.) Mapping parametric geometric information in problems of observation and control. (Russian. English summary) 91c:90110
- Tanaka, Tamaki Existence theorems for cone saddle points of vector-valued functions in infinite-dimensional spaces. 91a:90160
- Tang, Da Hong (with Chen, Ting) An interactive method for bicriteria decision making—a further discussion. (Chinese. English summary) (Not in MR)
- Tlahrt, C. A. (with Poore, Aubrey B.) A bifurcation analysis of the nonlinear parametric programming problem. 91h:90109
- Trần Huệ Nhung see Phan Quoc Khanh, 91a:90158
- Vasil'ev, F. P. Regularization methods for unstable minimization problems based on the idea of set extension. (Russian) 91f:90129
- see also Allakbarov, S. M., 91k:90196
- Voinalovich, V. M. Analysis of efficient and matched solutions in two-level systems. (Not in MR)
- Volle, Michel see Azé, D., 91j:90086
- Wang, Yan Zhang (with Wang, Zhong Tuo) A nonobjective-submerging interactive decision-making method for multiobjective linear programming. (Chinese. English summary) (Not in MR)
- Wang, Zhong Tuo see Wang, Yan Zhang. (Not in MR)
- Weber, Gerhard-W. see Jongens, Hubertus Th., 91k:90201
- Weidner, Petra Complete efficiency and interdependencies between objective functions in vector optimization. (German summary) 91a:90161
- Weir, T. On duality in multiobjective fractional programming. 91a:90162
- Wets, Roger J.-B. see Attouch, Hedy, 91g:90161
- Yakovlev, S. V. see Sviridov, V. V.; et al., 91c:90110
- Yano, Hitoshi see Sakawa, Masatoshi, 91a:90159
- Yon, Zhao Yong (with An, He Ping) Sublinear and homogeneous quasiconcavity (quasiconvexity) properties of the optimal value function in parametric nonlinear programming. (Chinese summary) 91h:90110
- (with An, He Ping) Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming. I. (Chinese. English summary) 91h:90111
- Zhang, Xiang Sun (with Liu, De Gang) A note on the continuity of solutions of parametric linear programs. 91m:90172
- Zlobec, S. see Charnes, A.; et al., (91k:90010)

Items with secondary classifications in 90C31

- Abdel-Fattah, Ibrahim Mousa Probabilistic version for sensitivity analysis in deterministic linear programming model. (Not in MR)
- Alt, Walter Stability of solutions for a class of nonlinear cone constrained optimization problems. I. Basic theory. 91d:49027
- Stability of solutions for a class of nonlinear cone constrained optimization problems. II. Application to parameter estimation. 91d:49028
- Barda, O. Hahuk (with Dupuis, Joseph; Lencioni, Pierre) Multicriteria location of thermal power plants. (Not in MR)
- Bryson, Noel Parametric programming and Lagrangian relaxation: the case of the network problem with a single side-constraint. 91m:90178
- (Cellina, Arrigo) see Methods of nonconvex analysis, 91h:49002
- Chadha, S. S. An upper bounded parametric linear program. 91b:90116
- Charnes, A. (with Neralic, L.) Sensitivity analysis in data envelopment analysis. I. (Serbo-Croatian summary) 91h:90060
- Chen, Ting see Zhou, Ze Kun, 91a:90100
- Cominetti, Roberto Metric regularity, tangent sets, and second-order optimality conditions. 91g:90174
- Dolecki, Szymon Tangency and differentiation: marginal functions. 91h:49019
- De Zui Chin¹ see Kovaliv, M. M., 91j:90053
- Dupačová, Jitka Stability and sensitivity analysis for stochastic programming. 91k:90131
- Dupuis, Joseph see Barda, O. Hahuk; et al., (Not in MR)
- Eswaran, P. K. (with Ravindran, A.; Moskowitz, Herbert) Algorithms for nonlinear integer bicriterion problems. 91a:90116
- Fernández-Baca, David (with Slutski, Giora) Solving parametric problems on trees. 91a:68126
- Fiacco, Anthony V. Perturbed variations of penalty function methods. Example: projective SUMT. 91m:90153
- (with Ishizuka, Yo) Suggested research topics in sensitivity and stability analysis for semi-infinite programming problems. (Not in MR)
- Gamkrelidze, L. Ch. (with Ostroukh, E. N.) A method of solving discrete problems of multicriterion optimization. 91j:90062
- Gerth, Christiane (with Heilig, K.; Lipp, R.; Zimmermann, L.) Anwendung der Vektoroptimierung bei Aufgabenstellungen aus der chemischen Industrie. [Applications of vector optimization in stating problems from the chemical industry] (Not in MR)
- Glückauf, D. Auswahl von besten Varianten im Komplexbewertungsvergleich. [Selection of best variants in the comparison of complex evaluations] (Not in MR)
- Grygarová, Libuše see Nožička, František, 91m:90133
- Halmes, Yacov Y. see Li, Duan, (Not in MR)
- Heilig, K. see Gerth, Christiane; et al., (Not in MR)
- Ioffe, Alexandre D. Composite optimization: second order conditions, value functions and sensitivity. 91h:49018
- Ishizuka, Yo see Fiacco, Anthony V., (Not in MR)
- Ivanitskii, A. Yu. see Vasil'ev, F. P.; et al., 91m:65176
- Jenkins, Larry Parametric methods in integer linear programming. 91m:90117
- Kazakov, V. V. see Pavlov, V. V.; et al., (Not in MR)
- Kerber, O. B. see Pavlov, V. V.; et al., (Not in MR)
- Kleinmann, P. (with Schultz, Rüdiger) A simple procedure for optimal load dispatch using parametric programming. (German summary) (Not in MR)

- Kovaliv, M. M. (with Do Zai Chin) A problem of parametric convex discrete optimization. (Russian) 91j:90053
- Krysov, Yu. A. see Ven, V. L. 91h:90069
- Kyparisis, Jerzy Solution differentiability for variational inequalities. 91h:49014
- (with Qiu, Yuping) Solution differentiability for oligopolistic network equilibria. 91k:90046
- Lencioni, Pierre see Bards, O. Haluk; et al. (Not in MR)
- Li, Duan (with Haimes, Yacov Y.) Errata: "The uncertainty sensitivity index method (USIM) and its extension" [Naval Res. Logist. 35 (1988), no. 6, 655–672; MR 90a:90108]. (Not in MR)
- Lipp, R. see Gerth, Christiane; et al. (Not in MR)
- Majorov, V. A. see Pavlov, V. V.; et al. (Not in MR)
- Morozov, V. A. see Vasilev, F. P.; et al. 91m:65176
- Monkowitz, Herbert see Eswaran, P. K.; et al. 91a:90116
- Neralic, L. see Charnes, A. 91h:90060
- Nolte, Frank (with Grygarová, Libuše) Some topological questions connected with strictly convex functions. 91m:90133
- Ostrowski, E. N. see Gamkrelidze, L. Ch. 91j:90062
- Outrata, Jiří V. On generalized gradients in optimization problems with set-valued constraints. 91h:49022
- Pavlov, V. V. (with Kazakov, V. V.; Voronin, A. N.; Kerber, O. B.; Majorov, V. A.) Multi-criteria optimization of the quality of processes in a dynamic system. (Not in MR)
- Pinér, J. Solving nonlinear equation systems via global partition and search: some experimental results. (German summary) 91a:65141
- Qiu, Yuping see Kyparisis, Jerzy. 91k:90046
- Ravindran, A. see Eswaran, P. K.; et al. 91a:90116
- Robinson, Stephen M. Corrigenda to: "Local structure of feasible sets in nonlinear programming. III. Stability and sensitivity" [Math. Programming Stud. No. 30 (1987), 45–66; MR 88j:90198]. (Not in MR)
- Rockafellar, R. Tyrrell Perturbation of generalized Kuhn-Tucker points in finite-dimensional optimization. 91e:90113
- Nonsmooth analysis and parametric optimization. 91i:49016
- Rymaruk, V. I. A method for searching for the most preferred element in the nondifferentiable case. (Russian) 91h:90013
- Sachs, Ekkehard W. Convergence of algorithms for perturbed optimization problems. 91k:49047
- Schultz, Rüdiger see Kleinmann, P. (Not in MR)
- Slutski, Gloria see Fernández-Baca, David. 91a:68126
- Tanino, Tetsuo Stability and sensitivity analysis in multiobjective nonlinear programming. 91k:90156
- Vasilev, F. P. (with Ivanitaki, A. Yu.; Morozov, V. A.) An estimate for the rate of convergence of the residual method for problems of linear programming with approximate data. (Russian) 91m:65176
- Ven, V. L. (with Krysov, Yu. A.) Aggregation and approximation in problems of parametric programming. 91h:90069
- Vogel, S. Zur Stabilität von Vektroptimierungsproblemen. [On the stability of vector optimization problems] 91h:90097
- Voronin, A. N. A stochastic multicriteria problem of the design of ergative control systems. (Russian) 91c:93081
- see also Pavlov, V. V.; et al. (Not in MR)
- Ward, James E. (with Wendell, Richard E.) Approaches to sensitivity analysis in linear programming. 91m:90104
- Weir, T. Duality for nondifferentiable multiple objective fractional programming problems. 91a:90163
- Wendell, Richard E. see Ward, James E. 91m:90104
- Yi, Yun Wen (with Zhang, Yi Shun) An optimal planning method for water resource systems. (Chinese) (Not in MR)
- Zalinescu, Constantin Stability for a class of nonlinear optimization problems and applications. 91d:90075
- Zhang, Yi Shun see Yi, Yun Wen. (Not in MR)
- Zhou, Ze Kun (with Chen, Ting) A method for estimating the largest average productivity scale with multi-outputs. (Chinese. English summary) 91a:90100
- Zimmermann, L. see Gerth, Christiane; et al. (Not in MR)
- Items listed otherwise than by author
- Lecture Notes in Mathematics ★ Methods of nonconvex analysis. 91h:49002
- Methods of nonconvex analysis ★ Methods of nonconvex analysis. 91h:49002
- Session:
- Methods of Nonconvex Analysis ★ Methods of nonconvex analysis. 91h:49002
- Varema ★ Methods of nonconvex analysis. 91h:49002
- ### 90C32 Fractional programming
- Arsham, H. (with Kahn, A. B.) A complete algorithm for linear fractional programs. 91h:90112
- Govwami, M. K. (with Sharma, J. K.) Fractional fixed charge complementary programming problem. 91d:90095
- Iglesias, Leonardo see Verduguer, Rolando. 91g:90165
- Kahn, A. B. see Arsham, H. 91h:90112
- Khan, Zulfiqar Ali Converse duality in nonlinear fractional programming. 91h:90073
- Mond, B. see Wei, T. 91m:90173
- Mukherjee, Rathindra Nath¹ see Yadav, Shri Ram. 91d:90096
- Schubert, Siegfried Fractional programming—some recent developments. 91g:90164
- Sharma, J. K. see Govwami, M. K. 91d:90095
- Sher, N. Z. (with Solomon, D. L.) ★ Декомпозиционные методы в дробно-линейном программировании. (Russian) [Decomposition methods in linear fractional programming] 91e:90118
- Solomon, D. L. see Sher, N. Z. 91e:90118
- Stancu-Minasian, I. M. see Tigan, Ștefan. 91f:90130
- Tigan, Ștefan (with Stancu-Minasian, I. M.) Fractional goal programming with inexact data. 91f:90130
- Verduguer, Rolando (with Iglesias, Leonardo) A modified fractional simplex method. (Spanish. English summary) 91g:90165
- Weir, T. Duality for nondifferentiable multiple objective fractional programming problems. 91a:90163
- (with Mond, B.) Duality for fractional programming without a constraint qualification. 91m:90173
- Symmetric dual multiobjective fractional programming. 91m:90174
- Xu, Zeng Kun On inexact fractional programming. (Chinese. English summary) 91h:90113
- Yadav, Shri Ram (with Mukherjee, Rathindra Nath¹) Duality for fractional minimax programming problems. 91d:90096
- Yi, Yun Wen (with Zhang, Yi Shun) An optimal planning method for water resource systems. (Chinese) (Not in MR)
- Zalmai, G. J. Optimality conditions and duality for constrained measurable subset selection problems with minmax objective functions. 91h:90199
- Zhang, Yi Shun see Yi, Yun Wen. (Not in MR)
- Items with secondary classifications in 90C32
- Bakhshi, H. C. see Verma, Vanita; et al. 91h:90076
- Chandra, Suresh (with Craven, B. D.; Mond, B.) Vector-valued Lagrangian and multi-objective fractional programming duality. 91k:90150
- Craven, B. D. see Chandra, Suresh; et al. 91k:90150
- Klafsky, Emil (with Mayer, János; Terlaky, Tamás) Linearly constrained estimation by mathematical programming. 91h:93064
- Mayer, János see Klafsky, Emil; et al. 91h:93064
- Mond, B. see Chandra, Suresh; et al. 91k:90150
- Puri, M. C. see Verma, Vanita; et al. 91h:90076
- Rubal'skii, G. B. Integer minimization of fractional-separable functions. (Russian) 91k:90125
- Rueda, Norma G. see Singh, Chanchal. 91h:49038
- Sakawa, Masatoshi see Yano, Hitoshi. 91b:90172
- Sgurev, Vasil S. A maximum network flow and a capacity in networks with nonlinear constraints. (Russian summary) 91c:90044
- Singh, Chanchal (with Rueda, Norma G.) Generalized fractional programming: optimality and duality theory. 91h:49038
- Terlaky, Tamás see Klafsky, Emil; et al. 91h:93064
- Verma, Vanita (with Bakhshi, H. C.; Puri, M. C.) Ranking in integer linear fractional programming problems. (German summary) 91h:90076
- Yano, Hitoshi (with Sakawa, Masatoshi) Interactive fuzzy decision making for generalized multiobjective linear fractional programming problems with fuzzy parameters. 91h:90172
- Zalmai, G. J. Optimality conditions and duality for a class of continuous-time generalized fractional programming problems. 91m:90188
- ### 90C33 Complementarity problems
- Al-Khayyal, Faiz A. On characterizing linear complementarity problems as linear programs. 91e:90119
- On solving linear complementarity problems as bilinear programs. (Arabic summary) (Not in MR)
- Broyden, C. G. Lemke's method—a recursive approach. 91h:90074
- Cottle, Richard W. The principal pivoting method revisited. 91m:90175
- De Leone, R. (with Mangasarian, O. L.; Shiau, T. H.) Multi-sweep asynchronous parallel successive overrelaxation for the nonsymmetric linear complementarity problem. 91h:90200
- De Pierre, Alvaro R. Nonlinear relaxation methods for solving symmetric linear complementarity problems. 91h:90201
- Egambaram, N. (with Mohan, Srinivasa Raghavan) On strongly degenerate complementarity cones and solution rays. 91a:90164
- (with Mohan, Srinivasa Raghavan) On some classes of linear complementarity problems with matrices of order n and rank $(n-1)$. 91h:90114
- Govwami, M. K. (with Sharma, J. K.) Some aspects of extreme point complementarity programming problem. 91d:90097
- Gowda, M. Seetharama Complementarity problems over locally compact cones. 91a:90165
- (with Seidman, Thomas I.) Generalized linear complementarity problems. 91f:90131
- Affine pseudomonotone mappings and the linear complementarity problem. 91e:90120
- Harker, Patrick T. (with Pang, Jong-Shi) Finite-dimensional variational inequality and nonlinear complementarity problems: a survey of theory, algorithms and applications. 91g:90166
- (with Xiao, Baichun) Newton's method for the nonlinear complementarity problem: a B-differentiable equation approach. 91m:90176
- Hofkes, M. W. Simplicial algorithm to solve the nonlinear complementarity problem on $S^n \times \mathbb{R}^m$. 91h:90204
- Hu, Xin Sheng (with Tang, Huan Wen) Existence and structural proof of solutions to the complementarity problem for set-valued mappings. (Chinese. English summary) 91j:90088
- Huang, Nan Jing see Zhang, Shi Sheng. 91g:90169
- Isac, G. The numerical range theory and boundedness of solutions of the complementarity problem. 91h:90115
- Jeter, M. W. (with Pye, W. C.) An example of a nonregular semimonotone Q -matrix. 91g:90167
- Kalashnikov, V. V. An existence theorem for a solution of a nonlinear complementarity problem. (Russian) 91j:90089
- Kojima, Masakazu (with Mizuno, Shinji; Noma, Toshihito) Limiting behavior of trajectories generated by a continuation method for monotone complementarity problems. 91k:90205
- (with Mizuno, Shinji; Yoshise, Akiko) Ellipsoids that contain all the solutions of a positive semi-definite linear complementarity problem. 91k:90206

- Kremer, Hans (with Talman, Dolf) Solving the nonlinear complementarity problem with lower and upper bounds. 91f:90132
 — (with Talman, Dolf) Solving the nonlinear complementarity problem. 91f:90133
 Kumar, A. see Parida, J., 91m:90177
 Lal, Shiva Narain see Nath, Balj; et al., 91b:90202
 Lathi, Hans-Jakob Linear complementarity problem with upper bounds. 91g:90168
 Mangasarian, O. L. see De Leone, R.; et al., 91b:90200
 Mathias, Roy (with Pang, Jong-Shi) Error bounds for the linear complementarity problem with a P -matrix. 91e:90121
 Mizuno, Shinji An $O(n^3L)$ algorithm using a sequence for a linear complementarity problem. 91c:90111
 — see also Kojima, Masakazu; et al., 91k:90205 and 91k:90206
 Mohan, Srinivasa Raghavan see Eaganbaram, N., 91a:90164 and 91b:90114
 Mukherjee, Rathindra Nath¹ see Nath, Balj; et al., 91b:90202
 Nath, Balj (with Lal, Shiva Narain; Mukherjee, Rathindra Nath¹) A generalized nonlinear complementarity problem in semi-inner product space. 91b:90202
 Noma, Toshihito see Kojima, Masakazu; et al., 91k:90205
 Noor, Muhammad Aslam Iterative algorithms for semi-linear quasi complementarity problems. 91f:90134
 — General quasi complementarity problems. 91k:90207
 Ogasawara, Hideho Some properties of a quadratic formulation for linear complementarity problems. 91a:90166
 Pang, Jong-Shi see Mathias, Roy, 91e:90121 and Harker, Patrick T., 91g:90166
 Parida, J. (with Kumar, A.) A note on the linear complementarity problem involving a subgradient. 91m:90177
 Pye, W. C. see Jeter, M. W., 91g:90167
 Roha, JH A short proof of finiteness of Murty's principal pivoting algorithm. 91k:90208
 Seidman, Thomas I. see Gowda, M. Seetharama, 91f:90131
 Sharma, J. K. see Goswami, M. K., 91d:90097
 Shian, T. H. see De Leone, R.; et al., 91b:90200
 Shmyrlov, V. I. A problem of polyhedral complementarity. (Russian) 91c:90112
 Talman, Dolf see Kremer, Hans, 91f:90132 and 91f:90133
 Tang, Huan Wen see Hu, Xin Sheng, 91j:90088
 Xiao, Baichun see Harker, Patrick T., 91m:90176
 Yoshise, Akiko see Kojima, Masakazu; et al., 91k:90206
 Zhang, Shi Sheng (with Huang, Nan Jing) Generalized strongly nonlinear quasi-complementarity problems in Hilbert spaces. 91g:90169

Items with secondary classifications in 90C33

- Al-Khayyal, Faiz A. Jointly constrained bilinear programs and related problems: an overview. 91d:90074
 Berman, H. Quadratic programming problems and related linear complementarity problems. 91m:90128
 Chen, Guang Ya (with Yang, Xiao Qi) The vector complementarity problem and its equivalences with the weak minimal element in ordered spaces. 91m:90140
 De Moor, Bart L. see Vandenberghe, Lieven; et al., 91b:94057
 Goswami, M. K. (with Sharma, J. K.) Fractional fixed charge complementarity programming problem. 91d:90095
 Harker, Patrick T. (with Pang, Jong-Shi) A damped-Newton method for the linear complementarity problem. 91f:90101
 He, Bing Sheng General criteria for redundant and nonredundant linear inequalities. (Chinese. English summary) 91e:90130
 Klafsky, Emil (with Terlaky, Tamás) Some generalizations of the criss-cross method for the linear complementarity problem of oriented matroids. 91a:90523
 Noor, Muhammad Aslam On complementarity problems. 91b:90202
 Ogasawara, Hideho On completely adequate matrices. 91j:15020
 Pang, Jong-Shi Solution differentiability and continuation of Newton's method for variational inequality problems over polyhedral sets. 91c:49019
 — see also Harker, Patrick T., 91f:90101
 Sharma, J. K. see Goswami, M. K., 91d:90095
 Shmyrlov, V. I. A class of linear homogeneous complementarity problems in \mathbb{R}_+^n . (Russian) 91m:65174
 Terlaky, Tamás see Klafsky, Emil, 91a:90523
 Tobin, Roger L. Sensitivity analysis for a Cournot equilibrium. 91j:90019
 Trần Văn Thiệu Improvement and implementation of some algorithms for nonconvex optimization problems. 91e:90085
 Vandenberghe, Lieven (with De Moor, Bart L.; Vandewalle, Joos) The generalized linear complementarity problem applied to the complete analysis of resistive piecewise-linear circuits. 91b:94057
 Vandewalle, Joos see Vandenberghe, Lieven; et al., 91b:94057
 Yang, Xiao Qi see Chen, Guang Ya, 91m:90140

90C34 Semi-infinite programming

- Flacco, Anthony V. (with Ishizuka, Yo) Suggested research topics in sensitivity and stability analysis for semi-infinite programming problems. (Not in MR)
 Hettich, R. (with Still, G.) Semi-infinite programming models in robotics. (see 91k:90010)
 Ishizuka, Yo see Flacco, Anthony V., (Not in MR)
 Juhnke, Friedrich Das Umkreisproblem und lineare semiinfinite Optimierung. [The problem of the circumsphere and linear semi-infinite optimization] 91a:90167
 Li, Bao Xiu (with Shen, Yu) An exact penalty function for a class of semi-infinite programming problems. (Chinese. English summary) 91h:90116
 Schäfer, Klaus Semi-infinite linear optimization on noncompact spaces and its application to approximation theory. 91d:90098
 Shen, Yu see Li, Bao Xiu, 91h:90116
 Shwarts, B. see Tichatschke, Rainer, 91e:90122
 Still, G. see Hettich, R., (91k:90010)
 Tichatschke, Rainer (with Shwarts, B.) Methods of feasible directions for extremal problems of semi-infinite type. II. (Russian) 91e:90122

Items with secondary classifications in 90C34

- Bricker, D. L. see Rajgopal, J., 91h:90088
 Harn, Yuh-Pyng (with Polak, Elijah) On the design of finite-dimensional stabilizing compensators for infinite-dimensional feedback-systems via semi-infinite optimization. 91f:93089
 Polak, Elijah see Harn, Yuh-Pyng, 91f:93089
 Rajgopal, J. (with Bricker, D. L.) Posynomial geometric programming as a special case of semi-infinite linear programming. 91h:90088
 Schochetman, Irwin E. (with Smith, Robert L.) Convergence of selections with applications in optimization. 91m:49010
 Smith, Robert L. see Schochetman, Irwin E., 91m:49010
 Tichatschke, Rainer Connections between generalized, inexact and semi-infinite linear programming. 91b:90124

90C35 Programming involving graphs or networks

- Ahlfeld, David P. see Mulvey, John M.; et al., 91d:90099
 Almoahmed, H. A. A polynomial transform for matching pairs of weighted graphs. (Not in MR)
 Bertsekas, Dimitri P. see Tseng, Paul, 91e:90125
 Blenstock, Daniel (with Marcotte, Odile) On a network design problem that is intractable on trees. 91e:90123
 Bryson, Noel Parametric programming and Lagrangian relaxation: the case of the network problem with a single side-constraint. 91m:90178
 De Simone, Caterina Lifting facets of the cut polytope. 91h:90075
 Francis, Richard Lane see Kim, Tae Ung; et al., 91g:90171
 Goldfarb, Donald (with Hao, Jianxiu) A primal simplex algorithm that solves the maximum flow problem in at most nm pivots and $O(n^2m)$ time. 91k:90209
 — (with Hao, Jianxiu; Kai, Sheng-Roan) Anti-stalling pivot rules for the network simplex algorithm. 91g:90170
 Golenko-Ginzburg, Dmitri Metrics in the permutation space. (Not in MR)
 Grozer, Georgi V. A class of algorithms for finding a feasible and optimal flow and tension. (Russian. English summary) 91a:90168
 Gu, Qian Ping (with Takaoka, Tadao) A sharper analysis of a parallel algorithm for the all pairs shortest path problem. 91k:90210
 Guisewite, G. M. (with Pardalos, Panos M.) Minimum concave-cost network flow problems: applications, complexity, and algorithms. 91k:90211
 Hadley, Scott W. see Vannelli, Anthony, 91j:90093
 Hansen, Pierre see Roucairol, Catherine, 91h:90119
 Hao, Jianxiu see Goldfarb, Donald; et al., 91g:90170 and 91k:90209
 Hassin, Refael An algorithm for computing maximum solution bases. 91h:90117
 Iyer, Ananth V. (with Ratliff, H. Donald) Accumulation point location on tree networks for guaranteed time distribution. 91j:90076
 Jablonowski, Janusz (with Zorychta, Krystian) The primary simplex method for network flows. (Polish. English summary) 91f:90135
 Kai, Sheng-Roan see Goldfarb, Donald; et al., 91g:90170
 Khandaf, A. V. The method of second-order optimization in network problems. (Russian. English and Azerbaijani summaries) (Not in MR)
 Kim, Tae Ung (with Lowe, Timothy J.; Ward, James E.; Francis, Richard Lane) A minimum-length covering subtree of a tree. 91g:90171
 Kuznetsov, Aleksandr Georgievich (with Rykov, A. S.) Convergence of adaptive minimization algorithms for objective function minimum drift. 91j:90090
 Lebes, Robert Existence of solutions for an origin-destination matrix estimation problem. (French summary) 91h:90203
 Likholt, N. A. Analysis of the efficiency of some algorithms for covering of a graph by a forest of special type. (Russian) (see 91g:00035)
 Lowe, Timothy J. see Kim, Tae Ung; et al., 91g:90171
 Marcotte, Odile see Blenstock, Daniel, 91e:90123
 Masuzawa, Kaori (with Mizuno, Shinji; Mori, Masao) A polynomial time interior point algorithm for minimum cost flow problems. 91i:90077
 Matveenko, V. D. Optimal trajectories of a dynamic programming scheme and extremal degrees of nonnegative matrices. (Russian) 91e:90136
 Mangert, Antonino Variational and quasivariational inequalities and applications to optimization problems in networks. (Italian. English summary) 91a:90124
 Mizuno, Shinji see Masuzawa, Kaori; et al., 91i:90077
 Mori, Masao see Masuzawa, Kaori; et al., 91i:90077
 Muchow, Dieter (with Werner, Frank) Zur Quasikonvexität ausgewählter Einmaschinenprobleme. [On the quasiconvexity of selected single-machine problems] 91g:90172
 Mulvey, John M. (with Zenios, Stavros A.; Ahlfeld, David P.) Simplicial decomposition for convex generalized networks. 91d:90099
 Narayanan, H. On the minimum hybrid rank of a graph relative to a partition of its edges and its application to electrical network analysis. 91m:90179
 Neumann, Michael M. Some unexpected applications of the sandwich theorem. 91j:90091
 Pachner, Udo How to find maximal unweighted branchings. 91h:90137
 Pardalos, Panos M. see Guisewite, G. M., 91k:90211
 Pełtverger, B. V. (with Shafir, A. Yu.) A problem of optimization of interconnected nonhomogeneous flows with interactive fixed extra charges. 91m:90180
 Poshtara, A. I. A parametric variant of the Lamé problem on the Euclidean plane. (Russian) 91j:90092
 Pourbabil, Behnam A class of chance constrained network optimization problems. 91h:90118
 Ratliff, H. Donald see Iyer, Ananth V., 91j:90076
 Romanli, P. G. An approach to estimating the degree of inconsistency of network models. (Russian. English summary) (Not in MR)
 Roucairol, Catherine (with Hansen, Pierre) Cut cost minimization in graph partitioning. 91h:90119
 Rykov, A. S. see Kuznetsov, Aleksandr Georgievich, 91j:90090
 Shafir, A. Yu. see Pełtverger, B. V., 91m:90180
 Shetty, Bala A heuristic algorithm for a network problem with variable upper bounds. 91c:90113

- Sidorenko, A. F. Extremal combinatorial problems in spaces with continuous measure. (Russian) 91k:90212
- Takaoka, Tadasu. *see* Gu, Qian Ping, 91k:90210
- Tarandova, Raina N. Stability intervals in parametric problems of minimum spanning trees of a graph. (Bulgarian. English summary) 91a:90169
- Tigau, Eugenia. Algorithms to minimize the cost/capacity ratio. (French and Russian summaries) 91m:90181
- Tolst, Philippe L. (with Tuytens, D.) On large scale nonlinear network optimization. 91h:90204
- Tsang, Paul (with Bertsekas, Dimitri P.) Relaxation methods for monotropic programs. 91c:90125
- Tuytens, D. *see* Tolst, Philippe L., 91h:90204
- Vannelli, Anthony (with Hadley, Scott W.) A Gomory-Hu cut tree representation of a netlist partitioning problem. 91f:90093
- Wagner, Donald K. Disjoint (s, t) -cuts in a network. 91h:90120
- Walsh, Gary R. A new $O(n^2)$ shortest chain algorithm. 91c:90126
- Ward, James E. *see* Kim, Tae Ung; et al., 91g:90171
- Werner, Frank *see* Muchow, Dieter, 91g:90172
- Zenios, Stavros A. *see* Mulvey, John M.; et al., 91d:90099
- Zorychta, Krystian *see* Jablonowski, Janusz, 91f:90135
- Items with secondary classifications in 90C35
- Aida-zade, K. R. Investigation of nonlinear optimization problems of network structure. 91f:90047
- Aryupis, D. V. ★ Некоторые вопросы исследования задач на перестановках. (Russian) [Some problems in the study of permutation problems] 91k:90146
- Baldi, Pierre (with Rinott, Yoel; Stein, Charles M.) A normal approximation for the number of local maxima of a random function on a graph. 91f:60043
- Ball, Michael O. (with Derigs, Ulrich; Hilbrand, C.; Metz, Achim) Matching problems with generalized upper bound side constraints. 91h:90068
- Bazaraa, Mokhtar S. (with Jarvis, John J.; Sherali, Hanif D.) ★ Linear programming and network flows. 91k:90001
- Boland, N. (with Mees, A. L.) New methods for multi-commodity flows. 91d:90036
- Bruck, Jehoshua (with Goodman, Joseph W.) On the power of neural networks for solving hard problems. 91f:68080
- Burkard, Rainer E. (with Rote, Günter; Yao, En Yu; Yu, Zhong Liang) Shortest polygonal paths in space. (German summary) 91g:68157
- *see also* Fruehwirth, B.; et al., 91c:90107
- Carpaneto, G. (with Fischetti, Matteo; Toth, Paolo) New lower bounds for the symmetric travelling salesman problem. 91a:90064
- Chen, Wai-Kai *see* Liang, Wen-Hai; et al., 91f:90089
- Chernous'ko, F. L. Constrained controls in linear oscillating systems. 91f:93017
- Chin, Francis Y. L. (with Ting, H. F.) Improving the time complexity of message-optimal distributed algorithms for minimum-weight spanning trees. 91g:68014
- Chung, Moon Jung (with Ravikumar, Bala) Bounds on the size of test sets for sorting and related networks. 91g:68026
- Cieslik, D. The 1-Steiner-minimal-tree problem in Minkowski-spaces. 91m:90060
- Clares, E. Universal maximal dynamic flows with traversal time nonstationary. (Romanian summary) 91a:90065
- Clarkson, Kenneth L. An algorithm for geometric minimum spanning trees requiring nearly linear expected time. 91f:68169
- Conn, Andrew R. *see* Gamble, A. B.; et al., 91m:90057
- Dadoun, N. (with Kirkpatrick, David G.) Parallel algorithms for fractional and maximal independent sets in planar graphs. 91h:68146
- De Luca, Marino (with Mangeri, Antonino) Quasi-variational inequalities and applications to the traffic equilibrium problem; discussion of a paradox. 91c:90106
- Derigs, Ulrich *see* Ball, Michael O.; et al., 91h:90068
- Der Mégrédichian, Guy Meteorological networks optimization from a statistical point of view. 91h:90086
- Dragan, F. F. Conditions for the local and global minima of an eccentricity function to coincide on graphs, and the Helly property. (Russian) 91h:05105
- Dyer, Martin E. (with Frieze, A. M.) On patching algorithms for random asymmetric travelling salesman problems. 91f:90045
- Eiselt, Horst A. A computational study of minimax flow centers in trees. (German summary) 91h:90076
- Falgout, Ulrich (with Schrader, Rainer) Orders and graphs. (German summary) 91d:05085
- Fischetti, Matteo *see* Carpaneto, G.; et al., 91a:90064
- Frederickson, Greg N. A distributed shortest path algorithm for a planar network. 91f:68050
- Frieze, A. M. (with McDiarmid, C. J. H.) On random minimum length spanning trees. 91j:05092
- *see also* Dyer, Martin E., 91f:90045
- Fruehwirth, B. (with Burkard, Rainer E.; Rote, Günter) Approximation of convex curves with application to the bicriterial minimum cost flow problem. 91c:90107
- *see also* Ruhe, G., 91g:90137
- Gamble, A. B. (with Conn, Andrew R.; Pulleyblank, William R.) A network penalty method. 91f:90057
- Gao, Shun-Quan *see* Liang, Wen-Hai; et al., 91f:90089
- Goldfarb, Donald (with Hao, Jianxiu; Kai, Sheng-Roan) Efficient shortest path simplex algorithms. 91j:90027
- Goodman, Joseph W. *see* Bruck, Jehoshua, 91f:68080
- Gordeev, E. N. Stability of a solution in a problem on the shortest path on a graph. (Russian) 91f:05060
- Guenoche, A. Counting and selecting at random bipartite graphs with fixed degrees. (French summary) 91f:05066
- Guignard, Monique (with Rosenwein, Moshe B.) An application of Lagrangean decomposition to the resource-constrained minimum weighted arborescence problem. 91h:90142
- Gusfield, Dan Very simple methods for all pairs network flow analysis. 91g:90067
- Hammer, Peter L. (with Peled, Uri N.; Sun, Xiaorong) Difference graphs. 91g:05110
- Hao, Jianxiu *see* Goldfarb, Donald; et al., 91j:90027
- Helmbold, David P. (with Mayr, Ernst W.) Applications of parallel scheduling algorithms to families of perfect graphs. (German summary) 91g:68062
- Hilbrand, C. *see* Ball, Michael O.; et al., 91h:90068
- Hobbs, Arthur M. (with Vince, Andrew) Minimum solutions of matroids under iterated closure and dual closure. 91a:05021
- Holzman, Ron An axiomatic approach to location on networks. 91k:90084
- Inoue, Koichi *see* Nishihara, O.; et al., 91k:90130
- Iyer, Ananth V. (with Jarvis, John J.; Ratliff, H. Donald) Hierarchical solution of network flow problems. 91m:90061
- Jarvis, John J. *see* Bazaraa, Mokhtar S.; et al., 91h:90001 and Iyer, Ananth V.; et al., 91m:90061
- Kai, Sheng-Roan *see* Goldfarb, Donald; et al., 91j:90027
- Kirkpatrick, David G. *see* Dadoun, N., 91h:68146
- Ko, M. T. (with Lee, R. C. T.) On weighted rectilinear 2-center and 3-center problems. 91h:90056
- Kumamoto, H. *see* Nishihara, O.; et al., 91k:90130
- Kuo, Yu Shên *see* Shih, Wei Kuan; et al., 91h:05117
- Laporte, Gilbert (with Martello, Silvano) The selective travelling salesman problem. 91c:90087
- Lee, Der Tsai (with Sarrafzadeh, M.; Wu, Y. F.) Minimum cuts for circular-arc graphs. 91j:68100
- Lee, Jon? A spectral approach to polyhedral dimension. 91j:52011
- Lee, R. C. T. *see* Ko, M. T., 91h:90056
- Li, Chi-Kwong On certain convex matrix sets. 91h:15023
- Liang, Wen-Hai (with Chen, Wai-Kai; Gao, Shun-Quan) Applications of lattice theory to graph decomposition. 91f:05089
- Luby, Michael (with Ragde, Prabhakar) A bidirectional shortest-path algorithm with good average-case behavior. 91c:68074
- Mainagashv, S. M. *see* Nechepurenko, M. L.; et al., 91j:68056
- Martello, Silvano *see* Laporte, Gilbert, 91c:90087
- Mangeri, Antonino *see* De Luca, Marino, 91c:90106
- Mayr, Ernst W. *see* Helmbold, David P., 91g:68062
- McDiarmid, C. J. H. *see* Frieze, A. M., 91j:05092
- Mees, A. L. *see* Boland, N., 91d:90036
- Melamed, I. L. (with Sergeev, S. I.; Sigal, I. Kh.) The traveling salesman problem. Approximate algorithms. 91h:90159
- Metz, Achim *see* Ball, Michael O.; et al., 91h:90068
- Mohar, Bojan (with Poljak, Svatopluk) Eigenvalues and max-cut problem. 91h:90161
- Möhring, Ralf H. Graph problems related to gate matrix layout and PLA folding. (German summary) (see 91a:68002)
- Monma, Clyde L. (with Schrijver, Alexander; Todd, Michael J.; Wei, Victor K.) Convex resource allocation problems on directed acyclic graphs: duality, complexity, special cases, and extensions. 91j:90047
- Nechepurenko, M. L. (with Popkov, V. K.; Mainagashv, S. M.; et al.) ★ Алгоритмы и программы решения задач на графах и сетях. (Russian) [Algorithms and programs for solving problems on graphs and networks] 91j:68056
- Nishihara, O. (with Kumamoto, H.; Inoue, Koichi) The new formulations of minimum feedback arc set problem. 91k:90130
- Peled, Uri N. *see* Hammer, Peter L.; et al., 91g:05110
- Pelikan, Jan An allocation problem on graphs. (Czech. English summary) (Not in MR)
- Phan Thiên Thạch A decomposition method for the min concave cost flow problem with a staircase structure. 91c:90043
- Pillphak, L. A. A method for solving a nonhomogeneous transportation network problem with additional interval constraints. (Russian) 91a:90112
- Pino, José A. *see* Rosenthal, Arnon, 91h:68147
- Poljak, Svatopluk *see* Mohar, Bojan, 91h:90161
- Popkov, V. K. *see* Nechepurenko, M. L.; et al., 91j:68056
- Proskurowski, Andrzej (with Sykalo, Maciej M.) Efficient computations in tree-like graphs. (German summary) 91g:05129
- Pulleyblank, William R. *see* Gamble, A. B.; et al., 91m:90057
- Ragde, Prabhakar *see* Luby, Michael, 91c:68074
- Ramachandran, Vijaya A minimax arc theorem for reducible flow graphs. 91h:68120
- Ratliff, H. Donald *see* Iyer, Ananth V.; et al., 91m:90061
- Ravikumar, Bala *see* Chung, Moon Jung, 91g:68026
- Richey, Michael B. Optimal location of a path or tree on a network with cycles. 91f:90049
- Rinott, Yoel *see* Baldi, Pierre; et al., 91f:60043
- Rosenthal, Arnon (with Pino, José A.) A generalized algorithm for centrality problems on trees. 91h:68147
- Rosenwein, Moshe B. *see* Guignard, Monique, 91h:90142
- Rote, Günter *see* Fruehwirth, B.; et al., 91c:90107 and Burkard, Rainer E.; et al., 91g:68157
- Ruhe, G. (with Fruehwirth, B.) ϵ -optimality for bicriteria programs and its application to minimum cost flows. (German summary) 91g:90137
- Sarrafzadeh, M. *see* Lee, Der Tsai; et al., 91j:68100
- Schrader, Rainer *see* Falgout, Ulrich, 91d:05085
- Schrijver, Alexander *see* Monma, Clyde L.; et al., 91j:90047
- Sergeev, S. I. *see* Melamed, I. L.; et al., 91h:90159
- Sgurev, Vasil S. A maximum network flow and a capacity in networks with nonlinear constraints. (Russian summary) 91c:90044
- Shakhbazyan, K. V. Representation of processes in graphs. 91f:05096
- Sherali, Hanif D. *see* Bazaraa, Mokhtar S.; et al., 91h:90001
- Shih, Wei Kuan (with Wu, Sun; Kuo, Yu Shên) Unifying maximum cut and minimum cut of a planar graph. 91h:05117
- Sigal, I. Kh. *see* Melamed, I. L.; et al., 91h:90159
- Song, Ji Cheng *see* Song, Zeng Min, 91g:05059
- Song, Zeng Min (with Song, Ji Cheng) Paths and the number of arcs in digraphs. (Chinese. English summary) 91g:05059
- Stein, Charles M. *see* Baldi, Pierre; et al., 91f:60043
- Sun, Xiaorong *see* Hammer, Peter L.; et al., 91g:05110
- Sykalo, Maciej M. *see* Proskurowski, Andrzej, 91g:05129
- Ting, H. F. *see* Chin, Francis Y. L., 91g:68014

Todd, Michael J. *see* Monma, Clyde L.; et al., 91j:90047

Toth, Paolo *see* Carpaneto, G.; et al., 91a:90064

Vince, Andrew *see* Hobbs, Arthur M., 91a:05021

Wei, Victor K. *see* Monma, Clyde L.; et al., 91j:90047

Wu, Sun *see* Shih, Wei Kuan; et al., 91h:05117

Wu, Y. F. *see* Lee, Der Tsai; et al., 91j:68100

Yao, En Yu *see* Burkard, Rainer E.; et al., 91g:68157

Yu, Zhong Liang *see* Burkard, Rainer E.; et al., 91g:68157

Zhang, Cun Quan Finding critical independent sets and critical vertex subsets are polynomial problems. 91f:68172

90C39 Dynamic programming [see also 49L20]

Ahn, C. W. *see* Esogbue, A. O., (Not in MR)

Alekseev, A. O. *see* Alekseev, O. G.; et al., (Not in MR)

Alekseev, O. G. (with Alekseev, A. O.; Kiselev, V. D.; Mirovitskii, G. P.) Application of duality for increasing the efficiency of the method of counter solution of functional equations in dynamic programming. (Russian. English summary) (Not in MR)

Alakbarov, S. M. Application of the method of dynamic programming to problems of standardization type. 91c:90127

Bagotskaya, N. V. (with Levit, V. E.; Losev, I. S.) A combinatorial structure that ensures the applicability of the dynamic programming method. 91a:90170

Beckmann, M. J. Dynamic programming and the secretary problem. 91a:90171

Chow, Chee-Seng (with Tsitsiklis, John N.) The complexity of dynamic programming. 91c:90114

Cocan, Moise Über die Bellmansche Funktionalgleichung für die stochastische dynamische Prozessen. (Romanian summary) [On Bellman's functional equation for stochastic dynamical processes] 91a:90172

Esogbue, A. O. (with Ahn, C. W.) Computational experiments with a class of dynamic programming algorithms of higher dimensions. (Not in MR)

Haimes, Yacov Y. *see* Li, Duan, 91b:90205

Hansen, Floyd B. Computational stochastic dynamic programming on a vector multiprocessor. (Not in MR)

Hinderer, Karl Looking at the structure of dynamic programs with PC support. A review. (see 91f:90006)

Kirin, N. E. Dynamic programming with respect to feedback. (Russian) (see 91b:00036)

Kiselev, V. D. *see* Alekseev, O. G.; et al., (Not in MR)

Levit, V. E. *see* Bagotskaya, N. V.; et al., 91a:90170

Li, Duan (with Haimes, Yacov Y.) New approach for nonseparable dynamic programming problems. 91b:90205

Losev, I. S. *see* Bagotskaya, N. V.; et al., 91a:90170

Mirovitskii, G. P. *see* Alekseev, O. G.; et al., (Not in MR)

Quadrat, Jean-Pierre Théorèmes asymptotiques en programmation dynamique. (English summary) [Asymptotic theorems in dynamic programming] 91k:90213

Schli, Manfred On stochastic dynamic programming: a bridge between Markov decision processes and gambling. 91k:90214

Shachter, Ross D. *see* Tatman, Joseph A., 91d:90100

Sponge, John L. Speeding up dynamic programming algorithms for finding optimal lattice paths. 91b:90182

Sun, Min Iterative algorithms for solving undiscounted Bellman equations. 91b:90121

Tatman, Joseph A. (with Shachter, Ross D.) Dynamic programming and influence diagrams. 91d:90100

Tsitsiklis, John N. *see* Chow, Chee-Seng, 91c:90114

Wang, Chung-Lie Dynamic programming and the Lagrange multipliers. 91f:90139

Items with secondary classifications in 90C39

Aho, Katsunori Optimal selection problem with three stops. 91c:90115

— Bilateral secretary problem recognizing the maximum or the second maximum of a sequence. 91b:90235

Balder, Erik J. On compactness of the space of policies in stochastic dynamic programming. 91b:90212

Bertsekas, Dimitri P. *see* Dunn, J. C., 91a:49022

Chang, Yun Xiu *see* Feng, En Min; et al., (Not in MR)

Coan, Brian A. (with Dolev, Danny; Dwork, Cynthia; Stockmeyer, Larry) The distributed firing squad problem. 91a:68010

Dolev, Danny *see* Coan, Brian A.; et al., 91a:68010

Dorea, C. C. Y. Stopping rules for a random optimization method. 91b:90178

Dunn, J. C. (with Bertsekas, Dimitri P.) Efficient dynamic programming implementations of Newton's method for unconstrained optimal control problems. 91a:49022

(Duscha, G.) *see* Schmitz, N., 91a:62215

Dwork, Cynthia *see* Coan, Brian A.; et al., 91a:68010

Feigenbaum, Joan (with Haddad, Ramsey W.) On factorable extensions and subgraphs of prime graphs. 91c:68120

Feng, En Min (with Wu, Tie Sheng; Piao, Ming Zhi; Chang, Yun Xiu) An optimization model and an algorithm for acting dynamic parameters. (Chinese. English summary) (Not in MR)

Galli, Zvi (with Park, Kunsoo) A linear-time algorithm for concave one-dimensional dynamic programming. (Not in MR)

Haddad, Ramsey W. *see* Feigenbaum, Joan, 91c:68120

(Harenbrock, M.) *see* Schmitz, N., 91a:62215

Haurie, Alain (with Tolwinski, Boleslaw) Cooperative equilibria in discounted stochastic sequential games. 91k:93078

Helman, Paul A common schema for dynamic programming and branch and bound algorithms. 91h:90066

Hinai, Mamoru Delay-minimizing control and bandwidth-maximizing control of coordinated traffic signals by dynamic programming. (see 91i:90029)

Kantner, N. V. Some methods for solving problems in linear dynamical programming. (Russian) 91h:49033

Karlov, V. I. (with Krasil'shchikov, M. N.; Malyshev, V. V.) Controlling observational process under conditions of statistical uncertainty (survey). II. 91b:93178

Kiselev, V. N. (with Malafeev, O. A.) Game-theoretic dynamic search problems. (Russian) 91f:90066

Kohl, Rajeev (with Krishnamurti, Ramesh) Average performance of heuristics for satisfiability. 91a:68131

Krasil'shchikov, M. N. *see* Karlov, V. I.; et al., 91b:93178

Krishnamurti, Ramesh *see* Kohl, Rajeev, 91a:68131

Kuang, Yong Zhu Analysis of a stochastic economic system. (Chinese. English summary) 91m:90035

Li, Duan Multiple objectives and nonseparability in stochastic dynamic programming. 91m:90143

Lipfert, Wilfried Über ein stochastisches Entscheidungsmodell mit allgemeinen vektorwertigen Ertragsfunktionalen. [On a stochastic decision model with general vector-valued reward functionals] 91b:90124

(Llibert, J.) *see* Schmitz, N., 91a:62215

Majumdar, A. A. K. Optimal stopping based on success or failure run. 91a:60115

Malafeev, O. A. *see* Kiselev, V. N., 91f:90066

Malyshev, V. V. *see* Karlov, V. I.; et al., 91b:93178

Menaldi, José-Luis (with Robin, Maurice) On the optimal reward function of the continuous time multiarmed bandit problem. 91c:90116

Moore, James C. (with Richmond, William B.; Whinston, Andrew B.) Optimal decision processes and algorithms. 91f:90010

Nakal, Teruhisa Optimal search for an object with unknown type. 91c:90063

Park, Kunsoo *see* Galli, Zvi, (Not in MR)

Piao, Ming Zhi *see* Feng, En Min; et al., (Not in MR)

Richmond, William B. *see* Moore, James C.; et al., 91f:90010

Robin, Maurice *see* Menaldi, José-Luis, 91c:90116

Roth, Alvin E. (with Sotomayor, Marilda) The college admissions problem revisited. 91a:9016a

— (with Sotomayor, Marilda) Erratum: "The college admissions problem revisited". 91a:9016b

Schmitz, N. ★ Optimale sequentiell geplante Entscheidungsverfahren. Teil I. (German) [Optimal sequentially planned decision methods. Part I] 91a:62215

Shevchenko, T. D. Nondifferentiable problems of controlling pencils of trajectories. (Russian) 91b:49024

Sotomayor, Marilda *see* Roth, Alvin E., 91a:9016a and 91a:9016b

Stockmeyer, Larry *see* Coan, Brian A.; et al., 91a:68010

Tanaka, Kensuke On discounted dynamic programming with constraints. 91k:49045

Tolwinski, Boleslaw Numerical solutions to differential games based on approximations by Markov games. 91a:90206

— *see also* Haurie, Alain, 91k:93078

Wachs, Michelle L. On an efficient dynamic programming technique of F. F. Yao. 91f:68029

Whinston, Andrew B. *see* Moore, James C.; et al., 91f:90010

Wu, Tie Sheng *see* Feng, En Min; et al., (Not in MR)

Yanushauskaite, N. A. *see* Zabelo, L. E., 91j:90061

Zabelo, L. E. (with Yanushauskaite, N. A.) Solution of a combinatorial problem by the dynamic programming method. (Russian) 91j:90061

90C40 Markov and semi-Markov decision processes

Aho, Katsunori Optimal selection problem with three stops. 91c:90115

Arapostathis, Aristotle *see* Fernández-Gaucherand, Emmanuel; et al., 91a:90173 and 91f:90079

Bahnasawi, Ahmed A. (with Mahmoud, Magdi S.; Eid, Shawki Z.) Variable structure control of nonlinear adaptive model-following systems. (Not in MR)

Basar, Tamer *see* Srikant, R., 91c:90117

Ben-Israel, Adi (with Fläm, Sjur D.) A bisection/successive approximation method for computing Gittins indices. (German summary) 91f:90078

(Berninghaus, Siegfried) *see* Goldberg, Matthew S., (Not in MR)

Bielecki, Tomasz R. (with Filar, Jerzy A.) Singularly perturbed Markov control problem: limiting average cost. 91b:90206

Borjas, George J. *see* Goldberg, Matthew S., (Not in MR)

Chen, Ting *see* Zeng, Dao Zhi; et al., 91b:90127

Du, Ding Zhu *see* Yang, Feng, 91b:90126

Easley, David (with Kiefer, Nicholas M.) Optimal learning with endogenous data. 91b:90122

Eid, Shawki Z. *see* Bahnasawi, Ahmed A.; et al., (Not in MR)

Fassbender, Matthias Optimal stationary strategies in leaveable Markov decision processes. 91b:90207

Fay, N. A. *see* Glazebrook, K. D., 91m:90183

Federgruen, Avi Some approximation approaches in large-scale Markov decision problems: applications to one warehouse multiple retailer systems. (see 91a:90002)

Fernández-Gaucherand, Emmanuel (with Arapostathis, Aristotle; Marcus, Steven I.) On partially observable Markov decision processes with an average cost criterion. 91a:90173

— (with Arapostathis, Aristotle; Marcus, Steven I.) Remarks on the existence of solutions to the average cost optimality equation in Markov decision processes. 91f:90079

Filar, Jerzy A. *see* Bielecki, Tomasz R., 91b:90206

Fläm, Sjur D. *see* Ben-Israel, Adi, 91b:90078

Forgá, F. (with Schick, G. J.) A Bayesian approach for updating weights of criteria for multicriteria decision problems. (Not in MR)

Ghosh, Mrinal K. Markov decision processes with multiple costs. 91h:90123

Glazebrook, K. D. Procedures for the evaluation of strategies for resource allocation in a stochastic environment. 91a:90174

— (with Fay, N. A.) Evaluating strategies for Markov decision processes in parallel. 91m:90183

— (with Owen, R. W.) New results for generalized bandit problems. 91k:90215

Goldberg, Matthew S. (with Borjas, George J.) A comment: "Job search with belated information and wage signalling" [J. Econom. Dynamics Control 10 (1986), no. 4, 495-508; MR 88b:90140] by Siegfried Berninghaus. (Not in MR)

- Gordienko, E. I. Stability and existence of canonical strategies for the control of Markov sequences. (Russian) (see 91g:60003)
- Guo, Xian Ping. Approximation of Markov decision process average models using expected state transitions. (Chinese. English summary) 91j:90094
- Hu, Qi Ying. CTMDP and its relationship with DTMDP. (Not in MR)
- Kiefer, Nicholas M. see Easley, David, 91h:90122
- Kleinman, David L. see Tang, Zhuang-Bo; et al., (Not in MR)
- Kochler, Gary J. Relationships between various Markovian decision problem classes. 91m:90184
- Kolokotsos, V. N. Turnpikes and infinite extremals in Markov decision processes. (Russian) 91k:90216
- Kudryavtsev, D. I. Control of a Markov process in a problem with constraints. 91h:90208
- Lipfert, Wilfried. Über ein stochastisches Entscheidungsmodell mit allgemeinen vektorwertigen Ertragsfunktionalen. [On a stochastic decision model with general vector-valued reward functionals] 91h:90124
— see also Tasler, Beate, 91h:90209
- Liu, Jian Yong (with Liu, Ke) Markovian decision programming with recursive vector-reward. 91g:90173
- Liu, Ke see Liu, Jian Yong, 91g:90173
- Lovejoy, William S. Computationally feasible bounds for partially observed Markov decision processes. 91m:90185
- Mahmoud, Magdi S. see Bahasawi, Ahmed A.; et al., (Not in MR)
- Makowski, Armand M. see Shwartz, Adam, 91a:90175
- Marcus, Steven I. see Fernández-Gancherand, Emmanuel; et al., 91a:90173 and 91j:90079
- Matsuda, Chikao see Tanaka, Kensuke, 91f:90140
- Menaldi, José-Luis (with Robin, Maurice) On the optimal reward function of the continuous time multiarmed bandit problem. 91c:90116
- Nakai, Taro. A stochastic ordering and related sequential decision problems. 91k:90217
- Novák, Jiří. VMDP-program for solving optimality problems in vector criterion Markov and semi-Markov decision processes. 91k:90218
- Owen, R. W. see Glazebrook, K. D., 91k:90215
- Pattipati, Krishna R. see Tang, Zhuang-Bo; et al., (Not in MR)
- Pflug, Georg Ch. On-line optimization of simulated Markovian processes. 91j:90095
- Robin, Maurice see Menaldi, José-Luis, 91c:90116
- Rubinstein, Reuven Y. How to optimize discrete-event systems from a single sample path by the score function method. 91m:90186
- Schäl, Manfred. On the chance to visit a goal set infinitely often. 91h:90125
- Schick, G. J. see Forgy, F., (Not in MR)
- Shwartz, Adam (with Makowski, Armand M.) Comparing policies in Markov decision processes: Mandl's lemma revisited. 91a:90175
- Srikant, R. (with Basar, Tamer) Optimal solutions in weakly coupled multiple decision maker Markov chains with nonclassical information. 91c:90117
- Tanaka, Kensuke (with Matsuda, Chikao) On a continuously discounted vector valued Markov decision process. 91f:90140
- Tang, Zhuang-Bo (with Pattipati, Krishna R.; Kleinman, David L.) An algorithm for determining the decision thresholds in a distributed detection problem. (Not in MR)
- Tasler, Beate (with Lipfert, Wilfried) Ein unvollständig beobachtbares stochastisches Entscheidungsmodell mit allgemeinen Ertragsfunktionalen. [A partially observable stochastic decision model with general reward functionals] 91h:90209
— Unvollständig beobachtbare stochastische Entscheidungsmodelle mit nichtadditiven Ertragsfunktionalen. (English and Russian summaries) [Partially observable stochastic decision models with nonadditive reward functionals] 91h:90210
- Wei, Li Ren. T-stationary approximation for nonstationary Markov decision programming. 91h:90211
- White, Douglas John. Approximating the Markov property in Markov decision processes. 91c:90128
— Separable value functions for infinite horizon average reward Markov decision processes. 91c:90129
- Yang, Feng (with Du, Ding Zhu) The complexity of determinacy problem on group testing. 91h:90126
- Yue, Chao Yuan see Zeng, Dao Zhi; et al., 91h:90127
- Yushkevich, A. A. Letter to the editors: "Verification theorems for Markov decision processes with controllable deterministic drift, gradual and impulse controls" [Teor. Veroyatnost. i Primenen. 34 (1989), no. 3, 528–551]. 91a:90176
- Zeng, Dao Zhi (with Chen, Ting; Yue, Chao Yuan) Bilevel decision problems in finite combinatorics. (Chinese. English summary) 91h:90127
- Items with secondary classifications in 90C40**
- Alidrisi, Mustafa M. Optimal control of the service rate of an exponential queueing network using Markov decision theory. 91j:90033
- Atfili, F. A. A note on the expected discounted cost of operating a finite dam. 91f:60184
— Corrigendum: "A note on the expected discounted cost of operating a finite dam" [Stochastic Process. Appl. 31 (1989), no. 1, 161–166; MR 91f:60184]. (Not in MR)
- Balder, Erik J. On compactness of the space of policies in stochastic dynamic programming. 91h:90212
- Cahlon, Baruch (with Gertsbakh, I. B.; Schachetman, Irwin E.) Fixed-points for extrema of contractions. 91h:54074
- Connors, Daniel P. (with Kumar, P. R.) Simulated annealing type Markov chains and their order balance equations. 91k:60076
- Davis, Mark H. A. Necessary conditions for optimality in the control of piecewise-deterministic Markov processes. 91a:49020
— see also Ribeiro do Val, João Bosco, 91k:49042
- Dawid, A. P. see Lauritzen, Steffen L.; et al., 91g:68139
- Douchet, D. S. On the two-arm bandit problem with continuous time in the presence of gradual and impulse controls. 91f:90089
- (Douchet, G.) see Schmitz, N., 91a:62215
- Federgruen, Awi (with So, Kut C.) Optimal maintenance policies for single-server queueing systems subject to breakdowns. 91c:90052
- Ferguson, Michael see Jalali, Ahmad, 91c:93050
- Fox, Bennett L. (with Glynn, Peter W.) Discrete-time conversion for simulating finite-horizon Markov processes. 91f:60120
- Georgiou, A. C. see Vassiliou, P.-C. G., 91f:60182
- Gertsbakh, I. B. see Cahlon, Baruch; et al., 91h:54074
- Glynn, Peter W. see Fox, Bennett L., 91f:60120
- (Harenbrock, M.) see Schmitz, N., 91a:62215
- He, Qi Ming see Xu, Guang Hui, 91f:60229
- Hordijk, A. On the transition probabilities of a Markov process. 91f:60121
- Jalali, Ahmad (with Ferguson, Michael) Adaptive control of Markov chains with local updates. 91c:93050
- Katehakis, Michael N. (with Melolidakis, Costis) On stochastic optimality of policies in first passage problems. 91h:90034
- Krzysztofowicz, Roman (with Long, Dou) To protect or not to protect: Bayes decisions with forecasts. 91g:90005
- Kumar, P. R. see Connors, Daniel P., 91k:60076
- Larsen, B. N. see Lauritzen, Steffen L.; et al., 91g:68139
- Lauritzen, Steffen L. (with Dawid, A. P.; Larsen, B. N.; Leimer, H.-G.) Independence properties of directed Markov fields. 91g:68139
- Leimer, H.-G. see Lauritzen, Steffen L.; et al., 91g:68139
- Long, Dou see Krzysztofowicz, Roman, 91g:90005
- (Lübbert, J.) see Schmitz, N., 91a:62215
- Lugosi, E. see Yakowitz, S., 91h:68153
- McNamara, J. M. The policy which maximises long-term survival of an animal faced with the risks of starvation and predation. 91g:92026
- Melolidakis, Costis see Katehakis, Michael N., 91h:90034
- Nishida, Toshio see Shimomori, Shuichi; et al., 91m:90075
- Ohi, Fumio see Shimomori, Shuichi; et al., 91m:90075
- Pinsker, M. S. see Vvedenskaya, N. D., 91h:68021
- Postan, M. Ya. ★ Полумарковские процессы накопления и расходования запасов и их применение. (Russian) [Semi-Markov processes of the accumulation and expenditure of reserves and their application] 91f:60228
- Ramachandran, K. M. Nearly optimal control of queues in heavy traffic with heterogeneous servers. 91a:93063
- Ribeiro do Val, João Bosco (with Davis, Mark H. A.) Local optimality criteria for stochastic control of piecewise deterministic processes. (Portuguese. English summary) 91k:49042
- Royer, Gilles. A remark on simulated annealing of diffusion processes. 91f:60102
- Schäl, Manfred. On stochastic dynamic programming: a bridge between Markov decision processes and gambling. 91h:90214
- Schmitz, N. ★ Optimale sequentiell geplante Entscheidungsverfahren. Teil I. (German) [Optimal sequentially planned decision methods. Part I] 91a:62215
- Schachetman, Irwin E. see Cahlon, Baruch; et al., 91h:54074
- Shimomori, Shuichi (with Ohi, Fumio; Nishida, Toshio) Stochastic bounds for generalized systems in reliability theory. 91m:90075
- So, Kut C. see Federgruen, Awi, 91c:90052
- Stidham, Shaler, Jr. (with Weber, Richard R.) Monotonic and insensitive optimal policies for control of queues with undiscounted costs. 91a:60265
- Vassiliou, P.-C. G. (with Georgiou, A. C.) Asymptotically attainable structures in nonhomogeneous Markov systems. 91f:60182
- Vrieze, Kees. Zero-sum stochastic games. A survey. 91a:90200
- Vrieze, O. J. Stochastic games and the total reward criterion. 91f:90160
- Vvedenskaya, N. D. (with Pinsker, M. S.) A throughput estimate for FCFS multiple access algorithms. 91h:68021
- Weber, Richard R. see Stidham, Shaler, Jr., 91a:60265
- Xu, Guang Hui (with He, Qi Ming) The residual life for alternating renewal processes. 91f:60229
- Yakowitz, S. (with Lugosi, E.) Random search in the presence of noise, with application to machine learning. 91h:68153
- Zhou, Xun Yu. The connection between the maximum principle and dynamic programming in stochastic control. 91f:93128
- 90C42 Markov programming and Markov renewal programming**
- Balder, Erik J. On compactness of the space of policies in stochastic dynamic programming. 91h:90212
- Johnson, Mary A. (with Taaffe, Michael R.) Matching moments to phase distributions: nonlinear programming approaches. 91j:90096
— (with Taaffe, Michael R.) Matching moments to phase distributions: density function shapes. 91j:90096
- Taaffe, Michael R. see Johnson, Mary A., 91j:90096 and 91j:90096
- Items with secondary classifications in 90C42**
- Boucherle, Richard J. (with van Dijk, Nico M.) Spatial birth-death processes with multiple changes and applications to batch service networks and clustering processes. 91f:60123
- van Dijk, Nico M. see Boucherle, Richard J., 91f:60123
- 90C45 Continuous programming**
- Hanson, M. A. Continuous-time programming. 91h:90213
- Zalmal, G. J. Optimality conditions and duality for a class of continuous-time programming problems with nonlinear operator equality and inequality constraints. 91k:90219
— Generalized sufficiency criteria in continuous-time programming with application to a class of variational-type inequalities. 91m:90187
— Optimality conditions and duality for a class of continuous-time generalized fractional programming problems. 91m:90188
— Symmetric duality in continuous-time programming via minmax duality. 91m:90189
- Items with secondary classifications in 90C45**
- Kakes, Alibelt (with Oliva, Aurora) A two-step method for dynamical linear models. (Spanish. English summary) 91c:90096
- Oliva, Aurora see Kakes, Alibelt, 91c:90096

Rachev, Svetlozar T. (with Rüschendorf, Ludger) A transformation property of minimal metrics. 91f:60005

Rüschendorf, Ludger *see* Rachev, Svetlozar T., 91f:60005

90C48 Programming in abstract spaces

Anderson, Edward J. (with Lewis, Adrian S.) An extension of the simplex algorithm for semi-infinite linear programming. 91c:90118

Bobylyev, N. A. (with Ismailov, I. G.; Propoi, A. I.) The continuation method in the problem of the approximate construction of solutions of infinite-dimensional optimization problems. 91k:90220

Chentsov, A. G. On extension and stability with respect to a result in a class of extremal problems. (Russian. English summary) (Not in MR)

Choban, M. M. (with Kenderov, P. S.; Revalski, J. P.) Generic well-posedness of optimization problems in topological spaces. 91c:90119

Cominetti, Roberto Metric regularity, tangent sets, and second-order optimality conditions. 91g:90174

Dancs, S. Generalized tangent cone and an optimization problem in a normed space. 91i:90080

Dù Van Lu'u Regularity and sufficient optimality conditions for some classes of mathematical programming problems. 91c:90120

— Optimality conditions for discrete minimax problems in infinite-dimensional spaces. (Vietnamese. English summary) 91b:90214

Elster, Karl-Heinz (with Göpfert, Alfred) Conjugation concepts in optimization. 91f:90141

Ersever, E. A. Internal characteristics for the optimality of transformations. (Russian) 91i:90081

Göpfert, Alfred *see* Elster, Karl-Heinz, 91f:90141

He, Bing Sheng General criteria for redundant and nonredundant linear inequalities. (Chinese. English summary) 91c:90130

Ismailov, I. G. *see* Bobilyev, N. A.; et al., 91k:90220

Kaplan, A. A. The rate of convergence of a regularized method for smoothing exact penalty functions. (Russian) 91b:90215

Kenderov, P. S. *see* Choban, M. M.; et al., 91c:90119

Lai, Han Ch'ing (with Lin, Lai Ch'ü) Optimality for set functions with values in ordered vector spaces. 91c:90121

Lewis, Adrian S. *see* Anderson, Edward J., 91c:90118

Li, Shi Zheng A dual problem for convex programming in ordered vector spaces. 91m:90190

Li, Ze Min Generalized Kuhn-Tucker conditions for vector extremum problems in linear topological spaces. (Chinese. English summary) 91c:90131

Lin, Lai Ch'ü *see* Lai, Han Ch'ing, 91c:90121

Loridan, Pierre (with Morgan, Jacqueline) New results on approximate solutions in two-level optimization. 91c:90122

Martellotti, Anna (with Salvadori, Anna) Inequality systems and minimax results without linear structure. 91c:90122

Merkovskiy, R. R. (with Ward, D. E.) Upper DSL approximates and nonsmooth optimization. 91d:90101

Morgan, Jacqueline *see* Loridan, Pierre, 91c:90122

Novikova, N. M. Iterative regularization of the approximation of the penalty method in a Hilbert space. 91a:90178

Nowak, Andrzej S. On the weak topology on a space of probability measures induced by policies. (Russian summary) 91f:90142

Pi, Li Li A class of extreme value problems for K -concave vector-valued functions. (Chinese) 91a:90179

Pierl, G. Sufficient conditions for the existence of solutions for bilevel minimization problems, with constraints in Banach spaces. (Italian. English summary) 91j:90097

Postolache, Vasile Existence conditions of efficient points for multifunctions with values in locally convex spaces. 91b:90216

Propoi, A. I. *see* Bobilyev, N. A.; et al., 91k:90220

Revalski, J. P. *see* Choban, M. M.; et al., 91c:90119

Salvadori, Anna *see* Martellotti, Anna, 91c:90122

Schochetman, Irwin E. (with Smith, Robert L.) Infinite horizon optimization. 91g:90175

Smith, Robert L. *see* Schochetman, Irwin E., 91g:90175

Świerniak, Andrzej P. What is optimal in an uncertain environment? (*see* 91c:00032)

Tikhomirov, V. M. Some problems arising in connection with the theory of optimization. 91f:90143

Toussings, P. Sur l'ordre de convergence de l'algorithme du point proximal perturbé. (English summary) [On the rate of convergence of the perturbed proximal point algorithm] 91d:90102

Ward, D. E. *see* Merkovskiy, R. R., 91d:90101

Zadachin, V. M. Necessary and sufficient conditions for a minimum of mixed order. 91a:90180

Zalmal, G. J. Duality for generalized fractional programs involving n -set functions. 91c:90132

Items with secondary classifications in 90C48

Antoine, Philippe (with Zouaki, Hamid) Étude locale de l'ensemble des points critiques d'un problème d'optimisation paramétré. (English summary) [Local study of the set of critical points for a parametrized problem of optimization] 91b:58016

Araujo, Aloisio Pessoa (with Monteiro, P. K.) On programming when the positive cone has an empty interior. 91k:90139

Aubin, Jean-Pierre (with Frankowska, Halina) ★ Set-valued analysis. 91d:49001

Amé, D. (with Volle, Michel) A stability result in quasi-convex programming. 91j:90086

Baklan, A. G. The Moreau-Rockafellar equality for sublinear functionals. 91a:58025

Beer, Gerald A. Three characterizations of the Mosco topology for convex functions. 91d:49013

Ben-El-Mechaiekh, H. Zeros for set-valued maps with noncompact domains. 91h:47059

Berdyshev, Yu. I. Necessary conditions for optimality in a problem of successive optimization. (Russian) 91h:49032

Calligaris, O. (with Oliva, P.) Some remarks on existence theorems for Pareto problems. 91d:90079

Charnes, A. (with Cooper, W. W.; Wei, Quan Ling; Huang, Zhi Min) Fundamental theorems of nondominated solutions associated with cones in normed linear spaces. 91g:90131

Chen, Xiu Su (with Luo, Guo Guang) Necessary conditions for higher-order optimality for extremum problems in topological vector spaces. (Chinese. English summary) 91h:49013

Clarke, Frank H. Applications of proximal subgradients. 91a:49009

— ★ Optimization and nonsmooth analysis. 91c:49001

Cooper, W. W. *see* Charnes, A.; et al., 91g:90131

Degiovanni, Marco Homotopical properties of a class of nonsmooth functions. 91k:49018

Eaves, B. Curtis (with Rothblum, Uriel G.) Relationships of properties of piecewise affine maps over ordered fields. 91j:65078

Ekeland, Ivar The ε -variational principle revisited. 91k:49009

Fabian, Marián Subdifferentiability and trustworthiness in the light of a new variational principle of Borwein and Preiss. 91c:49024

Fattorini, H. O. (with Frankowska, Halina) Necessary conditions for infinite-dimensional control problems. 91k:49034

Frankowska, Halina *see* Aubin, Jean-Pierre, 91d:49001 and Fattorini, H. O., 91k:49034

Giannessi, F. (with Pappalardo, Massimo; Pellegrini, L.) Necessary optimality conditions via image problem. 91c:90098

Handschug, Michael Notwendige Optimalitätsbedingungen für nichtglatte Optimierungsaufgaben und Anwendung auf Steuerprobleme. (English and Russian summaries) [Necessary conditions for optimality for nonsmooth optimization problems and application to control problems] 91c:90109

He, Bing Sheng The saddle point algorithm for general linear programming. (Chinese. English summary) 91m:90099

Heinecke, Gabriele (with Oettli, Werner) A nonlinear theorem of the alternative without regularity assumption. 91g:90148

Helbig, Siegfried On the connectedness of the set of weakly efficient points of a vector optimization problem in locally convex spaces. 91c:90108

Herden, G. On a lifting theorem of Nachbin. 91b:54033

Huang, Zhi Min *see* Charnes, A.; et al., 91g:90131

Huth, Martin (with Tichatschke, Rainer) Ein Hybridverfahren zur Lösung semi-unfiniter Optimierungsaufgaben. [A hybrid method for the solution of semi-infinite optimization problems] 91c:65088

Ioffe, Alexandre D. Nonconvex subdifferentials. 91b:49020

— Composite optimization: second order conditions, value functions and sensitivity. 91h:49018

— Proximal analysis and approximate subdifferentials. 91i:46045

Jeyakumar, V. Duality and infinite-dimensional optimization. 91k:49053

Kaplan, A. A. Convergence rate estimates for regularized methods of solving variational problems. 91a:65156

Kassay, G. (with Kolumbán, L.) On the constrained optimization. 91d:90091

— (with Kolumbán, L.) Implicit functions and variational inequalities for monotone mappings. 91c:47111

Khachatryan, R. A. Necessary conditions for an extremum in problems with constraints of equality type. (Russian. Armenian summary) 91m:49021

Kolumbán, L. *see* Kassay, G., 91c:47111 and 91d:90091

Kurzhanskii, M. A. *see* Vasil'ev, F. P., 91b:65077

Kuznetsova-Sholpo, I. A. (with Rachev, Svetlozar T.) Explicit solutions of moment problems. I. 91g:60009

Levin, V. L. On a problem of convex analysis that arises in optimal control theory. 91f:49050

Luo, Guo Guang *see* Chen, Xiu Su, 91h:49013

Martinez-Legaz, Juan-Enrique (with Singer, Ivan) Lexicographical order, lexicographical index, and linear operators. 91f:15004

— (with Singer, Ivan) Dualities between complete lattices. 91i:06006

Milchenko, L. I. Calculation of subdifferentials of marginal functions by means of a distance function. 91h:90198

Monteiro, P. K. *see* Araujo, Aloisio Pessoa, 91k:90139

Musina, Roberta On the continuity of the Nemitsky operator induced by a Lipschitz continuous map. 91g:58017

Nikol'skii, M. S. Approximation of continuous convex-valued multivalued mappings. (Russian. English summary) 91d:54022

Noll, Dominikus Generic Fréchet-differentiability of convex functions on small sets. 91i:46046

Oettli, Werner *see* Heinecke, Gabriele, 91g:90148

Oliva, P. *see* Calligaris, O., 91d:90079

Papageorgiou, Nikolaos S. Remark on the well-posedness of the problem of minimization of integral functionals. 91a:49027

Pappalardo, Massimo *see* Giannessi, F.; et al., 91c:90098

Pellegrini, L. *see* Giannessi, F.; et al., 91c:90098

Poliquin, René A. Proto-differentiation of subgradient set-valued mappings. 91g:49007

— Subgradient monotonicity and convex functions. 91h:90155

Psotini, Costante Inclusion theorems for nonexplosive and strongly exposed cones in normed spaces. 91c:90097

Rachev, Svetlozar T. *see* Kuznetsova-Sholpo, I. A., 91g:60009

Rodrigues, B. The Fenchel duality theorem in Fréchet spaces. 91b:49047

Rothblum, Uriel G. *see* Eaves, B. Curtis, 91j:65078

Simons, Stephen Are minimax theorems and variational inequalities of Hahn-Banach or Brouwer type? 91h:46125

Singer, Ivan A general theory of dual optimization problems. II. On the perturbational dual problem corresponding to an unperturbational dual problem. (German summary) 91g:49017

— *see also* Martinez-Legaz, Juan-Enrique, 91f:15004 and 91i:06006

Steklovskii, A. S. On the problems of a global extremum in nonconvex extremal problems. 91i:49026

Sun, Jing Xian A question about nonlinear functionals. (Chinese. English summary) 91j:49040

(Terracini, S.) *see* Ekstrand, Ivar, 91k:49009

Thierfelder, J. Trennungsaussagen und Pareto-Optimalität. [Separation theorems and Pareto optimality] 91i:90051

Tichatschke, Rainer *see* Huth, Martin, 91e:65088

Tolot, Philippe L. Global convergence of a class of trust-region methods for nonconvex minimization in Hilbert space. 91g:65154

Vasil'ev, F. P. (with Kurzban, M. A.) On the method of quasisolutions for unstable problems of minimization with imprecisely defined initial data. 91b:65077

Vesely, L. (with Zajicek, L.) Delta-convex mappings between Banach spaces and applications. 91k:47073

Volle, Michel *see* Asé, D., 91j:90086

Wei, Quan Ling *see* Charnes, A., et al., 91g:90131

Ye, Yinyu A "build-down" scheme for linear programming. 91b:90194

Zajicek, L. *see* Vesely, L., 91h:47073

Zouaki, Hamid *see* Antoine, Philippe, 91h:58016

90C50 Applications of mathematical programming (1985)

Chen, Dong Qing (with Zhang, Hai Ming) A new method for calculating constituents of combustion products—a geometric programming method. (Chinese. English summary) (Not in MR)

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Items with secondary classifications in 90C50

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Du, Ding Zhu The influence of computational complexity on the development of operations research. (Chinese) (Not in MR)

Items with secondary classifications in 90C60

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Chandra, Ashok K. (with Tompa, Martin) The complexity of short two-person games. 91j:68042

Chandrasekaran, R. (with Tamir, Arie) Algebraic optimization: the Fermat-Weber location problem. 91k:90157

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Du, Ding Zhu *see* Yang, Feng, 91h:90126

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Gerde, E. N. Complexity of the investigation of the stability of problems of discrete optimization. (Russian) 91g:90128

Ha, Ca D. A generalization of the proximal point algorithm. 91m:47098

Hammer, Peter L. *see* Crama, Yves; et al., 91g:90164

Hirschberg, Daniel S. *see* Ng, Cheng, 91m:68089

Ibaraki, Toshihide *see* Crama, Yves; et al., 91g:90164

Krentel, Mark W. On finding and verifying locally optimal solutions. 91h:68066

Melamed, I. I. (with Sergeev, S. I.; Sigal, I. Kh.) The traveling salesman problem. Issues in the theory. 91b:90160

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Rom, Eytan NP-complete stable matching problems. 91k:90088

Schäffer, Alejandro A. (with Yannakakis, Mihalis) Simple local search problems that are hard to solve. 91k:68065

Sergeev, S. I. *see* Melamed, I. I.; et al., 91b:90160

Sigal, I. Kh. *see* Melamed, I. I.; et al., 91b:90160

Silvestri, R. *see* Crescenzi, Pierluigi, 91f:68061

Smale, Stephen @ Complexity aspects of numerical analysis. 91j:65091

Sotnikov, E. A. Computational complexity of problems of optimal redistribution of indivisible resources. 91j:68058

Tamir, Arie *see* Chandrasekaran, R., 91k:90157

Tompa, Martin *see* Chandra, Ashok K., 91j:68042

Traub, Joseph F. *see* Smale, Stephen, 91j:65091

Unguray, V. A. NP-hardness of the problem of testing the embeddability of a k-dimensional unit cube in an orthogonal projection of a convex polyhedral set. (Russian) 91j:90084

Wang, Jie Sheng Crane scheduling problems with precedence constraints and their NP-completeness. 91h:90051

Yang, Feng (with Du, Ding Zhu) The complexity of determinacy problem on group testing. 91h:90126

Yannakakis, Mihalis *see* Schäffer, Alejandro A., 91k:68065

Zemel, Elton Easily computable facets of the knapsack polytope. 91g:90113

90C70 Fuzzy programming

Behringer, F. A. Lexmaxmin in fuzzy multiobjective decision-making. 91g:90176

Buckley, James J. Multiobjective possibilistic linear programming. 91d:90103

Ch'én, Miao Shing (with Huang, Chen Chung) A fuzzy ranking method using the α -cut representation and the interval analysis. 91g:90177

Glushkova, V. V. (with Kaspshitskaya, M. F.) A class of problems on permutations. (Russian) 91g:90178

Huang, Chen Chung *see* Ch'én, Miao Shing, 91g:90177

Ichihashi, Hidetomo *see* Inaguchi, Masahiro, 91e:90133

Inaguchi, Masahiro (with Ichihashi, Hidetomo) Relative modalities and their use in possibilistic linear programming. 91e:90133

Jurke, M. Optimization and decision-making under multicriterial conditions by means of fuzzy-LP-models. (Not in MR)

Kaspshitskaya, M. F. *see* Glushkova, V. V., 91g:90178

Klein, Cerry M. Fuzzy shortest paths. 91k:90221

Lai, Yao Tsung Using attribute trend testing in decision analysis. 91e:90134

Lee, E. Stanley *see* McCahon, Cynthia S., 91e:90135

Makeev, S. P. Approximation of fuzzy relationships by fuzzy invertible quasierses. 91k:90222

McCahon, Cynthia S. (with Lee, E. Stanley) Comparing fuzzy numbers: the proportion of the optimum method. 91e:90135

Montero de Juan, Francisco Javier An axiomatic approach to fuzzy multicriteria analysis. 91g:90179

Murtagh, Bruce A. *see* Tapia, Cesar G., 91m:90191

Sakawa, Masatoshi (with Yano, Hitoshi) Multiobjective fuzzy linear regression analysis and its application. (Not in MR)

Tapia, Cesar G. (with Murtagh, Bruce A.) Interactive fuzzy programming with preference criteria in multiobjective decision-making. 91m:90191

Verma, Rakesh Kumar Fuzzy geometric programming with several objective functions. 91k:90223

Wilson, David A. System order reduction using the Hilbert-Schmidt norm of the Hankel operator. 91h:90217

Yano, Hitoshi *see* Sakawa, Masatoshi, (Not in MR)

Items with secondary classifications in 90C70

Alekseev, A. V. *see* Borisov, A. N.; et al., 91i:90001

Bandemer, Hans A special measure of uncertainty. 91j:04003

Billot, Antoine Aggregation of preferences: the fuzzy case. 91m:90009

Borisov, A. N. (with Alekseev, A. V.; Merkuryeva, Galina V.; Slyad', N. N.; Glushkov, V. I.) ★ Обработка нечеткой информации в системах принятия решений. (Russian) [Processing fuzzy information in decision-making systems] 91i:90001

de Campos Ibáñez, Luis Miguel Fuzzy linear programming models to solve fuzzy matrix games. 91j:90098

Delgado, M. (with Verdegay, J. L.; Vila, M. A.) Relating different approaches to solve linear programming problems with imprecise costs. 91f:90075

Gambarelli, Gianfranco (with Holubiec, Jerzy; Kacprzyk, Janusz) Modeling and optimization of international economic cooperation via fuzzy mathematical programming and co-operative games. (Russian and Polish summaries) 91h:90058

Glushkov, V. I. *see* Borisov, A. N.; et al., 91i:90001

Holubiec, Jerzy *see* Gambarelli, Gianfranco; et al., 91h:90058

Kacprzyk, Janusz *see* Gambarelli, Gianfranco; et al., 91h:90058

Kyburg, Henry E., Jr. Uncertainty and the conditioning of beliefs. 91g:03049

Li, Hong Xing Multifactorial functions in fuzzy sets theory. 91f:04009

Liang, Gin Shuh (with Lin, Shioh Nan) Optimal assignment with imprecise constraints and goal. 91f:90071

Lin, Shioh Nan *see* Liang, Gin Shuh, 91f:90071

Mann, Stuart H. *see* Triantaphyllou, Evangelos, 91f:04010

Merkuryeva, Galina V. *see* Borisov, A. N.; et al., 91i:90001

Sakawa, Masatoshi (with Yano, Hitoshi) A unified approach to multi-objective linear programming problems with fuzzy parameters. 91j:90065

Slyad', N. N. *see* Borisov, A. N.; et al., 91i:90001

Triantaphyllou, Evangelos (with Mann, Stuart H.) An evaluation of the eigenvalue approach for determining the membership values in fuzzy sets. 91f:04010

Verdegay, J. L. *see* Delgado, M.; et al., 91f:90075

Vila, M. A. *see* Delgado, M.; et al., 91f:90075

Yano, Hitoshi *see* Sakawa, Masatoshi, 91j:90065

90C90 Applications of mathematical programming

Aleksandrov, V. M. (with Sanina, S. B.) Optimization of a scheme for live tests and mathematical simulation of a system in order to bring it to an extremal regime. 91m:90192

Kikilias, P. B. A mathematical programming model for optimizing a petroleum network of pipelines and depots. (Not in MR)

Klafszy, Emil (with Mayer, János; Teriaky, Tamás) On the mathematical models of mixing. (Hungarian. English summary) 91c:90123

Mayer, János *see* Klafszy, Emil; et al., 91c:90123

Sanina, S. B. *see* Aleksandrov, V. M., 91m:90192

Statnikov, R. B. (with Urvolok, Yu. Yu.) The determination of the boundaries of variation of parameters in problems of optimal design and vector identification. (Not in MR)

Teriaky, Tamás *see* Klafszy, Emil; et al., 91c:90123

Urvolok, Yu. Yu. *see* Statnikov, R. B., (Not in MR)

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- Alt, Walter. Stability of solutions for a class of nonlinear cone constrained optimization problems. I. Basic theory. 91d:49027
- Borwein, Jonathan M. (with Lewis, Adrian S.) On the convergence of moment problems. 91h:44005
- Chang, Jui Hsiung. *see* Ko, M. T.; et al., 91f:68073
- Karlov, V. I. (with Krasil'shchikov, M. N.; Malyshov, V. V.) Controlling observational process under conditions of statistical uncertainty (survey). II. 91h:93178
- Klötzler, Rolf. Eine neue Variante einer Schachtelaufgabe. (English summary) [A new variant of a boxing problem] 91h:93110
- Ko, M. T. (with Lee, R. C. T.; Chang, Jui Hsiung) An optimal approximation algorithm for the rectilinear m -center problem. 91f:68073
- Krasil'shchikov, M. N. *see* Karlov, V. I.; et al., 91h:93178
- Kuntsevich, A. V. *see* Shor, N. Z.; et al., 91a:90128
- Lee, R. C. T. *see* Ko, M. T.; et al., 91f:68073
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- (with Michelot, C.; Plastria, F.) Errata corrigé: "Geometric interpretation of the optimality conditions in multifacility location and applications" [J. Optim. Theory Appl. 65 (1990), no. 1, 85–101; MR 91c:90065]. (Not in MR)
- Lemaire, Bernard (with Lemaire-Misonne, Catherine) An optimization problem with a piecewise linear objective and multiple threshold constraints. Solution by partitioning. 91a:90147
- Lemaire-Misonne, Catherine. *see* Lemaire, Bernard, 91a:90147
- Leung, Janny M. Y. (with Magnanti, Thomas L.; Vachani, Rita) Facets and algorithms for capacitated lot sizing. 91b:90101
- Lewis, Adrian S. *see* Borwein, Jonathan M., 91h:44005
- Liu, Feng Ché. Comparison of linear combinations of systems of functions and applications. 91a:90046
- Loridan, Pierre (with Morgan, Jacqueline) Approximate solutions for two-level optimization problems. 91d:90084
- Magnanti, Thomas L. *see* Leung, Janny M. Y.; et al., 91b:90101
- Malyshov, V. V. *see* Karlov, V. I.; et al., 91h:93178
- Michelot, C. *see* Lefebvre, O.; et al., 91c:90065 and (Not in MR)
- Mockus, Adris (with Mockus, Linas) Structure of an interactive optimization system. (Russian. English and Lithuanian summaries) 91m:90158
- Mockus, Linas. *see* Mockus, Adris, 91m:90158
- Morgan, Jacqueline. *see* Loridan, Pierre, 91d:90084
- Plastria, F. *see* Lefebvre, O.; et al., 91c:90065 and (Not in MR)
- Prékopa, András. Sharp bounds on probabilities using linear programming. 91b:90098
- Šaltenis, Vydnas. *see* Žilinskas, Antanas, 91h:90196
- Shor, N. Z. (with Zhurbenko, N. G.; Kuntsevich, A. V.) A problem of planning a production program for a corporation. 91a:90128
- Saprunenko, S. N. Mean-square approximation with an even nonnegative polynomial. 91d:41007
- Vachani, Rita. *see* Leung, Janny M. Y.; et al., 91b:90101
- Williams, Byron K. Review of dynamic optimization methods in renewable natural resource management. 91b:90063
- Zhurbenko, N. G. *see* Shor, N. Z.; et al., 91a:90128
- Žilinskas, Antanas (with Šaltenis, Vydnas) ★ Поиск оптимума. (Russian) [The search for an optimum] 91b:90196

90C99 None of the above, but in this section

- Diao, Zhao Feng. *see* Luo, Rong Gui, (Not in MR)
- Hassin, Rafael (with Megiddo, Nimrod) Approximation algorithms for hitting objects with straight lines. 91k:90224
- Luo, Rong Gui (with Diao, Zhao Feng) Modeling and solution of general mathematical programming problems. (Chinese. English summary) (Not in MR)
- Megiddo, Nimrod. *see* Hassin, Rafael, 91k:90224
- Reuter, Henry. Wahrscheinlichkeitstheoretische Aspekte bei der Behandlung von fuzzy-Optimierungsproblemen. [Probability-theoretic methods in the treatment of fuzzy optimization problems] (Not in MR)
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Items with secondary classifications in 90C99

- (Bezdek, James C.) *see* Selim, Shokri Z., 91m:65172
- Chatterjee, Shyamal. *see* Sen, Rabindranath, 91a:90109
- Chen, Dong Qing (with Zhang, Hai Ming) A new method for calculating constituents of combustion products—a geometric programming method. (Chinese. English summary) (Not in MR)
- (Hathaway, Richard J.) *see* Selim, Shokri Z., 91m:65172
- (Kim, Taehwan) *see* Selim, Shokri Z., 91m:65172
- Nikulina, T. V. Calculation of the contingent derivative with respect to direction for an integral operator. 91c:49025
- Novák, Vilém. ★ Fuzzy sets and their applications. 91a:90007
- Roubířek, Tomáš. Constrained optimization: a general tolerance approach. (Russian and Czech summaries) 91h:49017
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- Sen, Rabindranath (with Chatterjee, Shyamal) Interval linear programming with disjunctive constraints. 91a:90109
- Zhang, Hai Ming. *see* Chen, Dong Qing, (Not in MR)

90Dxx Game theory

- L4, Xian Yi. A brief survey of Chinese publications on game theory—with comments on two

- game theory textbooks. (Chinese) 91a:90181
- (Petrosyan, L. A.) *see* Game theory and its applications, 91c:90137

Items listed otherwise than by author

- Game theory and its applications ★ Теория игр и ее приложения. (Russian) [Game theory and its applications] 91c:90137

Items with secondary classifications in 90Dxx

- (Ichishi, Tatsuhiro) *see* Game theory and applications, 91i:90003
- (Neyman, Abraham) *see* Game theory and applications, 91i:90003
- (Tauman, Yair) *see* Game theory and applications, 91i:90003

Items listed otherwise than by author

- Columbus, OH ★ Game theory and applications. 91i:90003
- Conference:
- Game Theory and Applications ★ Game theory and applications. 91i:90003
- Game theory and applications ★ Game theory and applications. 91i:90003

90D05 2-person games

- van den Aarsen, J. C. M. *see* Borm, P. E. M.; et al., 91f:90145
- Abramson, Bruce. Control strategies for two-player games. (Not in MR)
- (Aumann, Robert) *see* Forges, Françoise, 91b:90218
- Boston, V. J. (with Bostock, F. A.; Ruckl, William H.) The gold-mine game. 91f:90144
- Basu, Kaushik. On the nonexistence of a rationality definition for extensive games. 91c:90124
- Becker, Neal C. (with Cudd, Ann E.) Indefinitely repeated games: a response to John W. Carroll: "Indefinite terminating points and the iterated Prisoner's Dilemma" [Theory and Decision 22 (1987), no. 3, 247–256; MR 88j:90239]. 91h:90128
- Berlekamp, Elwyn. Two-person, perfect-information games. 91g:90180
- Borm, P. E. M. (with Gijbels, A. N.; Tijds, Stef H.) A geometric-combinatorial approach to bimatrix games. 91k:90225
- (with Tijds, Stef H.; van den Aarsen, J. C. M.) Pareto equilibria in multiobjective games. 91f:90145
- Bostock, F. A. *see* Boston, V. J.; et al., 91f:90144
- Brown, James N. (with Rosenthal, Robert W.) Testing the minimax hypothesis: a re-examination of O'Neill's game experiment. (Not in MR)
- de Campos Ibáñez, Luis Miguel. Fuzzy linear programming models to solve fuzzy matrix games. 91j:90098
- (Carroll, John W.) *see* Becker, Neal C., 91h:90128
- Cegielski, A. Toeplitz type theorems for double sequences and their applications to some iterative process in zero-sum continuous games. 91g:90181
- Crawford, Vincent P. (with Haller, Hans) Learning to cooperate: optimal play in repeated coordination games. 91f:90146
- Cudd, Ann E. *see* Becker, Neal C., 91h:90128
- Durdevani, N. (with Fraenkel, A. S.) Properties of k -Welter's game. 91a:90182
- Enns, E. G. (with Ferencstein, E. Z.) A competitive best-choice problem with Poisson arrivals. 91i:90082
- Farrell, Joseph. Errata: "Communication, coordination and Nash equilibrium" [Econometrica 55 (1987), no. 3, 209–214; MR 89i:90094]. (Not in MR)
- Felsenthal, Dan S. *see* Rapoport, Amnon; et al., 91b:90221
- Ferencstein, E. Z. *see* Enns, E. G., 91i:90082
- Fishburn, Peter C. (with Kilgour, D. Marc) Binary 2×2 games. 91m:90193
- Fomina, T. P. *see* Gorelik, V. A.; et al., (91k:90111)
- Forges, Françoise. Correlated equilibrium in two-person zero-sum games. A comment on: "Correlated equilibrium as an expression of Bayesian rationality" [Econometrica 55 (1987), no. 1, 1–18; MR 88a:90005] by R. Aumann. 91b:90218
- Fraenkel, A. S. *see* Durdevani, N., 91a:90182
- Frank, Steven A. When to copy or avoid an opponent's strategy. (Not in MR)
- Fraser, Niall M. (with Wang, Muhong; Hipel, Keith W.) Hypergame theory in two-person conflicts with application to the Cuban missile crisis. 91h:90129
- Furth, Dave. Solving bargaining games by differential equations. 91i:90083
- Gangolli, A. (with Plambeck, T.) A note on periodicity in some octal games. 91a:90183
- Garnaev, A. Yu. A discrete game in a plane with information delay. 91f:90147
- Gijbels, A. N. *see* Borm, P. E. M.; et al., 91k:90225
- Gorelik, V. A. (with Rulev, G. V.; Fomina, T. P.) Some problems on the conflict interaction of systems. (Russian) (see 91k:90111)
- Gottlinger, Hans-W. Complexity of games and bounded rationality. 91m:90194
- Greco, Gabriele H. Minimax theorems and saddling transformations. 91j:90099
- Gurvich, V. A. An existence theorem for equilibrium situations in pure stationary strategies for ergodic extensions of $(2 \times k)$ bimatrix games. 91g:90182
- Haller, Hans. *see* Crawford, Vincent P., 91f:90146
- Hamilton, Jonathan H. (with Slutsky, Steven M.) Endogenous timing in duopoly games: Stackelberg or Cournot equilibria. 91d:90104
- Hipel, Keith W. *see* Fraser, Niall M.; et al., 91h:90129
- Holler, Manfred J. The unprofitability of mixed-strategy equilibria in two-person games: a second folk-theorem. 91f:90148
- Halls, Martin. Moves and motives in the games we play. (Not in MR)
- Huang, Zheng Liang. On two-person zero-sum extensive feedback games. (Chinese) (Not in MR)
- Jóder, Lucas. Analytic solution for a class of discrete-time Riccati equations arising in Nash games. 91f:90149
- Kabe, D. G. On solving two-person zero-sum game problems. 91c:90125
- Kalkofen, Brigitte. A game-theoretic interpretation of Abraham's sacrifice. 91k:90226
- Kilgour, D. Marc. *see* Fishburn, Peter C., 91m:90193
- Lee, King Tak. On Ruckl's game of ambush. 91f:90150
- *see also* Lee, L. Y., (Not in MR)
- Lee, L. Y. (with Lee, King Tak) The discrete evasion game with three-move lag. (Not in MR)

- Lutsenko, M. M. An approach to solving games on the unit square with the payoff function $k(x-y)$. II. (Russian. English summary) 91b:90151
- Mamer, John W. (with Schilling, Kenneth E.) Finite approximations to a zero-sum game with incomplete information. 91b:90219
- Marchi, Ezio (with Oviedo, Jorge A.) Optimal values and strategies for a particular case of two-person games. 91g:90183
- Merkulovich, L. B. Approximation of prior estimation games with threshold loss functions by matrix games. 91h:90130
- Morgan, Jacqueline Constrained well-posed two-level optimization problems. 91k:90220
- Oviedo, Jorge A. see Marchi, Ezio, 91g:90183
- Papavasiliopoulos, George Learning algorithms for repeated bimatrix Nash games with incomplete information. 91a:90184
- Pfaffbeck, T. see Gangolli, A., 91a:90183
- Rabin, Matthew Communication between rational agents. 91g:90184
- Radzik, Tadeusz Pure ϵ -Nash equilibria in two-person non-zero-sum games. (Not in MR) — Silent mixed duels. 91a:90185
- (with Ravindran, G.) On two counterexamples of noncooperative games without Nash equilibrium. 91m:90195
- Rapoport, Amnon (with Weg, Eytan; Felsenthal, Dan S.) Effects of fixed costs in two-person sequential bargaining. 91b:90221
- Ravindran, G. see Radzik, Tadeusz, 91m:90195
- Rosenthal, Robert W. see Brown, James N., (Not in MR)
- Ruckle, William H. see Baston, V. J., et al., 91f:90144
- Ruler, G. V. see Gorelik, V. A., et al., (91k:93011)
- Sagatelyan, K. V. Games with Chebyshev payoff functions. (Russian. Armenian summary) 91g:90185
- Sakai, Setsuko Emergence of rational cooperation in the repeated prisoner's dilemma. (Japanese. English summary) 91c:90126
- Samuelson, Larry Limit evolutionarily stable strategies in two-player, normal form games. 91m:90196
- Schilling, Kenneth E. see Mamer, John W., 91b:90219
- Sletsky, Steven M. see Hamilton, Jonathan H., 91d:90104
- Stanford, William Symmetric paths and evolution to equilibrium in the discounted prisoners' dilemma. 91a:90186
- Stankiewicz-Wiechao, Ewa (with Wasowski, Janusz) The comparison of situations in conflict theory. The stable situations. 91m:90197
- Tijs, Stef H. see Borm, P. E. M., et al., 91f:90145 and 91k:90225
- Wang, Mubong see Fraser, Niall M., et al., 91h:90129
- Wasowski, Janusz see Stankiewicz-Wiechao, Ewa, 91m:90197
- Weg, Eytan see Rapoport, Amnon; et al., 91b:90221
- Wyderka, Zdzislaw On the structure of two-person, finite, zero-sum games. 91f:90152
- Yáñez Castrillo, Jaime The game of craps. (Spanish) (Not in MR)
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- Ahasov, T. M. ★ Модифицированные функции Лагранжа в задачах отыскания седловых точек. (Russian) [Modified Lagrange functions in problems of determining saddle points] 91j:49006
- Ara, Katsumori Bilateral secretary problem recognizing the maximum or the second maximum of a sequence. 91b:90235
- Baston, V. J. (with Bostock, F. A.) An evasion game on a finite tree. 91d:90108
- Bostock, F. A. see Baston, V. J., 91d:90108
- Chandra, Ashok K. (with Tompa, Martin) The complexity of short two-person games. 91j:68042
- Chandra, Suresh (with Mond, B.; Smart, I.) Constrained games and symmetric duality with pseudo-convexity. 91k:49051
- Chatterjee, Kalyan (with Samuelson, Larry) Perfect equilibria in simultaneous-offers bargaining. 91k:90031
- Cressman, R. (with Hines, W. G. S.) A note on the stability of interior ESSs in a diploid population. Comment on: "Evolutionarily stable strategies of diploid populations with semidominant inheritance patterns" [J. Appl. Probab. 21 (1984), no. 1, 1-9; MR 85h:92034]. 91c:92048
- Dekel, Eddie Simultaneous offers and the inefficiency of bargaining: a two-period example. 91c:90035
- Evans, Robert Andrew (with Maskin, Eric S.) Efficient renegotiation-proof equilibria in repeated games. 91e:90147
- Falk, James E. A dynamic game with recourse. 91a:90203
- Farrell, Joseph (with Maskin, Eric S.) Renegotiation in repeated games. 91e:90146
- Fishman, Michael J. (with Hagerty, Kathleen M.) The optimal amount of discretion to allow in disclosure. 91d:90028
- Forbes, Kevin F. see Howe, Eric C., 91d:90024
- Garvick, V. A. (with Libkin, L. O.) Quasilinear set functions and absolutely defined matrices. 91d:15063
- Guzicki, Wojciech Ulam's searching game with two lies. 91f:68027
- Hagerty, Kathleen M. see Fishman, Michael J., 91d:90028
- Hines, W. G. S. see Cressman, R., 91c:92048
- Howe, Eric C. (with Forbes, Kevin F.) Negotiating over externalities. 91d:90024
- Iyer, Ananth V. (with Jarvis, John J.; Ratliff, H. Donald) Hierarchical solution of network flow problems. 91m:90061
- Jarvis, John J. see Iyer, Ananth V., et al., 91m:90061
- Jiang, Jia He Coincidence theorems and minimax theorems. 91e:58030
- Kalyanasundaram, Bala (with Schnitzer, Georg) Rounds versus time for the two person pebble game. 91k:68051
- Kikuta, Kensaku A hide and seek game with traveling cost. 91g:90219
- Kindler, Jürgen (with Trost, Ralf W.) Minimax theorems for interval spaces. 91f:49009
- On a minimax theorem of Terkelsen's. 91k:49010
- Kleinmeyer, A. F. Construction of solutions in a dynamic Stackelberg game. (Russian) 91j:90096
- Komiya, Hidetoshi On minimax theorems. 91j:49008
- Kur'mina, T. I. Universal minimax E -strategies. (Russian) (see 91k:90026)
- Lahiri, Somdeb The max-min solution for variable threat games. 91a:90193
- Libkin, L. O. see Garvick, V. A., 91d:15063
- Loridan, Pierre (with Morgan, Jacqueline) ϵ -regularized two-level optimization problems: approximation and existence results. 91b:90197
- (with Morgan, Jacqueline) New results on approximate solutions in two-level optimization. 91a:90177
- Lutsenko, M. M. An approach to solving games on the unit square with the payoff function $k(x-y)$. I. (Russian. English summary) 91c:90143
- Martellotti, Anna (with Salvadori, Anna) Inequality systems and minimax results without linear structure. 91c:90122
- Maskin, Eric S. see Farrell, Joseph, 91e:90146 and Evans, Robert Andrew, 91e:90147
- Mertens, Jean-François Stable equilibria—a reformulation. I. Definition and basic properties. 91b:90224
- Mond, B. see Chandra, Suresh; et al., 91k:49051
- Morgan, Jacqueline see Loridan, Pierre, 91a:90177 and 91b:90197
- Muto, Shigeo see Potters, Jos A. M.; et al., 91f:90042
- Nakai, Teruhisa A preemptive detection game. 91a:90098
- Nakamura, Shinsuke A feasible Nash implementation of Walrasian equilibria in the two-agent economy. 91m:90032
- Negri, Donald H. "Stragedy" of the commons. (Not in MR)
- O'Meara, Norman T. (with Soland, Richard M.) Optimal strategies for problems of simultaneous attack against an area defense without impact-point prediction. (Not in MR)
- Osborne, Martin J. Signaling, forward induction, and stability in finitely repeated games. 91c:90138
- van der Ploeg, Carol E. An evolutionary alternative to rational expectations models of stock markets. (Italian summary) 91b:90028
- Porta, Horacio A. (with Stolarsky, Kenneth B.) Half-silvered mirrors and Wythoff's game. 91k:11019
- Potters, Jos A. M. (with Muto, Shigeo; Tijs, Stef H.) Bargaining set and kernel of big boss games. 91f:90042
- Pourtailler, Odile A two player dynamical game with imperfect information. 91j:90108
- Preda, Vasile Convex optimization with nested maxima and matrix game equivalence. (Not in MR)
- Rapoport, Amnon ★ Experimental studies of interactive decisions. 91j:90006
- Ratliff, H. Donald see Iyer, Ananth V., et al., 91m:90061
- Robson, Arthur J. Duopoly with endogenous strategic timing: Stackelberg regained. 91e:90026
- Ruiz Gómez, José Ma. see Zorua Terol, Procopio; et al., 91k:90253
- Salvadori, Anna see Martellotti, Anna, 91c:90122
- Samuelson, Larry Evolutionary foundations of solution concepts for finite, two-player, normal-form games. 91a:90199
- see also Chatterjee, Kalyan, 91k:90031
- Schnitzer, Georg see Kalyanasundaram, Bala, 91k:68051
- Sengupta, Jati K. Mixed strategy and information theory in optimal portfolio choice. 91m:90018
- Simons, Stephen An upward-downward minimax theorem. 91k:49011
- On Terkelsen's minimax theorem. 91j:49009
- Smart, I. see Chandra, Suresh; et al., 91k:49051
- Soland, Richard M. see O'Meara, Norman T., (Not in MR)
- Stolarsky, Kenneth B. see Porta, Horacio A., 91k:11019
- Tijs, Stef H. see Potters, Jos A. M.; et al., 91f:90042
- Tompa, Martin see Venkateswaran, H., 91a:68105 and Chandra, Ashok K., 91j:68042
- Trost, Ralf W. see Kindler, Jürgen, 91f:49009
- Venkateswaran, H. (with Tompa, Martin) A new pebble game that characterizes parallel complexity classes. 91a:68105
- Watson, Joel Communication and superior cooperation in two-player normal form games. 91m:90212
- Zavrieva, M. K. ★ Комбинированный метод штрафов и стохастических квазиградиентов для поиска связанного максимума. (Russian) [A combined penalty and stochastic quasigradient method for the search for a connected maximum] 91m:49005
- Zorua Alonso, Noemi see Zorua Terol, Procopio; et al., 91k:90253
- Zorua Terol, Procopio (with Zorua Alonso, Noemi; Ruiz Gómez, José Ma.) The game of finite-interval intersection (the number hides game). (Spanish. English summary) 91k:90253

90D06 n -person games, $n \geq 2$

- Alidaee, Bahram A note on the permutationally convex games. (Not in MR)
- Borm, P. E. M. (with Gijbels, A. N.) On constructing games with a convex set of equilibrium strategies. (German summary) 91i:90084
- Chen, Zhi Yun An ordering relation for optimal strategies of matrix games, and the best strategy. (Chinese. English summary) 91g:90186
- van den Elzen, Antoon (with Talmán, A. J. J.) A procedure for finding Nash equilibria in bi-matrix games. (German summary) 91m:90198
- Ghose, D. A necessary and sufficient condition for Pareto-optimal security strategies in multicriteria matrix games. 91m:90199
- Gijbels, A. N. see Borm, P. E. M., 91i:90084
- Gorelik, M. A. On the stability of a set of equilibrium programs in multistage games. (Russian) 91k:90227
- Jansen, M. J. M. see Jurg, A. P., 91i:90085 and 91j:90100
- Jurg, A. P. (with Jansen, M. J. M.) On a characterization of the extreme equilibria of a bimatrix game. 91i:90085
- (with Jansen, M. J. M.; Parthasarathy, T.; Tijs, Stef H.) On weakly completely mixed bimatrix games. 91j:90100
- Korf, Richard E. Multi-player alpha-beta pruning. (Not in MR)
- Okguchi, Kaji see Szidorszky, Ferenc, 91m:90201
- Parthasarathy, T. see Jurg, A. P.; et al., 91j:90100
- Powers, I. V. Limiting distributions of the number of pure strategy Nash equilibria in N -person games. 91k:90228

- Rosenmüller, Joachim Discrete concepts in n -person game theory: nondegeneracy and homogeneity. 91m:90200
- Sudhölter, P. Homogeneous games as anti step functions. 91g:90187
- Szidarovsky, Ferenc (with Okuguchi, Koji) On a general Stackelberg-type leader-follower oligopoly model. 91m:90201
- Talman, A. J. J. see van den Elzen, Antoon, 91m:90198
- Tijs, Stef H. see Jurg, A. P.; et al., 91j:90100
- Wu, Yu Hua¹ (with Xu, Da Tu) The N -person game models of allocation problems. (Chinese. English summary) (Not in MR)
- Xu, Da Tu see Wu, Yu Hua¹, (Not in MR)
- Zhang, Jian Gao The nucleolus of n -person cooperative games with generalized symmetric partitions. (Chinese. English summary) 91e:90138
- Items with secondary classifications in 90D06
- Kleimenov, A. F. Cooperative solutions in a positional differential n -person game with continuous payoff functions. 91k:90242
- Lucas, William F. Developments in stable set theory. 91m:90211
- Ozawa, Lawrence H. (with Shepp, Larry A.) The exact information complexity of Indian poker. 91f:94008
- Shepp, Larry A. see Ozawa, Lawrence H., 91f:94008
- Simon, Leo K. (with Zame, William R.) Discontinuous games and endogenous sharing rules. 91h:90132
- Sprumont, Yves Population monotonic allocation schemes for cooperative games with transferable utility. 91k:90233
- Spulber, Daniel F. The second best core. 91d:90032
- Wang, Shou Yang An approach to resolve conflicts by trade-off analysis. (Not in MR)
- Zame, William R. see Simon, Leo K., 91h:90132

90D10 Noncooperative games

- Amir, Rahab (with Sahi, Siddhartha; Shubik, Martin; Yao, Shun Tian) A strategic market game with complete markets. 91m:90202
- Auriol, I. (with Cantisani, Magdalena) Equilibrium points of special diagonal games. (Spanish. English summary) 91a:90187
- Ben-Perath, Elchanan The complexity of computing a best response automaton in repeated games with mixed strategies. 91b:90222
- Bountis, Tassos see Drossos, L.; et al., 91h:90131a and 91h:90131b
- Cantisani, Magdalena see Auriol, I., 91a:90187
- Cesco, J. C. (with Neme, Alejandro) A generalization of the Nikaido-Isoda's theorem. (Spanish summary) 91g:90188
- De, Mitali (with Hipel, Keith W.; Kilgour, D. Marc) Algorithms for hierarchical power. 91f:90153
- Drossos, L. (with Bountis, Tassos; Nicolis, John S.) Chaos in nonlinear paradoxical games. (Italian and Russian summaries) 91h:90131a
- (with Bountis, Tassos; Nicolis, John S.) Errata: "Chaos in nonlinear paradoxical games". 91h:90131b
- Dutta, Bhaskar (with Ray, Debraj; Sengupta, Kunal; Vohra, Rajiv) A consistent bargaining set. 91b:90223
- Felsenthal, Dan S. see Weg, Eythan; et al., 91e:90141
- Fershtman, Chaim The importance of the agenda in bargaining. 91k:90229
- García-Jurado, Ignacio (with Prada Sánchez, J. M.) A remark on Myerson's concept of proper equilibrium. 91d:90105
- Hipel, Keith W. see De, Mitali; et al., 91f:90153
- Kamien, Morton I. (with Zang, Israel) The limits of monopolization through acquisition. 91f:90154
- Khyinka, B. S. The generalized Lagrange function method for solving a three-person hierarchical game of type T_1 . (Russian) (Not in MR)
- Kilgour, D. Marc see De, Mitali; et al., 91f:90153
- Macho-Stadler, Inés (with Pérez Castrillo, J. David) Moral hazard and cooperation. (Not in MR)
- Marchi, Ezio (with Tarazaga, Pablo) Equilibrium points for a wide class of games. 91d:90106
- Marinoff, Louis The inapplicability of evolutionarily stable strategy to the prisoner's dilemma. (Not in MR)
- Matveev, V. A.³ see Zhukovskii, V. I., 91f:90157
- McCardle, Kevin F. see Nau, Robert F., 91e:90139
- Mertens, Jean-François Stable equilibria—a reformulation. I. Definition and basic properties. 91b:90224
- Milgrom, Paul (with Roberts, John) Rationalizability, learning, and equilibrium in games with strategic complementarities. 91j:90101
- Molnár, Sándor see Szidarovsky, Ferenc; et al., 91m:90205
- Nachbar, John H. "Evolutionary" selection dynamics in games: convergence and limit properties. 91c:90127
- Namatame, Akira Dynamic oligopoly games. 91f:90155
- Nau, Robert F. (with McCardle, Kevin F.) Coherent behavior in noncooperative games. 91e:90139
- Neme, Alejandro see Cesco, J. C., 91g:90188
- Nicolis, John S. see Drossos, L.; et al., 91h:90131a and 91h:90131b
- Okuguchi, Koji see Szidarovsky, Ferenc; et al., 91m:90205
- Okuno-Fujiwara, Masahiro (with Postlewaite, Andrew; Suzumura, Kotaro) Strategic information revelation. 91e:90140
- Page, F. H., Jr. Incentive compatible strategies for general Stackelberg games with incomplete information. 91b:90225
- Peleg, Bezalel Axiomatizations of the core, the nucleolus, and the prekernel. 91m:90203
- Pérez Castrillo, J. David see Macho-Stadler, Inés, (Not in MR)
- Postlewaite, Andrew see Okuno-Fujiwara, Masahiro; et al., 91e:90140
- Prada Sánchez, J. M. see García-Jurado, Ignacio, 91d:90105
- Quintas, L. G. A note on polymatrix games. 91a:90188
- Rapoport, Amnon see Weg, Eythan; et al., 91e:90141
- Ray, Debraj see Dutta, Bhaskar; et al., 91b:90223
- Roberts, John see Milgrom, Paul, 91j:90101
- Rozan, V. V. Equilibrium points in games with ordered outcomes. 91c:90128
- Ruckle, William H. On win-lose-draw games. (Not in MR)
- Sahi, Siddhartha see Amir, Rahab; et al., 91m:90202
- Samuelson, Larry Strategy additions and equilibrium selection. 91m:90204
- Sengupta, Kunal see Dutta, Bhaskar; et al., 91b:90223
- Shubik, Martin see Amir, Rahab; et al., 91m:90202
- Simon, Leo K. (with Zame, William R.) Discontinuous games and endogenous sharing rules. 91h:90132
- Suzumura, Kotaro see Okuno-Fujiwara, Masahiro; et al., 91e:90140
- Szidarovsky, Ferenc (with Molnár, Sándor; Okuguchi, Koji) On a general scheme in the theory of conflicts. 91m:90205
- Tarazaga, Pablo see Marchi, Ezio, 91d:90106
- Vives, Xavier Nash equilibrium with strategic complementarities. 91c:90129
- Vohra, Rajiv see Dutta, Bhaskar; et al., 91b:90223
- Weg, Eythan (with Rapoport, Amnon; Felsenthal, Dan S.) Two-person bargaining behavior in fixed discounting factors games with infinite horizon. 91e:90141
- Yao, Shun Tian see Amir, Rahab; et al., 91m:90202
- Zame, William R. see Simon, Leo K., 91h:90132
- Zang, Israel see Kamien, Morton I., 91f:90154
- Zhitomirskii, G. I. Games with mirror-like vector payoff functions. (Russian) 91f:90156
- Zhukovskii, V. I. (with Matveev, V. A.³) An ε -saddle point in the sense of Pareto and Slater. (Russian) 91f:90157
- Items with secondary classifications in 90D10
- Basu, Kaushik On the nonexistence of a rationality definition for extensive games. 91c:90124
- Bikhchandani, Sushil (with Riley, John G.) Equilibria in open common value auctions. 91m:90047
- Chan, Youngsub (with Thomson, William L.) Nash solution and uncertain disagreement points. 91k:90049
- Crawford, Vincent P. (with Haller, Hans) Learning to cooperate: optimal play in repeated coordination games. 91f:90146
- Cressman, R. (with Hines, W. G. S.) A note on the stability of interior ESSs in a diploid population. Comment on: "Evolutionarily stable strategies of diploid populations with semidominant inheritance patterns" [J. Appl. Probab. 21 (1984), no. 1, 1–9; MR 85h:92034]. 91c:92048
- Dubey, P. (with Rogawski, Jonathan D.) Inefficiency of smooth market mechanisms. 91b:90044
- Eaton, Jonathan (with Engers, Maxim) Intertemporal price competition. (Russian) 91b:90041
- Engers, Maxim see Eaton, Jonathan, 91b:90041
- Fang, Liping see Kilgour, D. Marc; et al., (Not in MR)
- Farrell, Joseph Errata: "Communication, coordination and Nash equilibrium" [Econ. Lett. 27 (1988), no. 3, 209–214; MR 89i:90094]. (Not in MR)
- Ghose, D. A necessary and sufficient condition for Pareto-optimal security strategies in multicriteria matrix games. 91m:90199
- Haller, Hans see Crawford, Vincent P., 91f:90146
- Hines, W. G. S. see Cressman, R., 91c:92048
- Hipel, Keith W. see Kilgour, D. Marc; et al., (Not in MR)
- Kilgour, D. Marc (with Fang, Liping; Hipel, Keith W.) A decision support system for the graph model of conflicts. (Not in MR)
- Kinard, L. A. see Kostreva, M. M., 91m:90157
- Kostreva, M. M. (with Kinard, L. A.) A differentiable homotopy approach for solving polynomial optimization problems and noncooperative games. 91m:90157
- Kuz'mina, T. I. see Petrosyan, L. A., 91m:90002
- Lahiri, Somdeb Threat bargaining games with a variable population. 91c:90007
- Loridan, Pierre (with Morgan, Jacqueline) Approximate solutions for two-level optimization problems. 91d:90084
- Marjit, Sugata On a noncooperative theory of technology transfer. (Not in MR)
- Matsushima, Hitoshi Efficiency in repeated games with imperfect monitoring. 91a:90204
- Morgan, Jacqueline see Loridan, Pierre, 91d:90084
- Nowak, Martin An evolutionarily stable strategy may be inaccessible. 91e:92016
- Petrosyan, L. A. (with Kuz'mina, T. I.) * Бескоалиционные дифференциальные игры. (Russian) [Noncooperative differential games] 91m:90002
- Ponsard, Jean-Pierre Self-enforceable paths in extensive form games. 91c:90133
- Powers, I. V. Limiting distributions of the number of pure strategy Nash equilibria in N -person games. 91k:90228
- Pshenichnyi, B. N. (with Shishkina, N. B.) Formulation of search problems with two moving objects. 91f:90067
- Rabin, Matthew Communication between rational agents. 91g:90184
- Riley, John G. see Bikhchandani, Sushil, 91m:90047
- Rogawski, Jonathan D. see Dubey, P., 91b:90044
- Shishkina, N. B. see Pshenichnyi, B. N., 91f:90067
- Stanford, William Symmetric paths and evolution to equilibrium in the discounted prisoners' dilemma. 91a:90186
- Thomson, William L. see Chan, Youngsub, 91k:90049

90D12 Cooperative games

- Anant, T. C. A. (with Mukherji, Badal; Basu, Kaushik) Bargaining without convexity: generalizing the Kalai-Smorodinsky solution. 91m:90206
- Aumann, Robert The Shapley value. 91m:90207
- Balinski, M. L. (with Gale, David) On the core of the assignment game. 91i:90086
- Basu, Kaushik see Anant, T. C. A.; et al., 91m:90206
- Blair, Douglas H. (with McLean, Richard P.) Subjective evaluations of n -person games. 91c:90130
- Bondarava, O. N. Generalized coverings and estimates for imputations of the core and the Shapley vector. (Russian) 91b:90226
- A cooperative "supply-demand" game as a model of an unbalanced market. 91g:90189

- Chakrabarti, Subir K. Characterizations of the equilibrium payoffs of inertia supergames. 91m:90208
- Chang, Ch'1 Some existence theorems on stable sets for (n, k) games. 91g:90190
- Charnes, A. (with Huang, Zhi Min; Rousseau, J. J.; Wei, Quan Ling) Cone extremal solutions of multi-payoff games with cross-constrained strategy sets. 91a:90189
- Dani, Ernest Generalized cooperative game. Addendum to: *Numerical methods in game theory* [Ed. Dacia, Cluj-Napoca, 1983; MR 86m:90179]. 91h:90227
- Danilov, N. N. Cooperative multistage games without side payments. (Russian) 91g:90191
- Drăgan, Irinel (with Potters, Jos A. M.; Tijs, Stef H.) Superadditivity for solutions of coalitional games. 91c:90131
- Driessen, T. S. H. On cores of subconvex games and permutationally convex games. 91k:90230
- (with Funaki, Y.) Coincidence of and collinearity between game-theoretic solutions. (German summary) 91m:90209
- Dutta, Bhaskar The egalitarian solution and reduced game properties in convex games. 91h:90133
- Faigle, Ulrich Cores of games with restricted cooperation. 91a:90190
- Fershtman, Chaim Self-enforceable agreements in an N -player dynamic game. 91a:90191
- Funaki, Y. see Driessen, T. S. H., 91m:90209
- Gale, David see Balinski, M. L., 91i:90086
- Gilboa, Itzhak (with Kalai, Ehud; Zemel, Eitan) On the order of eliminating dominated strategies. 91h:90228
- Harrington, Joseph E., Jr. The advantageous nature of risk aversion in a three-player bargaining game where acceptance of a proposal requires a simple majority. 91c:90132
- Hart, Sergiu Advances in value theory. 91k:90231
- Huang, Zhi Min see Charnes, A.; et al., 91a:90189
- Ichihashi, Tatsuhiro Comparative cooperative game theory. 91m:90210
- (with Idzik, Adam) Theorems on closed coverings of a simplex and their applications to cooperative game theory. 91h:90229
- Idzik, Adam see Ichihashi, Tatsuhiro, 91h:90229
- Kalai, Ehud (with Samet, Dov) Weighted Shapley values. 91h:90230
- see also Gilboa, Itzhak; et al., 91h:90228
- Kindler, Jürgen The sigma-core of convex games and the problem of measure extension. 91a:90192
- Kondrat'ev, A. I. An algorithm with memory for solving problems of computation properties. (Russian) (see 91c:90001)
- Lahiri, Somdeb The max-min solution for variable threat games. 91a:90193
- Le Breton, M. (with Salles, M.) The stability set of voting games: classification and genericity results. 91h:90087
- Legut, Jerry On totally balanced games arising from cooperation in fair division. 91h:90231
- Liu, Zuo Shu (with Zheng, Quan') Fixed point theorems for fuzzy mappings. 91h:90232
- Lucas, William F. Developments in stable set theory. 91m:90211
- Marchi, Ezio A note on proper and perfect E -stable points. (Spanish. English summary) 91g:90192
- Maschler, Michael Consistency. (see 91i:90003)
- McLean, Richard P. see Blair, Douglas H., 91c:90130
- Moldovanu, B. A note on a theorem of Aumann and Dreze. 91f:90158
- Moulin, Hervé Cores and large cores when population varies. 91j:90102
- Mukherjee, Badal see Anant, T. C. A.; et al., 91m:90206
- Nowak, Martin Stochastic strategies in the prisoner's dilemma. 91h:90134
- Papavasiliopoulos, George Cooperative outcomes of dynamic stochastic Nash games. 91a:90194
- Ponsard, Jean-Pierre Self-enforceable paths in extensive form games. 91c:90133
- Potter, Jos A. M. A class of traveling salesman games. 91h:90232
- see also Drăgan, Irinel; et al., 91c:90131
- Qi, Xiao Fei (with Wang, Zhong Tuo) Multi-objective Nash bargaining game theory and its applications. (Chinese. English summary) 91h:90233
- Rosenmüller, Joachim Homogeneous games with countably many players. 91a:90195
- Rosenthal, Edward C. Monotonicity of solutions in certain dynamic cooperative games. 91j:90194
- Monotonicity of the core and value in dynamic cooperative games. 91j:90103
- Roth, Alvin E. (with Sotomayor, Marilda) The college admissions problem revisited. 91a:90196a
- (with Sotomayor, Marilda) Erratum: "The college admissions problem revisited". 91a:90196b
- Rousseau, J. J. see Charnes, A.; et al., 91a:90189
- Salles, M. see Le Breton, M., 91h:90087
- Samet, Dov see Kalai, Ehud, 91h:90230
- Sharkey, William W. Cores of games with fixed costs and shared facilities. 91g:90193
- Sotomayor, Marilda see Roth, Alvin E., 91a:90196a and 91a:90196b
- Sotnikov, A. I. Monotone procedures in social choice with blockings. (Russian) (Not in MR)
- Sprumont, Yves Population monotonic allocation schemes for cooperative games with transferable utility. 91k:90233
- Thomson, William L. The consistency principle. 91k:90234
- Tijs, Stef H. see Drăgan, Irinel; et al., 91c:90131
- Vasil'ev, V. A. (with Zuev, M. G.) The support function of the core of the convex game on a metric compactum. (Russian) 91k:90235
- Wang, Zhong Tuo see Qi, Xiao Fei, 91h:90233
- Watson, Joel Communication and superior cooperation in two-player normal form games. 91m:90212
- Wei, Quan Ling see Charnes, A.; et al., 91a:90189
- Winter, Eyal A value for cooperative games with levels structure of cooperation. 91c:90134
- Wooders, Myrna Holtz (with Zame, William R.) Values of large finite games. 91c:90135
- Xing, Wen Xun An algorithm for the nucleolus of an n -person cooperative game. (Chinese. English summary) 91h:90234
- Yano, Makoto A local theory of cooperative games. 91i:90088
- Yanovskaya, E. B. Ordinal optimality criteria in the theory of cooperative games. (Russian. English summary) (Not in MR)
- Ye, Tian Xiang Structures of pre-kernels and pseudokernels of games with coalition structures. (Chinese) (Not in MR)
- Zame, William R. see Wooders, Myrna Holtz, 91c:90135
- Zemel, Eitan see Gilboa, Itzhak; et al., 91h:90228
- Zheng, Quan' see Liu, Zuo Shu, 91h:90232
- Zuev, M. G. see Vasil'ev, V. A., 91k:90235

Items with secondary classifications in 90D12

- Aarts, Harry see van den Nouweland, Anne; et al., 91k:90029
- Abou-Kandil, H. An eigenvector solution for multilevel linear-quadratic Stackelberg games. 91f:90164
- Anbarci, Nejat The Kalai/Smorodinsky solution with time preferences. 91a:90042
- Bondareva, O. N. The market with the fixed demand. 91h:90029
- Game-theoretic analysis of a one-product market with equal utilities. 91k:90048
- Börger, Tilman Undominated strategies and coordination in normalform games. 91m:90010
- Born, P. E. M. see van den Nouweland, Anne; et al., 91k:90029
- Bös, Dieter (with Nett, Lorenz) Privatization, price regulation, and market entry—an asymmetric multistage duopoly model. 91m:90022
- Bountis, Tassos see Drossos, L.; et al., 91h:90131a and 91h:90131b
- Burkov, V. N. (with Enaleev, A. K.; Kalenchuk, V. F.) Coalitions in a competitive mechanism of resource allocation. 91c:90017
- Chernyakov, A. G. see Vershik, A. M., (91h:90023)
- Chun, Youngsub (with Thomson, William L.) Egalitarian solutions and uncertain disagreement points. 91m:90224
- (with Thomson, William L.) Bargaining with uncertain disagreement points. 91j:90023
- Coleman, Andrew A. (with Colman, Andrew M.; Thomas, Richard M.) Cooperation without awareness: a multiperson generalization of the minimal social situation. 91m:92049
- Colman, Andrew M. see Coleman, Andrew A.; et al., 91m:92049
- Danilov, N. N. (with Tomskil, G. V.) On the existence of the α - β -core in dynamic games of fixed duration. 91c:90145
- Drossos, L. (with Bountis, Tassos; Nicolis, John S.) Chaos in nonlinear paradoxical games. (Italian and Russian summaries) 91h:90131a
- (with Bountis, Tassos; Nicolis, John S.) Errata: "Chaos in nonlinear paradoxical games". 91h:90131b
- Enaleev, A. K. see Burkov, V. N.; et al., 91c:90017
- Fernandez, Raquel (with Rosenthal, Robert W.) Strategic models of sovereign-debt renegotiations. 91d:90033
- Forges, Françoise Equilibria with communication in a job market example. 91j:90011
- Hammond, Peter J. (with Kaneko, Mamoru; Wooders, Myrna Holtz) Continuum economies with finite coalitions: core, equilibria, and widespread externalities. 91h:90016
- Haurie, Alain (with Tolwinski, Boleslaw) Cooperative equilibria in discounted stochastic sequential games. 91k:93078
- Kalenchuk, V. F. see Burkov, V. N.; et al., 91c:90017
- Kaneko, Mamoru (with Wooders, Myrna Holtz) The core of a continuum economy with widespread externalities and finite coalitions: from finite to continuum economies. 91h:90017
- see also Hammond, Peter J.; et al., 91h:90016
- Kelly, Jerry S. see Prasad, Kislava, 91m:90042
- Kleimenov, A. F. Cooperative solutions in a positional differential n -person game with continuous payoff functions. 91k:90242
- Kolpin, Van Core implementation via dynamic game forms. 91c:90017
- Equivalent game forms and coalitional power. 91k:90252
- Kondrat'ev, A. I. Game-theoretic classifying models. (Russian) 91a:68232
- Lahiri, Somdeb Threat bargaining games with a variable population. 91c:90007
- McKenzie, Lionel Addendum: "A limit theorem on the core" [Econ. Lett. 27 (1988), no. 1, 7-9; MR 89m:90035]. 91d:90015
- Nett, Lorenz see Bös, Dieter, 91m:90022
- Nicolis, John S. see Drossos, L.; et al., 91h:90131a and 91h:90131b
- van den Nouweland, Anne (with Aarts, Harry; Born, P. E. M.) Multi-commodity games. 91k:90029
- Phan Quôc Khánh (with Trần Huệ Nhuong) On necessary and sufficient conditions in vector optimization. 91a:90158
- van der Ploeg, Carol E. An evolutionary alternative to rational expectations models of stock markets. (Italian summary) 91h:90028
- Pollock, Gregory B. Evolutionary stability of reciprocity in a viscous lattice. 91h:92041
- Prasad, Kislava (with Kelly, Jerry S.) NP-completeness of some problems concerning voting games. 91m:90042
- Rapoport, Amnon ★ Experimental studies of interactive decisions. 91i:90006
- Rosenmüller, Joachim Discrete concepts in n -person game theory: nondegeneracy and homogeneity. 91m:90200
- Rosenthal, Robert W. see Fernandez, Raquel, 91d:90033
- Spilber, Daniel F. The second best core. 91d:90032
- Thomas, Richard M. see Coleman, Andrew A.; et al., 91m:92049
- Thomson, William L. see Chun, Youngsub, 91j:90023 and 91m:90224
- Tolwinski, Boleslaw see Haurie, Alain, 91k:93078
- Tomskil, G. V. see Danilov, N. N., 91c:90145
- Trần Huệ Nhuong see Phan Quôc Khánh, 91a:90158
- Vershik, A. M. (with Chernyakov, A. G.) Fields of convex polyhedra and the Pareto-Smale optimum [MR 84m:58011]. (see 91h:90023)
- Wooders, Myrna Holtz see Hammond, Peter J.; et al., 91h:90016 and Kaneko, Mamoru, 91h:90017
- Zhang, Jian Gao The nucleolus of n -person cooperative games with generalized symmetric partitions. (Chinese. English summary) 91c:90138

90D13 Games with infinitely many players

- Börger, Tilman Upper hemicontinuity of the correspondence of subgame-perfect equilibrium outcomes. 91j:90105
- Ein, Ezra (with Lehrer, Ehud) Regular simple games. 91a:90197
- (with Neyman, Abraham) On nonatomic weighted majority games. 91g:90194

- Green, Jerry (with Laffont, Jean-Jacques) Competition on many fronts: a Stackelberg signaling equilibrium. 91g:90195
- Laffont, Jean-Jacques see Green, Jerry, 91g:90195
- Lehrer, Ehud see Einy, Ezra, 91a:90197
- Lewis, Alain A. A note on degrees of presentation of games as relational structures. 91e:90142
- Lutsenko, M. M. An approach to solving games on the unit square with the payoff function $k(x - y)$. I. (Russian. English summary) 91e:90143
- Monderer, Dov Weighted majority games have many μ -values. 91a:90198
- Asymptotic measure-based values of nonatomic games. 91g:90196
- (with Ruckle, William H.) On the symmetry axiom for values of nonatomic games. 91g:90197
- A Milnor condition for nonatomic Lipschitz games and its applications. 91k:90236
- Neyman, Abraham see Einy, Ezra, 91g:90194
- Ruckle, William H. see Monderer, Dov, 91g:90197
- Sabourian, Hamid Anonymous repeated games with a large number of players and random outcomes. 91g:90198
- Samuelson, Larry Evolutionary foundations of solution concepts for finite, two-player, normal-form games. 91a:90199

Items with secondary classifications in 90D13

- Ben-El-Mechaieq, H. The complexity of computing a best response automaton in repeated games with mixed strategies. 91b:90222
- Chakrabarti, Subir K. Characterizations of the equilibrium payoffs of inertia supergames. 91m:90208
- Collins, E. J. see McNamara, J. M., 91i:90005
- Feld, Scott L. (with Grofman, Bernard) A theorem connecting Shapley-Owen power scores and the radius of the yolk in two dimensions. 91m:90041
- Gorelov, M. A. On the stability of a set of equilibrium programs in multistage games. (Russian) 91k:90227
- Grofman, Bernard see Feld, Scott L., 91m:90041
- Lutsenko, M. M. An approach to solving games on the unit square with the payoff function $k(x - y)$. II. (Russian. English summary) 91f:90151
- McNamara, J. M. (with Collins, E. J.) The job search problem as an employer-candidate game. 91i:90005
- Potters, Jos A. M. (with Tijs, Stef H.) Information market games with more than one informed player. 91g:90058
- Rosenmüller, Joachim Homogeneous games with countably many players. 91a:90195
- Tijs, Stef H. see Potters, Jos A. M., 91g:90058

90D15 Stochastic games [see also 93E05]

- Aho, Katsumori Bilateral secretary problem recognizing the maximum or the second maximum of a sequence. 91b:90235
- Blackwell, David Operator solution of infinite G_δ games of imperfect information. 91d:90107
- Bretton, Michèle (with L'Eucuyer, Pierre) Noncooperative stochastic games under an N -stage local contraction assumption. 91g:90199
- Caravani, Paolo (with Papavasiliopoulos, George) A class of risk-sensitive noncooperative games. 91h:90135
- Chang, Sheng Lin (with Meng, Jau Yeu) Modelling a Markov attrition process. 91b:90236
- Dirven, C. A. J. M. see Vrieze, O. J., et al., 91j:90106
- Gaidov, Sretoslav D. On the Nash-bargaining solution in stochastic differential games. 91f:90159
- L'Eucuyer, Pierre see Bretton, Michèle, 91g:90199
- Melolidakis, Costis On stochastic games with lack of information on one side. 91c:90136
- Meng, Jau Yeu see Chang, Sheng Lin, 91b:90236
- Milgrom, Paul (with Roberts, John) Adaptive and sophisticated learning in normal form games. (Not in MR)
- Papavasiliopoulos, George see Caravani, Paolo, 91h:90135
- Parthasarathy, T. see Vrieze, O. J., et al., 91j:90106
- Roberts, John see Milgrom, Paul, (Not in MR)
- Shimiev, G. V. Conditions for optimality in stochastic games of discrete control of a binary linear sequential machine. I. (Russian) 91g:90200
- Thuijsman, F. see Vrieze, O. J., 91a:90201
- Tijs, Stef H. see Vrieze, O. J., et al., 91j:90106
- Vrieze, O. J. Zero-sum stochastic games. A survey. 91a:90200
- Vrieze, O. J. Stochastic games and the total reward criterion. 91f:90160
- (with Thuijsman, F.) On equilibria in repeated games with absorbing states. 91a:90201
- (with Tijs, Stef H.; Parthasarathy, T.; Dirven, C. A. J. M.) A class of stochastic games with ordered field property. 91j:90106
- Willard, Daniel, III Lanchester attrition of interpenetrating forces. 91g:90201
- Zhang, Dao Zhi Semi-Markov stochastic game. (Chinese summary) 91j:90107

Items with secondary classifications in 90D15

- Aho, Katsumori Optimal selection problem with three stops. 91c:90115
- Beckmann, M. J. Dynamic programming and the secretary problem. 91a:90171
- Coan, Brian A. (with Dolev, Danny; Dwork, Cynthia; Stockmeyer, Larry) The distributed firing squad problem. 91a:90010
- Dolev, Danny see Coan, Brian A.; et al., 91a:90010
- Dwork, Cynthia see Coan, Brian A.; et al., 91a:90010
- Fershtman, Chaim Fixed rules and decision rules. Time consistency and subgame perfection. 91a:90009
- Foster, Dean (with Young, H. Peyton) Stochastic evolutionary game dynamics. 91h:90217
- Meir, Amram (with Moon, J. W.) Bounds for the probability of winning a series competition. 91f:60017
- Moon, J. W. see Meir, Amram, 91f:60017
- Stockmeyer, Larry see Coan, Brian A.; et al., 91a:90010
- Young, H. Peyton see Foster, Dean, 91h:90217

90D20 Multistage and repeated games

- Abou-Kandil, H. Closed-form solution for discrete-time linear-quadratic Stackelberg games. 91e:90144
- Anandalingam, G. (with White, Douglas John) A solution method for the linear static Stackelberg problem using penalty functions. 91g:90202
- Boston, V. J. (with Bostock, F. A.) An evasion game on a finite tree. 91d:90108
- Beja, A. (with Gilboa, Itzhak) Values for two-stage games: another view of the Shapley axioms. 91e:90161
- Bernheim, B. Douglas (with Ray, Debraj) Collective dynamic consistency in repeated games. 91g:90203
- Boritsnik, B. (with Pumpernik, D.; Hofacker, I. L.; Hofacker, G. L.) An ESS-analysis for ensembles of prisoner's dilemma strategies. 91b:90237
- Bostock, F. A. see Boston, V. J., 91d:90108
- Cho, In-Koo (with Sobel, Joel) Strategic stability and uniqueness in signaling games. 91g:90204
- Danilov, N. N. (with Tomskii, G. V.) On the existence of the s - β -core in dynamic games of fixed duration. 91e:90145
- Dekel, Eddie (with Fudenberg, Drew) Rational behavior with payoff uncertainty. 91m:90213
- Donchev, D. S. On the two-arm bandit problem with continuous time in the presence of gradual and impulse controls. 91i:90089
- Evans, Robert Andrew (with Maskin, Eric S.) Efficient renegotiation-proof equilibria in repeated games. 91e:90147
- Evsteeva, S. A. Calculation of the greatest guaranteed payoff in dynamic models of conflict situations. 91a:90202
- Falk, James E. A dynamic game with recourse. 91a:90203
- Farrell, Joseph (with Maskin, Eric S.) Renegotiation in repeated games. 91e:90146
- Friedman, James W. (with Samuelson, Larry) Subgame perfect equilibrium with continuous reaction functions. 91i:90090
- Fudenberg, Drew (with Maskin, Eric S.) Nash and perfect equilibria of discounted repeated games. 91k:90237
- (with Kreps, David M.; Maskin, Eric S.) Repeated games with long-run and short-run players. 91h:90136
- see also Dekel, Eddie, 91m:90213
- Gilboa, Itzhak see Beja, A., 91f:90161
- Greenberg, Joseph An application of the theory of social situations to repeated games. 91h:90137
- Hofacker, G. L. see Boritsnik, B.; et al., 91b:90237
- Hofacker, I. L. see Boritsnik, B.; et al., 91b:90237
- Khalezer, A. D. Application of tunable strategies in multistage conflicts under risky conditions. 91i:90091
- Kreps, David M. see Fudenberg, Drew; et al., 91h:90136
- Lehrer, Ehud Nash equilibria of n -player repeated games with semi-standard information. 91k:90238
- Lipman, Barton L. (with Srivastava, Sanjay) Informational requirements and strategic complexity in repeated games. 91g:90205
- Maskin, Eric S. see Farrell, Joseph, 91e:90146; Evans, Robert Andrew, 91e:90147; Fudenberg, Drew; et al., 91h:90136 and 91k:90237
- Masso, Jordi (with Rosenthal, Robert W.) More on the "anti-folk theorem". 91g:90206
- Matsushima, Hitoshi Efficiency in repeated games with imperfect monitoring. 91a:90204
- Long-term partnership in a repeated prisoner's dilemma with random matching. 91i:90092
- On the theory of repeated games with private information. I. Anti-folk theorem without communication. 91m:90214
- On the theory of repeated games with private information. II. Revelation through communication. 91m:90215
- Moskalets, L. V. Regularization of the Shapley vector in a multistage game with complete information on a graph. (Russian) 91f:90162
- Mukhammediev, B. M. Multistage two-person games with control parameters under constraints and a second-order objective function. (Russian) 91c:90137
- Nguyen Van Chau (with Phan Huy Khai) Problem of pursuit in linear discrete games with state information. 91d:90109
- Nowak, Martin (with Sigmund, Karl) The evolution of stochastic strategies in the prisoner's dilemma. 91i:90093
- Osborne, Martin J. Signaling, forward induction, and stability in finitely repeated games. 91c:90138
- Petrovyan, L. A. Multistage multicriterial games with complete information. (Russian) 91f:90163
- Phan Huy Khai see Nguyen Van Chau, 91d:90109
- Pumpernik, D. see Boritsnik, B.; et al., 91b:90237
- Ray, Debraj see Bernheim, B. Douglas, 91g:90203
- Rosenthal, Robert W. see Masso, Jordi, 91g:90206
- Samuelson, Larry see Friedman, James W., 91i:90090
- Sigmund, Karl see Nowak, Martin, 91i:90093
- Sobel, Joel see Cho, In-Koo, 91g:90204
- Srivastava, Sanjay see Lipman, Barton L., 91g:90205
- Tomskii, G. V. see Danilov, N. N., 91e:90145
- Vasina, A. A. On modeling behavior in repeating conflict situations. (Russian) 91h:90138
- An evolutionary model of behavior in a supergame. (Russian) 91i:90094
- Wang, Zhi Xiong The solution of a nonlinear partial difference equation. 91g:90207
- Wendroff, Burton Cooperation in a three-way arms race. 91h:90139
- White, Douglas John see Anandalingam, G., 91g:90202

Items with secondary classifications in 90D20

- Ben-El-Mechaieq, H. The complexity of computing a best response automaton in repeated games with mixed strategies. 91b:90222
- Espinoza, María Paz (with Rhee, Changyong) Efficient wage bargaining as a repeated game. 91h:90030
- Jódar, Lucas Analytic solution for a class of discrete-time Riccati equations arising in Nash

- games. 91f:90149
 Londregan, John Entry and exit over the industry life cycle. 91m:90036
 Majumdar, A. A. K. Optimal stopping for some one-person sequential games: probability maximizing approach. 91b:60116
 Namatame, Akira Analyses of dynamic games through implicit static games. 91h:90147
 Radzik, Tadeusz Silent mixed duels. 91a:90185
 Rhee, Changyong see Espinosa, Maria Paz, 91h:90030
 Sabourian, Hamid Anonymous repeated games with a large number of players and random outcomes. 91g:90198
 Stanford, William Symmetric paths and evolution to equilibrium in the discounted prisoners' dilemma. 91a:90186
 Wernerfelt, Birger Tacit collusion in differentiated Cournot games. 91h:90040

90D25 Differential games [see also 49N55]

- Abou-Kandil, H. An eigenvector solution for multilevel linear-quadratic Stackelberg games. 91f:90164
 Adiatulina, R. A. (with Taras'ev, A. M.) Cost functions in a differential game with infinite horizon. (Russian) 91f:90095
 Amirgaliyeva, S. N. An algorithm for the construction of H -convex sets. (Russian) 91d:90110
 — An analytic method in a linear differential game with nonfixed completion time and with a special payoff function. (Russian, Kazakh summary) 91k:90239
 Aubin, Jean-Pierre Differential games: a viability approach. 91k:90240
 Barron, E. N. Differential games with maximum cost. 91h:90140
 Bernhard, P. see Breakwell, J. V., 91e:90148
 Breakwell, J. V. (with Bernhard, P.) A simple game with a singular focal line. 91e:90148
 Chentsov, A. G. see Zadikhin, L. V., 91k:90246
 Chikrit, A. A. see Lyashko, V. I.; et al., (Not in MR)
 Chistyakov, Yu. E. On the solution of a class of differential games. (Russian) 91g:90208
 Chou, S. T. see Nassar, R.; et al., (Not in MR)
 Danil'chenko, T. N. (with Ivanilov, Yu. P.; Makhmudova, Sh. D.) Investigation of equilibrium situations in differential games by the method of freedom from constraints. 91m:90216
 Davidovitz, A. (with Shinar, J.) Two-target game model of an air combat with fire-and-forget all-aspect missiles. 91g:90209
 Eshmatov, B. Linear differential evasion games with integral constraints on the player controls. (Russian) (Not in MR)
 — On the evasion problem in linear differential games. (Russian) (Not in MR)
 Fan, L. T. see Nassar, R.; et al., (Not in MR)
 Gabrielyan, M. S. (with Stepanyan, V. K.) On stochastic program synthesis. (Russian, English and Armenian summaries) 91m:90217
 Gaidov, Svetoslav D. Objection and counter-objection equilibria in many-player stochastic differential games. 91h:90238
 Guevko, S. V. (with Israelov, I. I.) Construction of an optimal guaranteed control in a linear differential game. (Russian) 91h:90239
 Haji-Ghassemi, K. On differential games of fixed duration with phase coordinate restrictions on one player. 91f:90165
 Israelov, I. I. see Guevko, S. V., 91h:90239
 Ivanilov, Yu. P. see Danil'chenko, T. N.; et al., 91m:90216
 Jódar, Lucas Explicit solutions of Riccati equations appearing in differential games. 91m:90218
 Kleimenov, A. F. Construction of solutions in a dynamic Stackelberg game. (Russian) 91f:90096
 — Decision making in a dynamical problem of controlling a game with two players. (Russian) 91k:90241
 — Investigation of a hierarchical differential game in the presence of noise. (Russian) 91g:90210
 — Cooperative solutions in a positional differential n -person game with continuous payoff functions. 91k:90242
 Kokh, A. A. An upper bound for a differential game with delay. (Russian) 91g:90211
 Krutov, B. P. (with Novikova, N. M.) Investigation of a dynamic model of multilateral conflict with a priori information and step by step choice of strategies. (Russian) (see 91m:90016)
 Lokshin, M. D. Differential games with integral noise constraints. 91g:90212
 — Game control with an integral constraint on noise. 91h:90141
 Lutmanov, S. V. Construction of compromise strategies in n -person differential games on the basis of the application of i -stable constructions. (Russian) (see 91k:90028)
 Lyashko, V. I. (with Prokopovich, P. V.; Chikrit, A. A.) Solution of the quality problem for a class of conflict-controllable processes. (Russian) (Not in MR)
 Makhmudova, Sh. D. see Danil'chenko, T. N.; et al., 91m:90216
 Malafeev, O. A. see Petrosyan, L. A., 91e:90149
 Mamedov, M. B. Pareto optimality of a Nash equilibrium situation in conflict-controllable dynamical systems. (Russian) 91m:90219
 Mino, Kazuo see Tsutsui, Shunichi, 91h:90142
 Nakagiri, Shin-ichi see Park, Jong Yeoul; et al., 91m:90220
 Nassar, R. (with Chou, S. T.; Fan, L. T.; Too, J. R.) A probabilistic model for the dynamics of a structured population of unicellular organisms. (Not in MR)
 Novikova, N. M. see Krutov, B. P., (91m:90016)
 Orlov, G. M. A method for the analytic construction of a control on the basis of optimal damping. (Russian) 91g:90213
 Ostapenko, V. V. see Voznyuk, I. S., (Not in MR)
 Park, Jong Yeoul (with Nakagiri, Shin-ichi; Yamamoto, Masahiro) Max-min controllability of delay-differential games in Banach spaces. 91m:90220
 Pashayev, A. B. A game-theoretic problem of guidance in systems that are discontinuous with respect to the controls. 91k:90243
 Pavlov, V. V. (with Pavlova, V. V.) Transversality conditions for a differential game duel. (Not in MR)
 Pavlova, V. V. see Pavlov, V. V., (Not in MR)

- Petrosyan, L. A. Strong dynamic stability of optimality principles in noncooperative differential games. (Russian) 91a:90205
 — (with Malafeev, O. A.) Differential multicriteria n -person games. 91e:90149
 — Differential games with dependent strategy sets. (Russian) 91m:90221
 — Dynamic and strong dynamic stability of optimal decisions. (Serbo-Croatian summary) (see 91m:90027)
 Prokopovich, P. V. see Lyashko, V. I.; et al., (Not in MR)
 Shinar, J. see Davidovitz, A., 91g:90209
 Sidorova, E. V. (with Subbotina, N. N.) An algorithm for calculating the cost function of a linear differential game with a convex pay-off. (Russian) 91f:90097
 Solomatin, A. M. A criterion for the regularity of a program maximin for linear differential games with integral constraints. (Russian) 91f:90166
 Stepanyan, V. K. see Gabrielyan, M. S., 91m:90217
 Subbotina, A. I. Approximation of a guaranteed result in game-theoretic control problems. (Russian) 91f:90167
 Subbotina, N. N. see Sidorova, E. V., 91f:90097
 Taras'ev, A. M. The function of an optimal guaranteed result of control problems with a vector criterion. (Russian summary) 91m:90222
 — see also Adiatulina, R. A., 91f:90095
 Tolwinski, Boleslaw Numerical solutions to differential games based on approximations by Markov games. 91a:90206
 Tomskii, G. V. Program iterations in a differential-impulse game. (Russian) 91k:90244
 Too, J. R. see Nassar, R.; et al., (Not in MR)
 Tsutsui, Shunichi (with Mino, Kazuo) Nonlinear strategies in dynamic duopolistic competition with sticky prices. 91h:90142
 Vaisbord, E. M. (with Zhukovskii, V. I.) ★ Introduction to multi-player differential games and their applications. 91c:90139
 Voznyuk, I. S. (with Ostapenko, V. V.) The differential game "simple motion" with a forestalling influence. (Russian, English summary) (Not in MR)
 (Williams, Anthony) see Vaisbord, E. M., 91c:90139
 Yamamoto, Masahiro see Park, Jong Yeoul; et al., 91m:90220
 Yong, Jong Min Differential games with switching strategies. 91h:90143
 — A zero-sum differential game in a finite duration with switching strategies. 91m:90223
 Zaremba, Leszek Saturnin Differential games reducible to optimal control problems. 91a:90207
 Zarkh, M. A. Universal strategy for the second player in a linear differential game. 91k:90245
 Zhukovskii, V. I. see Vaisbord, E. M., 91c:90139
 Zadikhin, L. V. (with Chentsov, A. G.) A two-level model for a controllable nonlinear system. (Russian) 91k:90246
- Items with secondary classifications in 90D25
 Baidosov, V. A. Multivalued mappings of topological spaces and conjugate mappings of spaces of semicontinuous real functions. (Russian) 91d:54021
 Ball, Joseph A. (with Helton, J. William) H^∞ control for nonlinear plants: connections with differential games. 91f:93043
 Baranov, V. L. see Vasil'ev, V. V., 91a:65149
 Bardi, Martino (with Soravia, Pierpaolo) Hamilton-Jacobi equations with singular boundary conditions on a free boundary and applications to differential games. 91h:49034
 Belousov, A. A. (with Chikrit, A. A.) Global controllability in game problems of dynamics. 91j:93006
 — see also Chikrit, A. A., 91m:93016
 Botkin, N. D. (with Krasov, A. I.) Positional control in a model problem of an aircraft taking off. (Russian) 91d:70018
 — (with Kein, V. M.; Patsko, V. S.) Application of the methods of the theory of differential games to the problem of controlling an aircraft when landing. (Russian) 91d:70019
 Chen, Gui Qiang (with Rustichini, Aldo) The Riemann solution to a system of conservation laws, with application to a nonzero sum game. 91c:35088
 Chikrit, A. A. (with Belousov, A. A.) The controllability problem for conflict-control processes. 91m:93016
 — see also Belousov, A. A., 91j:93006
 Clemhout, Simone (with Wan, Henry, Jr.) On games of cake-eating. 91k:90042
 Cosner, Chris (with Lenhart, S. M.; Protopenescu, V.) Parabolic systems with nonlinear competitive interactions. 91h:35147
 Dockner, Engelbert J. (with Neck, Reinhard) Inefficient and efficient stabilization policies in a simple macroeconomic model: an application of linear-quadratic differential game theory. 91g:90053
 Dubey, P. (with Rogawski, Jonathan D.) Inefficiency of smooth market mechanisms. 91h:90044
 Fershtman, Chaim (with Kamien, Morton I.) Turnpike properties in a finite-horizon differential game: dynamic duopoly with sticky prices. 91h:90069
 Freedman, H. I. (with Takeuchi, Yasuhiro) Predator survival versus extinction as a function of dispersal in a predator-prey model with patchy environment. 91m:92035
 Gel'man, L. M. (with Levin, M. I.) Models of innovative processes (a survey of foreign literature). (Russian) 91h:90054
 Gradus, Raymond H. J. M. A differential game between government and firms: a noncooperative approach. 91h:90014
 Helton, J. William see Ball, Joseph A., 91f:93043
 Ibragimov, G. I. see Rikhsiev, B. B., 91g:90216
 Kaitala, Veijo (with Pohjola, Matti) Economic development and agreeable redistribution in capitalism: efficient game equilibria in a two-class neoclassical growth model. 91h:90062
 Kamien, Morton I. see Fershtman, Chaim, 91h:90069
 Kein, V. M. see Botkin, N. D.; et al., 91d:70019
 Kim, D. P. ★ Методы поиска и предсказания подвижных объектов. (Russian) [Methods for the search and pursuit of moving objects] 91m:90092
 Kirilyuk, V. S. ★ Математическая теория живучести (по материалам ИАASA). (Russian) [Mathematical theory of viability (from reports of the International Institute of Applied Systems Analysis)] 91h:34021
 Krasov, A. I. see Botkin, N. D., 91d:70018

- Kryazhinski, A. V. (with Osipov, Yu. S.) Stable solutions of inverse problems of the dynamics of controllable systems. (Russian) 91a:93020
- Kurzban, A. B. (with Nikonov, O. I.) On the problem of the synthesis of control strategies. Evolution equations and multivalued integration. 91f:49046
- Kuz'mina, T. I. see Petrosyan, L. A., 91m:90002
- Lenhart, S. M. see Cosner, Chris; et al., 91h:35147
- Levin, M. I. see Gel'man, L. M., 91b:90054
- Liu, Zhi Min see Wang, Chao Zhu; et al., 91m:70036
- Neck, Reinhard see Dockner, Engelbert J., 91g:90053
- Nikonov, O. I. see Kurzban, A. B., 91f:49046
- Osipov, Yu. S. see Kryazhinski, A. V., 91a:93020
- Outrata, Jiří V. On the numerical solution of a class of Stackelberg problems. (German summary) 91j:49022
- Patako, V. S. see Botkin, N. D.; et al., 91d:70019
- Petrosyan, L. A. (with Kuz'mina, T. I.) ★ Бескоалиционные дифференциальные игры. (Russian) [Noncooperative differential games] 91m:90002
- Phan Quốc Khánh (with Trần Huệ Nhung) On necessary and sufficient conditions in vector optimization. 91a:90158
- Pohjola, Matti see Kaitala, Veijo, 91b:90062
- Protopopescu, V. see Cosner, Chris; et al., 91h:35147
- Qin, Hua Shu see Wang, Chao Zhu; et al., 91m:70036
- Rikhsiev, B. B. (with Ibragimov, G. I.) Simple pursuit in a cube. (Russian. Uzbek summary) 91g:90216
- Rogawski, Jonathan D. see Dubey, P., 91b:90044
- Rustichini, Aldo see Chen, Gui Qiang, 91g:90088
- Schäfer, Martin Resource extraction vs. recycling—a differential game approach. 91i:90026
- Shevchenko, I. I. The simplest pursuit game in positions that are separated by obstacles. 91a:90210
- Shimomura, Koji The feedback equilibria of a differential game of capitalism. 91m:90033
- Soravia, Pierpaolo see Bardi, Martino, 91h:49034
- Takeuchi, Yasuhiro see Freedman, H. I., 91g:90235
- Trần Huệ Nhung see Phan Quốc Khánh, 91a:90158
- Vasil'ev, V. V. (with Baranov, V. L.) ★ Моделирование задач оптимизации и дифференциальных игр. (Russian) [Modeling of problems in optimization and differential games] 91a:65149
- de Villiers, R. see Yavin, Y., 91k:93079
- Vokresenskii, E. V. Asymptotic integration of differential equations of controllable motion. (Russian) 91g:34033
- Wan, Henry, Jr. see Clemhout, Simone, 91k:90042
- Wang, Chao Zhu (with Qin, Hua Shu; Liu, Zhi Min) Qualitative analysis for space proportional navigation. (Chinese. English summary) 91m:70036
- Yavin, Y. (with de Villiers, R.) Application of stochastic differential games to medium-range air-to-air missiles. 91k:93079
- 90D26 Pursuit and evasion games**
- Azamov, A. A. (with Niyazov, Kh. U.) Minimax approach-evasion problems with a phase constraint for the pursuer. (Russian) 91g:90214
- Barsgeyan, V. R. Games with "life lines" in a gravitational field. (Russian) 91i:90098
- Belousov, A. A. see Chikrii, A. A., 91g:90215
- Chikrii, A. A. (with Belousov, A. A.) Positional approach to a terminal set of complex structure. (Russian) 91g:90215
- (with Khomin, A. V.) Extremal selectors in differential games of pursuit. II. 91h:90144
- (with Prokopovich, P. V.) An avoidance problem with the interaction of groups of moving objects. 91k:90247
- see also Skopetski, V. V.; et al., 91c:90143 and Vetchinova, L. I.; et al., 91k:90250
- Fazylov, A. Z. A linear problem of avoiding collisions. (Russian) 91a:90208
- Gelovach, P. A. A topological invariant in pursuit problems. 91a:90209
- Equivalence of two formalizations of a search problem on a graph. 91h:90145
- Ibragimov, G. I. see Rikhsiev, B. B., 91g:90216
- Khomin, A. V. see Skopetski, V. V.; et al., 91c:90143 and Chikrii, A. A., 91h:90144
- Korneev, V. A. The game problem of the distribution of roles with a small parameter. 91c:90140
- Levchenko, A. Yu. (with Pashkov, A. G.) Differential game of optimal approach of two inertial pursuers to a noninertial evader. 91c:90141
- Loginov, M. I. A method for constructing a smooth potential in a linear differential approach game. 91c:90142
- Niyazov, Kh. U. see Azamov, A. A., 91g:90214
- Pashkov, A. G. see Levchenko, A. Yu., 91c:90141
- Pavlova, V. V. Functional-homeostatic approximation as a means for finding a guaranteed solution in a nonlinear differential evasion game. (Russian) 91k:90248
- Petrosyan, L. A. (with Tomskii, G. V.) ★ Элементарные задачи преследования и уклонения. (Russian) [Elementary problems of pursuit and evasion] 91h:90146
- Pourtallier, Odile A two player dynamical game with imperfect information. 91j:90108
- Prokopovich, P. V. see Chikrii, A. A., 91k:90247
- Rappoport, I. S. see Vetchinova, L. I.; et al., 91k:90250
- Rikhsiev, B. B. On the problem of group pursuit on a compact convex set. 91j:90109
- (with Ibragimov, G. I.) Simple pursuit in a cube. (Russian. Uzbek summary) 91g:90216
- Satimov, N. Yu. On methods for solving a pursuit problem in differential games. (Russian) 91g:90217
- Shevchenko, I. I. The simplest pursuit game in positions that are separated by obstacles. 91a:90210
- Skopetski, V. V. (with Khomin, A. V.; Chikrii, A. A.) Conditions for the solvability of a quasilinear problem of group pursuit. (Russian. English summary) 91c:90143
- Sokolovskii, D. B. A discrete method for the optimal search for moving objects. (Russian) (Not in MR)
- Tomskii, G. V. see Petrosyan, L. A., 91h:90146
- Triesch, Eberhard On a search problem in graph theory. 91k:90249
- Ushakov, V. N. On stability in differential games. (Russian) 91f:90168

- Vetchinova, L. I. (with Rappoport, I. S.; Chikrii, A. A.) A method for group positional pursuit. (Russian) 91k:90250

Items with secondary classifications in 90D26

- Chikrii, A. A. see Klimenko, E. V.; et al., 91b:93159
- Klimenko, E. V. (with Skopetski, V. V.; Chikrii, A. A.) A game problem of group pursuit of an object. 91b:93159
- Lia, Yong Tan (with Quan, Tai Fan) A method for improving the number of tracking targets. (Chinese. English summary) (Not in MR)
- Nguyen Van Chau (with Phan Huy Khai) Problem of pursuit in linear discrete games with state information. 91d:90109
- Phan Huy Khai see Nguyen Van Chau, 91d:90109
- Quan, Tai Fan see Lia, Yong Tan, (Not in MR)
- Skopetski, V. V. see Klimenko, E. V.; et al., 91b:93159
- Treubergen, M. I. Stability of programmed motion on a finite time interval in the formulation of A. A. Lebedev and K. A. Agaryan. (Russian. Kazakh summary) 91d:34066
- Wilson, John G. Approximating an infinite stage search problem with a finite horizon model. 91a:90099

90D35 Decision theory for games [see also 62Cxx, 90A05, 90B50]

- Berninghaus, Siegfried (with Seifert-Vogt, Hans Günther) A game theoretical analysis of household migration decisions. 91g:90218
- Chimentil, Frank A. Pascal's wager: a decision-theoretic approach. 91i:90099
- De, Sankar (with Kale, Jayant R.) Optimality of coupon-bearing debt under asymmetric information. (Not in MR)
- Dearden, James A. Efficiency and disagreement in repeated infinite horizon bargaining games. (Not in MR)
- Fang, Liping see Kilgour, D. Marc; et al., (Not in MR)
- Garnaev, A. Yu. (with Sedykh, L. G.) A discrete game on a plane with an information delay. (Russian) 91i:90100
- Hipel, Keith W. see Kilgour, D. Marc; et al., (Not in MR)
- Kale, Jayant R. see De, Sankar, (Not in MR)
- Kambe, Shinsuke (with Matsushima, Hitoshi) Contractual delay and efficiency in delegation games: two-principal case. (Not in MR)
- Kamlen, Morton I. see Zamir, Shmuel; et al., (91i:90003)
- Kilgour, D. Marc (with Fang, Liping; Hipel, Keith W.) A decision support system for the graph model of conflicts. (Not in MR)
- Matsushima, Hitoshi see Kambe, Shinsuke, (Not in MR)
- Moldovanu, B. Stable bargained equilibria for assignment games without side payments. 91k:90251
- Namatame, Akira Analyses of dynamic games through implicit static games. 91h:90147
- Qe, Xiao Fei An investigation of solutions to multi-objective Nash bargaining games. (Chinese) 91i:90101
- Sedykh, L. G. see Garnaev, A. Yu., 91i:90100
- Seifert-Vogt, Hans Günther see Berninghaus, Siegfried, 91g:90218
- Tauman, Yair see Zamir, Shmuel; et al., (91i:90003)
- Thomas, Lyn C. (with Washburn, Alan R.) Dynamic search games. (Not in MR)
- Washburn, Alan R. see Thomas, Lyn C., (Not in MR)
- Zamir, Shmuel (with Kamien, Morton I.; Tauman, Yair) Information transmission. (see 91i:90003)

Items with secondary classifications in 90D35

- Blair, Douglas H. (with McLean, Richard P.) Subjective evaluations of n -person games. 91c:90130
- Caravani, Paolo (with Papavasiliopoulos, George) A class of risk-sensitive noncooperative games. 91c:90135
- Cavagnac, Michel Information et différenciation du produit sur un marché de duopole. (English summary) [Information and product differentiation in a duopoly market] 91g:90054
- Dejon, B. (with Güldner, B.; Wenzel, Georg) Direct equilibria of economies and their perfect homogeneity limits. 91k:90032
- Eger, Thomas (with Kraft, Manfred; Weise, Peter) Patents, innovation, and imitation: a game-theoretic approach. 91f:90022
- (von Furstenberg, George M.) see Acting under uncertainty: multidisciplinary conceptions, 91a:90015
- Güldner, B. see Dejon, B.; et al., 91k:90032
- Kraft, Manfred see Eger, Thomas; et al., 91f:90022
- McLean, Richard P. see Blair, Douglas H., 91c:90130
- Monticino, Michael G. Utility functions which ensure the adequacy of stationary strategies. 91h:60047
- Muthoo, Abhinav Bargaining without commitment. 91k:90051
- Ockenfels, Peter ★ Informationsbeschaffung auf homogenen Oligopolmärkten. (German) [Information acquisition for homogeneous oligopoly markets] 91m:90049
- (Oliver, R. M.) see Influence diagrams, belief nets and decision analysis, 91i:90007
- Papavasiliopoulos, George see Caravani, Paolo, 91h:90135
- Rappoport, Anatol ★ Decision theory and decision behaviour. 91a:90012
- (Smith, J. Q.) see Influence diagrams, belief nets and decision analysis, 91i:90007
- Vrieze, O. J. Stochastic games and the total reward criterion. 91f:90160
- Weise, Peter see Eger, Thomas; et al., 91f:90022
- Wenzel, Georg see Dejon, B.; et al., 91k:90032

Items listed otherwise than by author

- Acting under uncertainty: multidisciplinary conceptions ★ Acting under uncertainty: multidisciplinary conceptions. 91a:90015
- Berkeley, CA ★ Influence diagrams, belief nets and decision analysis. 91i:90007

Conference:

- Influence Diagrams for Decision Analysis, Inference and Prediction** ★ Influence diagrams, belief nets and decision analysis. 91f:90007
Influence diagrams, belief nets and decision analysis ★ Influence diagrams, belief nets and decision analysis. 91f:90007

90D40 Game-theoretic models [see also 65Cxx]

- Basar, Tamer** Time consistency and robustness of equilibria in noncooperative dynamic games. 91f:90169
Berkes, Fikret (with Kence, Aykut) Fisheries and the Prisoner's Dilemma game: conditions for the evolution of cooperation among users of common property resources. (Not in MR)
van den Elzen, Antoon Interpretation and generalization of the Lemke-Howson algorithm. 91f:90170
Hansen, Bodil O. (with Keiding, Hans) Reaction equilibria. 91h:90148
Howard, Nigel "Soft" game theory. 91f:90171
Keiding, Hans see Hansen, Bodil O., 91h:90148
Kence, Aykut see Berkes, Fikret, (Not in MR)
Kikuta, Ken-aku A hide and seek game with traveling cost. 91g:90219
Kolpin, Van Equivalent game forms and coalitional power. 91k:90252
Kontsevich, V. M. see Mikhalovich, V. S., 91i:90102
Mazalov, V. V. see Vinnichenko, S. V., 91h:90240
Mikhalovich, V. S. (with Kontsevich, V. M.) ★ Об одном подходе к исследованию процесса управления уровнями вооружения. (Russian) [An approach to studying an arms control process] 91i:90102
Ra'nov, V. A. A one-dimensional model of conflict interactions. (Russian) (see 91k:90006)
Thépot, Jacques Nash vs. Stackelberg strategies in a capital accumulation game. (see 91f:90002)
Vinnichenko, S. V. (with Mazalov, V. V.) Game models in dredging systems. (Russian) 91h:90240

Items with secondary classifications in 90D40

- Abreu, Dilip** (with Sen, Arunava) Subgame perfect implementation: a necessary and almost sufficient condition. 91c:90009
Basu, Kaushik (with Singh, Nirvikar) Entry-deterrence in Stackelberg perfect equilibria. 91h:90037
Blume, Lawrence (with Easley, David) Implementation of Walrasian expectations equilibria. 91g:90034
Bondareva, O. N. Game-theoretic analysis of a one-product market with equal utilities. 91k:90048
Breton, Michèle (with Haurie, Alain; Zaccour, Georges) Methods in the analysis of multistage commodity markets. 91h:90024
Cleff-Revilla, Claudio Mathematical contributions to the scientific understanding of war. 91c:92109
Crawford, Vincent P. Nash equilibrium and evolutionary stability in large- and finite-population "playing the field" models. 91c:92082
Dragomir, Sever Silvestru On sublinear functionals in real Hilbert spaces. (Romanian. English summary) 91c:46035
Easley, David see Blume, Lawrence, 91g:90034
Fang, Liping see Kilgour, D. Marc; et al., 91h:90007
Felsenthal, Dan S. see Rapoport, Amnon; et al., 91h:90221
Fishman, Michael J. (with Hagerty, Kathleen M.) The optimal amount of discretion to allow in disclosure. 91d:90028
Forbes, Kevin F. see Howe, Eric C., 91d:90024
Fuji-Hara, Ryoh see Jimbo, Masakazu, 91h:90038
Gambarelli, Gianfranco (with Holubiec, Jerzy; Kacprzyk, Janusz) Modeling and optimization of international economic cooperation via fuzzy mathematical programming and co-operative games. (Russian and Polish summaries) 91h:90058
Green, Jerry (with Laffont, Jean-Jacques) Competition on many fronts: a Stackelberg signaling equilibrium. 91g:90195
Hagerty, Kathleen M. see Fishman, Michael J., 91d:90028
Hamilton, Jonathan H. (with Slutsky, Steven M.) Endogenous timing in duopoly games: Stackelberg or Cournot equilibria. 91d:90104
Haurie, Alain see Breton, Michèle; et al., 91h:90024
Hillas, John On the definition of the strategic stability of equilibria. 91k:90034
Hipel, Keith W. see Kilgour, D. Marc; et al., 91h:90007
Hirschberg, Daniel S. see Ng, Cheng, 91f:68094
Holubiec, Jerzy see Gambarelli, Gianfranco; et al., 91h:90058
Howe, Eric C. (with Forbes, Kevin F.) Negotiating over externalities. 91d:90024
Ingberman, Daniel E. Reputational dynamics in spatial competition. 91g:90014
Jimbo, Masakazu (with Fuji-Hara, Ryoh) Optimal authentication systems and combinatorial designs. 91h:90038
Kacprzyk, Janusz see Gambarelli, Gianfranco; et al., 91h:90058
Kaitala, Veijo (with Pohjola, Matti) Economic development and agreeable redistribution in capitalism: efficient game equilibria in a two-class neoclassical growth model. 91h:90062
Kilgour, D. Marc (with Fang, Liping; Hipel, Keith W.) General preference structures in the graph model for conflicts. 91h:90007
Kisilev, V. N. (with Malafeev, O. A.) Game-theoretic dynamic search problems. (Russian) 91f:90066
Laffont, Jean-Jacques see Green, Jerry, 91g:90195
Lederer, Phillip J. (with Thiese, Jacques-François) Competitive location on networks under delivered pricing. 91c:90039
Lipman, Barton L. Delaying or deterring entry: a game-theoretic analysis. 91d:90011
Malafeev, O. A. see Kisilev, V. N., 91f:90066
Maskin, Eric S. (with Tirole, Jean) The principal-agent relationship with an informed principal: the case of private values. 91c:90038
Murphy, Frederic H. (with Toman, Michael A.; Weiss, Howard J.) A dynamic Nash game model of oil market disruption and strategic stockpiling. 91m:90048

- Ng, Cheng** (with Hirschberg, Daniel S.) Lower bounds for the stable marriage problem and its variants. 91f:68094
Nielsen, Emerson M. S. (with Ordeshook, Peter C.) The geographical imperatives of the balance of power in 3-country systems. 91c:92110
Ordeshook, Peter C. see Nielsen, Emerson M. S., 91c:92110
Owen, Guillermo Stable outcomes in spatial voting games. 91h:90024
van der Ploeg, Carol E. An evolutionary alternative to rational expectations models of stock markets. (Italian summary) 91h:90028
Pohjola, Matti see Kaitala, Veijo, 91h:90062
Qu, Xiao Fei (with Wang, Zhong Tuo) Multi-objective Nash bargaining game theory and its applications. (Chinese. English summary) 91h:90233
Rabin, Matthew Communication between rational agents. 91g:90184
Rapatskaya, S. T. Mathematical simulation of competition mechanisms. 91d:90031
Rapoport, Amnon (with Weg, Eytan; Felsenthal, Dan S.) Effects of fixed costs in two-person sequential bargaining. 91h:90221
Sen, Arunava see Abreu, Dilip, 91c:90009
Shubik, Martin Strategic market game models of exchange economies. 91k:90045
Singh, Nirvikar see Basu, Kaushik, 91h:90037
Slutsky, Steven M. see Hamilton, Jonathan H., 91d:90104
Sobel, Joel (with Stole, Lars; Zapater, Iñigo) Fixed-equilibrium rationalizability in signaling games. 91k:90254
Stankiewicz-Wiechno, Ewa (with Wąsowski, Janusz) The comparison of situations in conflict theory. The stable situations. 91m:90197
Stole, Lars see Sobel, Joel; et al., 91k:90254
Svensson, Lars-Gunnar Nash implementation of competitive equilibria in a model with indivisible goods. (Not in MR)
Thiese, Jacques-François see Lederer, Phillip J., 91c:90039
Tirole, Jean see Maskin, Eric S., 91c:90038
Toman, Michael A. see Murphy, Frederic H.; et al., 91m:90048
Wang, Zhong Tuo see Qu, Xiao Fei, 91h:90233
Wąsowski, Janusz see Stankiewicz-Wiechno, Ewa, 91m:90197
Weg, Eytan see Rapoport, Amnon; et al., 91h:90221
Weiss, Howard J. see Murphy, Frederic H.; et al., 91m:90048
Zaccour, Georges see Breton, Michèle; et al., 91h:90024
Zapater, Iñigo see Sobel, Joel; et al., 91k:90254

90D42 Positional games

- Goldman, A. J.** see Robinson, A. G., 91h:90241
Petrosyan, L. A. Games with dependent strategy sets. (Russian) (see 91k:93005)
Robinson, A. G. (with Goldman, A. J.) On Ringeisen's isolation game. 91h:90241

Items with secondary classifications in 90D42

- Brady, Allen H.** The busy beaver game and the meaning of life. (see 91h:03004)
Chung, Fan R. K. Pebbling in hypercubes. 91a:05095
Durdevan, N. (with Fraenkel, A. S.) Properties of k -Welter's game. 91a:90182
Fraenkel, A. S. see Durdevan, N., 91a:90182
Gangolli, A. (with Plambeck, T.) A note on periodicity in some octal games. 91a:90183
Golovach, P. A. A topological invariant in pursuit problems. 91a:90209
Lee, King Tak On Ruckie's game of ambush. 91f:90150
Plambeck, T. see Gangolli, A., 91a:90183
Triesch, Eberhard On a search problem in graph theory. 91k:90249

90D43 Games involving graphs

- Anderson, Edward J.** (with Aramendia, M. A.) The search game on a network with immobile hider. 91h:90149
Aramendia, M. A. see Anderson, Edward J., 91h:90149
Eriksson, Kimmo No polynomial bound for the chip firing game on directed graphs. 91j:90110
Washburn, Alan R. Deterministic graphical games. 91h:90103
Yamasaki, Yohei A difficulty in particular Shannon-like games. (Not in MR)
Items with secondary classifications in 90D43
Anderson, Edward J. (with Aramendia, M. A.) An improvement step for a dynamic search game on a network. 91g:90086
Aramendia, M. A. see Anderson, Edward J., 91g:90086
Golovach, P. A. Equivalence of two formalizations of a search problem on a graph. 91h:90145

90D44 Games involving topology or set theory

- Chun, Youngsub** (with Thomson, William L.) Egalitarian solutions and uncertain disagreement points. 91m:90224
Khan, M. Ali (with Sun, Yengeng) On a reformulation of Cournot-Nash equilibria. 91d:90111
Nowak, Andrzej S. (with Radzik, Tadeusz) On weakly correlated and correlated equilibria in discontinuous games. 91m:90225
Radzik, Tadeusz see Nowak, Andrzej S., 91m:90225
Rosen, V. V. Values for games with ordered outcomes. (Russian) 91f:90172
Sun, Yengeng see Khan, M. Ali, 91d:90111
Thomson, William L. see Chun, Youngsub, 91m:90224
Items with secondary classifications in 90D44
Lessonde, Marc Fixed points for Kakutani factorizable multifunctions. 91h:47062
Rubinstein, Ariel (with Wolinsky, Asher) On the logic of "agreeing to disagree" type results. 91h:90009
Wang, Feng Qiong The topological game $\Gamma(X)$ and $C_p(X)$. (Chinese. English summary) (Not in MR)
Wolinsky, Asher see Rubinstein, Ariel, 91h:90009

- Yamasaki, Yôhei Shannon switching games without terminals. II. 91k:05083
 Young, Anne Ladhington Length of the n -number game. 91i:11026
 Zalmal, G. J. Duality for generalized fractional programs involving n -set functions. 91e:90132

90D45 Applications of game theory (1985)

Items with secondary classifications in 90D45

- Boyd, Robert (with Richerson, Peter J.) Group selection among alternative evolutionarily stable strategies. (Not in MR)
 Richerson, Peter J. see Boyd, Robert, (Not in MR)

90D46 Combinatorial games

- Goldman, A. J. see Robinson, A. G., 91e:90150
 Hedayat, A. S. The game of emptying boxes: theory and application. 91h:90150
 Robinson, A. G. (with Goldman, A. J.) The set coincidence game: complexity, attainability, and symmetric strategies. 91e:90150
 Ruiz Gómez, José Ma. see Zorua Terol, Procopio; et al., 91k:90253
 Zorua Alonso, Noemi see Zorua Terol, Procopio; et al., 91k:90253
 Zorua Terol, Procopio (with Zorua Alonso, Noemi; Ruiz Gómez, José Ma.) The game of finite-interval intersection (the number hides game). (Spanish. English summary) 91k:90253

Items with secondary classifications in 90D46

- Chen, Ting see Zeng, Dao Zhi; et al., 91h:90127
 Finbow, A. S. (with Hartnell, Bert L.) On designing a network to defend against random attacks of radius two. 91g:90065
 Hartnell, Bert L. see Finbow, A. S., 91g:90065
 Leininger, Wolfgang Patent competition, rent dissipation, and the persistence of monopoly: the role of research budgets. (Not in MR)
 Lozovana, D. D. Maximin linear problems with connected variables and their applications to the study and solution of cyclic games. (Russian) 91h:90066
 Yue, Chao Yuan see Zeng, Dao Zhi; et al., 91h:90127
 Zeng, Dao Zhi (with Chen, Ting; Yue, Chao Yuan) Bilevel decision problems in finite combinatorics. (Chinese. English summary) 91h:90127

90D50 Discrete-time games

- Hellwig, Martin (with Leininger, Wolfgang; Reny, Philip J.; Robson, Arthur J.) Subgame perfect equilibrium in continuous games of perfect information: an elementary approach to existence and approximation by discrete games. (Not in MR)
 Leininger, Wolfgang see Hellwig, Martin; et al., (Not in MR)
 Namatame, Akira (with Tse, Edison) Implicit games: analysis of asymptotic competitive behaviors. 91g:90220
 Reny, Philip J. see Hellwig, Martin; et al., (Not in MR)
 Robson, Arthur J. see Hellwig, Martin; et al., (Not in MR)
 Tse, Edison see Namatame, Akira, 91g:90220

Items with secondary classifications in 90D50

- Holzman, Ron An axiomatic approach to location on networks. 91k:90084

90D55 Games of timing

- Dockner, Engelbert J. (with Takahashi, Harutaka) On the saddle-point stability for a class of dynamic games. 91j:90111
 Nakai, Tôru see Teraoka, Yoshinobu, 91m:90226
 Takahashi, Harutaka see Dockner, Engelbert J., 91j:90111
 Teraoka, Yoshinobu (with Nakai, Tôru) A game of timing which shifts stochastically from a noisy version to a silent version. 91m:90226
 Trybula, S. A silent n versus 1 bullet duel with retreat after the shots. 91g:90221

90D60 Probabilistic games; gambling

- Harkleroad, Leon Lowering the odds for "even up". (Not in MR)
 Huang, Chi-fu (with Li, Lode) Continuous time stopping games with monotone reward structures. 91g:90222
 Li, Lode see Huang, Chi-fu, 91g:90222
 Mizukami, Koichi (with Xu, Hua) Affine incentive strategies for three-level stochastic Stackelberg games with dynamic information. 91g:90223
 Sakaguchi, Minoru Effect of correlation in a simple deception game. 91m:90227a
 — Errata: "Effect of correlation in a simple deception game". 91m:90227b
 Sakai, Setsuko Values of a class of hi-lo poker. 91m:90228
 Simons, Gordon (with Yao, Yi-Ching) Some results on the bomber problem. 91h:90151
 Sobel, Joel (with Stole, Lars; Zapater, Iñigo) Fixed-equilibrium rationalizability in signaling games. 91k:90254
 Stahl, D. O. Entropy control costs and entropic equilibria. 91e:90173
 Stole, Lars see Sobel, Joel; et al., 91k:90254
 Xu, Hua see Mizukami, Koichi, 91g:90223
 Yang, Zhuocheng On optimal strategies for a betting game. 91k:90255
 Yao, Yi-Ching see Simons, Gordon, 91h:90151
 Zalcman, Lawrence The prisoner's other dilemma. (Not in MR)
 Zapater, Iñigo see Sobel, Joel; et al., 91k:90254

Items with secondary classifications in 90D60

- Grädel, Erich Domino games and complexity. 91m:68058
 de Groote, Xavier A note on the strategic transmission of endogenous information. 91g:90052
 Maltra, A. (with Purves, R.; Sudderth, W.) Leavable gambling problems with unbounded utilities. 91g:60054

- Mehlhorn, Kurt (with Näher, Stefan; Rauch, M.) On the complexity of a game related to the dictionary problem. 91f:68093

- Näher, Stefan see Mehlhorn, Kurt; et al., 91f:68093
 Pratt, John W. Some results on repeated risktaking. 91i:90022
 Purves, R. see Maltra, A.; et al., 91g:60054
 Rauch, M. see Mehlhorn, Kurt; et al., 91f:68093
 Samuelson, Paul A. The \sqrt{N} law and repeated risktaking. 91i:90023
 Schil, Manfred On stochastic dynamic programming: a bridge between Markov decision processes and gambling. 91k:90214
 Sudderth, W. see Maltra, A.; et al., 91g:60054

90D65 Hierarchical games

- Cheon, Seong W. (with Fraser, Niall M.) A multi-level game approach to labor-management negotiations. (Not in MR)
 Es'kova, V. A. On the existence of situations of Pareto-optimal equilibrium and strong Pareto-optimal equilibrium in a multicriterial hierarchical tree-like game. (Russian) 91e:90174
 Fraser, Niall M. see Cheon, Seong W., (Not in MR)
 Lorian, Pierre (with Morgan, Jacqueline) A sequential stability result for constrained Stackelberg problems. (French summary) 91h:90152
 Morgan, Jacqueline see Lorian, Pierre, 91h:90152

Items with secondary classifications in 90D65

- Zakharov, V. V. Hierarchical games and their applications in the problem of preserving the environment. (Russian) 91k:92043

90D70 Spaces of games

- Fraser, Niall M. see Wang, Muhong; et al., 91e:90151
 Hipel, Keith W. see Wang, Muhong; et al., 91e:90151
 Wang, Muhong (with Hipel, Keith W.; Fraser, Niall M.) Solution concepts in hypergames. 91e:90151

90D80 Applications of game theory

- Avenhaus, Rudolf Decision procedures for safeguards systems. (Not in MR)
 Mishal, Shaul (with Schmeidler, David; Sened, Itai) Israel and the PLC: a game with differential information. (see 91i:90003)
 Schmeidler, David see Mishal, Shaul; et al., (91i:90003)
 Sened, Itai see Mishal, Shaul; et al., (91i:90003)
 Zagare, F. C. The dynamics of escalation. (Not in MR)

Items with secondary classifications in 90D80

- Basar, Tamer A dynamic games approach to controller design: disturbance rejection in discrete time. 91e:93054
 Boritnik, B. (with Pumpernik, D.; Hofacker, I. L.; Hofacker, G. L.) An ESS-analysis for ensembles of prisoner's dilemma strategies. 91h:90237
 Burkov, V. N. (with Enaleev, A. K.; Kalenchuk, V. F.) Coalitions in a competitive mechanism of resource allocation. 91e:90017
 Chakravarti, Bhaskar Communication requirements and strategic mechanisms for market organization. 91d:90027
 Chekmenev, V. A. (with Chekmeneva, T. D.) Game rules for assigning priorities in cost models of queueing. (Russian) (see 91e:90137)
 Chekmeneva, T. D. Game rules for assigning priorities in multiline queueing systems. (Russian) (see 91e:90137)
 — see also Chekmenev, V. A., (91e:90137)
 Chernyakov, A. G. see Vershik, A. M., (91h:00023)
 Crawford, Vincent P. On the definition of an evolutionarily stable strategy in the "playing the field" model. 91k:92044
 Cressman, R. Strong stability and density-dependent evolutionarily stable strategies. 91j:92010
 Enaleev, A. K. see Burkov, V. N.; et al., 91e:90017
 Fernandez, Raquel (with Rosenthal, Robert W.) Strategic models of sovereign-debt renegotiations. 91d:90033
 Fershtman, Chaim Fixed rules and decision rules. Time consistency and subgame perfection. 91a:90009
 Fisher, Franklin M. Games economists play: a noncooperative view. 91a:90022
 Garnaev, A. Ya. A game-theoretic search problem in a rectangular domain. (Russian) 91f:90065
 Hofacker, G. L. see Boritnik, B.; et al., 91h:90237
 Hofacker, I. L. see Boritnik, B.; et al., 91h:90237
 de Jongh, P. J. (with de Wet, T.) Quantification of a malfunction in a weapon system. 91a:90081
 Kalenchuk, V. F. see Burkov, V. N.; et al., 91e:90017
 Mangel, Marc A dynamic habitat selection game. 91e:92084
 Nowak, Martin An evolutionarily stable strategy may be inaccessible. 91e:92016
 Okuno-Fujiwara, Masahiro (with Postlewaite, Andrew; Suzumura, Kotaro) Strategic information revelation. 91e:90140
 Page, F. H., Jr. Incentive compatible strategies for general Stackelberg games with incomplete information. 91h:90225
 Peck, James (with Shell, Karl) On the nonequivalence of the Arrow-securities game and the contingent-commodities game. 91h:90027
 Postlewaite, Andrew see Okuno-Fujiwara, Masahiro; et al., 91e:90140
 Pumpernik, D. see Boritnik, B.; et al., 91h:90237
 Rhee, Ihnsook (with Speyer, Jason L.) A game theoretic controller and its relationship to H_∞ and linear-exponential-Gaussian synthesis. 91c:93068
 Rosenthal, Robert W. see Fernandez, Raquel, 91d:90033
 Roth, Alvin E. (with Sotomayor, Marilda) The college admissions problem revisited. 91a:90196a

— (with Sotomayor, Marilda) Erratum: "The college admissions problem revisited". 91a:90196b

Shell, Karl *see* Peck, James, 91b:90027

Sotomayor, Marilda *see* Roth, Alvin E., 91a:90196a and 91a:90196b

Speyer, Jason L. *see* Rhee, Inseok, 91c:93068

Spulber, Daniel F. The second best core. 91d:90032

Suzumura, Kotaro *see* Okuno-Fujiwara, Masahiro; et al., 91c:90140

Triess, Lester G. ★ Theories of competition. 91i:90025

Ulph, Alistair (with Ulph, David) Gains and losses from cartelisation in markets for exhaustible resources in the absence of binding future contracts. 91c:90034

Ulph, David *see* Ulph, Alistair, 91c:90034

Vershik, A. M. (with Chernyakov, A. G.) Fields of convex polyhedra and the Pareto-Smale optimum [MR 84m:58011]. (see 91h:00023)

Vincent, Daniel R. Dynamic auctions. 91c:90036

Vives, Xavier Nash equilibrium with strategic complementarities. 91c:90129

de Wet, T. *see* de Jongh, P. J., 91a:90081

Zhao, Jing Zhu Game theory and ecology. 91c:92092

90D99 None of the above, but in this section

Takahashi, Iwaro AHP applied to binary and ternary comparisons. (Not in MR)

92-XX Biology and other natural sciences, behavioral sciences

92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 92-00

(Shapiro, Stuart C.) *see* Encyclopedia: Artificial intelligence, 91b:68094

Items listed otherwise than by author

Encyclopedia:

Artificial intelligence ★ Encyclopedia of artificial intelligence. Vol. 1, 2. 91b:68094

92-01 Instructional exposition (textbooks, tutorial papers, etc.)

Petrosyan, L. A. (with Zakharov, V. V.) ★ Введение в математическую экологию.

(Russian) [Introduction to mathematical ecology] 91k:92001

Resnikoff, Howard L. ★ The illusion of reality. 91m:92001

Roberts, Fred S. Applications of combinatorics and graph theory to the biological and social sciences: seven fundamental ideas. 91c:92001

Zakharov, V. V. *see* Petrosyan, L. A., 91k:92001

Items with secondary classifications in 92-01

Bán, István ★ Biomathematics and its applications in plant cultivation. (Not in MR)

van den Bosch, F. (with Metz, J. A. J.; Diekmann, Odo) The velocity of spatial population expansion. 91f:92015

Diekmann, Odo *see* van den Bosch, F.; et al., 91f:92015

(Habermann, G. M.) *see* Bán, István, (Not in MR)

Hofbauer, Josef (with Sigmund, Karl) ★ The theory of evolution and dynamical systems. 91h:92019

Kapur, Jagat N. The role of mathematics in quantifying concepts. 91a:00009

Mallios, William S. ★ Statistical modeling. 91d:90001

Másson, Egill (with Wang, Yih-Jeu) Introduction to computation and learning in artificial neural networks. 91m:92008

Metz, J. A. J. *see* van den Bosch, F.; et al., 91f:92015

Radbruch, Knut ★ Mathematik in den Geisteswissenschaften. (German) [Mathematics in the humanities] 91a:00014

Sigmund, Karl *see* Hofbauer, Josef, 91h:92019

(Veró, J.) *see* Bán, István, (Not in MR)

(Wallner, Á.) *see* Bán, István, (Not in MR)

Wang, Yih-Jeu *see* Másson, Egill, 91m:92008

Yodanis, Peter ★ Introduction to theoretical ecology. 91k:92042

92-02 Research exposition (monographs, survey articles)

Guckenheimer, John Obstacles to modelling large dynamical systems. 91a:92001

Pettukhov, S. V. Non-Euclidean geometries and algorithms of living bodies. 91c:92002

Winfree, Arthur T. ★ The geometry of biological time. 91k:92002

Items with secondary classifications in 92-02

Briand, Frédéric *see* Cohen, Joel E.; et al., 91f:92031

Clark, Colin W. ★ Mathematical bioeconomics. 91c:90037

Cohen, Joel E. (with Briand, Frédéric; Newman, Charles M.) ★ Community food webs. 91f:92031

Gachech, V. P. ★ Странные аттракторы в биосистемах. (Russian) [Strange attractors in biosystems] 91g:92011

Geszti, Tamás ★ Physical models of neural networks. 91g:92004

Jean, Roger V. A synergic approach to plant pattern generation. 91g:92001

Knöle, Helmut ★ Cell kinetic modelling and the chemotherapy of cancer. 91d:92001

(Logofet, D. O.) *see* Svirezhev, Yu. M., 91c:92038

Maller, Ross A. *see* Pakes, Anthony G., 91i:92012

(Munro, Gordon R.) *see* Clark, Colin W., 91c:90037

Newman, Charles M. *see* Cohen, Joel E.; et al., 91f:92031

Pakes, Anthony G. (with Maller, Ross A.) ★ Mathematical ecology of plant species competition. 91i:92012

(Paika, Zbigniew J.) *see* Cohen, Joel E.; et al., 91f:92031

Passekov, V. P. *see* Svirezhev, Yu. M., 91c:92038

Pell, Jürgen Numerische Mathematik in der Anwendung bei der Lösung biomathematischer Problemstellungen. (English summary) [Numerical mathematics in the application to the solution of biomathematical problems] 91h:92002

Röthinger, Birgit (with Tăutu, Petre) On the genealogy of large cell populations. (see 91j:92001)

Serra, Roberto (with Zanarini, Gianni) ★ Complex systems and cognitive processes.

91j:92017

Svirezhev, Yu. M. (with Passekov, V. P.) ★ Fundamentals of mathematical evolutionary genetics. 91c:92038

Tăutu, Petre *see* Röthinger, Birgit, (91j:92001)

(Volmer, A. A.) *see* Svirezhev, Yu. M., 91c:92038

(Voit, Eberhard O.) *see* Canonical nonlinear modeling, 91k:92007

Williams, Byron K. Review of dynamic optimization methods in renewable natural resource management. 91h:90063

Zanarini, Gianni *see* Serra, Roberto, 91j:92017

Items listed otherwise than by author

Canonical nonlinear modeling ★ Canonical nonlinear modeling. 91k:92007

Lecture Notes in Biomathematics *see* Knöle, Helmut, 91d:92001

92-03 Historical (must also be assigned at least one classification number from Section 01)

Piegorsch, Walter W. Fisher's contributions to genetics and heredity, with special emphasis on the Gregor Mendel controversy. (French summary) 91k:92003

Items with secondary classifications in 92-03

Arbib, Michael A. From universal Turing machines to self-reproduction. (see 91b:03004)

(Kepler, Johannes) *see* Malet, Antoni, 91i:01025

Malet, Antoni Keplerian illusions: geometrical pictures vs optical images in Kepler's visual theory. 91i:01025

92-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 92-04

Renals, Steve Chaos in neural networks. 91g:92005

92-06 Proceedings, conferences, collections, etc.

(Eisenfeld, J.) *see* Biomedical systems modelling and simulation, 91b:92001

(Garlauskas, Algis) *see* Mathematical models in biology and medicine, 91c:92001

(Klein, Douglas J.) *see* Methods of mathematical chemistry, 91h:92001

(Lessard, Sabin) *see* Mathematical and statistical developments of evolutionary theory, 91k:92006

(Levine, D. S.) *see* Biomedical systems modelling and simulation, 91b:92001

(Mühlenbein, Heinz) *see* Evolution and optimization '89, 91k:92005

(Peliti, L.) *see* Disordered systems and biological models, 91k:92004

(Randić, Milan) *see* Methods of mathematical chemistry, 91h:92001

(Schwefel, Hans-Paul) *see* Evolution and optimization '89, 91k:92005

(Svitra, Donatas) *see* Mathematical models in biology and medicine, 91c:92001

(Tăutu, Petre) *see* Stochastic modelling in biology, 91j:92001

(Voigt, Hans-Michael) *see* Evolution and optimization '89, 91k:92005

Items listed otherwise than by author

Biomedical systems modelling and simulation ★ Biomedical systems modelling and simulation. 91b:92001

Bogotá ★ Disordered systems and biological models. 91k:92004

Conference:

Mathematical Chemistry ★ Methods of mathematical chemistry. 91h:92001

Congress:

Scientific Computation ★ Biomedical systems modelling and simulation. 91b:92001

Disordered systems and biological models ★ Disordered systems and biological models. 91k:92004

Eisenfeld ★ Evolution and optimization '89. 91k:92005

Evolution and optimization '89 ★ Evolution and optimization '89. 91k:92005

Galveston, TX ★ Methods of mathematical chemistry. 91h:92001

Heidelberg ★ Stochastic modelling in biology. 91j:92001

Mathematical and statistical developments of evolutionary theory ★ Mathematical and statistical developments of evolutionary theory. 91k:92006

Mathematical models in biology and medicine ★ Математические модели в биологии и медицине. Вып. 3. (Russian) [Mathematical models in biology and medicine. No. 3] 91c:92001

Methods of mathematical chemistry ★ Methods of mathematical chemistry. 91h:92001

Montreal, PQ ★ Mathematical and statistical developments of evolutionary theory.

91k:92006

NATO Advanced Study Institute:

Mathematical and Statistical Developments of Evolutionary Theory ★ Mathematical and statistical developments of evolutionary theory. 91k:92006

Paris ★ Biomedical systems modelling and simulation. 91b:92001

Stochastic modelling in biology ★ Stochastic modelling in biology. 91j:92001

Workshop:

- Evolution Theory and Combinatorial Optimization ★ Evolution and optimization '89. 91k:92005
 Stochastic Modelling in Biology: Relevant Mathematical Concepts and Recent Applications ★ Stochastic modelling in biology. 91j:92001
 Theory of Disordered Systems in Biological Models ★ Disordered systems and biological models. 91k:92004

Items with secondary classifications in 92-06

- (Butler, Geoffrey J.) *see* Conference: Differential Equations and Mathematical Biology. 91k:00035
 (Castillo-Chavez, Carlos) *see* Mathematical and statistical approaches to AIDS epidemiology. 91k:92022
 (Erbe, Lynn H.) *see* Conference: Differential Equations and Mathematical Biology. 91k:00035
 (Freedman, H. I.) *see* Conference: Differential Equations and Mathematical Biology. 91k:00035
 (Goryachenko, V. D.) *see* Modeling population dynamics. 91i:92008
 (Hoffmann, Karl-Heinz) *see* Free boundary problems: theory and applications. 91g:00044
 (Lee, Yee Chun) *see* Evolution, learning and cognition. 91k:92004
 (Sprekels, Jürgen) *see* Free boundary problems: theory and applications. 91g:00044
 (Waterman, Michael S.) *see* Mathematical methods for DNA sequences. 91i:92005

Items listed otherwise than by author

Colloquium:

- Free Boundary Problems: Theory and Applications ★ Free boundary problems: theory and applications. Vol. II. 91g:00044

Conference:

- Differential Equations and Mathematical Biology ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology. 91k:00035
 Edmonton, AB ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology. 91k:00035
 Evolution, learning and cognition ★ Evolution, learning and cognition. 91k:92004
 Free boundary problems: theory and applications ★ Free boundary problems: theory and applications. Vol. II. 91g:00044
 Irsee ★ Free boundary problems: theory and applications. Vol. II. 91g:00044
 Lecture Notes in Biomathematics ★ Mathematical and statistical approaches to AIDS epidemiology. 91k:92022
 Mathematical and statistical approaches to AIDS epidemiology ★ Mathematical and statistical approaches to AIDS epidemiology. 91k:92022
 Mathematical methods for DNA sequences ★ Mathematical methods for DNA sequences. 91i:92005
 Modeling population dynamics ★ Моделирование динамики популяций. (Russian) [Modeling population dynamics] 91i:92008

92-08 Computational methods

Items with secondary classifications in 92-08

- Harrison, Gary W. Numerical solution of a population model with harvesting in a random environment. 91a:92007

92A05 General biology [see also 73-XX, 76-XX, in particular 73Pxx, 76Zxx] (1985)

- Brandts, W. A. M. (with Trainor, L. E. H.) A nonlinear field model of pattern formation: intercalation in morphallactic regulation. (Not in MR)
 Hannon, Bruce Biological time value. (Not in MR)
 Holland, John H. The dynamics of searches directed by genetic algorithms. (see 91h:92004)
 Rosen, Robert Effective processes and natural law. (see 91b:03004)
 Trainor, L. E. H. *see* Brandts, W. A. M. (Not in MR)
 Zhurav, K. O. Integral equations for one-dimensional problems of cryo-destruction. (Russian) (see 91e:35003)

Items with secondary classifications in 92A05

- Blaisdell, B. Edwin *see* Karlin, Samuel; et al. (91i:92005)
 Conrad, Michael The price of programmability. (see 91b:03004)
 Giddings, Barton W. *see* Tavaré, Simon. (91i:92005)
 Karlin, Samuel (with Ost, Friedemann; Blaisdell, B. Edwin) Patterns in DNA and amino acid sequences and their statistical significance. (see 91i:92005)
 Lacalli, Thurston C. Modeling the *Drosophila* pair-rule pattern by reaction-diffusion: gap input and pattern control in a 4-morphogen system. (Not in MR)
 Li, Jian Hua² *see* Wen, Gong Bi. (Not in MR)
 (von Neumann, John) *see* Schnelle, Helmut. (91b:03004)
 Neveln, Bob Comma-free and synchronizable codes. (Not in MR)
 Ost, Friedemann *see* Karlin, Samuel; et al. (91i:92005)
 Schnelle, Helmut Turing naturalized: von Neumann's unfinished project. (see 91b:03004)
 Tavaré, Simon (with Giddings, Barton W.) Some statistical aspects of the primary structure of nucleotide sequences. (see 91i:92005)
 Waterman, Michael S. Consensus patterns in sequences. (see 91i:92005)
 — Consensus methods for folding single-stranded nucleic acids. (see 91i:92005)
 Wen, Gong Bi (with Li, Jian Hua²) Investigation of effects of convection and leaky junctions on macromolecular transport—an improved mathematical model. (Chinese. English summary) (Not in MR)
 Zuker, M. The use of dynamic programming algorithms in RNA secondary structure prediction. (see 91i:92005)

92A06 Biomechanics (general) (1985)

- Schlöner, G. A dynamic theory of coordination of discrete movement. (Not in MR)

Items with secondary classifications in 92A06

- Cassot, F. (with Morvan, D.; Tonietto, G.) Unsteady flow through prosthetic heart valves: an integral approach coupled with a vortex method. (see 91b:00042)
 Morvan, D. *see* Cassot, F.; et al. (91b:00042)
 Tonietto, G. *see* Cassot, F.; et al. (91b:00042)

92A07 Medical applications of biology (1985)

- Alekseenko, V. I. (with Zhidnev, E. B.) ★ Об артефактах при алгебраическом подходе в томографии. (Russian) [Artifacts in an algebraic approach in tomography] (Not in MR)
 Gyllenberg, Mats Screening for breast cancer—a structured population approach. (see 91h:92001)
 Jalife, Jose (with Michaels, Donald C.) The initiation of the heart beat as a dynamic consensus of electrically coupled pacemaker cells. (see 91g:92007)
 Jones, Michael C. *see* Silverman, Bernard W.; et al. (Not in MR)
 Keener, James P. (with Phelps, F. M., IV) Consequences of the cellular, anisotropic structure of myocardium. (see 91g:92007)
 Merrill, Stephen J. Modeling the interaction of HIV with cells of the immune system. (see 91k:92022)
 Michaels, Donald C. *see* Jalife, Jose. (91g:92007)
 Miles, Richard *see* Traub, Roger D.; et al. (91g:92007)
 Nahir, A. M. *see* Pollatschek, M. A. (Not in MR)
 Nychka, Douglas *see* Silverman, Bernard W.; et al. (Not in MR)
 Phelps, F. M., IV *see* Keener, James P. (91g:92007)
 Pines, A. NMR in physics, chemistry, and biology: illustrations of Bloch's legacy. (Not in MR)
 Plonsey, Robert The use of a bidomain model for the study of excitable media. (see 91g:92007)
 Pollatschek, M. A. (with Nahir, A. M.) A mathematical model of osteoarthritis. (Not in MR)
 Romanyukha, A. A. *see* Sidorov, I. A. (Not in MR)
 Rossi, Carla A stochastic dose/response model: a genetic approach to cell survival. (see 91h:92001)
 Sidorov, I. A. (with Romanyukha, A. A.) ★ Математическая модель процесса пролиферации Т-лимфоцитов. Анализ данных. (Russian) [Mathematical modeling of the process of T-lymphocyte proliferation. Data analysis] (Not in MR)
 Silverman, Bernard W. (with Jones, Michael C.; Nychka, Douglas; Wilson, J. D.) A smoothed EM approach to indirect estimation problems, with particular reference to stereology and emission tomography. (Not in MR)
 Singh, Karan P. *see* Tan, W. Y. (Not in MR)
 Spitzer, Manfred Symptom and criterion in medicine and psychiatry. (see 91e:00025)
 Świerniak, Andrzej P. Optimal treatment protocols in leukemia—modelling of the proliferation cycle. (see 91h:92001)
 Tan, W. Y. (with Singh, Karan P.) A mixed model of carcinogenesis with applications to retinoblastoma. (Not in MR)
 Traub, Roger D. (with Miles, Richard; Wong, Robert K. S.) Collective behaviors of the hippocampal CA3 region. (see 91g:92007)
 Treck, Bruce Application of a mathematical carcinogenesis model to chemoprevention. (see 91h:92001)
 Urba, K. Mutual redundancy of features in a diagnostic problem. (Russian. English and Lithuanian summaries) (see 91e:92001)
 Wilson, J. D. *see* Silverman, Bernard W.; et al. (Not in MR)
 Wong, Robert K. S. *see* Traub, Roger D.; et al. (91g:92007)
 Zhidnev, E. B. *see* Alekseenko, V. I. (Not in MR)

Items with secondary classifications in 92A07

- Alexander, James C. (with Doedel, Eusebius J.; Othmer, Hans G.) Resonance and phase-locking in excitable systems. (see 91g:92007)
 Chang, Myron N. *see* Yang, Grace L. (Not in MR)
 Choudhury, D. Roy *see* Das, M. N. (Not in MR)
 Das, M. N. (with Choudhury, D. Roy) On problems of search using group tests. (Not in MR)
 Doedel, Eusebius J. *see* Alexander, James C.; et al. (91g:92007)
 Ellenberg, Jonas H. Biostatistical collaboration in medical research. (Not in MR)
 Fisher, Lloyd *see* O'Quigley, John; et al. (Not in MR)
 Herman, Gabor T. (with Tuy, Heang K.) Image reconstruction from projections: an approach from mathematical analysis. (see 91e:00003)
 Langenberg, Karl-J. Applied inverse problems for acoustic, electromagnetic and elastic wave scattering. (see 91e:00003)
 Monk, P. B. (with Othmer, Hans G.) Relay, oscillations and wave propagation in a model of *Dictyostelium discoideum*. (see 91g:92007)
 O'Quigley, John (with Pepe, Margaret; Fisher, Lloyd) Continual reassessment method: a practical design for phase I clinical trials in cancer. (French summary) (Not in MR)
 Othmer, Hans G. *see* Alexander, James C.; et al. (91g:92007) and Monk, P. B. (91g:92007)
 Pepe, Margaret *see* O'Quigley, John; et al. (Not in MR)
 Perelson, Alan S. Modeling the interaction of the immune system with HIV. (see 91k:92022)
 Tuy, Heang K. *see* Herman, Gabor T. (91e:00003)
 Yanagisawa, Yukio Designs for discrimination between bivariate binary response models. (French summary) (Not in MR)
 Yang, Grace L. (with Chang, Myron N.) A stochastic model for analyzing prevalence surveys of hepatitis A antibody. (Not in MR)

92A08 Biophysics (general) (1985)

- Dreyfus, Stuart E. Artificial neural networks, back propagation, and the Kelley-Bryson gradient procedure. (Not in MR)
 Kaplan, Yu. M. *see* Selezov, I. T. (Not in MR)
 Selezov, I. T. (with Kaplan, Yu. M.) Propagation of pulse pressure in a blood vessel with stenosis. (Russian) (Not in MR)

Zwanzig, Robert Diffusion-controlled ligand binding to spheres partially covered by receptors: an effective medium treatment. (Not in MR)

Items with secondary classifications in 92A08

Benham, Craig J. Mechanics and equilibria of superhelical DNA. (see 91i:92005)

Chiche, Laurent (with Gregoire, Lydia M.; Cohen, Fred E.; Kollman, Peter A.) Protein

model structure evaluation using the solvation free energy of folding. (Not in MR)

Cohen, Fred E. see Chiche, Laurent; et al. (Not in MR)

García Cánovas, F. see Varón, R.; et al. (Not in MR)

García-Moreno, Manuela see Varón, R.; et al. (Not in MR)

Gregoire, Lydia M. see Chiche, Laurent; et al. (Not in MR)

Havsteen, B. H. see Varón, R.; et al. (Not in MR)

Kleinpenning, P. H. (with van Oosterom, A.) On the relation between axial resistance and

conductivity in linear cable models. (Not in MR)

Kollman, Peter A. see Chiche, Laurent; et al. (Not in MR)

Mohamed, A. S. A. (with Prasad, Tribhuan) Analysis of the neuromuscular system using

random parameter models. (Not in MR)

van Oosterom, A. see Kleinpenning, P. H.; et al. (Not in MR)

Prasad, Tribhuan see Mohamed, A. S. A.; et al. (Not in MR)

Valero, E. see Varón, R.; et al. (Not in MR)

Varón, R. (with Havsteen, B. H.; Vázquez Molini, Ana María; García-Moreno, Manuela; Valero, E.; García Cánovas, F.) Kinetics of the trypsinogen activation by enterokinase and trypsin. (Not in MR)

Vázquez Molini, Ana María see Varón, R.; et al. (Not in MR)

92A09 Physiology, biochemistry [see also 76-XX, in particular 76Zxx, and 78A70, 80A30, 80A32, 92A27, 92A40] (1985)

Adamopoulos, Adam see Anninos, Photios. (91b:92001)

Alexander, James C. (with Dodel, Eusebius J.; Othmer, Hans G.) Resonance and phase-locking in excitable systems. (see 91g:92007)

Amit, Daniel J. (with Parisi, Giorgio; Nicolis, S.) Neural potentials as stimuli for attractor neural networks. (Not in MR)

Anninos, Photios (with Adamopoulos, Adam) Noisy neural networks with multiple memory domains. (see 91b:92001)

Apolloni, Bruno (with Bertoni, Alberto; Campadelli, Paola; de Falco, Diego) Neural

networks: deterministic and stochastic dynamics. (see 91e:92022)

Awerbuch, Tamara E. see Feldman, Henry A. (91b:92001)

Awrejcewicz, J. Numerical investigations of the constant and periodic motions of the human vocal cords including stability and bifurcation phenomena. (Not in MR)

Bağar, Erol Chaotic dynamics and resonance phenomena in brain function: progress, perspectives, and thoughts. (see 91e:92027)

Belintsev, B. N. The mechano-chemical activity of cells and self-organization of embryonic patterns. (see 91e:92017)

Benham, Craig J. Mechanics and equilibria of superhelical DNA. (see 91i:92005)

Bertoni, Alberto see Apolloni, Bruno; et al. (91e:92022)

Biktashev, V. N. Drift of a reverberator in an active medium due to the interaction with boundaries. (see 91e:92017)

Bullock, T. H. An agenda for research on chaotic dynamics. (see 91e:92027)

Calanini, Eduardo R. Neuronic equations and their solutions. (see 91h:92004)

Campadelli, Paola see Apolloni, Bruno; et al. (91e:92022)

Chapman, Michael J. see Godfrey, Keith R.; et al. (91b:92001)

Christiansen, Peter L. see Muto, V.; et al. (91b:92001) and (91g:92046)

Clark, John W. Probabilistic neural networks. (see 91h:92004)

Courtemanche, M. see Zeng, Wan Zhen; et al. (Not in MR)

Dodel, Eusebius J. see Alexander, James C.; et al. (91g:92007)

Epstein, I. R. (with Marder, E.) Multiple modes of a conditional neural oscillator. (Not in MR)

de Falco, Diego see Apolloni, Bruno; et al. (91e:92022)

Farber, Robert see Lapedes, Alan. (91h:92004)

Fedorov, S. P. (with Steinberg, A. V.) Fluctuations of vascular tone as a mechanism for the self-regulation of the oxygenation of muscle tissue. (Russian) (Not in MR)

Feldman, Henry A. (with Awerbuch, Tamara E.) Radial diffusion assays: a mathematical basis for statistical analysis and exposure modeling. (see 91h:92001)

Fisher, E. S. (with Lauffenburger, D. A.) Analysis of the effects of immune cell motility and chemotaxis on target elimination dynamics. (Not in MR)

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García-Moreno, Manuela see Varón, R.; et al. (Not in MR) and (Not in MR)

Garlauskas, Algis Mathematical modeling of neural networks. (Russian. English and Lithuanian summaries) (see 91e:92001)

Glass, Leon see Zeng, Wan Zhen; et al. (Not in MR)

Godfrey, Keith R. (with Chapman, Michael J.) A systematic approach to indistinguishability analysis of compartmental models. (see 91b:92001)

Gorse, D. (with Taylor, John G.) A general model of stochastic neural processing. (Not in MR)

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Halding, J. see Muto, V.; et al. (91b:92001) and (91g:92046)

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Hoffmann, Geoffrey W. (with Grant, Michael D.) When HIV meets the immune system: network theory, alloimmunity, autoimmunity, and AIDS. (see 91k:92022)

Jancys, E. A study of a dynamic system for regularizing thyroid hormones in the blood by means of mathematical models and indices of the degree of thyrotoxicosis. (Russian. English and Lithuanian summaries) (see 91e:92001)

Kanno, Ryuzo see Masuyama, Motosaburo. (Not in MR)

Kleinpenning, P. H. (with van Oosterom, A.) On the relation between axial resistance and conductivity in linear cable models. (Not in MR)

Koenderink, Jan J. see Werkhoven, P.; et al. (Not in MR)

Kohring, G. A. Convergence time and finite size effects in neural networks. (Not in MR)

Lapedes, Alan (with Farber, Robert) How neural networks work. (see 91h:92004)

Lauffenburger, D. A. see Fisher, E. S.; et al. (Not in MR)

Lee, Yee Chun Efficient stochastic gradient learning algorithm for neural network. (see 91h:92004)

Li, Jian Hua² see Wen, Gong Bi. (Not in MR)

Marder, E. see Epstein, I. R.; et al. (Not in MR)

Masuyama, Motosaburo (with Kanno, Ryuzo) Individual variability of dentition. (Not in MR)

— Quasi-fixed point with respect to linearized dentition plot. (Not in MR)

Mohamed, A. S. A. (with Prasad, Tribhuan) Analysis of the neuromuscular system using random parameter models. (Not in MR)

Monk, P. B. (with Othmer, Hans G.) Relay, oscillations and wave propagation in a model of *Dictyostelium discoideum*. (see 91g:92007)

Mpitso, G. J. Chaos in brain function and the problem of nonstationarity: a commentary. (see 91e:92027)

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Nicolis, S. see Amit, Daniel J.; et al. (Not in MR)

van Oosterom, A. see Kleinpenning, P. H.; et al. (Not in MR)

Orpwood, Roger D. Mechanisms of association learning in the post-synaptic neurone. (Not in MR)

Othmer, Hans G. see Alexander, James C.; et al. (91g:92007) and Monk, P. B. (91g:92007)

Parisi, Giorgio see Amit, Daniel J.; et al. (Not in MR)

Piet-Lahanier, Hélène see Walter, Eric. (91b:92001)

Prasad, Tribhuan see Mohamed, A. S. A.; et al. (Not in MR)

Psaltis, Demetri (with Venkatesh, Santosh S.) Information storage in fully connected networks. (see 91h:92004)

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Scott, Alwyn C. see Muto, V.; et al. (91b:92001) and (91g:92046)

Sohn, L. see Zeng, Wan Zhen; et al. (Not in MR)

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Štímlí, Petar D. Statistical mechanics as the underlying theory of "elastic" and "neural" optimisations. (Not in MR)

Starzak, Michael E. The kinetics of interacting gates in potassium channels. A comparison of linear and nonlinear models. (Not in MR)

Tan, Shao Hua see Vandenberghe, Lieven; et al. (91e:68011)

Taylor, John G. see Gorse, D.; et al. (Not in MR)

Treves, Alessandro Threshold-linear formal neurons in auto-associative nets. (Not in MR)

Valero, E. see Varón, R.; et al. (Not in MR) and (Not in MR)

Vandenberghe, Lieven (with Tan, Shao Hua; Vandewalle, Joos) Cellular neural networks: dynamic properties and adaptive learning algorithm. (see 91e:68011)

Vandewalle, Joos see Vandenberghe, Lieven; et al. (91e:68011)

Varón, R. (with Havsteen, B. H.; García-Moreno, Manuela; Valero, E.; García Cánovas, F.) Derivation of the transient phase equations of enzyme mechanisms from those of other systems. (Not in MR)

— (with Havsteen, B. H.; Vázquez Molini, Ana María; García-Moreno, Manuela; Valero, E.; García Cánovas, F.) Kinetics of the trypsinogen activation by enterokinase and trypsin. (Not in MR)

Vázquez Molini, Ana María see Varón, R.; et al. (Not in MR)

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Walter, Eric (with Piet-Lahanier, Hélène) Bounded-error alternative to least squares for estimating the parameters of a nonlinear model from short records. (see 91b:92001)

Wen, Gong Bi (with Li, Jian Hua)² Investigation of effects of convection and leaky junctions on macromolecular transport—an improved mathematical model. (Chinese. English summary) (Not in MR)

Werkhoven, P. (with Koenderink, Jan J.) Extraction of motion parallax structure in the visual system. I, II. (Not in MR)

White, James H. An introduction to the geometry and topology of DNA structure. (see 91i:92005)

Zeng, Wan Zhen (with Courtemanche, M.; Sohn, L.; Shrier, A.; Glass, Leon) Theoretical computation of phase locking in embryonic atrial heart cell aggregates. (Not in MR)

Zidanšek, Aleksander Neural networks. (Slovenian. English summary) (Not in MR)

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Barkas, Ozdal (with Smith, W. Richard; Persky, George) Design of coupling resistor networks for neural network hardware. (Not in MR)

Blaisdell, B. Edwin see Karlin, Samuel; et al. (91i:92005)

Bouten, M. (with Komoda, A.; Serneels, R.) Storage capacity of a diluted neural network with Ising couplings. (Not in MR)

Burks, Christian see Fickett, James W.; et al. (91i:92005)

Cassot, F. (with Morvan, D.; Tonietto, G.) Unsteady flow through prosthetic heart valves: an integral approach coupled with a vortex method. (see 91b:92042)

Chiche, Laurent (with Gregoire, Lydia M.; Cohen, Fred E.; Kollman, Peter A.) Protein model structure evaluation using the solvation free energy of folding. (Not in MR)

Cohen, Fred E. see Chiche, Laurent; et al. (Not in MR)

Devlaren, A. Existence and uniqueness of the solution of the Cauchy-FitzHugh problem for the Hodgkins-Huxley systems. (Russian) (see 91h:92031)

Demongot, Jacques see Hervé, Thierry; et al. (91e:68011)

Englich, Harald (with Herrmann, Michael) Limit behaviour in the Hopfield model. (see 91h:92039)

Faddy, M. J. Compartmental models with phase-type residence-time distributions. (Not in MR)

Fickett, James W. (with Burks, Christian) Development of a database for nucleotide sequences. (see 91i:92005)

François, Olivier see Hervé, Thierry; et al. (91e:68011)

Giddings, Barton W. see Tavaré, Simon. (91i:92005)

Gregoire, Lydia M. see Chiche, Laurent; et al. (Not in MR)

- Herrmann, Michael *see* Englisch, Harald, (91b:00039)
- Hervé, Thierry (with François, Olivier; Demongeot, Jacques) Markovian spatial properties of a random field describing a stochastic neural network: sequential or parallel implementation? (see 91e:68011)
- Jalife, Jose (with Michaels, Donald C.) The initiation of the heart beat as a dynamic consensus of electrically coupled pacemaker cells. (see 91g:92007)
- Kaplun, Yu. M. *see* Selezov, I. T., (Not in MR)
- Karlin, Samuel (with Ost, Friedemann; Blaisdell, B. Edwin) Patterns in DNA and amino acid sequences and their statistical significance. (see 91i:92005)
- Keener, James P. (with Phelps, F. M., IV) Consequences of the cellular, anisotropic structure of myocardium. (see 91g:92007)
- Kollman, Peter A. *see* Chiche, Laurent; et al., (Not in MR)
- Komoda, A. *see* Bouten, M.; et al., (Not in MR)
- Lander, Eric S. Analysis with restriction enzymes. (see 91i:92005)
- Mammiano, F. Modeling auditory system nonlinearities through Volterra series. (Not in MR)
- Michaels, Donald C. *see* Jalife, Jose, (91g:92007)
- Miles, Richard *see* Traub, Roger D.; et al., (91g:92007)
- Morgan, A. Richard (with Severini, Alberto) Interconversion of replication and recombination structures: implications for terminal repeats and concatemers. (Not in MR)
- Morvan, D. *see* Cassot, F.; et al., (91h:00042)
- Ost, Friedemann *see* Karlin, Samuel; et al., (91i:92005)
- Perelson, Alan S. Modeling the interaction of the immune system with HIV. (see 91k:92022)
- Persky, George *see* Barkan, Ozdal; et al., (Not in MR)
- Phelps, F. M., IV *see* Keener, James P., (91g:92007)
- Pionsey, Robert The use of a bidomain model for the study of excitable media. (see 91g:92007)
- Schempp, Walter Holographic image processing, coherent optical computing, and neural computer architecture for pattern recognition. (see 91a:78001)
- Schöner, G. A dynamic theory of coordination of discrete movement. (Not in MR)
- Selezov, I. T. (with Kaplun, Yu. M.) Propagation of pulse pressure in a blood vessel with stenosis. (Russian) (Not in MR)
- Serneels, R. *see* Bouten, M.; et al., (Not in MR)
- Severini, Alberto *see* Morgan, A. Richard, (Not in MR)
- Smith, W. Richard *see* Barkan, Ozdal; et al., (Not in MR)
- Świerniak, Andrzej P. Optimal treatment protocols in leukemia—modelling of the proliferation cycle. (see 91b:92001)
- Tavaré, Simon (with Giddings, Barton W.) Some statistical aspects of the primary structure of nucleotide sequences. (see 91i:92005)
- Tonietto, G. *see* Cassot, F.; et al., (91h:00042)
- Traub, Roger D. (with Miles, Richard; Wong, Robert K. S.) Collective behaviors of the hippocampal CA3 region. (see 91g:92007)
- Waterman, Michael S. Sequence alignments. (see 91i:92005)
- Consensus patterns in sequences. (see 91i:92005)
- Consensus methods for folding single-stranded nucleic acids. (see 91i:92005)
- Wong, Robert K. S. *see* Traub, Roger D.; et al., (91g:92007)
- Zemlyns, P. I. Some problems in the optimal control of forestry production. (Russian. English and Lithuanian summaries) (see 91e:92001)
- Zuker, M. The use of dynamic programming algorithms in RNA secondary structure prediction. (see 91i:92005)

92A10 Genetics (1985)

- Blaisdell, B. Edwin *see* Karlin, Samuel; et al., (91i:92005)
- Burks, Christian *see* Fickett, James W., (91i:92005)
- Fickett, James W. (with Burks, Christian) Development of a database for nucleotide sequences. (see 91i:92005)
- Giddings, Barton W. *see* Tavaré, Simon, (91i:92005)
- Grafen, Alan Sexual selection unhandicapped by the Fisher process. (Not in MR)
- Karlin, Samuel (with Ost, Friedemann; Blaisdell, B. Edwin) Patterns in DNA and amino acid sequences and their statistical significance. (see 91i:92005)
- Lander, Eric S. Analysis with restriction enzymes. (see 91i:92005)
- Ost, Friedemann *see* Karlin, Samuel; et al., (91i:92005)
- Tavaré, Simon (with Giddings, Barton W.) Some statistical aspects of the primary structure of nucleotide sequences. (see 91i:92005)
- Waterman, Michael S. Sequence alignments. (see 91i:92005)
- Consensus patterns in sequences. (see 91i:92005)
- Consensus methods for folding single-stranded nucleic acids. (see 91i:92005)
- Wray, Naomi R. Accounting for mutation effects in the additive genetic variance-covariance matrix and its inverse. (French summary) (Not in MR)
- Zuker, M. The use of dynamic programming algorithms in RNA secondary structure prediction. (see 91i:92005)

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- Bunham, Craig J. Mechanics and equilibria of superhelical DNA. (see 91i:92005)
- Hastings, Alan Second-order approximations for selection coefficients at polygenic loci. (Not in MR)
- Hinkelmann, Klaus *see* Singh, Murari, (Not in MR)
- Singh, Murari (with Hinkelmann, Klaus) On generation of efficient partial diallel crosses plans. (Not in MR)

92A12 Problems relating to evolution (1985)

- Borkin, B. *see* Schöner, G.; et al., (Not in MR)
- Boyd, Robert (with Richerson, Peter J.) Group selection among alternative evolutionarily stable strategies. (Not in MR)
- Hastings, Alan Second-order approximations for selection coefficients at polygenic loci. (Not in MR)
- Hofacker, G. L. *see* Schöner, G.; et al., (Not in MR)

- Lacalli, Thurston C. Modeling the *Drosophila* pair-rule pattern by reaction-diffusion: gap input and pattern control in a 4-morphogen system. (Not in MR)
- Morgan, A. Richard (with Severini, Alberto) Interconversion of replication and recombination structures: implications for terminal repeats and concatemers. (Not in MR)
- Neveln, Bob Comma-free and synchronizable codes. (Not in MR)
- Richerson, Peter J. *see* Boyd, Robert, (Not in MR)
- Schöner, G. (with Hofacker, G. L.; Borkin, B.) Stochastic traits of molecular evolution—acceptance of point mutations in native actin genes. (Not in MR)
- Severini, Alberto *see* Morgan, A. Richard, (Not in MR)
- Items with secondary classifications in 92A12
- Frank, Steven A. When to copy or avoid an opponent's strategy. (Not in MR)

92A15 Population dynamics, epidemiology (1985)

- Armstrong, Robert A. A flexible model of incomplete dominance in neighborhood competition for space. (Not in MR)
- Aron, Joan L. (with Sankara Sarma, P.) Assessment of the risk of HIV spread via nonsteady heterosexual partners in the U.S. population. (see 91k:92022)
- Multiple attractors in the response to a vaccination program. (Not in MR)
- Artzrouni, Marc On transient effects in the HIV/AIDS epidemic. (Not in MR)
- Atroune, D. (with Chéruy, A.) Bioprocesses modelling: some mathematical properties of the specific growth rate formulations. (see 91h:92001)
- Babelli, V. G. The phenomena of self-organization in bacterial cells and populations. (see 91e:00017)
- Blythe, Stephen P. *see* Castillo-Chavez, Carlos, (91k:92022)
- Bohl, Erich (with Kreikenbohm, Rainer; Schropp, Johannes) Chemostat modelling. (see 91h:92001)
- Busenberg, Stavros (with Castillo-Chavez, Carlos) Interaction, pair formation and force of infection terms in sexually transmitted diseases. (see 91k:92022)
- Cardell, N. Scott (with Kanouse, David E.) Modeling heterogeneity in susceptibility and infectivity for HIV infection. (see 91k:92022)
- Castillo-Chavez, Carlos (with Cooke, Kenneth L.; Huang, Wen Zhang; Levin, Simon A.) On the role of long incubation periods in the dynamics of acquired immunodeficiency syndrome (AIDS). II. Multiple group models. (see 91k:92022)
- (with Blythe, Stephen P.) Mixing framework for social/sexual behavior. (see 91k:92022)
- *see also* Schwager, Steven J.; et al., (91k:92022); Thieme, Horst R., (91k:92022) and Busenberg, Stavros, (91k:92022)
- Chakrabarti, C. G. (with Talapatra, R. N.) Logistic growth under random driving forces. (Not in MR)
- Chang, Myron N. *see* Yang, Grace L., (Not in MR)
- Chéruy, A. *see* Atroune, D., (91h:92001)
- Clark, W. Scott *see* Longini, Ira M., Jr.; et al., (91k:92022)
- Collings, John B. (with Wolkind, David J.) Metastability, hysteresis and outbreaks in a temperature-dependent model for a mite predator-prey interaction. (Not in MR)
- Cooke, Kenneth L. *see* Castillo-Chavez, Carlos; et al., (91k:92022)
- Cramton, Peter C. *see* Kaplan, Edward H.; et al., (91k:92022)
- Degan, F. (with Frusi, L.) A general demographic model for populations of prolific cells. (see 91b:92001)
- De Gruttola, Victor (with Lagakos, Stephen) Epidemic models, empirical studies, and uncertainty. (see 91k:92022)
- Dembo, Micah *see* Layne, Scott P.; et al., (91k:92022)
- Devine, Owen J. *see* Karon, John M.; et al., (91k:92022)
- Diekman, Odo (with Heesterbeek, J. A. P.; Metz, J. A. J.) On the definition and the computation of the basic reproduction ratio R_0 in models for infectious diseases in heterogeneous populations. (Not in MR)
- Dmitrieva, I. E. (with Kanimetrov, K. A.; Sarancha, D. A.) The method of moving grids in the problem of modeling the migration of lemmings. (Russian) (see 91a:00020)
- Dumaer, B. A mathematical model of the evolution of biological populations. (Not in MR)
- Frusi, L. *see* Degan, F., (91b:92001)
- Haber, Michael *see* Longini, Ira M., Jr.; et al., (91k:92022)
- Heesterbeek, J. A. P. *see* Diekmann, Odo; et al., (Not in MR)
- Hethcote, Herbert *see* Schwager, Steven J.; et al., (91k:92022)
- Horsburgh, Robert, Jr. *see* Longini, Ira M., Jr.; et al., (91k:92022)
- Huang, Wen Zhang *see* Castillo-Chavez, Carlos; et al., (91k:92022)
- Jacobs, Jürgen *see* Siegmund, Hans Redlef; et al., (Not in MR)
- Jacquez, John A. (with Simon, Carl P.; Koopman, James S.) Structured mixing: heterogeneous mixing by the definition of activity groups. (see 91k:92022)
- *see also* Koopman, James S.; et al., (91k:92022)
- John, A. Meredith Endemic disease in host populations with fully specified demography. (Not in MR)
- Kamenev, V. V. *see* Mikheev, S. E., (91e:00013)
- Kanimetrov, K. A. *see* Dmitrieva, I. E.; et al., (91a:00020)
- Kanouse, David E. *see* Cardell, N. Scott, (91k:92022)
- Kaplan, Edward H. (with Cramton, Peter C.; Paltiel, A. David) Nonrandom mixing models of HIV transmission. (see 91k:92022)
- (with Lee, Yew Sing) How bad can it get? Bounding worst case endemic heterogeneous mixing models of HIV/AIDS. (Not in MR)
- Karon, John M. (with Devine, Owen J.; Morgan, W. Meade) Predicting AIDS incidence by extrapolating from recent trends. (see 91k:92022)
- Koopman, James S. (with Simon, Carl P.; Jacquez, John A.; Park, Tae Sung) Selective contact within structured mixing with an application to HIV transmission risk from oral and anal sex. (see 91k:92022)
- *see also* Jacquez, John A.; et al., (91k:92022)
- Kreikenbohm, Rainer *see* Bohl, Erich; et al., (91h:92001)
- Lagakos, Stephen *see* De Gruttola, Victor, (91k:92022)
- Layne, Scott P. (with Spouge, John L.; Dembo, Micah) Measuring HIV infectivity. (see 91k:92022)
- Lee, Yew Sing *see* Kaplan, Edward H., (Not in MR)

- Levin, Simon A. *see* Castillo-Chavez, Carlos; et al., (91k:92022)
- Loeschke, Volker *see* Siegmund, Hans Redlef; et al., (Not in MR)
- Longini, Ira M., Jr. (with Clark, W. Scott; Haber, Michael; Horsburgh, Robert, Jr.) The stages of HIV infection: waiting times and infection transmission probabilities. (see 91k:92022)
- Loreau, M. Competition between age classes, and the stability of stage-structured populations: a re-examination of Ebenman's model. (Not in MR)
- Ma, Zhi En *see* Wang, Wen Di, (Not in MR)
- Metz, J. A. J. *see* Diekmann, Otto; et al., (Not in MR)
- Mikheev, S. E. (with Kamenov, V. V.) Formation of a space wave in a population of *Zygogramma suturalis*. (Russian) (see 91e:00013)
- Morgan, W. Meade *see* Karon, John M.; et al., (91k:92022)
- Ng, Jennifer (with Orav, E. John) A generalized chain binomial model with application to HIV infection. (Not in MR)
- Orav, E. John *see* Ng, Jennifer, (Not in MR)
- Pattiel, A. David *see* Kaplan, Edward H.; et al., (91k:92022)
- Park, Tae Sung *see* Koopman, James S.; et al., (91k:92022)
- Perelson, Alan S. Modeling the interaction of the immune system with HIV. (see 91k:92022)
- Sankar, P. *see* Aron, Joan L., (91k:92022)
- Sarancha, D. A. *see* Dmitriev, I. E.; et al., (91a:00020)
- Sattenspiel, Lisa The structure and context of social interactions and the spread of HIV. (see 91k:92022)
- Schropp, Johannes *see* Bohl, Erich; et al., (91k:92001)
- Schwager, Steven J. (with Castillo-Chavez, Carlos; Hethcote, Herbert) Statistical and mathematical approaches in HIV/AIDS modeling: a review. (see 91k:92022)
- Siegmund, Hans Redlef (with Loeschke, Volker; Jacobs, Jürgen) Intraspecific competition and components of niche width in age structured populations. (Not in MR)
- Simon, Carl P. *see* Jacquez, John A.; et al., (91k:92022) and Koopman, James S.; et al., (91k:92022)
- Spongs, John L. *see* Layne, Scott P.; et al., (91k:92022)
- Talapatra, R. N. *see* Chakrabarti, C. G., (Not in MR)
- Tennakone, K. (with Wickramanayaka, S.) Biochemical chiral selection in the presence of instabilities, chaos, and noise. (Not in MR)
- Thieme, Horst R. (with Castillo-Chavez, Carlos) On the role of variable infectivity in the dynamics of the human immunodeficiency virus epidemic. (see 91k:92022)
- Wahrendorf, Jürgen Risikoprüfungen in der Epidemiologie. (English and French summaries) [Risk estimates in epidemiology] (Not in MR)
- Waldstätter, Roland Pair formation in sexually-transmitted diseases. (see 91k:92022)
- Wang, Wen Di (with Ma, Zhi En) The relationship between the fluctuations of parameters and the positions of solutions. (Chinese) (Not in MR)
- Wickramanayaka, S. *see* Tennakone, K., (Not in MR)
- Wilkinson, David J. *see* Collings, John B., (Not in MR)
- Yang, Grace L. (with Chang, Myron N.) A stochastic model for analyzing prevalence surveys of hepatitis A antibody. (Not in MR)

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- Bhattacharya, B. N. (with Singh, K. K.; Singh, Uttam; Pandey, C. M.) An extension of a model for first birth interval and some social factors. (Not in MR)
- Bhattacharya, Amit Kumar Sampling bias MSE and confidence intervals for some fertility measures under cluster sampling scheme. (Not in MR)
- Grant, Michael D. *see* Hoffmann, Geoffrey W., (91k:92022)
- Gyllenberg, Mats Screening for breast cancer—a structured population approach. (see 91k:92001)
- Hoffmann, Geoffrey W. (with Grant, Michael D.) When HIV meets the immune system: network theory, alloimmunity, autoimmunity, and AIDS. (see 91k:92022)
- Liu, Wei² *see* Liu, Zi Qiang; et al., (91b:00048)
- Liu, Zi Qiang (with Wang, De Hong; Liu, Wei²) The dissipative structure of quasi-bimolecular model and its computer simulation. (see 91b:00048)
- Pandey, C. M. *see* Bhattacharya, B. N.; et al., (Not in MR)
- Rao, B. Raja Life expectancy for a class of life distributions having the "setting the clock back to zero" property. (Not in MR)
- Singh, K. K. *see* Bhattacharya, B. N.; et al., (Not in MR)
- Singh, Uttam *see* Bhattacharya, B. N.; et al., (Not in MR)
- Wang, De Hong *see* Liu, Zi Qiang; et al., (91b:00048)

92A17 Ecology (1985)

- Berryman, A. A. Identification of outbreak classes. (Not in MR)
- Bradbury, R. H. (with van der Laan, J. D.; Macdonald, B.) Modelling the effects of predation and dispersal on the generation of waves of starfish outbreaks. (Not in MR)
- Gatto, Marino A general minimum principle for competing populations: some ecological and evolutionary consequences. (Not in MR)
- Grold, Dorothea (with Schmidt, Kerstin) Stochastische Prozesse zur Vorhersage der Durchmesserverteilung von Waldbeständen. [Stochastic processes for the prediction of diameter distribution of forest stands] (Not in MR)
- Green, D. G. Landscapes, cataplexis and population explosions. (Not in MR)
- Grikienis, Rimantas Modeling an ecosystem of insects taking into account superparasitism. (Russian, English and Lithuanian summaries) (see 91e:92001)
- Herendeen, Robert System-level indicators in dynamic ecosystems: comparison based on energy and nutrient flows. (Not in MR)
- van der Laan, J. D. *see* Bradbury, R. H.; et al., (Not in MR)
- Macdonald, B. *see* Bradbury, R. H.; et al., (Not in MR)
- Patterson, Richard L. A Markov-renewal extension of a deterministic state-variable model of the transport and fate of a toxic chemical in the environment. (Not in MR)
- Schmidt, Kerstin *see* Grold, Dorothea, (Not in MR)
- Zemlya, P. I. Some problems in the optimal control of forestry production. (Russian, English and Lithuanian summaries) (see 91e:92001)

Items with secondary classifications in 92A17

- Kondrat'ev, K. Ya. (with Nikanorov, A. M.; Pantyukhin, Ya. V.; Zavalzhenskii, M. V.) Ekman drift and other currents in unbounded domains. (Not in MR)
- Loreau, M. Competition between age classes, and the stability of stage-structured populations: a re-examination of Ebenman's model. (Not in MR)
- Medetov, M. M. (with Raimbekov, K. D.; Sagynaliyev, K. S.) Coordinated planning in a discrete active system. (Russian) (Not in MR)
- Nikanorov, A. M. *see* Kondrat'ev, K. Ya.; et al., (Not in MR)
- Pantyukhin, Ya. V. *see* Kondrat'ev, K. Ya.; et al., (Not in MR)
- Raimbekov, K. D. *see* Medetov, M. M.; et al., (Not in MR)
- Sagynaliyev, K. S. *see* Medetov, M. M.; et al., (Not in MR)
- Zavalzhenskii, M. V. *see* Kondrat'ev, K. Ya.; et al., (Not in MR)

92A18 Animal behavior (1985)

- Benhamou, Simon (with Sauvé, Jean-Pierre; Bovet, Pierre) Spatial memory in large scale movements: efficiency and limitation of the egocentric coding process. (Not in MR)
- Bovet, Pierre *see* Benhamou, Simon; et al., (Not in MR)
- Grafen, Alan Biological signals as handicaps. (Not in MR)
- Hemelrijk, C. K. A matrix partial correlation test used in investigations of reciprocity and other social interaction patterns at group level. (Not in MR)
- Lima, Steven L. Evolutionarily stable antipredator behavior among isolated foragers: on the consequences of successful escape. (Not in MR)
- Sauvé, Jean-Pierre *see* Benhamou, Simon; et al., (Not in MR)

Items with secondary classifications in 92A18

- Blythe, Stephen P. *see* Castillo-Chavez, Carlos, (91k:92022)
- Castillo-Chavez, Carlos (with Blythe, Stephen P.) Mixing framework for social/sexual behavior. (see 91k:92022)
- Jacquez, John A. *see* Koopman, James S.; et al., (91k:92022)
- Koopman, James S. (with Simon, Carl P.; Jacquez, John A.; Park, Tae Sung) Selective contact within structured mixing with an application to HIV transmission risk from oral and anal sex. (see 91k:92022)
- Park, Tae Sung *see* Koopman, James S.; et al., (91k:92022)
- Sattenspiel, Lisa The structure and context of social interactions and the spread of HIV. (see 91k:92022)
- Simon, Carl P. *see* Koopman, James S.; et al., (91k:92022)
- Waldstätter, Roland Pair formation in sexually-transmitted diseases. (see 91k:92022)

92A20 Sociology (1985)

- Borgatti, Stephen P. *see* Everett, Martin G.; et al., (Not in MR)
- Boyd, John Paul *see* Everett, Martin G.; et al., (Not in MR)
- Everett, Martin G. (with Boyd, John Paul; Borgatti, Stephen P.) Ego-centered and local roles: a graph-theoretic approach. (Not in MR)
- Leifer, Eric M. Enacting networks: the feasibility of fairness. (Not in MR)
- Petersen, Troed Analyzing continuous state space failure time processes: two further results. (Not in MR)

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- Bhattacharya, B. N. (with Singh, K. K.; Singh, Uttam; Pandey, C. M.) An extension of a model for first birth interval and some social factors. (Not in MR)
- Jacquez, John A. (with Simon, Carl P.; Koopman, James S.) Structured mixing: heterogeneous mixing by the definition of activity groups. (see 91k:92022)
- *see also* Koopman, James S.; et al., (91k:92022)
- Kendall, David G. Random Delaunay simplexes in R^n . (Not in MR)
- Koopman, James S. (with Simon, Carl P.; Jacquez, John A.; Park, Tae Sung) Selective contact within structured mixing with an application to HIV transmission risk from oral and anal sex. (see 91k:92022)
- *see also* Jacquez, John A.; et al., (91k:92022)
- Krass, Isid A. Shadow method for convex programming with application for navy credit sea/shore rotation problem. (Not in MR)
- Pandey, C. M. *see* Bhattacharya, B. N.; et al., (Not in MR)
- Park, Tae Sung *see* Koopman, James S.; et al., (91k:92022)
- Sattenspiel, Lisa The structure and context of social interactions and the spread of HIV. (see 91k:92022)
- Simon, Carl P. *see* Jacquez, John A.; et al., (91k:92022) and Koopman, James S.; et al., (91k:92022)
- Singh, K. K. *see* Bhattacharya, B. N.; et al., (Not in MR)
- Singh, Uttam *see* Bhattacharya, B. N.; et al., (Not in MR)

92A25 Psychology (1985)

- Adzhimoliev, T. A. *see* Ryabchikova, N. A.; et al., (Not in MR)
- Bandemer, Hans (with Kraut, A.) A case study on modelling impreciseness and vagueness of observations to evaluate a functional relationship. (see 91b:94071)
- Banquet, J. P. (with Mkhadri, A.; Spinakis, A.) Connectionist theory tested by cognitive potentials. (see 91b:92001)
- Bernasconi, J. Learning in neural networks. (see 91e:90022)
- Bouten, M. (with Komoda, A.; Semeels, R.) Storage capacity of a diluted neural network with Ising couplings. (Not in MR)
- Bradbury, Hinton (with Ross, Karen) The effects of novelty and choice materials on the intransitivity of preferences of children and adults. (Not in MR)
- Brown, Gordon D. A. A neural net model of human short-term memory development. (see 91e:68011)
- Chaudhuri, B. B. Fuzzy set theoretic interpretation of object shape and relational properties for computer vision. (Not in MR)
- Colonius, Hans Possibly dependent probability summation of reaction time. (Not in MR)
- Eshima, Nobuaki Latent class analysis for explaining a hierarchical learning structure. (Not in MR)

- Goldstein, Harvey (with Wood, Robert) Five decades of item response modelling. (Not in MR)
- Ichikawa, Atsunobu see Nakamura, Kiyohiko, (Not in MR)
- Kamgar-Parsi, Behrooz see Kamgar-Parsi, Behzad, (Not in MR)
- Kamgar-Parsi, Behzad (with Kamgar-Parsi, Behrooz) On problem solving with Hopfield neural networks. (Not in MR)
- Komoda, A. see Bouten, M.; et al., (Not in MR)
- Kraut, A. see Bandemer, Hans, (91b:94071)
- Lin, Jing² see Zhang, Shi Ying, (Not in MR)
- Link, Stephen Modeling imageless thought: the relative judgment theory of numerical comparisons. (Not in MR)
- Mammano, F. Modeling auditory system nonlinearities through Volterra series. (Not in MR)
- Mann, Stuart H. see Triantaphyllou, Evangelos; et al., (Not in MR)
- Maxwell, Tom Pattern recognition and single layer networks. (see 91b:92004)
- Mkhadri, A. see Banquet, J. P.; et al., (91b:92001)
- Nakamura, Kiyohiko (with Ichikawa, Atsunobu) Cerebral mechanism for reward-mediated learning: a mathematical model of neuromodulatory network plasticity. (Not in MR)
- Pardalos, Panos M. see Triantaphyllou, Evangelos; et al., (Not in MR)
- Penrose, Roger On the physics and mathematics of thought. (see 91b:03004)
- Ross, Karen see Bradbury, Hinton, (Not in MR)
- Ryabchikova, N. A. (with Shuf'govskii, V. V.; Adzhimolava, T. A.) Specifics of the structure of algorithms of human behavior in formal environments. (Not in MR)
- Serneels, R. see Bouten, M.; et al., (Not in MR)
- Shuf'govskii, V. V. see Ryabchikova, N. A.; et al., (Not in MR)
- Spies, Marcus Imprecision in human combination of evidence. (see 91b:94071)
- Spinakis, A. see Banquet, J. P.; et al., (91b:92001)
- Szu, Harold H. What is the significance of neural networks for AI? (see 91b:92004)
- Triantaphyllou, Evangelos (with Pardalos, Panos M.; Mann, Stuart H.) Minimization approach to membership evaluation in fuzzy sets and error analysis. (Not in MR)
- Wood, Robert see Goldstein, Harvey, (Not in MR)
- Zhang, Shi Ying (with Lin, Jing²) Fuzzy hierarchical decisions. (Chinese. English summary) (Not in MR)
- Items with secondary classifications in 92A25**
- Amit, Daniel J. (with Parisi, Giorgio; Nicolis, S.) Neural potentials as stimuli for attractor neural networks. (Not in MR)
- Apolloni, Bruno (with Bertoni, Alberto; Campadelli, Paola; de Falco, Diego) Neural networks: deterministic and stochastic dynamics. (see 91e:00022)
- Arikawa, Setsuo see Yuasa, Hiroko, (Not in MR)
- Bertoni, Alberto see Apolloni, Bruno; et al., (91e:00022)
- Billings, S. A. see Chen, Sheng²; et al., (Not in MR)
- Campadelli, Paola see Apolloni, Bruno; et al., (91e:00022)
- Castellan, N. John, Jr. (with Sawyer, Teresa A.) Multiattribute decision models: task order and group effects. (see 91a:90015)
- Chen, Sheng² (with Billings, S. A.; Grant, P. M.) Nonlinear system identification using neural networks. (Not in MR)
- Cybenko, G. Complexity theory of neural networks and classification problems. (see 91e:68011)
- de Falco, Diego see Apolloni, Bruno; et al., (91e:00022)
- Grant, P. M. see Chen, Sheng²; et al., (Not in MR)
- Hintikka, Jaakko The Cartesian cogito, epistemic logic and neuroscience: some surprising interrelations. (Not in MR)
- Kruse, Rudolf see Meyer, Klaus Dieter, (91b:94071)
- Martin-Claire, Roger Approximate reasoning in the possibility theory framework: where are we practically? (see 91b:94071)
- Maurin, Michel Le mesurage des intervalles successifs doubles, une application des distributions bivariées à marges données. [Measuring double successive intervals: an application of bivariate distributions with known margins] (Not in MR)
- Meyer, Klaus Dieter (with Kruse, Rudolf) On calculating the covariance in the presence of vague data. (see 91b:94071)
- Nicolis, S. see Amit, Daniel J.; et al., (Not in MR)
- Nissenboim, L. B. Modelling of deductions based on the algebraic apparatus of intensional relations. (Not in MR)
- Ogwood, Roger D. Mechanisms of association learning in the post-synaptic neurone. (Not in MR)
- Parisi, Giorgio see Amit, Daniel J.; et al., (Not in MR)
- Sawyer, Teresa A. see Castellan, N. John, Jr., (91a:90015)
- Tan, Shao Hua see Vandenberghe, Lieven; et al., (91e:68011)
- Tutz, Gerhard Sequential item response models with an ordered response. (Not in MR)
- Vandenberghe, Lieven (with Tan, Shao Hua; Vandewalle, Joos) Cellular neural networks: dynamic properties and adaptive learning algorithm. (see 91e:68011)
- Vandewalle, Joos see Vandenberghe, Lieven; et al., (91e:68011)
- Yuasa, Hiroko (with Arikawa, Setsuo) Pseudo extension and belief revision in default reasoning. (Not in MR)

92A27 Psychophysics, psychophysiology [see also 92A09] (1985)

- Benítez-Díaz, D. see González-Rodríguez, Martín Mammel; et al., (Not in MR)
- Gawthrop, P. J. (with Sharbaro, D.) Stochastic approximation and multilayer perceptrons: the gain backpropagation algorithm. (Not in MR)
- González-Rodríguez, Martín Mammel (with Benítez-Díaz, D.; Suarez-Araujo, C. P.) Segmentation and recognition in visual chromatic spaces. (Not in MR)
- Goodhill, G. J. (with Willshaw, D. J.) Application of the elastic net algorithm to the formation of ocular dominance stripes. (Not in MR)
- Kinzel, Wolfgang see Oppel, M.; et al., (Not in MR)
- Klein, J. see Oppel, M.; et al., (Not in MR)
- Lánský, P. see Mates, J.; et al., (Not in MR)
- Mates, J. (with Lánský, P.; Yakimoff, N.) Models for the perception of orientation in random dot patterns. (Not in MR)

- Nehl, R. see Oppel, M.; et al., (Not in MR)
- Oppel, M. (with Kinzel, Wolfgang; Klein, J.; Nehl, R.) On the ability of the optimal perceptron to generalise. (Not in MR)
- Sharbaro, D. see Gawthrop, P. J., (Not in MR)
- Suarez-Araujo, C. P. see González-Rodríguez, Martín Mammel; et al., (Not in MR)
- Willshaw, D. J. see Goodhill, G. J., (Not in MR)
- Yakimoff, N. see Mates, J.; et al., (Not in MR)
- Zee, A. Some quantitative issues in the theory of perception. (see 91b:92004)
- Items with secondary classifications in 92A27**
- Dreyfus, Stuart E. Artificial neural networks, back propagation, and the Kelley-Bryson gradient procedure. (Not in MR)
- Koenderink, Jan J. see Werkhoven, P., (Not in MR)
- Maxwell, Tom Pattern recognition and single layer networks. (see 91b:92004)
- (von Neumann, John) see Schnelle, Helmut, (91b:03004)
- Schnelle, Helmut Turing naturalized: von Neumann's unfinished project. (see 91b:03004)
- Werkhoven, P. (with Koenderink, Jan J.) Extraction of motion parallax structure in the visual system. I, II. (Not in MR)

92A40 Chemistry [see also 80A30, 80A32, 92A05, 92A09] (1985)

- Becker, Janett (with Ritschel, Helmut) Zum Verlust der Phasenkohärenz chemischer oszillatorischer Systeme. (English and Russian summaries) [On the loss of phase coherence for oscillatory chemical systems] (Not in MR)
- Chiche, Laurent (with Gregoire, Lydia M.; Cohen, Fred E.; Kollman, Peter A.) Protein model structure evaluation using the solvation free energy of folding. (Not in MR)
- Cohen, Fred E. see Chiche, Laurent; et al., (Not in MR)
- Elyukhin, V. A. (with Kholpanov, L. P.) Conditions for self-organization of unstable processes in chemical engineering. (Russian) (see 91e:82001)
- Gregoire, Lydia M. see Chiche, Laurent; et al., (Not in MR)
- Kazarinoff, Nicholas D. (with Wilkowski, Joseph S.) Bifurcations of flows in a cylindrical liquid bridge of silicon. (see 91b:00048)
- Kholpanov, L. P. see Elyukhin, V. A., (91e:82001)
- Kollman, Peter A. see Chiche, Laurent; et al., (Not in MR)
- Liu, Wei² see Liu, Zi Qiang; et al., (91b:00048)
- Liu, Zi Qiang (with Wang, De Hong; Liu, Wei²) The dissipative structure of quasi-bimolecular model and its computer simulation. (see 91b:00048)
- Ritschel, Helmut see Becker, Janett, (Not in MR)
- Trinajstić, Nenad On the classification of polyhex hydrocarbons. (Not in MR)
- Wang, De Hong see Liu, Zi Qiang; et al., (91b:00048)
- Wilkowski, Joseph S. see Kazarinoff, Nicholas D., (91b:00048)

Items with secondary classifications in 92A40

- Altare, V. see Nicolis, G., (91e:82002)
- Balasubramanian, Krishnan Computer generation of distance polynomials of graphs. (Not in MR)
- Benham, Craig J. Mechanics and equilibria of superhelical DNA. (see 91i:92005)
- Blaisdell, B. Edwin see Karlin, Samuel; et al., (91i:92005)
- Bohl, Erich (with Kreikenbohm, Rainer; Schropp, Johannes) Chemostat modelling. (see 91b:92001)
- Giddings, Barton W. see Tavaré, Simon, (91i:92005)
- Haase, R. W. see Kramer, Peter, (91a:52030)
- Karlin, Samuel (with Ost, Friedemann; Blaisdell, B. Edwin) Patterns in DNA and amino acid sequences and their statistical significance. (see 91i:92005)
- Kramer, Peter (with Haase, R. W.) Group theory of icosahedral quasicrystals. (see 91a:52030)
- Kreikenbohm, Rainer see Bohl, Erich; et al., (91b:92001)
- Lander, Eric S. Analysis with restriction enzymes. (see 91i:92005)
- Nicolis, G. (with Altare, V.) Physics of nonequilibrium systems. (see 91e:82002)
- Ost, Friedemann see Karlin, Samuel; et al., (91i:92005)
- Pines, A. NMR in physics, chemistry, and biology: illustrations of Bloch's legacy. (Not in MR)
- Schropp, Johannes see Bohl, Erich; et al., (91b:92001)
- Tavaré, Simon (with Giddings, Barton W.) Some statistical aspects of the primary structure of nucleotide sequences. (see 91i:92005)
- Tennakone, K. (with Wickramanayaka, S.) Biochemical chiral selection in the presence of instabilities, chaos, and noise. (Not in MR)
- Waterman, Michael S. Consensus patterns in sequences. (see 91i:92005)
- Consensus methods for folding single-stranded nucleic acids. (see 91i:92005)
- White, James H. An introduction to the geometry and topology of DNA structure. (see 91i:92005)
- Wickramanayaka, S. see Tennakone, K., (Not in MR)
- Zaker, M. The use of dynamic programming algorithms in RNA secondary structure prediction. (see 91i:92005)

92A90 Other applications (1985)

- Lippman, Steven A. On the optimality of equal class sizes. (Not in MR)
- Neshitov, V. V. Mathematical models of dictionary expansion and information flows. (Russian. English summary) (Not in MR)

Items with secondary classifications in 92A90

- Chua, Leon O. see Matsumoto, Takashi; et al., (Not in MR)
- Matsumoto, Takashi (with Chua, Leon O.; Suzuki, Hideo²) CNN cloning template: shadow detector. (Not in MR)
- Suzuki, Hideo² see Matsumoto, Takashi; et al., (Not in MR)

92B05 General biology and biomathematics

- Anderson, David Hezekiah *see* Lal, Ram, 91f:92002
- Bán, István ★ Biomathematics and its applications in plant cultivation. (Not in MR)
- Banks, H. T. (with Fitzpatrick, B. G.) Statistical methods for model comparison in parameter estimation problems for distributed systems. 91m:92002
- (Danilov, Yu. A.) *see* Nicolis, John S., 91b:92002
- Diocha, Tomasz On an integral equation of the mathematical biology. 91f:92001
- Érdi, Péter (with Tóth, János) What is and what is not stated by the May-Wigner theorem? (Not in MR)
- Fitzpatrick, B. G. *see* Banks, H. T., 91m:92002
- Fu, Tian Wu Existence and uniqueness of limit cycles of a class of quadratic differential systems arising in biology. (Chinese) (Not in MR)
- Green, D. G. Cellular automata models in biology. (Not in MR)
- (Habermann, G. M.) *see* Bán, István, (Not in MR)
- Jean, Roger V. A synergic approach to plant pattern generation. 91g:92001
- Jumarie, Guy Can we measure the organizational properties of a system by its entropic variance? 91a:92002
- (Kadomtsev, B. B.) *see* Nicolis, John S., 91b:92002
- Lal, Ram (with Anderson, David Hezekiah) Calculation and utilization of component matrices in linear bioscience models. 91f:92002
- Nicolis, John S. ★ Динамика иерархических систем. (Russian) [Dynamics of hierarchical systems] 91b:92002
- Tóth, János *see* Érdi, Péter, (Not in MR)
- (Verb, J.) *see* Bán, István, (Not in MR)
- (Velt, Eberhard O.) *see* Canonical nonlinear modeling, 91k:92007
- (Wallner, A.) *see* Bán, István, (Not in MR)

Items listed otherwise than by author

Canonical nonlinear modeling ★ Canonical nonlinear modeling. 91k:92007

Items with secondary classifications in 92B05

- Alexander, James C. (with Doedel, Eusebius J.; Othmer, Hans G.) On the resonance structure in a forced excitable system. 91i:34048
- Anishchenko, V. S. ★ Сложные колебания в простых системах. (Russian) [Complex oscillations in simple systems] 91j:58098
- Aronson, I. S. (with Rabinovich, M. I.) Dynamics of spiral waves in nonequilibrium media. 91h:82046
- Balanisbramanian, Krishnan Recent developments in tree-pruning methods and polynomials for cactus graphs and trees. 91h:05043
- Daido, Hiroaki Origin of the unique feature of a phase transition in a class of large populations of coupled oscillators. 91j:82037
- Doedel, Eusebius J. *see* Alexander, James C.; et al., 91i:34048
- Drolet, Suzanne (with Sankoff, David) Quadratic tree invariants for multivalued characters. 91c:92040
- Ganikhodzhaev, N. N. *see* Sarymsakov, T. A., 91g:60089
- de Graaf, J. M. A system of reaction-diffusion equations: convergence towards the stationary solution. 91j:35143
- (Haken, Hermann) *see* Jumarie, Guy, 91h:94012
- Jetschke, Gottfried ★ Mathematik der Selbstorganisation. (German) [Mathematics of self-organization] 91g:58259
- Jumarie, Guy ★ Relative information. 91h:94012
- Kaneko, Kunihiko Clustering, coding, switching, hierarchical ordering, and control in a network of chaotic elements. 91j:58110
- Kessler, J. O. *see* Pedley, T. J., 91h:76117
- (Klir, G. J.) *see* Jumarie, Guy, 91h:94012
- Kurdyumov, S. P. (with Malinetski, G. G.; Potapov, A. B.) ★ Сверхгеттика—новые направления. (Russian) [Synergetics—new directions] 91b:58238
- Lawitz, Steffen L. Mixed graphical association models. 91f:62108
- Malinetski, G. G. *see* Kurdyumov, S. P.; et al., 91b:58238
- Mallet-Paret, John (with Smith, Hal L.) The Poincaré-Bendixon theorem for monotone cyclic feedback systems. 91j:58098
- Matthews, Paul C. (with Strogatz, Steven H.) Phase diagram for the collective behavior of limit-cycle oscillators. 91g:82043
- (Meyer, Vendia) *see* Thom, René, 91c:00002
- Mirollo, Renato E. (with Strogatz, Steven H.) Synchronization of pulse-coupled biological oscillators. 91m:92012
- Othmer, Hans G. *see* Alexander, James C.; et al., 91i:34048
- Pedley, T. J. (with Kessler, J. O.) A new continuum model for suspensions of gyrotactic micro-organisms. 91h:76117
- Potapov, A. B. *see* Kurdyumov, S. P.; et al., 91b:58238
- Rabinovich, M. I. *see* Aronson, I. S., 91h:82046
- Ramaswamy, Ramakrishna *see* Sinha, Sudeshna; et al., 91c:58176
- Sankoff, David *see* Drolet, Suzanne, 91c:92040
- Sarymsakov, T. A. (with Ganikhodzhaev, N. N.) Analytic methods in the theory of quadratic stochastic operators. 91g:60089
- Shlesinger, Michael F. *see* West, Bruce J., 91j:82026
- Sinha, Sudeshna (with Ramaswamy, Ramakrishna; Subba Rao, J.) Adaptive control in nonlinear dynamics. 91c:58176
- Smith, Hal L. *see* Mallet-Paret, John, 91j:58098
- Strogatz, Steven H. *see* Matthews, Paul C., 91g:82043 and Mirollo, Renato E., 91m:92012
- Subba Rao, J. *see* Sinha, Sudeshna; et al., 91c:58176
- Thom, René ★ Semio physics: a sketch. 91c:00002
- West, Bruce J. (with Shlesinger, Michael F.) On the ubiquity of $1/f$ noise. 91j:82026
- Winfree, Arthur T. ★ The geometry of biological time. 91k:92002

92B10 Taxonomy, statistics

- Pickering, D. (with Roddy, Michael Stewart) Distributive lattices and data analysis. 91g:92002

- Roddy, Michael Stewart *see* Pickering, D., 91g:92002
- Teodorescu, D. Time series—information and prediction. (Not in MR)

Items with secondary classifications in 92B10

- Laan, Ru Shu Enumeration of taxonomic sets and maximal taxonomic sets. (Chinese. English summary) 91c:05015

92B15 General biostatistics [see also 62P10]

- Peil, Jürgen Numerische Mathematik in der Anwendung bei der Lösung biomathematischer Problemstellungen. (English summary) [Numerical mathematics in the application to the solution of biomathematical problems] 91h:92002

Items with secondary classifications in 92B15

- Cao, Sheng Yan (with Yan, Jia Ping) Distributions of some statistics of constant correlated samples from a normal population and their applications. (Chinese) (Not in MR)
- Yan, Jia Ping *see* Cao, Sheng Yan, (Not in MR)

92B20 Neural networks [see also 68T05, 82C32, 94Cxx]

- Agu, Masahiro *see* Yamanaka, Kame, 91f:92005
- Aihara, Kazuyuki Chaotic neural networks. (See 91h:58001)
- *see also* Ikeguchi, Tohru; et al., (Not in MR)
- Apolloni, Bruno (with de Falco, Diego) Learning by parallel Boltzmann machines. (Not in MR)
- Arbib, Michael A. *see* Cervantes-Pérez, F., (Not in MR)
- Billings, S. A. *see* Chen, Sheng; et al., 91g:92003
- Blann, Mario *see* Bruck, Jehoshua, 91c:92002
- Bormann, D. Dynamical equivalence in a class of nonlinear neural network models. 91m:92003
- Bressloff, P. C. (with Taylor, John G.) Random iterative networks. 91k:92008
- *see also* Stark, Jaroslav, 91c:92005
- Bruck, Jehoshua (with Blann, Mario) Neural networks, error-correcting codes, and polynomials over the binary n -cube. 91c:92002
- Cervantes-Pérez, F. (with Arbib, Michael A.) Stability and parameter dependency analysis of a facilitation tectal column (FTC) model. (Not in MR)
- Chen, Sheng (with Cowan, C. F. N.; Billings, S. A.; Grant, P. M.) Parallel recursive prediction error algorithm for training layered neural networks. 91g:92003
- Choi, M. Y. *see* Shim, G. M.; et al., 91m:92009
- Clark, John W. Introduction to neural networks. 91i:92001
- Cowan, C. F. N. *see* Chen, Sheng; et al., 91g:92003
- Cowan, Jack D. von Neumann and neural networks. 91j:92002
- Derrida, Bernard Distribution of the activities in a diluted neural network. 91c:92003
- Domany, Eytan (with Kinzel, Wolfgang; Meir, Ronny) Layered neural networks. 91f:92003
- van den Driessche, P. *see* Jeffries, Clark, 91j:92002
- Eisenstein, Eli *see* Kanter, Ido, 91m:92004
- Engel, Andreas Storage of hierarchically correlated patterns. (Not in MR)
- de Falco, Diego *see* Apolloni, Bruno, (Not in MR)
- Fukui, Tomoki *see* Shino, Masatoshi, 91c:92009
- Geszti, Tamás ★ Physical models of neural networks. 91g:92004
- Grosi, F. (with Poggio, T.) Networks and the best approximation property. 91c:92003
- Gordon, Mirta B. (with Peretto, Pierre) The statistical distribution of Boolean gates in two-input, one-output multilayered neural networks. 91c:92004
- Grant, P. M. *see* Chen, Sheng; et al., 91g:92003
- Gutfreund, H. (with Stein, Y.) Capacity of neural networks with discrete synaptic couplings. 91c:92004
- Humpert, B. A comparative study of neural network architectures. 91c:92005
- Hwang, Jenq-Neng (with Vrontos, John A.; Kung, Sun Yuan) A systolic neural network architecture for hidden Markov models. (Not in MR)
- Ikeguchi, Tohru (with Itoh, Susumu; Utsunomiya, Toshio; Aihara, Kazuyuki) A dimensional analysis on chaotic neural networks. (Not in MR)
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Inchiosa, Mario E. *see* Berryman, Kenneth W.; et al., 91c:92121

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Michel, Anthony N. (with Gray, Donald L.) Analysis and synthesis of neural networks with lower block triangular interconnecting structure. 91m:94005

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Parisi, Giorgio. *see* Mézard, Marc; et al., 91k:82066

Perantonis, S. J. *see* Lisboa, P. J. G., (Not in MR)

Perazzo, Roberto P. J. *see* Ferrás, Edgardo A., 91k:82045 and 91m:82106

Personnaz, L. *see* Knerr, S.; et al., (91h:68013)

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Rohwer, Richard. *see* Renals, Steve, 91a:58120

Romanowska, Anna B. (with Smith, Jonathan D. H.) Communicating processes and entropic algebras. 91k:68126

Ronchini, G. *see* Apolloni, Bruno; et al., (91k:68016)

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Sergeev, V. M. *see* Artyushkin, V. F.; et al., 91g:92034

Serneels, R. *see* Bouten, M.; et al., 91m:92104

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Smith, Jonathan D. H. *see* Romanowska, Anna B., 91k:68126

Stark, Jaroslav. *see* Bressloff, P. C., (91f:58094)

Tirozzi, Brunello. *see* Procesi, Claudio, 91c:82048

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Virasoro, Miguel Angel. *see* Mézard, Marc; et al., 91k:82066

Volper, Dennis J. *see* Hampson, Steven E., 91f:94033

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 Yassine, A. *see* Pham Dinh Tuan, et al., (Not in MR)
 Zanarini, Gianni *see* Serra, Roberto, 91j:92017
 Zällicks, Ch. *see* Ebeling, Werner, et al., 91c:82048

Items listed otherwise than by author

Adaptive brain ★ The adaptive brain. I. 91m:92052a

— ★ The adaptive brain. II. 91m:92052b

Conference:

Statistical Mechanics of Neural Networks ★ Statistical mechanics of neural networks. 91i:82018

Lecture Notes in Physics ★ Statistical mechanics of neural networks. 91i:82018

— ★ Statistical mechanics of neural networks. 91i:82018

Parallel architectures and neural networks ★ Parallel architectures and neural networks. 91k:68016

Salerno ★ Parallel architectures and neural networks. 91k:68016

Sitges ★ Statistical mechanics of neural networks. 91i:82018

Statistical mechanics of neural networks ★ Statistical mechanics of neural networks. 91i:82018

Workshop:

Parallel Architectures and Neural Networks ★ Parallel architectures and neural networks. 91k:68016

92B99 None of the above, but in this section

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Pallikari-Viras, Fotini *see* Josephson, Brian D., (Not in MR)

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Kritz, M. V. Numerical modelling of canopy viscosity. A progress report. (*see* 91g:00044)

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92Cxx Physiological, cellular and medical topics

92C05 Biophysics

Colli, Pierluigi On a nonlinear and nonlocal evolution equation related to muscle contraction. 91b:92003

Cronin, Jane Electrically active cells and singular perturbation theory. 91h:92006

Darydov, V. A. (with Mikhailov, A. S.; Zykov, V. S.) Kinematical theory of autowave patterns in excitable media. 91f:92006

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Kriksin, Yu. A. *see* Kislov, V. V., 91g:58260

Lia, Qin Sheng A method of relaxation curve fitting in the magnetic field produced by the lung—an algorithm of the Powell symmetric Brodyen update for solving the nonlinear least-square problem. (Chinese. English summary) 91b:65018

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Thavaneswaran, A. *see* Habib, Muhammad K., 91c:92018

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Wu, Wang Yi *see* He, Xiao Yi, (Not in MR)

92C10 Biomechanics [see also 73P05]

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Items listed otherwise than by author

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Some mathematical questions in biology—the dynamics of excitable media ★ Some mathematical questions in biology—the dynamics of excitable media. 91g:92007

Symposium:

Some Mathematical Questions in Biology ★ Some mathematical questions in biology—the dynamics of excitable media. 91g:92007

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92C15 Developmental biology, pattern formation

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Cummings, F. W. A model of morphogenetic pattern formation. 91c:92013

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Ermentrout, G. Bard *see* Edelstein-Keshet, Leah, (Not in MR)

(Fowler, Deborah R.) *see* Prusinkiewicz, Przemyslaw, 91k:92012

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- Röthinger, Birgit (with Tãutu, Petre) On the genealogy of large cell populations. (see 91j:92001)
- Routledge, R. D. Spatial patterns arising from plant dispersal as modelled by a correlated random walk. 91h:92004
- Shaw, L. J. (with Murray, J. D.) Analysis of a model for complex skin patterns. 91h:92003
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- Toko, K. (with Yamafuji, K.) Bifurcation characteristics and spatial patterns in an integro-differential equation. 91h:92009
- Trainor, L. E. H. see Hart, T. N., 91h:92007
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- Davis, B. S. (with Davis, T. A.) Fibonacci numbers and the golden mean in nature. 91f:11009
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- Frachia, F. David) see Prusinkiewicz, Przemyslaw, 91c:68075
- de Gunst, Mathisca C. M. The relationship between the stochastic and deterministic version of a model for the growth of a plant cell population. (see 91j:60004)
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92C20 Neural biology

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- Daoudi, Abdellah see Cerf, Roger; et al., (Not in MR)
- Dehnhardt, J. see Awiszus, F.; et al., 91c:92017
- Engelbrecht, Jüri K. On mathematical models for nerve-pulse transmission. 91h:92012
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- Ermentrout, G. Bard (with Kopell, N.) Oscillator death in systems of coupled neural oscillators. 91c:92007
- Funke, T. see Awiszus, F.; et al., 91c:92017
- Habib, Muhammad K. (with Thavaneswaran, A.) Inference for stochastic neuronal models. 91c:92018
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- Herrmann, Michael see Englisch, Harald, (91k:92005)
- Holden, A. V. (with Matsumoto, G.) Patterned and irregular activity in excitable media. (see 91j:58005)
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- Alexander, James C. (with Doedel, Eusebius J.; Othmer, Hans G.) On the resonance structure in a forced excitable system. 91h:34048
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- Blum, Jacob Joseph see Reed, Michael C.; et al., 91c:92026
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- Chapman, Michael J. see Godfrey, Keith R., 91c:92023
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- Bell, Jonathan (with Friedman, Avner; Lacey, Andrew A.) On solutions to a quasi-linear diffusion problem from the study of soft tissue. 91k:35131
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Some Mathematical Questions in Biology ★ Some mathematical questions in biology—the dynamics of excitable media. 91g:92007
- #### 92C35 Physiological flow [see also 76Z05]
- Chakravarty, Santabrata (with Datta, Anantadeb) Dynamic response of arterial blood flow in the presence of multi-stenoses. (Not in MR)
- Chen, Yao Song *see Zou, Qisu*, (Not in MR)
- Datta, Anantadeb *see Chakravarty, Santabrata*, (Not in MR)
- Ding, Zheng Zhong The diffusion and consumption of oxygen in living and dying tissues. (see 91g:00044)
- Edissonov, I. *see Petrov, V. G.*, (Not in MR)
- Francó, Jan *see Schierwagen, A. K.*, (91b:00046)
- Goldsmith, M. H. M. *see Martin, M. H.; et al.*, 91b:92008
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- Bass, Ludvik *see McNabb, Alex*, 91a:35088
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- Pérez Cabrera, María del Carmen *see Mederos, María V.*, 91i:65122
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- Sarason, Leonard Comparison of one- and three-dimensional models for tracer evolution in tissue cylinders. 91g:35195
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- Bass, Ludvik *see McNabb, Alex*, 91f:92010
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Lander, Eric S. see Arratia, Richard, 91a:05090

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92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [see also 80A30]

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— Some applications of statistical mechanics in enzymology. III. Effects of nonspecific inhibitors and activators on enzyme reaction. 91b:92012

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92C50 Medical applications (general)

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Altenburg, H.-P. On a branching model for chemotherapy. (see 91j:92001)

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Asachenkov, A. L. (with Sobolev, B. G.; Yashin, A. I.) ★ Математическое моделирование течения онкологического заболевания. (Russian) [Mathematical modeling of the course of a cancer] 91c:92030

Beretta, Elena (with Vessella, Sergio) A remark on an inverse problem in electrocardiology. 91k:92015

Beshlyaga, P. V. see Bokhanastyuk, V. A.; et al., 91c:92031

Bokhanastyuk, V. A. (with Mudryak, V. I.; Beshlyaga, P. V.) ★ Техническое и математическое обеспечение в диагностике и прогнозировании эпилепсии. (Russian) [Hardware and software for the diagnosis and prediction of epilepsy] 91c:92031

Chen, Chao W. see Yang, Grace L., (Not in MR)

Colli Franzone, P. (with Guerri, L.; Rovida, S.) Wavefront propagation in an activation model of the anisotropic cardiac tissue: asymptotic analysis and numerical simulations. 91k:92016

D'Argenio, David Z. Incorporating prior parameter uncertainty in the design of sampling schedules for pharmacokinetic parameter estimation experiments. 91c:92032

Fisher, Michael Ernest see Martin, R. B.; et al., 91k:92018

Godin, E. A. see Arkhipova, O. Yu.; et al., (Not in MR)

Guerri, L. see Colli Franzone, P.; et al., 91k:92016

Gyllenberg, Mats (with Webb, G. F.) A nonlinear structured population model of tumor growth with quiescence. 91k:92017

Ivanov, V. K. see Airapetov, S. A., (Not in MR)

Jing, Zhu Jun (with Wang, Peng Yuan) Analysis of Duffing's equation with periodic force and without damping: harmonic solution and subharmonic solution and chaotic solution—a study of biomathematical model of aneurysm of Willis. 91c:92033

Khanin, L. G. see Pavlova, L. V.; et al., 91k:92020

Knoel, Helmut ★ Cell kinetic modelling and the chemotherapy of cancer. 91d:92001

Kolmanovskii, V. B. see Arkhipova, O. Yu.; et al., (Not in MR)

Martin, Clyde Franklin (with Xie, Shishen) Observability of the electropotential on a nested cylindrical domain. I. The continuous solution. 91h:92014

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Martin, R. B. (with Fisher, Michael Ernest; Minchin, R. F.; Teo, Kok Lay) A mathematical model of cancer chemotherapy with an optimal selection of parameters. 91k:92018

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Murray, J. M. Some optimal control problems in cancer chemotherapy with a toxicity limit. 91k:92019

— Optimal control for a cancer chemotherapy problem with general growth and loss functions. 91m:92017

Pavlova, L. V. (with Khanin, L. G.; Yakovlev, A. Yu.) Least upper bounds for a functional of the effectiveness of tumor radiation therapy. 91k:92020

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Shtengol'd, E. Sh. see Arkhipova, O. Yu.; et al., (Not in MR)

Sobolev, B. G. see Asachenkov, A. L.; et al., 91c:92030

Teo, Kok Lay see Martin, R. B.; et al., 91k:92018

Vessella, Sergio see Beretta, Elena, 91k:92015

Wang, Peng Yuan see Jing, Zhu Jun, 91c:92033

Watkins, Joseph C. (with Woessner, Birgit) Diffusion models for chemotaxis: a statistical analysis of noninteractive unicellular movement. (Not in MR)

Webb, G. F. see Gyllenberg, Mats, 91k:92017

Woessner, Birgit see Watkins, Joseph C., (Not in MR)

Xie, Shishen see Martin, Clyde Franklin, 91h:92014 and 91h:92015

Yakovlev, A. Yu. see Pavlova, L. V.; et al., 91k:92020

Yang, Grace L. (with Chen, Chao W.) A stochastic two-stage carcinogenesis model: a new approach to computing the probability of observing tumor in animal bioassays. (Not in MR)

Yashin, A. I. see Asachenkov, A. L.; et al., 91c:92030

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Bartocci, Umberto (with Pambianco, Fernanda) Estimating the volume of certain calottes. (Italian) 91h:51026

Bugnon, F. J. On the convergence of guaranteed state observation. (Russian summary) 91j:93056

Chaplain, M. A. J. (with Sleeman, B. D.) A mathematical model for the production and secretion of tumour angiogenesis factor in tumours. (Not in MR)

Cormack, A. M. (with Quinto, Eric Todd) The mathematics and physics of radiation dose planning using X-rays. (see 91m:00032)

Cox, Robert W. Shocks in a model for stress-driven diffusion. 91h:35167

(Gariaskas, Algis) see Mathematical models in biology and medicine, 91c:92001

He, Xiao Yi (with Wu, Wang Yi) The double porosity model for mass transfer between capillaries and tissues in lung microcirculation. (Not in MR)

Ito, Kazuomi see Michelson, Seth; et al., 91c:92059

Kärten, K. E. Discrete time versus continuous time approach to the autoimmune response. 91c:92025

Lee, George C. see Wu, Shi Gui, 91g:92010

Leith, John T. see Michelson, Seth; et al., 91c:92059

Louis, Alfred K. Inverse problems in medicine. 91i:65112

- Michelson, Seth (with Tran, Hien; Ito, Kazufumi; Leith, John T.) Stochastic models of subpopulation emergence in heterogeneous tumors. 91c:92059
- Neapolitan, Richard E. The principle of interval constraints: a generalization of the symmetric Dirichlet distribution. (Not in MR)
- (Othmer, Hans G.) *Some mathematical questions in biology—the dynamics of excitable media.* 91g:92007
- Pambianco, Fernanda *see* Bartocci, Umberto, 91h:51026
- Peskin, Charles S. *see* Sneyd, James, 91c:53006
- Quinto, Eric Todd *see* Cormack, A. M., (91m:00032)
- Rodnikovskii, V. B. A probabilistic model of infection in an epidemic process. (Russian) (see 91j:60001)
- Rüthiger, Birgit (with Täutu, Petre) On the genealogy of large cell populations. (see 91j:92001)
- Sleeman, B. D. *see* Chaplain, M. A. J., (Not in MR)
- Smith, Hal L. (with Thieme, Horst R.) Monotone semiflows in scalar non-quasi-monotone functional-differential equations. 91j:34117
- Sneyd, James (with Peskin, Charles S.) Computation of geodesic trajectories on tubular surfaces. 91c:53006
- (Sritra, Donatas) *see* Mathematical models in biology and medicine, 91e:92001
- Tan, W. Y. Some general stochastic models for the spread of AIDS and some simulation results. (Not in MR)
- Tang, Chang Jie (with Yin, Bo Wen) Premonitory dependency of historical database and its mathematical properties. 91f:68035
- Täutu, Petre *see* Rüthiger, Birgit, (91j:92001)
- Thieme, Horst R. *see* Smith, Hal L., 91j:34117
- Tran, Hien *see* Michelson, Seth; et al., 91c:92059
- Wu, Shi Gui (with Lee, George C.) Theoretical and computational investigations of nonlinear wave propagations in arteries. I. A theoretical model of nonlinear pulse wave propagations. 91g:92010
- Wu, Wang Yi *see* He, Xiao Yi, (Not in MR)
- Yin, Bo Wen *see* Tang, Chang Jie, 91f:68035
- Items listed otherwise than by author
- Las Vegas, NV *Some mathematical questions in biology—the dynamics of excitable media.* 91g:92007
- Mathematical models in biology and medicine *★* Математические модели в биологии и медицине. Вып. 3. (Russian) [Mathematical models in biology and medicine. No. 3] 91e:92001
- Some mathematical questions in biology—the dynamics of excitable media *★* Some mathematical questions in biology—the dynamics of excitable media. 91g:92007
- Symposium:
- Some Mathematical Questions in Biology *★* Some mathematical questions in biology—the dynamics of excitable media. 91g:92007

92C55 Tomography [see also 44A12, 65R10]

- Bakushinskii, A. B. (with Goncharukii, A. V.; Levitan, S. Yu.) Application of regularization algorithms in x-ray computer tomography. 91c:92034
- Faridani, A. (with Keinert, F.; Natterer, Frank; Ritman, E. L.; Smith, Kennan T.) Local and global tomography. 91c:92011
- Goncharukii, A. V. *see* Bakushinskii, A. B.; et al., 91c:92034
- Grünbaum, F. Alberto Backscattering comes to the rescue. (see 91m:00032)
- Herman, Gabor T. (with Odhner, Dewey; Toennies, Klaus D.; Zenios, Stavros A.) A parallelized algorithm for image reconstruction from noisy projections. (see 91h:00029)
- Keinert, F. *see* Faridani, A.; et al., 91c:92011
- Khalifa, L. A. On an alternative to traditional computer tomography. (Russian) (Not in MR)
- Levitan, S. Yu. *see* Bakushinskii, A. B.; et al., 91c:92034
- Lind, Bengt K. Properties of an algorithm for solving the inverse problem in radiation therapy. 91j:92008
- Louis, Alfred K. (with Rieder, Andreas) Incomplete data problems in x-ray computerized tomography. II. Truncated projections and region-of-interest tomography. 91a:92004
- Natterer, Frank Mathematische Methoden in der Tomographie. [Mathematical methods in tomography] (see 91h:00032)
- *see also* Faridani, A.; et al., 91c:92011
- Odhner, Dewey *see* Herman, Gabor T.; et al., (91h:00029)
- Rieder, Andreas *see* Louis, Alfred K., 91a:92004
- Ritman, E. L. *see* Faridani, A.; et al., 91c:92011
- Smith, Kennan T. *see* Faridani, A.; et al., 91c:92011
- Timonov, A. A. Mathematical modeling of a method of wave computerized tomography based on the Kirchhoff approximation. (Russian. English summary) (Not in MR)
- Toennies, Klaus D. *see* Herman, Gabor T.; et al., (91h:00029)
- Yorkey, Thomas J. Electrical impedance tomography with piecewise polynomial conductivities. (Not in MR)
- Zenios, Stavros A. *see* Herman, Gabor T.; et al., (91h:00029)
- Items with secondary classifications in 92C55
- Alliney, Stefano Modified projection operators for CT-reconstruction from uncertain data. 91g:65291
- Bakanov, G. B. *see* Romanov, V. G.; et al., 91c:39004
- Beretta, Elena (with Vessella, Sergio) A remark on an inverse problem in electrocardiology. 91h:92015
- Berryman, James G. Stable iterative reconstruction algorithm for nonlinear traveltime tomography. 91h:00018
- Bianchi, Gabriele (with Longinetti, M.) Reconstructing plane sets from projections. 91f:68200
- Cormack, A. M. (with Quinto, Eric Todd) The mathematics and physics of radiation dose planning using X-rays. (see 91m:00032)
- Elner, Ludwig (with Koltracht, Israel; Neumann, Michael) On the convergence of asynchronous paracontractions with application to tomographic reconstruction from

- incomplete data. 91g:65093
- Fleming, Henry E. Equivalence of regularization and truncated iteration in the solution of ill-posed image reconstruction problems. 91c:65064
- (Gelfand, I. M.) *see* Mathematical problems of tomography, 91k:44001
- (Gelfand, S. I.) *see* Mathematical problems of tomography, 91k:44001
- (Gindikin, S. G.) *see* Mathematical problems of tomography, 91k:44001
- Goldin, S. V. The method of discontinuities in problems of geophysics and tomography. (Russian) 91a:96010
- Grünbaum, F. Alberto Soliton mathematics in signal processing. 91g:78015
- Hazon, Irene A. (with Solomon, Donald C.) Filtered-backprojection and the exponential Radon transform. 91c:44004
- Iakovidis, I. (with Martin, Clyde Franklin; Xie, Shishen) Observability and inverse problems arising in electrocardiography. 91a:93041
- Kabanikhin, S. I. *see* Romanov, V. G.; et al., 91c:39004
- Kanastani, Ken-ichi *★* Group-theoretical methods in image understanding. 91g:68168
- Kohn, Robert V. (with McKenney, Alan) Numerical implementation of a variational method for electrical impedance tomography. 91g:78006
- Koltracht, Israel (with Lancaster, Peter; Smith, Digby) The structure of some matrices arising in tomography. 91j:65068
- *see also* Elner, Ludwig; et al., 91g:65093
- Kumazawa, Itsuo (with Ogawa, Hidemitsu; Tajima, Hiroshi) Image reconstruction from erroneous projections—Radon transform as an analog coding. (Not in MR)
- Lancaster, Peter *see* Koltracht, Israel; et al., 91j:65068
- Longinetti, M. *see* Bianchi, Gabriele, 91f:68200
- Mahmoud, Fatma A. M. General product integration method for solving Radon integral equation. (Arabic summary) 91g:65309
- Martin, Clyde Franklin *see* Iakovidis, I.; et al., 91a:93041
- McKenney, Alan *see* Kohn, Robert V., 91g:78006
- Natterer, Frank *★* Математические аспекты компьютерной томографии. (Russian) [The mathematics of computerized tomography] 91j:44002
- Neumann, Michael *see* Elner, Ludwig; et al., 91g:65093
- Ogawa, Hidemitsu *see* Kumazawa, Itsuo; et al., (Not in MR)
- (Palamodov, I. V.) *see* Natterer, Frank, 91j:44002
- (Palamodov, V. P.) *see* Natterer, Frank, 91j:44002
- Petryakov, A. V. *see* Timonov, A. A., 91a:65246
- Quinto, Eric Todd Limited data tomography in nondestructive evaluation. 91k:44005
- *see also* Cormack, A. M., (91m:00032)
- Romanov, V. G. (with Kabanikhin, S. I.; Bakanov, G. B.) Investigation of a differential-difference analogue of a three-dimensional problem of integral geometry. 91c:39004
- (Sabatier, Pierre C.) *see* Basic methods of tomography and inverse problems, 91c:00003
- Salakhov, M. Kh. (with Shcherbakova, N. K.) A regularized algorithm for local emission reconstruction in spectroscopic tomography. 91g:65295
- Santosa, Fadil (with Vogelius, Michael) A backprojection algorithm for electrical impedance imaging. 91c:35159
- Shcherbakova, N. K. *see* Salakhov, M. Kh., 91g:65295
- Smith, Digby *see* Koltracht, Israel; et al., 91j:65068
- Solomon, Donald C. *see* Hazon, Irene A., 91c:44004
- (Sosinskii, A. B.) *see* Mathematical problems of tomography, 91k:44001
- Tajima, Hiroshi *see* Kumazawa, Itsuo; et al., (Not in MR)
- Takenaka, Shigeo A linear filtering problem using Radon transform. 91g:44005
- Timonov, A. A. (with Petryakov, A. V.) On a structure of parallel tomographic computer systems. 91a:65246
- Vessella, Sergio *see* Beretta, Elena, 91h:92015
- Vogelius, Michael *see* Santosa, Fadil, 91c:35159
- Xie, Shishen *see* Iakovidis, I.; et al., 91a:93041
- Zwaan, M. A Radon transform on circles through the origin in \mathbb{R}^2 . 91h:44003

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Basic methods of tomography and inverse problems *★* Basic methods of tomography and inverse problems. 91c:00003

Bras-sans-Nappe *★* Basic methods of tomography and inverse problems. 91c:00003

Mathematical problems of tomography *★* Mathematical problems of tomography. 91k:44001

School:

Numerical Analysis *★* Basic methods of tomography and inverse problems. 91c:00003

92C60 Medical epidemiology

- Alad, E. G. *see* Shoukry, E., (Not in MR)
- (Castillo-Chavez, Carlos) *see* Mathematical and statistical approaches to AIDS epidemiology, 91k:92022
- Iwasa, Yoh *see* Sasaki, Akira, (Not in MR)
- Kaul, David Abraham (with Marsh, Lachlan McLeod) Modeling AIDS as a function of other sexually transmitted disease. (Not in MR)
- Liu, Xiao Dong Qualitative analysis of an HIV transmission model. (Not in MR)
- Manton, Kenneth G. Mathematical models for chronic disease epidemiology. (see 91j:60004)
- Marsh, Lachlan McLeod *see* Kaul, David Abraham, (Not in MR)
- McGregor, J. R. A stochastic model for the AIDS epidemic. (Not in MR)
- Sasaki, Akira (with Iwasa, Yoh) Optimal growth schedule of pathogens within a host: switching between lytic and latent cycles. (Not in MR)
- Shoukry, E. (with Alad, E. G.) Simple epidemic process with gamma interinfection time. (Not in MR)
- Vaupel, James W. Relatives' risks: frailty models of life history data. 91k:92021

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Lecture Notes in Biomathematics *★* Mathematical and statistical approaches to AIDS epidemiology. 91k:92022

Mathematical and statistical approaches to AIDS epidemiology *★* Mathematical and statistical approaches to AIDS epidemiology. 91k:92022

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- Blanchard, Philippe (with Bolz, Georg F.; Krüger, Tyll) Mathematical modelling on random graphs of the spread of sexually transmitted diseases with emphasis on the HIV infection. **91g:92020**
- Bolz, Georg F. *see* Blanchard, Philippe; et al., **91g:92020**
- Brauer, Fred Epidemic models in population of varying size. **91f:92016**
- Cairns, Andrew J. G. Epidemics in heterogeneous populations: aspects of optimal vaccination policies. **91f:92026**
- Epidemics in heterogeneous populations. II. Nonexponential incubation periods and variable infectiousness. (Not in MR)
- Funakoshi, Hiromi (with Yamada, Akio) Theory of cell age distribution in suspension culture with feed and/or drain. **91g:92022**
- Goot, R. E. *see* Khanin, L. G.; et al., **91h:62091**
- Greenhalgh, David Vaccination campaigns for common childhood diseases. **91i:92009**
- Hsieh, John J. Construction of expanded continuous life tables—a generalization of abridged and complete life tables. (Not in MR)
- Khanin, L. G. (with Rachev, Svetlozar T.; Goot, R. E.; Yakovlev, A. Yu.) Precise upper bounds for the functionals describing tumour treatment efficiency. **91h:62091**
- Krüger, Tyll *see* Blanchard, Philippe; et al., **91g:92020**
- Krysio, Richard J. *see* Malice, Marie-Pierre, **91k:92038**
- Malice, Marie-Pierre (with Krysio, Richard J.) On the role of variable incubation periods in simple epidemic models. **91k:92038**
- Rachev, Svetlozar T. *see* Khanin, L. G.; et al., **91h:62091**
- Voit, Eberhard O. S-system modelling of endemic infections. **91f:92029**
- Yakovlev, A. Yu. *see* Khanin, L. G.; et al., **91h:62091**
- Yamada, Akio *see* Funakoshi, Hiromi, **91g:92022**

92C99 None of the above, but in this section

- Boudiaf, A. Modélisation mathématique de la division méiotique des ovocytes de Xénope induite par la progestérone. (English summary) [Mathematical modeling of progesterone-induced meiotic division of *Xenopus* oocytes] (Not in MR)

Items with secondary classifications in 92C99

- Agoshkov, V. I. (with Mishneva, A. P.) ★ О нахождении коэффициента дисперсии в нелинейном параболическом уравнении. (Russian) [On the determination of the dispersion coefficient in a nonlinear parabolic equation] **91e:35209**
- Bénilan, Philippe (with Labani, H.) Existence of attractors for the Brusselator. **91f:35134**
- Duplantier, Bertrand Exact curvature energies of charged membranes of arbitrary shapes. **91h:78012**
- Ermentrout, G. Bard *see* Kopell, N.; et al., **91h:34050** and **91h:34051**
- Kopell, N. (with Ermentrout, G. Bard) Phase transitions and other phenomena in chains of coupled oscillators. **91h:34051**
- (with Zhang, W.; Ermentrout, G. Bard) Multiple coupling in chains of oscillators. **91h:34050**
- Labani, H. *see* Bénilan, Philippe, **91f:35134**
- Mishneva, A. P. *see* Agoshkov, V. I., **91e:35209**
- Perelson, Alan S. *see* Segel, Lee A., **91m:92026** and **91m:92027**
- Perry, W. L. *see* Shen, S. S. P., **91g:76086**
- Prince, Jerry L. (with Wilksy, Alan S.) A geometric projection-space reconstruction algorithm. **91h:65215**
- Segel, Lee A. (with Perelson, Alan S.) Some reflections on memory in shape space. **91m:92027**
- (with Perelson, Alan S.) A paradoxical instability caused by relatively short-range inhibition. **91m:92026**
- Shen, S. S. P. (with Perry, W. L.) An example of nonlinear toxic mass spreading. **91g:76086**
- Soussi, El Houssine Qualitative dynamics of piecewise-linear differential equations: a discrete mapping approach. **91g:58264**
- Wilksy, Alan S. *see* Prince, Jerry L., **91h:65215**
- Zhang, W. *see* Kopell, N.; et al., **91h:34050**

92Dxx Genetics and population dynamics

92D10 Genetics {For genetic algebras, see 17D92.}

- Aalto, Erkki The Moran model and validity of the diffusion approximation in population genetics. **91g:92012**
- Agur, Z. *see* Harnoe, L. E., **91h:92023**
- Barclon, Victor *see* Nagylaki, Thomas, **91e:92015**
- Cantrell, Robert Stephen (with Cosner, Chris) Diffusive logistic equations with indefinite weights: population models in disrupted environments. **91h:92015**
- Christiansen, Freddy Bugge Selection in natural populations. (see **91k:92006**)
- Simplified models for viability selection at multiple loci. **91c:92035**
- Cosner, Chris *see* Cantrell, Robert Stephen, **91h:92015**
- Dodds, K. G. *see* Weir, B. S.; et al., **91d:92002**
- Ethier, S. N. The infinitely-many-neutral-alleles diffusion model with ages. **91c:92036**
- The distribution of the frequencies of age-ordered alleles in a diffusion model. **91m:92018**
- Ewens, W. J. Population genetics theory—the past and the future. (see **91k:92006**)
- Feldman, Marcus W. *see* Liberman, Uri, **91e:92013**
- Gillespie, John H. The molecular nature of allelic diversity for two models of balancing selection. **91h:92016**
- Griffiths, R. C. (with Watterson, G. A.) The number of alleles in multigene families. **91h:92017**
- Harnoe, L. E. (with Agur, Z.) The dynamics of gene amplification described as a multitype compartmental model and as a branching process. **91k:92023**
- Hastings, Alan Maintenance of polygenic variation through mutation-selection balance: bifurcation analysis of a biallelic model. **91f:92011**
- (Holsinger, Kent E.) *see* Liberman, Uri, **91e:92013**
- Karlin, Samuel Levels of multiallelic overdominance fitness, heterozygote excess and heterozygote deficiency. **91c:92037**
- Kimura, Motoo Some models of neutral evolution, compensatory evolution, and the shifting balance process. **91e:92012**
- Lange, Kenneth *see* Weeks, Daniel E., **91c:92039**
- Liberman, Uri (with Feldman, Marcus W.) The reduction principle for genetic modifiers of the migration rate. **91e:92013**
- (Logofet, D. O.) *see* Svirzhev, Yu. M., **91c:92038**
- Lyubich, Yu. I. The equilibrium laws and dynamic processes in population genetics. (see **91j:60004**)
- Nagylaki, Thomas The influence of spatial inhomogeneities on neutral models of geographical variation. I. Formulation. **91e:92014**
- (with Barclon, Victor) The influence of spatial inhomogeneities on neutral models of geographical variation. II. The semi-infinite linear habitat. **91e:92015**
- Models and approximations for random genetic drift. **91a:92005**
- Pasekov, V. P. An analog to Fisher fundamental theorem for a model of frequency and density dependent selection. **91h:92018**
- Pasekov, V. P. *see* Svirzhev, Yu. M., **91c:92038**
- Reynolds, John *see* Weir, B. S.; et al., **91d:92002**
- Saavedra Santana, Pedro (with Sánchez García, Miguel) A population process with offspring distribution depending on both population size and generation. **91h:92019**
- Sánchez García, Miguel *see* Saavedra Santana, Pedro, **91h:92019**
- Shimizu, Akinobu A measure valued diffusion process describing an n locus model incorporating gene conversion. **91m:92019**
- Svirzhev, Yu. M. (with Pasekov, V. P.) ★ Fundamentals of mathematical evolutionary genetics. **91c:92038**
- Tailh, Z. Branching processes and neutral mutations. **91k:92024**
- (Voinov, A. A.) *see* Svirzhev, Yu. M., **91c:92038**
- Wang, Shen Li Further studies on Wahlund's principle in population genetics. (Chinese. English summary) (Not in MR)
- Watterson, G. A. *see* Griffiths, R. C., **91h:92017**
- Weeks, Daniel E. (with Lange, Kenneth) Trials, tribulations, and triumphs of the EM algorithm in pedigree analysis. **91c:92039**
- Weir, B. S. (with Reynolds, John; Dodds, K. G.) The variance of sample heterozygosity. **91d:92002**
- Items with secondary classifications in 92D10
- Abramov, N. S. (with Bogolyubov, A. G.) ★ Экологические и генетические закономерности сосуществования и коэволюции видов. (Russian) [Ecological and genetic laws for the coexistence and coevolution of species] **91h:92030**
- Bogolyubov, A. G. *see* Abramov, N. S., **91h:92030**
- Chevalet, Claude (with Corpet, Florence; Micali, Artibano) Algèbres gamétiques et mutation. [Gametic algebras and mutation] **91f:17038**
- Corpet, Florence *see* Chevalet, Claude; et al., **91f:17038**
- Drolet, Suzanne (with Sankoff, David) Quadratic tree invariants for multivalued characters. **91c:92040**
- Finkelstein, Mark (with Tucker, Howard G.) A law of small numbers for a mutation process. **91a:60094**
- González, Santos (with Martínez, Consuelo) Idempotent elements in a Bernstein algebra. **91m:17048**
- Griffiths, R. C. Genealogical-tree probabilities in the infinitely-many-site model. **91m:60145**
- Hansen, Jennie C. A functional central limit theorem for the Ewens sampling formula. **91h:60027**
- Hentzel, Irvin Roy (with Peresi, Luiz Antonio; Holgate, Philip) On k th-order Bernstein algebras and stability at the $k+1$ generation in polyploids. **91k:17039**
- Holgate, Philip Some infinite-dimensional genetic algebras. **91j:17057**
- Algebras of genetic self-incompatibility systems. **91g:17046**
- *see also* Hentzel, Irvin Roy; et al., **91k:17039**
- Itatsu, Seichi Ergodic properties of the stepping stone model. **91d:60253**
- Kämmerle, K. Looking forwards and backwards in a bisexual Moran model. **91i:60185**
- (Lessard, Sabin) *see* Mathematical and statistical developments of evolutionary theory, **91k:92006**
- Liberman, Uri Mendelian segregation: a choice between "order" and "chaos". **91h:92020**
- Martinez, Consuelo *see* González, Santos, **91m:17048**
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NATO Advanced Study Institute:

Mathematical and Statistical Developments of Evolutionary Theory ★ Mathematical and statistical developments of evolutionary theory. 91k:92006

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NATO Advanced Study Institute:

Mathematical and Statistical Developments of Evolutionary Theory ★ Mathematical and statistical developments of evolutionary theory. 91k:92006

92D20 Protein sequences, DNA sequences

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92D25 Population dynamics (general)

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- Dishliev, A. B. see Bainov, D. D., **91i:92006** and **91k:92028**
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- A model of predator-prey dynamics as modified by the action of a parasite. **91c:92052**
- Guo, Hang see Chen, Ren Zhao, **91b:92022**
- Getz, Wayne M. see Bergh, Michael O., **91c:92043**
- Gheorghe, F. C. see Chijesca, Ion; et al., (Not in MR)
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- Guo, Bao Zhu see Chan, Wai Leung, **91b:92022**; **91b:92023** and **91c:92045**
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- Ito, Kazufumi see Michelson, Seth; et al., **91c:92059**
- Jiang, Ji Fa An algebraic criterion for the asymptotic behavior of a class of cooperative systems. (Chinese. English summary) **91c:92018**
- Kan-on, Y. see Mimura, Masayasu; et al., **91a:92009**
- Karakostas, George On a one-parameter family of delay population equations. **91b:92025a**
- Corrigendum: "On a one-parameter family of delay population equations". **91b:92025b**
- Khativa, U. see Yunusov, M. K., (Not in MR)
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- Koch, Giorgio see Bruni, C., **91f:92017**
- Kolesov, Ya. S. see Glyzin, S. D., **91c:92053**
- Komar, A. (with Roy, A. B.) Population drift and control of damping in a predator-prey system. (Not in MR)
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- Global stability of Gause-type predator-prey systems. **91c:92017**
- On neutral-delay two-species Lotka-Volterra competitive systems. **91m:92025**
- Kulenović, M. R. S. see Gopalsamy, K.; et al., **91f:92019** and **91f:92020**
- Ladas, G. see Gopalsamy, K.; et al., **91f:92019** and **91f:92020**
- Lefèvre, Claude see Krysio, Richard J., **91c:92058**
- Leith, John T. see Michelson, Seth; et al., **91c:92059**
- Li, Da Hua The periodic bifurcation solutions to a class of population distribution problems with periodic growth rates. (Chinese. English summary) **91b:92027**
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- see also Cushing, J. M., (Not in MR)
- Li, Lige (with Lloyd, M. R.) A numerical behavior of positive solutions to elliptic predator-prey systems over large regions. **91a:92008**
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- Murrell, H. C. see Swart, J. H., **91m:92028**

- Marty, Kanuri Narasimha (with Srinivas, M. A. S.; Prasad, K. R.) On the use of the quasilinearization method in the growth of a pathogenic bacteria. 91c:92061
- Myerson, Roger B. (with Pollock, Gregory B.; Swinkels, Jeroen M.) Viscous population equilibria. (Not in MR)
- Ni, Ming Kang Existence of periodic solutions for high-dimensional prey-predator models. (Chinese. English summary) 91c:92062
- Nishijima, Yasumasa see Mimura, Masayasu; et al. 91a:92009
- Nutku, Y. Hamiltonian structure of the Lotka-Volterra equations. 91c:92020
- Obreja, George see Chifescu, Ion; et al. (Not in MR)
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- Pereira Torres, A. see Aleksandrov, V. V. (Not in MR)
- Perelson, Alan S. see Segel, Lee A. 91m:92026 and 91m:92027
- Pollak, Edward The effective population size of an age-structured population with a sex-linked locus. (Not in MR)
- Pollock, Gregory B. see Myerson, Roger B.; et al. (Not in MR)
- Prasad, K. R. see Marty, Kanuri Narasimha; et al. 91c:92061
- Rieger, H. Solvable model of a complex ecosystem with randomly interacting species. 91c:92063
- de Roos, André Marc Numerical methods for structured population models: the escalator boxcar train. 91b:92028
- Errata: "Numerical methods for structured population models: the escalator boxcar train". 91b:92028b
- Rose, Francis L. see Allen, Linda J. S.; et al. 91c:92013
- Roset, I. G. see Buriev, T. I.; et al. 91c:92044
- Roy, A. B. see Sarkar, A. K. 91c:92064; Mukherjee, Debasis, 91i:92007 and Konar, A. (Not in MR)
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- Sarkar, A. K. (with Roy, A. B.) Asymptotic behavior of solutions of a donor-recipient system. 91c:92064
- Scheuring, István see Szathmáry, E.; et al. 91c:92021
- Segel, Lee A. (with Perelson, Alan S.) Some reflections on memory in shape space. 91m:92027
- (with Perelson, Alan S.) A paradoxical instability caused by relatively short-range inhibition. 91m:92026
- Selgrade, James F. see Muñoz, Eduardo M. 91c:92030
- Shi, De Ming see Yu, Jing Yuan; et al. 91f:92024
- Shigesada, Nanako On the spatial distributions of dispersing animals. (see 91c:60002)
- Sirenko, I. P. see Kosman, E. G. (Not in MR)
- Sleeman, B. D. Spatio-temporal complexity in biological systems. 91c:92065
- Complexity in biological systems and Hamiltonian dynamics. 91b:92031
- Smith, Hal L. Competing subcommunities of mutualists. 91b:92032
- So, Joseph W.-H. see Freedman, H. I.; et al. 91b:92026 and Hofbauer, Josef, 91g:92016
- Solmann, F. see Beretta, Eduardo; et al. 91f:92014
- Song, Jian Population control. (Chinese. English summary) 91c:92066
- Sonis, Michael see Dendrinos, Dimitrios S. 91m:92024
- Sridhara, Rajeshwari (with Watson, Ray) Stochastic three species systems. 91b:92034
- Srinivas, M. A. S. see Murty, Kanuri Narasimha; et al. 91c:92061
- Stene, William D. A chemostat with adsorption. 91a:92010
- Sun, Ji Fang Chaotic behavior for solutions of logistic and Lotka-Volterra equations with Dirac comb. (Chinese. English summary) 91b:92035
- Swart, J. H. (with Murrell, H. C.) A model of age-dependent population dynamics providing simple criteria for growth or extinction. 91m:92028
- Swinkels, Jeroen M. see Myerson, Roger B.; et al. (Not in MR)
- Szathmáry, E. (with Kotsis, M.; Scheuring, István) Limits of hyperbolic growth and selection in molecular and biological populations. 91c:92021
- Takát, Peter see Hardin, D. P.; et al. 91b:92027
- Tang, Feng Zhi A multiple-district migrating population evolution system. (Chinese. English summary) 91g:92018
- Tanushiev, M. S. see Yakovlev, A. Yu.; et al. (91j:60004)
- Tavard, Simon see Donnelly, Peter, (91j:60004)
- Teng, Zhi Dong (with Duan, Kui Chen) Persistence of three-species ecosystems. (Chinese. English summary) 91f:92023
- Tokis, I. B. (with Kornikov, V. V.) Current questions in the theory of controlling living systems. (Russian) 91c:92067
- Tran, Hien see Michelson, Seth; et al. 91c:92059
- Tucker, Susan L. (with Zimmerman, Stuart O.) The relationship between cell loss and recruitment for stable age-structured populations of cycling and noncycling cells. 91c:92068
- Vance, Richard R. A general dynamical model of one consumer-one resource interactions. 91c:92036
- Population growth in a time-varying environment. 91c:92069
- Vera R., Carmen Elena Population-dynamical systems and approximate realizations. 91g:92019
- Voselova, E. V. see Kir'yanov, A. I. 91f:92022
- Wake, G. C. see Hall, A. J. 91c:92055
- Waltman, Paul see Freedman, H. I.; et al. 91b:92026
- Wang, Wen Di see Ma, Zhi En; et al. (Not in MR)
- Wang, Yu Quan The limit cycles and the global stability of equilibrium points for a class of predator-prey models with Holling's type I functional response. (Chinese. English summary) 91c:92070
- Global stability of a class of Gilpin-Ayala models. (Chinese. English summary) 91c:92071
- Watson, Ray see Sridhara, Rajeshwari, 91b:92034
- Webb, G. F. see Hardin, D. P.; et al. 91b:92027
- Witten, M. see Hirsch, H. R. 91c:92056
- Wolkowicz, Gall S. K. see Mischalkow, Konstantin, 91c:92060
- Wolkowicz, David J. see Collings, John B. 91c:92047
- Xu, Wen Ke see Chen, Hua Hao, 91b:92024
- Yakovlev, A. Yu. (with Tanushev, M. S.; Yanev, N. M.) Bellman-Harris branching processes and distributions of marks in proliferating cell populations. (see 91j:60004)
- Yanev, N. M. see Yakovlev, A. Yu.; et al. (91j:60004)
- Yang, Qing Zhong see Zhu, Gang; et al. (Not in MR)
- Yang, Zhi Ping On a reaction diffusion system of competing predators. 91m:92029
- Yu, Jing Yuan (with Shi, De Ming; Zheng, Shi Bin; Zhu, Guang Tian) Dynamics of parity progressive population. 91f:92024
- Yunusov, M. K. (with Khaitova, U.) An integro-differential problem connected with the "predator-prey" system. (Russian. Tajiki summary) (Not in MR)
- Zhang, Jiang Shan The limit cycles of a class of Kolmogorov equations for two interacting species. (Chinese. English summary) 91c:92072
- Zhang, Lian Ping Population operators defined on $L^2(0, r_2)$. (Chinese. English summary) 91b:92033
- Zheng, Shi Bin see Yu, Jing Yuan; et al. 91f:92024
- Zhu, Gang (with Hu, Qi Di; Yang, Qing Zhong) Optimal control of population systems with migration. (Chinese. English summary) (Not in MR)
- Zhu, Guang Tian see Yu, Jing Yuan; et al. 91f:92024
- Zhu, Guo Bao see Chan, Wai Leung, 91b:92021
- Zimmerman, Stuart O. see Tucker, Susan L. 91c:92068
- Items listed otherwise than by author
- Modeling population dynamics ★ Моделирование динамики популяций. (Russian) [Modeling population dynamics] 91i:92008
- Items with secondary classifications in 92D25
- Adler, Frederick R. see Levin, Simon A.; et al. 91b:92020
- Aiello, Walter G. The existence of nonoscillatory solutions to a generalized, nonautonomous, delay logistic equation. 91b:34109
- (with Freedman, H. I.) A time-delay model of single-species growth with stage structure. 91f:92030
- Aihara, Takashi see Satoh, Kazuhiro, 91c:58102
- Anisichik, S. V. (with Liselkin, V. D.) Numerical solution of a singularly perturbed problem that models diffusion-drift motion. (Russian) 91c:65078
- Artzrouni, Marc (with Reneke, James A.) Stochastic differential equations in mathematical demography: a review. 91c:92111
- (with Reneke, James A.) Stochastic differential equations in mathematical demography: a review. 91b:92048
- Asachenkov, A. L. (with Sobolev, B. G.; Yashin, A. I.) ★ Математическое моделирование течения онкологического заболевания. (Russian) [Mathematical modeling of the course of a cancer] 91c:92030
- Bailey, Norman T. J. ★ The elements of stochastic processes with applications to the natural sciences. 91b:60001
- Bazhenov, M. V. (with Goryachenko, V. D.) A study of the stability of a self-coupled system with delays. (Russian) 91c:34099
- Borzi, C. (with Frisch, H. L.; Gianotti, R.; Percus, J. K.) Inverse solution for some travelling-wave reaction-diffusion problems. 91b:35201
- Brauer, Fred Some infectious disease models with population dynamics and general contact rates. 91g:92021
- Chao, Lien Chih (with Li, Shén Ming) Estimating the number of unseen species with frequency counts. 91m:62185
- Chaudhuri, Kripasidhu see Roy, A. B.; et al. 91c:92088
- Chen, Ren Zhao (with Xing, Zhao Yun) The existence and uniqueness of solutions to a class of nonlinear time-varying equations of population evolution. (Chinese. English summary) 91d:35100
- Christiansen, Freddy Bugge Selection in natural populations. (see 91c:92006)
- Clark, Colin W. ★ Mathematical bioeconomics. 91c:90037
- Cosner, Chris Eigenvalue problems with indefinite weights and reaction-diffusion models in population dynamics. (see 91b:35006)
- Crawford, Vincent P. On the definition of an evolutionarily stable strategy in the "playing the field" model. 91b:92044
- Dancer, E. N. On the existence and uniqueness of positive solutions for competing species models with diffusion. 91b:35122
- Dekking, F. M. A nonlinear evolution with travelling waves. 91b:60214
- Di Lena, Giovanni (with Messano, B.; Zitarosa, A.) On the generalized successive approximations method. 91g:65114
- Dimentberg, M. F. ★ Случайные процессы в динамических системах с переменными параметрами. (Russian) [Random processes in dynamical systems with variable parameters] 91g:70022
- Donnelly, Peter (with Whitt, Ward) On reinforcement-depletion compartmental urn models. 91d:60216
- Dwivedi, Sada Nand see Pandey, Arvind; et al. (Not in MR)
- Edelstein-Keshet, Leah Plant-herbivore systems. 91b:92037
- Elliott, Robert James Filtering for a logistic equation. 91i:94012
- Ewens, W. J. Population genetics theory—the past and the future. (see 91k:92006)
- Fernaudes, M. Lourdes C. Uniform repellers for processes with applications to periodic differential systems. 91g:58165
- Fink, A. M. A Tauberian approach to asymptotic stability of competition equations. 91a:44001
- A two-dimensional Opial theorem and a predator-prey model. 91b:34060
- Finkelstein, Mark (with Tucker, Howard G.; Veeh, Jerry Alan) The limit distribution of the number of rare mutants. 91m:60158
- Fox, Ronald F. Master equation for the logistic map. 91b:82039
- Freedman, H. I. see Hader, K. P., 91b:92036 and Aiello, Walter G., 91b:92030
- Frisch, H. L. see Borzi, C.; et al. 91b:35201
- Gao, Hang Regular generalized solutions to a class of systems of integro-partial differential equations in vector form. (Chinese. English summary) 91b:45020
- Gerontidis, Ioannis I. On certain aspects of nonhomogeneous Markov systems in continuous time. 91f:60181
- Gianetti, R. see Borzi, C.; et al. 91b:35201
- Glass, Leon see Zeng, Wan Zhen, 91g:58070

- Gopalsamy, K. Stability criteria for the linear system $\dot{X}(t) + A(t)X(t - \tau) = 0$ and an application to a nonlinear system. **91b:34121**
- (with Kulenović, M. R. S.; Ladas, G.) Oscillations of a system of delay logistic equations. **91b:34112**
- see also Zhang, Bing Gen, **91b:34125** and **91b:34120**
- Goryachenko, V. D. see Bazhenov, M. V., **91f:34099**
- Grabosch, A. (with Heijmans, H. J. A. M.) Cauchy problems with state-dependent time evolution. **91b:34074**
- Grammaticos, B. (with Moulin Ollagnier, Jean; Ramani, A.; Strelcyn, J.-M.; Rauch-Wojciechowski, Stefan) Integrals of quadratic ordinary differential equations in \mathbb{R}^3 : the Lotka-Volterra system. **91b:58214**
- Gyllenberg, Mats (with Webb, G. F.) A nonlinear structured population model of tumor growth with quiescence. **91k:92017**
- Györi, István Oscillation and comparison results in neutral differential equations and their applications to the delay logistic equation. **91a:34053**
- Hadeler, K. P. (with Freedman, H. I.) Predator-prey populations with parasitic infection. **91b:92036**
- Hanson, Floyd B. Singular point and exponential asymptotics. **91d:34054**
- Heijmans, H. J. A. M. see Grabosch, A., **91b:34074**
- Hoem, Jan M. Identifiability in hazard models with unobserved heterogeneity: the compatibility of two apparently contradictory results. **91g:62086**
- Horbach, Katarzyna Asymptotic stability of dynamical systems with multiplicative perturbations. **91b:58119**
- Hosono, Yuzo see Nilizeki, Syôzô, **91a:35100**
- Hu, Shi Geng Type K monotone systems with a first integral. (Chinese. English summary) **91i:58117**
- Huang, Jian Jun Bifurcation of steady-state solutions in predator-prey systems. (Chinese. English summary) **91k:35035**
- Huang, Qing* (with Ma, Zhi En) On stability of some transcendental equations. **91f:34100**
- Ibrava, L. K. Local-equilibrium models of population movement. (Russian. Kazakh summary) (Not in MR)
- Ito, Kazufumi (with Kappel, Franz; Salamon, Dietmar) A variational approach to approximation of delay systems. **91m:47056**
- Jiang, Ji Fa On the existence and uniqueness of connecting orbits for two- and three-dimensional cooperative systems. (Chinese summary) **91f:58074**
- On the asymptotic behavior of a class of nonlinear differential equation. **91f:58118**
- Kappel, Franz see Ito, Kazufumi; et al., **91m:47056**
- Katori, Makoto (with Konno, Norio) Correlation inequalities and lower bounds for the critical value λ_c of contact processes. **91b:60114**
- Kersner, Robert (with de Mottoni, Piero) Support properties of nonnegative solutions of a degenerate logistic equation. **91f:35149**
- Konno, Norio see Katori, Makoto, **91b:60114**
- Kostova, T. V. (with Marcheva, M.) Numerical solutions to the Gurtin-MacCamy equation. **91e:65158**
- Kulenović, M. R. S. see Gopalsamy, K.; et al., **91b:34112**
- Ladas, G. see Gopalsamy, K.; et al., **91b:34112**
- Lakô, Nela Existence of steady-state solutions for a one-predator-two-prey system. **91f:35114**
- Langlais, Michel Asymptotic behaviour in some evolution equations arising in population dynamics. **91m:35109**
- (Lessard, Sabin) see Mathematical and statistical developments of evolutionary theory, **91f:92006**
- Levin, Simon A. (with Segel, Lee A.; Adler, Frederick R.) Diffuse coevolution in plant-herbivore communities. **91b:92020**
- Li, Li Ming Periodic solutions for a class of higher-dimensional nonautonomous systems. (Chinese. English summary) **91b:34070**
- Li, Lige Global positive coexistence of a nonlinear elliptic biological interacting model. **91a:35066**
- Li, Shên Ming see Chao, Lien Chû, **91m:62185**
- Lindström, Torsten A generalized uniqueness theorem for limit cycles in a predator-prey system. **91b:92038**
- Liseikin, V. D. see Anishchik, S. V., **91c:65078**
- (Logofet, D. O.) see Svirezhev, Yu. M., **91c:92038**
- López-Gómez, Julián (with Pardo, Rosa) Multiparameter nonlinear eigenvalue problems: positive solutions to elliptic Lotka-Volterra systems. **91c:35059**
- Ma, Zhi En see Huang, Qing*, **91f:34100**
- Marcheva, M. see Kostova, T. V., **91e:65158**
- Messano, B. see Di Lena, Giovanni; et al., **91g:65114**
- Mishra, Ravindra Nath see Pandey, Arvind; et al., (Not in MR)
- Mkhitarian, K. N. (with Pavlotskii, I. P.) Statistical models of ecological systems that are given by the Volterra equations. (Russian) **91c:92006**
- Moreira, Helmar Nunes On Liénard's equation and the uniqueness of limit cycles in predator-prey systems. **91c:92087**
- de Mottoni, Piero see Kersner, Robert, **91f:35149**
- Moulin Ollagnier, Jean see Grammaticos, B.; et al., **91b:58214**
- (Munro, Gordon R.) see Clark, Colin W., **91c:90037**
- Nachbar, John H. "Evolutionary" selection dynamics in games: convergence and limit properties. **91c:90127**
- Nagasawa, Masao A statistical model of segregation of a population. (see **91j:92001**)
- Nilizeki, Syôzô (with Hosono, Yuzo) Asymptotic behaviour of solutions for some competition model with migration effect. **91a:35100**
- Existence and stability of travelling wave solutions of competition models with migration effects. **91a:35101**
- Orlov, V. N. Macrodynamic equations and description of large scale system. **91c:93003**
- Pandey, Arvind (with Dwivedi, Sada Nand; Mishra, Ravindra Nath) Distribution of closed birth intervals with some biosocial components: a stochastic model and its application. (Not in MR)
- Pandey, Rama Kant see Saleem, M., **91b:92039**
- Pardo, Rosa see López-Gómez, Julián, **91c:35059**
- Passekov, V. P. see Svirezhev, Yu. M., **91c:92038**
- Pavlotskii, I. P. see Mkhitarian, K. N., **91c:92006**
- Percus, J. K. see Borzi, C.; et al., **91c:35201**
- Pilant, Michael S. (with Rundell, William) Determining a coefficient in a first-order hyperbolic equation. **91m:35242**
- Quan, Hong Shun Global stability of a three-dimensional Lotka-Volterra cooperative system. (Chinese. English summary) **91m:34065**
- Ramani, A. see Grammaticos, B.; et al., **91b:58214**
- Rauch-Wojciechowski, Stefan see Grammaticos, B.; et al., **91b:58214**
- Reneke, James A. see Artzrouni, Marc, **91c:92111** and **91b:92048**
- Roy, A. B. (with Sikder, A.; Chaudhuri, Kripasindhu) Stability and persistence in branched trophic chains with material cycling. **91c:92088**
- Rundell, William see Pilant, Michael S., **91m:35242**
- Salamon, Dietmar see Ito, Kazufumi; et al., **91m:47056**
- Saleem, M. (with Pandey, Rama Kant) Some more results in young predation. **91b:92039**
- Sato, Kazuhiro (with Aihara, Takashi) Numerical study on a coupled-logistic map as a simple model for a predator-prey system. **91c:58102**
- Segel, Lee A. see Levin, Simon A.; et al., **91b:92020**
- Sikder, A. see Roy, A. B.; et al., **91c:92088**
- Sobolev, B. G. see Asachenkov, A. L.; et al., **91c:92030**
- Somolinos, Alfredo Cascades of bifurcations and chaos. (Spanish) **91c:58083**
- Stirzaker, D. Divergent growth processes. **91b:60215**
- Strelcyn, J.-M. see Grammaticos, B.; et al., **91b:58214**
- Sun, Ju Jiang see Zhu, Zhi, **91c:35105**
- Svirezhev, Yu. M. (with Passekov, V. P.) ★ Fundamentals of mathematical evolutionary genetics. **91c:92038**
- Takasugi, Yasuhiro Conflict between the need to forage and the need to avoid competition: persistence of two-species model. **91c:92089**
- Torrejón, Ricardo A note on a nonlinear integral equation from the theory of epidemics. **91c:92079**
- Tucker, Howard G. see Finkelstein, Mark; et al., **91m:60158**
- Vaupel, James W. Relatives' risks: frailty models of life history data. **91k:92021**
- Veeh, Jerry Alan see Finkelstein, Mark; et al., **91m:60158**
- (Voinov, A. A.) see Svirezhev, Yu. M., **91c:92038**
- Vuillermot, Pierre-A. Attracteurs presque-périodiques pour une classe d'équations paraboliques non linéaires du type réaction-diffusion sur \mathbb{R}^N . (English summary) [Almost-periodic attractors for a class of nonlinear parabolic reaction-diffusion equations in \mathbb{R}^N] **91k:35129**
- Wang, Shen Li Further studies on Wahlund's principle in population genetics. (Chinese. English summary) (Not in MR)
- Webb, G. F. see Gyllenberg, Mats, **91k:92017**
- Whitt, Ward see Donnelly, Peter, **91b:60216**
- Wu, Xia Yuan A numerical method for fitting the logistic curve. (Chinese. English summary) **91b:65021**
- Xing, Zhao Yun see Chen, Ren Zhao, **91d:35100**
- Yashin, A. I. see Asachenkov, A. L.; et al., **91c:92030**
- Ycart, Bernard A characteristic property of linear growth birth and death processes. **91g:60102**
- Yodzis, Peter ★ Introduction to theoretical ecology. **91k:92042**
- Zeng, Wan Zhen (with Glass, Leon) Symbolic dynamics and skeletons of circle maps. **91g:58070**
- Zhang, Bing Gen (with Gopalsamy, K.) Global attractivity and oscillations in a periodic delay-logistic equation. **91b:34120**
- (with Gopalsamy, K.) Global attractivity in the delay logistic equation with variable parameters. **91b:34125**
- Zhu, Zhi (with Sun, Ju Jiang) Stability of a reaction-diffusion system of equations for a class of competitor-competition-mutualist models. (Chinese. English summary) **91c:35105**
- Zitarosa, A. see Di Lena, Giovanni; et al., **91g:65114**
- Items listed otherwise than by author
- Mathematical and statistical developments of evolutionary theory ★ Mathematical and statistical developments of evolutionary theory. **91k:92006**
- Montreal, PQ ★ Mathematical and statistical developments of evolutionary theory. **91k:92006**
- NATO Advanced Study Institute: Mathematical and Statistical Developments of Evolutionary Theory ★ Mathematical and statistical developments of evolutionary theory. **91k:92006**

92D30 Epidemiology

- Becker, Nikolaus (with Rittgen, Werner) Some mathematical properties of cumulative damage models regarding their application in cancer epidemiology. **91c:92073**
- Beretta, Edoardo (with Capasso, V.) Global stability results for a multigroup SIR epidemic model. **91c:92074**
- Bernardi, Marco Luigi (with Capelo, António Candido) Some results on various control problems deriving from cancer chemotherapy. (Italian summary) **91m:92030**
- Blanchard, Philippe (with Bolz, Georg F.; Krüger, Tyl) Mathematical modelling on random graphs of the spread of sexually transmitted diseases with emphasis on the HIV infection. **91g:92020**
- Bolz, Georg F. Simulation on random graphs of the epidemic dynamics of sexually transmitted diseases—a new model for the epidemiology of AIDS. **91b:92034**
- see also Blanchard, Philippe; et al., **91g:92020**
- Brauer, Fred Some infectious disease models with population dynamics and general contact rates. **91g:92021**
- Models for the spread of universally fatal diseases. **91f:92025**
- Stability of equilibria in some infectious disease models. (see **91m:00031**)
- Busenberg, Stavros (with Cooke, Kenneth L.; Iannelli, Mimmo) Stability and thresholds in some age-structured epidemics. **91c:92076**
- (with van den Driessche, P.) Analysis of a disease transmission model in a population with varying size. **91c:92075**

- Cairns, Andrew J. G. Epidemics in heterogeneous populations: aspects of optimal vaccination policies. **91f:92026**
- Epidemics in heterogeneous populations. II. Nonexponential incubation periods and variable infectiousness. (Not in MR)
- Capasso, V. *see* Beretta, Edoardo, **91c:92074**
- Capeio, António Cândido *see* Bernardi, Marco Luigi, **91m:92030**
- Castillo-Chavez, Carlos (with Cooke, Kenneth L.; Huang, Wen Zhang; Levin, Simon A.) On the role of long incubation periods in the dynamics of acquired immunodeficiency syndrome (AIDS). I. Single population models. **91b:92035**
- Cheng, Hong (with Wang, Fu Jun) A class of communicable disease models with nonlinear contact rate and infection effect. (Chinese. English summary) **91m:92031**
- Cooke, Kenneth L. *see* Castillo-Chavez, Carlos; et al., **91b:92035** and **Busenberg, Stavros; et al.**, **91c:92076**
- van den Driessche, P. *see* Busenberg, Stavros, **91c:92075**
- Freedman, H. I. *see* Hader, K. P., **91b:92036**
- Funakoshi, Hiroumi (with Yamada, Akio) Theory of cell age distribution in suspension culture with feed and/or drain. **91g:92022**
- Gani, Joseph Mark (with Michaelitzky, Gy.) A carrier-borne epidemic with multiple stages of infection. **91m:92032**
- *see also* Yakowitz, S.; et al., (Not in MR)
- Greenhalgh, David Vaccination campaigns for common childhood diseases. **91f:92009**
- Guo, Da Jun (with Lakshmikantham, V.) Positive solutions of nonlinear integral equations arising in infectious diseases. **91a:92011**
- Hader, K. P. (with Freedman, H. I.) Predator-prey populations with parasitic infection. **91b:92036**
- (with Ngoma, K.) Homogeneous models for sexually transmitted diseases. **91m:92033**
- Hayes, R. *see* Yakowitz, S.; et al., (Not in MR)
- Huang, Wen Zhang *see* Castillo-Chavez, Carlos; et al., **91b:92035**
- Iannelli, Mimmo *see* Busenberg, Stavros; et al., **91c:92076**
- Inaba, Hisashi Threshold and stability results for an age-structured epidemic model. **91g:92023**
- José, Marco V. On the solution of mathematical models of herd immunity in human helminth infections. **91a:92012**
- Kröger, Tyll *see* Blanchard, Philippe; et al., **91g:92020**
- Krysio, Richard J. *see* Malice, Marie-Pierre, **91b:92038**
- Lakshmikantham, V. *see* Guo, Da Jun, **91a:92011**
- Lefevre, Claude *see* Picard, Philippe, **91f:92028**
- Levin, Simon A. *see* Castillo-Chavez, Carlos; et al., **91b:92035**
- Liu, Nan Gen (with Wu, Jian Hong) Qualitative analysis of a model of transmission dynamics of Japanese schistosomiasis in easily infected regions. (Chinese. English summary) **91h:92029**
- Liu, Wei Min Mathematical models of infectious diseases in multiple populations. **91h:92037**
- Longini, Ira M., Jr. The generalized discrete-time epidemic model with immunity. (*see* **91j:92004**)
- Ma, Ru Yan Uniqueness of the nonzero solution of a nonlinear integral equation modeling infectious disease. (Chinese. English summary) **91m:92034**
- MacCamy, Richard C. (with Meade, Douglas B.) An epidemic model with directed diffusion. **91f:92027**
- Malice, Marie-Pierre (with Krysio, Richard J.) On the role of variable incubation periods in simple epidemic models. **91b:92038**
- Meade, Douglas B. *see* MacCamy, Richard C., **91f:92027**
- Michaelitzky, Gy. *see* Gani, Joseph Mark, **91m:92032**
- Ngoma, K. *see* Hader, K. P., **91m:92033**
- Nutka, Y. Bi-Hamiltonian structure of the Kermack-McKendrick model for epidemics. (Not in MR)
- Picard, Philippe (with Lefevre, Claude) A unified analysis of the final size and severity distribution in collective Reed-Frost epidemic processes. **91f:92028**
- Pinsky, Paul (with Shonkwiler, R.) A gonorrhea model treating sensitive and resistant strains in a multigroup population. **91c:92077**
- Rinaldi, F. Global stability results for epidemic models with latent period. (Not in MR)
- Rittgen, Werner *see* Becker, Nikolaus, **91c:92073**
- Rodnikovskii, V. B. A probabilistic model of infection in an epidemic process. (Russian) (*see* **91j:60001**)
- Sewyer, Stanley Maximum likelihood estimators for incorrect models, with an application to ascertainment bias for continuous characters. (Not in MR)
- Schwartz, Ira B. Nonlinear dynamics of seasonally driven epidemic models. **91c:92078**
- Shonkwiler, R. *see* Pinsky, Paul, **91c:92077**
- Tan, W. Y. Some general stochastic models for the spread of AIDS and some simulation results. (Not in MR)
- Torresón, Ricardo A note on a nonlinear integral equation from the theory of epidemics. **91c:92079**
- Voit, Eberhard O. S-system modelling of endemic infections. **91f:92029**
- Wang, Fu Jun *see* Cheng, Hong, **91m:92031**
- Wirths, H.-P. A new statistical method for mixed variates analysis in epidemiological research. (German summary) **91c:92000**
- Wu, Jian Hong *see* Liu, Nan Gen, **91h:92029**
- Yakowitz, S. (with Gani, Joseph Mark; Hayes, R.) Cellular automaton modeling of epidemics. (Not in MR)
- Yamada, Akio *see* Funakoshi, Hiroumi, **91g:92022**
- Yip, Paul Inference on a fatal disease. (Not in MR)
- Items with secondary classifications in 92D30
- Cantrell, Robert Stephen (with Cosner, Chris) On the uniqueness and stability of positive solutions in the Lotka-Volterra competition model with diffusion. **91g:35140**
- Capasso, V. (with Thieme, Horst R.) A threshold theorem for a reaction-diffusion epidemic system. **91d:35113**
- Cosner, Chris *see* Cantrell, Robert Stephen, **91g:35140**
- Fink, A. M. (with Gatica, Juan A.) Positive almost periodic solutions of some delay integral equations. **91g:45013**
- Gatica, Juan A. *see* Fink, A. M., **91g:45013**
- Greenland, Sander *see* Robins, James M., **91a:62288**
- Krysio, Richard J. (with Lefevre, Claude) On the extinction of the S-I-S stochastic logistic epidemic. **91c:92058**
- Lefevre, Claude *see* Krysio, Richard J., **91c:92058**
- Manton, Kenneth G. Mathematical models for chronic disease epidemiology. (*see* **91j:60004**)
- Robins, James M. (with Greenland, Sander) The probability of causation under a stochastic model for individual risk. (French summary) **91a:62288**
- Thieme, Horst R. *see* Capasso, V., **91d:35113**
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- Abrorov, N. S. (with Bogolyubov, A. G.) ★ Экологические и генетические закономерности сосуществования и коэволюции видов. (Russian) [Ecological and genetic laws for the coexistence and coevolution of species] **91h:92030**
- Alellio, Walter G. (with Freedman, H. I.) A time-delay model of single-species growth with stage structure. **91f:92030**
- Aloyan, A. E. *see* Marchuk, G. I., **91m:92038**
- Antonelli, Peter L. (with Lin, Xiao Dong) Bifurcation analysis on a coral-starfish model. **91i:92010**
- A brief introduction to Volterra-Hamilton theory in ecological modelling. (Not in MR)
- Bazykin, A. D. Theoretic and mathematical ecology: a problem of dangerous boundaries and criteria for approximating it. (Russian) (*see* **91f:00015**)
- Belyaev, V. I. (with Kondurorova, N. V.) ★ Математическое моделирование экологических систем шельфа. (Russian) [Mathematical modeling of ecological shelf systems] **91d:92004**
- Bogolyubov, A. G. *see* Abrorov, N. S., **91h:92030**
- Bojadziev, George Optimal control of a resource consumption model. (*see* **91f:90005**)
- Botteron, Bernard (with Dacorogna, Bernard) Existence and nonexistence results for noncoercive variational problems and applications in ecology. **91c:92081**
- Briand, Frédéric *see* Cohen, Joel E.; et al., **91f:92031**
- Cao, Xian Tong Nonconstant periodic solutions in predator-prey systems with strong continuous time delay. (Chinese. English summary) **91h:92031**
- Castillo-Chavez, Carlos *see* Levin, Simon A., (91b:92036)
- Chaudhuri, Kripasindhu *see* Roy, A. B.; et al., **91c:92088**
- Chen, Sui Yang (with Guo, Ben Yu) A discrete model with interaction between the budworm and its predator in a circular region. **91a:92013**
- Chukwu, E. N. The time optimal control theory of functional-differential equations applicable to mathematical ecology. **91a:92014**
- Cohen, Dan ESS in habitat selection in structured populations and in ecological communities. I. **91a:92015**
- (with Levin, Simon A.) Dispersal in patchy environments: the effects of temporal and spatial structure. (Not in MR)
- Cohen, Joel E. (with Briand, Frédéric; Newman, Charles M.) ★ Community food webs. **91f:92031**
- Crawford, Vincent P. Nash equilibrium and evolutionary stability in large- and finite-population "playing the field" models. **91c:92082**
- Dacorogna, Bernard *see* Botteron, Bernard, **91c:92081**
- Dennis, Brian Allee effects: population growth, critical density, and the chance of extinction. **91h:92032**
- Drake, James A. Models of community assembly and the structure of ecological landscapes. **91a:92016**
- Duan, Kui Chen *see* Teng, Zhi Dong, **91c:92090**
- Edelstein-Keshet, Leah Plant-herbivore systems. **91b:92037**
- Evers, E. *see* de Roos, André Marc; et al., **91f:92033**
- Freedman, H. I. (with Takeuchi, Yasuhiro) Predator survival versus extinction as a function of dispersal in a predator-prey model with patchy environment. **91m:92035**
- (with Shukla, J. B.) The effect of a predator resource on a diffusive predator prey system. **91h:92033**
- *see also* Alellio, Walter G., **91f:92030**
- Garlauskas, Algis (with Kovarskaya, Sofiya) Basis for a mathematical model for an ecosystem taking into account generalizations. (Russian. English and Lithuanian summaries) (*see* **91c:92001**)
- Garnaev, A. Yu. Optimal policies in a nonlinear bioeconomic model of eutrophication. **91c:92039**
- Gerstmann, I. *see* Hader, K. P., **91j:92011**
- (Gockert, Dieter) *see* Metzler, Wolfgang, **91c:92085**
- Gopalsamy, K. (with Kulenović, M. R. S.; Ladas, G.) On a logistic equation with piecewise constant arguments. **91m:92036**
- Gu, Dao Xiu Limit cycles of a class of ecological systems. (Chinese. English summary) **91c:92083**
- Guo, Ben Yu *see* Chen, Sui Yang, **91a:92013**
- Hader, K. P. (with Gerstmann, I.) The discrete Rosenzweig model. **91j:92011**
- Hofbauer, Josef Saturated equilibria, permanence, and stability for ecological systems. **91f:92032**
- Hu, Shi Geng Asymptotic properties of dynamical systems of competing species. (Chinese. English summary) **91h:92034**
- Huang, Xun Cheng Limit cycles in a Kolmogorov-type model. **91i:92011**
- Il'ichev, V. G. Adaptation of parameters in models of ecological systems. (Not in MR)
- Jiang, Dong Ping Some periodic ecological models with grazing rates. (Chinese. English summary) **91g:92024**
- Kawasaki, Kohkichi *see* Shigesada, Nanako; et al., **91c:92022**
- Kolesov, A. Yu. Generation of a cycle from the contraction of trajectories in a medium with diffusion. (Russian. English and Lithuanian summaries) (*see* **91c:92001**)
- Kolesov, Yu. S. Analysis of a mathematical model in ecology. (Not in MR)
- Kondurorova, N. V. *see* Belyaev, V. I., **91d:92004**
- Kovarskaya, Sofiya *see* Garlauskas, Algis, (91c:92001)
- Kulenović, M. R. S. *see* Gopalsamy, K.; et al., **91m:92036**
- Ladas, G. *see* Gopalsamy, K.; et al., **91m:92036**

- Leipoldt, A. *see de Roos, André Marc; et al.*, 91f:92033
- Levin, Simon A. (with Castillo-Chavez, Carlos) Topics in evolutionary ecology. (see 91f:92006)
- *see also* Cohen, Dan, (Not in MR)
- Li, Chuan Rong Global stability and existence and uniqueness of limit cycles for a class of ecological systems. (Chinese. English summary) 91k:92040
- Limik, N. A class of nonlinear compartmental models. 91m:92037
- Lin, Xiao Dong *see Antonelli, Peter L.*, 91i:92010
- Lindström, Torsten A generalized uniqueness theorem for limit cycles in a predator-prey system. 91b:92038
- Lui, Roger Asymptotic behavior of solutions to an evolutionary ecology model with diffusion. 91k:92041
- Maller, Ross A. *see Pakes, Anthony G.*, 91i:92012
- Mangel, Marc A dynamic habitat selection game. 91c:92084
- Marchuk, G. I. (with Aloyan, A. E.) ★ Математическое моделирование в задачах экологии. (Russian) [Mathematical modeling in problems in ecology] 91m:92038
- Metz, J. A. J. *see de Roos, André Marc; et al.*, 91f:92033
- Metzler, Wolfgang ★ Dynamische Systeme in der Ökologie. (German) [Dynamical systems in ecology] 91c:92085
- Mischakow, Konstantin (with Wolkowicz, Gail S. K.) A predator-prey system involving group defense: a connection matrix approach. 91j:92012
- Mkhitarian, K. N. (with Pavlotskii, I. P.) Statistical models of ecological systems that are given by the Volterra equations. (Russian) 91c:92086
- Moreira, Helmar Nunes On Liénard's equation and the uniqueness of limit cycles in predator-prey systems. 91c:92087
- Munro, Gordon R. The optimal management of transboundary fisheries: game-theoretic considerations. (Not in MR)
- Namkoong, Gene *see Selgrade, James F.*, 91h:92036
- Newman, Charles M. *see Cohen, Joel E; et al.*, 91f:92031
- Pakes, Anthony G. (with Maller, Ross A.) ★ Mathematical ecology of plant species competition. 91i:92012
- (Palka, Zbigniew J.) *see Cohen, Joel E; et al.*, 91f:92031
- Pandey, Rama Kant *see Saleem, M.*, 91b:92039
- Pavlotskii, I. P. *see Mkhitarian, K. N.*, 91c:92086
- Rai, Bindhyachal (with Singh, Abhimanyu) A three species predator-prey-mutualist model with time-delays. 91j:92013
- (with Singh, Abhimanyu) The effect of time delay in three-species predator-prey-mutualist model in ecosystem. 91h:92035
- Ritchie, Mark E. *see Schmitz, Oswald J.*, (Not in MR)
- de Roos, André Marc (with Metz, J. A. J.; Evers, E.; Leipoldt, A.) A size dependent predator-prey interaction: who pursues whom? 91f:92033
- Roy, A. B. (with Sikder, A.; Chaudhuri, Kripasindhu) Stability and persistence in branched trophic chains with material cycling. 91c:92088
- *see also* Sarkar, A. K., 91m:92039
- Saleem, M. (with Pandey, Rama Kant) Some more results in young predation. 91b:92039
- Sarkar, A. K. (with Roy, A. B.) Permanence of competing donors and a recipient population. 91m:92039
- Scheuring, István The fractal nature of vegetation and the species-area relation. (Not in MR)
- Schmitz, Oswald J. (with Ritchie, Mark E.) Optimal diet selection with variable nutrient intake: balancing reproduction with risk of starvation. (Not in MR)
- Selgrade, James F. (with Namkoong, Gene) Stable periodic behavior in a pioneer-climax model. 91h:92036
- Shigesada, Nanako (with Kawasaki, Kohkichi; Teramoto, Ei) Communities with interference competition: direct and indirect effects of predation on their structures. 91c:92022
- Shukla, J. B. *see Freedman, H. I.*, 91h:92033
- Sigal, Ron Algorithms for the Routh-Hurwitz stability test. 91m:92040
- Sikder, A. *see Roy, A. B; et al.*, 91c:92088
- Singh, Abhimanyu *see Rai, Bindhyachal*, 91h:92035 and 91j:92013
- Sridhara, Rajeshwari Inference on system parameters in a model for interacting species. (Not in MR)
- Takouchi, Yasuhiro Conflict between the need to forage and the need to avoid competition: persistence of two-species model. 91c:92089
- *see also* Freedman, H. I., 91m:92035
- Teng, Zhi Dong (with Duan, Kui Chen) Stability of single discrete population models. (Chinese. English summary) 91c:92090
- Teramoto, Ei *see Shigesada, Nanako; et al.*, 91c:92022
- Tsarkov, E. F. The behaviour of the prey-predator [prey-predator] system in the neighbourhood of statistic equilibrium. (see 91f:60004)
- Tuzinkevich, A. V. A typical bifurcation in integral models of ecosystems. (Russian) 91h:92037
- Vaillant, Jean Spatial-temporal models for counting processes in ecology. (French summary) 91c:92091
- Wolkowicz, Gail S. K. *see Mischakow, Konstantin*, 91j:92012
- Xaba, A. B. Equilibrium point optimality for the Noy-Meir grazing model. (Not in MR)
- Yodzis, Peter ★ Introduction to theoretical ecology. 91k:92042
- Zakharov, V. V. Hierarchical games and their applications in the problem of preserving the environment. (Russian) 91k:92043
- Zhao, Jing Zhu Game theory and ecology. 91c:92092
- Zhou, Jin Shi Limit cycles of a class of predator-prey systems with Holling functional responses. (Chinese. English summary) 91b:92040
- Items with secondary classifications in 92D40
- Abakumov, A. I. Optimum harvesting problems in discrete population models. 91k:90041
- Aihara, Takashi *see Satoh, Kazuhiro*, 91i:58102
- Allen, Linda J. S. (with Moulton, Michael P.; Rose, Francis L.) Persistence in an age-structured population for a patch-type environment. 91f:92013
- Antonelli, Peter L. Filtering the n -dimensional logistic growth model. 91k:60050
- Bak, Per *see Chen, Kan; et al.*, 91g:00024
- Beretta, Edoardo (with Bischi, G. I.) Stability and Hopf bifurcations in some nutrient-species models with nutrient cycling and time lags. 91c:92017
- Bergh, Michael O. (with Getz, Wayne M.) Stability and harvesting of competing populations with genetic variation in life history strategy. 91c:92043
- Bischi, G. I. *see Beretta, Edoardo*, 91c:92017
- Borzyko, V. I. A topological method for proving the existence of positive periodic solutions for functional-differential equations. 91m:34083
- van den Bosch, F. (with Metz, J. A. J.; Diekmann, Odo) The velocity of spatial population expansion. 91f:92015
- Butler, Geoffrey J. (with Schmid, Rudolf; Waltman, Paul) Limiting the complexity of limit sets in self-regulating systems. 91c:58152
- Chandhuri, Kripasindhu (with Johnson, Thomas) Bioeconomic dynamics of a fishery modeled as an S -system. (Not in MR)
- Chen, Kan (with Bak, Per; Jensen, Mogens H.) A deterministic critical forest fire model. 91g:00024
- Costanza, V. *see Neuman, C. E.*, 91c:90034
- Diekmann, Odo *see van den Bosch, F; et al.*, 91f:92015
- Duan, Kui Chen *see Teng, Zhi Dong*, 91c:90088
- Ei, S.-I. (with Mimura, Masayasu) Pattern formation in heterogeneous reaction-diffusion-advection systems with an application to population dynamics. 91b:92025
- Fernandes, M. Lourdes C. Uniform repellers for processes with applications to periodic differential systems. 91g:58165
- Fink, A. M. A two-dimensional Opial theorem and a predator-prey model. 91k:34060
- Forst, Christian *see Schnabl, Wolfgang; et al.*, 91m:58106
- Freedman, H. I. A model of predator-prey dynamics as modified by the action of a parasite. 91c:92052
- (Garlauskas, Algis) *see Mathematical models in biology and medicine*, 91c:92001
- Getz, Wayne M. *see Bergh, Michael O.*, 91c:92043
- Grizzle, J. W. (with Moraal, P. E.) On observers for smooth nonlinear digital systems. 91i:93022
- Hamaya, Yoshihiro (with Yoshizawa, Taro) Almost periodic solutions in an integrodifferential equation. 91b:45014
- Hofbauer, Josef (with So, Joseph W.-H.) Multiple limit cycles for predator-prey models. 91c:92016
- Hosono, Yuzo Singular perturbation analysis of travelling waves for diffusive Lotka-Volterra competition models. 91f:92021
- Huang, Qi Yu Limit cycle for cubic system of Kolmogorov type with a conic algebraic trajectory. 91c:34042
- Ito, Kazufumi *see Michelson, Seth; et al.*, 91c:92059
- Jensen, Mogens H. *see Chen, Kan; et al.*, 91g:00024
- Johnson, Thomas *see Chandhuri, Kripasindhu*, (Not in MR)
- Jørgensen, Steffen (with Sorger, Gerhard) Feedback Nash equilibria in a problem of optimal fishery management. 91g:90039
- Kan-on, Y. *see Mimura, Masayasu; et al.*, 91a:92009
- Krawiec, Wiesław (with Rogers, T. D.) Perfect harmony: the discrete dynamics of cooperation. 91g:58225
- Kuang, Yang On the location and period of limit cycles in Gause-type predator-prey systems. 91c:92026
- (with Smith, Hal L.) Global stability in diffusive delay Lotka-Volterra systems. 91j:35041
- Lei, Yan Song Global bifurcation analysis of positive steady-state solutions to a class of reaction-diffusion equations in ecology. (Chinese. English summary) 91h:35161
- Leith, John T. *see Michelson, Seth; et al.*, 91c:92059
- Lige, (with Ramm, Alexander G.) A singular perturbation result and its application to mathematical ecology. 91k:35067
- Lui, Roger Existence and stability of travelling wave solutions for an evolutionary ecology model. 91i:35103
- McKelvey, Robert Common property and the conservation of natural resources. 91c:90040
- Metz, J. A. J. *see van den Bosch, F; et al.*, 91f:92015
- Michelson, Seth (with Tran, Hien; Ito, Kazufumi; Leith, John T.) Stochastic models of subpopulation emergence in heterogeneous tumors. 91c:92059
- Mimura, Masayasu (with Kan-on, Y.; Nishiura, Yasumasa) Oscillations in segregation of competing populations. 91a:92009
- *see also* Ei, S.-I., 91h:92025
- Moraal, P. E. *see Grizzle, J. W.*, 91i:93022
- Moulton, Michael P. *see Allen, Linda J. S; et al.*, 91f:92013
- Mukherjee, Debasis (with Roy, A. B.) Uniform persistence and global stability of two prey-predator pairs linked by competition. 91c:92087
- Muñoz, Eduardo M. (with Selgrade, James F.) Asymptotic behavior for a competitive model with genetic variation. 91h:92030
- Murrell, H. C. *see Swart, J. H.*, 91m:92028
- Neuman, C. E. (with Costanza, V.) Deterministic impulse control in native forest ecosystems management. 91c:90034
- Nishiura, Yasumasa *see Mimura, Masayasu; et al.*, 91a:92009
- Parma, Ana M. Optimal harvesting of fish populations with nonstationary stock-recruitment relationships. 91j:90018
- Petrovyan, L. A. (with Zakharov, V. V.) ★ Введение в математическую экологию. (Russian) [Introduction to mathematical ecology] 91k:92001
- Ramm, Alexander G. *see Li, Lige*, 91i:35067
- Rice, Sean H. A geometric model for the evolution of development. 91a:92006
- Rogers, T. D. *see Krawiec, Wiesław*, 91g:58225
- Rose, Francis L. *see Allen, Linda J. S; et al.*, 91f:92013
- Routledge, R. D. Spatial patterns arising from plant dispersal as modelled by a correlated random walk. 91h:92004
- Roxin, Emilio O. Some applications of the attainable set of $\dot{x} = A(u(t))x$. (see 91m:00031)
- Roy, A. B. *see Mukherjee, Debasis*, 91c:92087
- Satoh, Kazuhiro (with Aihara, Takashi) Numerical study on a coupled-logistic map as a simple model for a predator-prey system. 91c:58102
- Schmid, Rudolf *see Butler, Geoffrey J; et al.*, 91c:58152
- Schnabl, Wolfgang (with Stadler, Peter F.; Forst, Christian; Schuster, Peter Karl) Full characterization of a strange attractor. Chaotic dynamics in low-dimensional replicator

systems. 91m:58106

Schuster, Peter Karl. *see* Schnabl, Wolfgang; et al., 91m:58106

Selgrade, James F. *see* Muñoz, Eduardo M., 91h:92030

Smith, Hal L. *see* Kuang, Yang, 91j:35041

So, Joseph W.-H. *see* Hofbauer, Josef, 91g:92016

Sorger, Gerhard. *see* Jørgensen, Steffen, 91g:90039

Stadler, Peter F. *see* Schnabl, Wolfgang; et al., 91m:58106

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(Svitra, Donatas) *see* Mathematical models in biology and medicine, 91e:92001

Swart, J. H. (with Murrell, H. C.) A model of age-dependent population dynamics

providing simple criteria for growth or extinction. 91m:92028

Teng, Zhi Dong (with Duan, Kui Chen) Persistence in dynamical systems. 91i:58088

Todorovic, P. An extremal problem arising in soil erosion modeling. 91h:62022

Tran, Hien. *see* Michelson, Seth; et al., 91c:92059

Waltman, Paul. *see* Butler, Geoffrey J.; et al., 91c:58152

Yoshizawa, Taro. *see* Hamaya, Yoshihiro, 91h:45014

Zakharov, V. V. *see* Petrosyan, L. A., 91h:92001

Zeng, Bin. Steady state solutions to a model for chemotaxis. (Chinese. English summary) 91d:35212

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92D50 Animal behavior

Blackwell, Paul. Deterministic and stochastic models of social behaviour based on the resource dispersion hypothesis. (Not in MR)

Crawford, Vincent P. On the definition of an evolutionarily stable strategy in the "playing the field" model. 91k:92044

Gueron, Shay (with Liron, Nadav) A model of herd grazing as a travelling wave, chemotaxis and stability. 91g:92025

Liron, Nadav. *see* Gueron, Shay, 91g:92025

McNamara, J. M. The policy which maximises long-term survival of an animal faced with the risks of starvation and predation. 91g:92026

Pollock, Gregory B. Evolutionary stability of reciprocity in a viscous lattice. 91b:92041

Sukhanov, Vitalii Viktorovich. Determining the optimal reserve area for a population of migrating animals. (Russian) (see 91h:00021)

Items with secondary classifications in 92D50

Botteron, Bernard (with Dacorogna, Bernard) Existence and nonexistence results for noncoercive variational problems and applications in ecology. 91c:92081

Chen, Sui Yang (with Guo, Ben Yu) A discrete model with interaction between the budworm and its predator in a circular region. 91a:92013

Cohen, Dan. ESS in habitat selection in structured populations and in ecological communities. I. 91a:92015

Dacorogna, Bernard. *see* Botteron, Bernard, 91c:92081

Evers, E. *see* de Roos, André Marc; et al., 91f:92033

Guo, Ben Yu. *see* Chen, Sui Yang, 91a:92013

Leipoldt, A. *see* de Roos, André Marc; et al., 91f:92033

Mangel, Marc. A dynamic habitat selection game. 91c:92084

Metz, J. A. J. *see* de Roos, André Marc; et al., 91f:92033

Raboon, Arthur J. Efficiency in evolutionary games: Darwin, Nash and the secret handshake. 91f:92012

de Roos, André Marc (with Metz, J. A. J.; Evers, E.; Leipoldt, A.) A size dependent predator-prey interaction: who pursues whom? 91f:92033

Shigesada, Nantaka. On the spatial distributions of dispersing animals. (see 91e:60002)

Takeuchi, Yasuhiro. Conflict between the need to forage and the need to avoid competition: persistence of two-species model. 91c:92089

Xaba, A. B. Equilibrium point optimality for the Noy-Meir grazing model. (Not in MR)

92D99 None of the above, but in this section

McKee, Terry A. Interval competition multigraphs of food webs. 91f:92034

Items with secondary classifications in 92D99

Calderón, Calixto P. (with Kwembe, Tor A.) On the classical trapping problem. 91m:90091

Grinak, V. V. (with Tarasova, L. G.) Prerequisites for creating computing devices with qualitatively new algorithmic possibilities. (Russian. English summary) (Not in MR)

Koulibaly, Akry. *see* Micali, Artibano, 91k:17041

Kwembe, Tor A. *see* Calderón, Calixto P., 91m:90091

Micali, Artibano (with Koulibaly, Akry) Les algèbres de Lotka-Volterra. [Lotka-Volterra algebras] 91k:17041

Perry, W. L. *see* Shen, S. S. P., 91g:76086

Shen, S. S. P. (with Perry, W. L.) An example of nonlinear toxic mass spreading. 91g:76086

Tarasova, L. G. *see* Grinak, V. V., (Not in MR)

92Exx Chemistry {For biochemistry, see 92C40.}

Items with secondary classifications in 92Exx

(Klein, Douglas J.) *see* Methods of mathematical chemistry, 91h:92001

(Randić, Milan) *see* Methods of mathematical chemistry, 91h:92001

Items listed otherwise than by author

Conference:

Mathematical Chemistry ★ Methods of mathematical chemistry. 91h:92001

Galveston, TX ★ Methods of mathematical chemistry. 91h:92001

Methods of mathematical chemistry ★ Methods of mathematical chemistry. 91h:92001

92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)

Baskin, I. I. (with Gordeeva, E. V.; Devdariani, R. O.; Zefirov, N. S.; Palyulin, V. A.;

Stankevich, M. I.) The methodology of solving an inverse problem in the "structure-property" connection problem for a case of topological indices. (Russian) 91h:92042

Bodroza, Olga. *see* Tošić, Ratko, 91m:92042

Brunvoll, J. (with Cyvin, Sven J.; Cyvin, B. N.; Gutman, Ivan) Essentially disconnected benzenoids: distribution of K , the number of Kekulé structures, in benzenoid hydrocarbons. VIII. 91c:92093

— *see also* Cyvin, Sven J.; et al., 91h:92038

Colemans, A. (with Vanquickenborne, L. G.) The epikernel principle. 91a:92017

Chen, Er Ting (with Gong, Bao An; Luan, Jing Guo) The isospectral problem in graph theory. (Chinese. English summary) 91c:92094

Cyvin, B. N. *see* Brunvoll, J.; et al., 91c:92093 and Cyvin, Sven J.; et al., 91h:92038

Cyvin, Sven J. (with Brunvoll, J.; Cyvin, B. N.) The hunt for concealed non-Kekuléan polyhexes. 91h:92038

— *see also* Brunvoll, J.; et al., 91c:92093 and Tošić, Ratko, 91c:92101

Dang, Xin Yi. The global structure of the "low concentration trimolecular model". (Chinese) (Not in MR)

Davis, Matthew W. *see* Lowe, John P., 91h:92039

Devdariani, R. O. *see* Baskin, I. I.; et al., 91h:92042

Dobrynin, A. A. The distance of graphs of cata-condensed hexagonal polycyclic systems during their transformations. 91g:92027

— An effective algorithm for generating graphs of nonramified hexagonal systems. (Russian) (Not in MR)

Fujita, Shinsaku. Enumerations of chemical structures by subduction of coset representations. Correlation of unit subduced cycle indices to Pólya's cycle indices. 91f:92035

— Subduction of coset representations. An application to enumeration of chemical structures with achiral and chiral ligands. 91f:92036

Gimarc, Benjamin M. (with Ott, Jane J.) Details of the reaction graphs for intramolecular isomerizations of the carboranes. (Not in MR)

Gong, Bao An. *see* Chen, Er Ting; et al., 91c:92094

Gordeeva, E. V. *see* Baskin, I. I.; et al., 91h:92042

Guo, Xiao Feng (with Zhang, Fu Ji) Recognizing Kekuléan benzenoid systems by $C-P-V$ path elimination. 91j:92014

Gutman, Ivan (with Teodorović, A. V.; Kolaković, N.) Algebraic studies of Kekulé structures. A semilattice based on the sextet rotation concept. 91c:92095

— A property of the simple topological index. 91m:92041

— (with Klein, Douglas J.) Generalization of Cyvin's formula. 91h:92045

— *see also* Brunvoll, J.; et al., 91c:92093

Harary, Frank (with Klein, Douglas J.; Živković, Tomislav P.) Graphical properties of polyhexes: perfect matching vector and forcing. (Not in MR)

Hariti, A. Stability diagram for a three parabolic equation system coming from biochemistry. (Not in MR)

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He, Wen Jie. *see* He, Wen Chen, (Not in MR) and (Not in MR)

Hosoya, Haruo. *see* Polansky, Oskar E.; et al., 91c:92097

Jiang, Yuan Sheng (with Zhang, Hong Xing) Moments and characteristic polynomials of bipartite Hückel graphs. 91k:92046

Klein, Douglas J. *see* Gutman, Ivan, 91k:92045 and Harary, Frank; et al., (Not in MR)

Knop, Jan V. *see* Nikolić, Sonja; et al., 91h:92040

Kolaković, N. *see* Gutman, Ivan; et al., 91c:92095

Li, Xue Liang. *see* Zhang, Fu Ji, 91c:92023

Lin, Guo Ning. *see* Lin, Yi Xun, 91f:92037 and Shi, Li Jie; et al., 91k:92047

Lin, Yi Xun (with Lin, Guo Ning) Convex hexagonal systems. I. (Chinese) 91f:92037

Lowe, John P. (with Davis, Matthew W.) Isospectral points and edges in graph theory. 91h:92039

Luan, Jing Guo. *see* Chen, Er Ting; et al., 91c:92094

Mallion, R. B. *see* O'Leary, Brian, 91h:92043

Meitmanova, N. M. *see* Skorobogatov, V. A.; et al., 91g:92028

Mezey, Paul G. ★ Potential energy hypersurfaces. 91c:92096

Morikawa, Tetsuo. Enumeration of rational formulas (representatives for valence isomeric classes) for molecular compounds. (Not in MR)

Müller, Wolfgang R. *see* Nikolić, Sonja; et al., 91h:92040

Mzhef'skaya, E. V. (with Skorobogatov, V. A.) Metric spectra of molecular graphs. (Russian) (Not in MR)

— *see also* Skorobogatov, V. A.; et al., 91g:92028

Nikolić, Sonja (with Trinajstić, Nenad; Knop, Jan V.; Müller, Wolfgang R.; Szymanski, Klaus) On the concept of the weighted spanning tree of dualist. 91h:92040

Ohkami, Noriko. Graph-theoretical analysis of the sextet polynomial. Proof of the correspondence between the sextet patterns and Kekulé patterns. 91h:92041

O'Leary, Brian (with Mallion, R. B.) C. A. Coulson's work on a contour-integral approach to the London theory of magnetic susceptibility of conjugated molecules. 91h:92043

Ott, Jane J. *see* Gimarc, Benjamin M., (Not in MR)

Palyulin, V. A. *see* Baskin, I. I.; et al., 91h:92042

Polansky, Oskar E. (with Randić, Milan; Hosoya, Haruo) Transfer matrix approach to the Wiener numbers of cata-condensed benzenoids. 91c:92097

Randić, Milan. *see* Polansky, Oskar E.; et al., 91c:92097

Sheng, Rong Qin. A necessary and sufficient condition for the existence of Kekulé structures in benzenoid systems. 91c:92098

— Distribution of the convex pairs in a benzenoid or quasi-benzenoid system. 91c:92099

Shi, Li Jie (with Wang, Tian Ming; Lin, Guo Ning) The structure of hexagonal systems with $X = 3$. (Chinese. English summary) 91k:92047

- Skorobogatov, V. A. (with Mzhefakaya, E. V.; Meirmanova, N. M.) A study of the metric characteristics of cata-condensed polybenzenes. (Russian) 91g:92028
 — see also Mzhefakaya, E. V., (Not in MR)
 Stankovich, M. I. see Baskin, I. I.; et al., 91b:92042 and Trach, S. S.; et al., 91h:92042
 Symanski, Klaus see Nikolic, Sonja; et al., 91h:92040
 Teodorovic, A. V. see Gutman, Ivan; et al., 91c:92095
 Tomescu, Ioan Decomposition theorems for the number of perfect matchings in hexagonal graphs. 91c:92100
 Tóth, Ratko (with Cyvin, Sven J.) Enumeration of Kekulé structures in benzenoid hydrocarbons: "flounders". 91c:92101
 — (with Bodroža, Olga) An algebraic expression for the number of Kekulé structures of benzenoid chains. 91m:92042
 Trach, S. S. (with Stankovich, M. I.; Zefirov, N. S.) Combinatorial models and algorithms in chemistry. The expanded Wiener number—a novel topological index. 91h:92042
 Trinajstić, Nenad see Nikolic, Sonja; et al., 91h:92040
 Vanquickenborne, L. G. see Ceulemans, A., 91a:92017
 Wang, Tian Ming see Shi, Li Jie; et al., 91k:92047
 Zefirov, N. S. see Baskin, I. I.; et al., 91b:92042 and Trach, S. S.; et al., 91h:92042
 Zhang, Fu Ji (with Li, Xue Liang) Clar formula of a class of hexagonal systems. 91c:92023
 — see also Guo, Xiao Feng, 91j:92014
 Zhang, Hong Xing see Jiang, Yuan Sheng, 91k:92046
 Zhang, Jie (with Zheng, Chong You) Some properties of the product and coproduct of topological molecular lattices in which sequences suffice. (Chinese. English summary) 91g:92029
 Zheng, Chong You see Zhang, Jie, 91g:92029
 Živković, Tomislav P. see Harary, Frank; et al., (Not in MR)

Items with secondary classifications in 92E10

- Baranowski, Jan Structures des zéolites. [Structures of zeolites] (Not in MR)
 Barnes, I. S. (with Hyde, S. T.; Ninham, B. W.) The cesium chloride zero potential surface is not the Schwarz P-surface. (French summary) 91k:53013
 Bartel, H.-G. Seriation to describe some aspects of generalized evolution and its application in chemical informatics. (Not in MR)
 Boyd, Russell J. see Ugalde, Jesus M.; et al., (Not in MR)
 Chen, Guang Yao see Jiang, Yuan Sheng, 91h:92046
 Chen, Rong Si see Cyvin, Sven J., (Not in MR)
 Cyvin, Sven J. (with Chen, Rong Si) On the number of Kekulé structures for rectangle-shaped benzenoids. XII. (Not in MR)
 Domínguez, L. see Ugalde, Jesus M.; et al., (Not in MR)
 Ellbeck, J. C. (with Scott, Alwyn C.) Theory and applications of the discrete self-trapping equation. (see 91j:58005)
 Gutman, Ivan (with Mizoguchi, Noriyuki) A property of the circuit characteristic polynomial. 91i:05068
 — (with Marković, Svetlana) Topological properties of benzenoid systems. XLVIII. An empirical study of two contradictory formulas for total π -electron energy. (Not in MR)
 Hyde, S. T. see Barnes, I. S.; et al., 91k:53013
 Jaffé, Charles (with Kellman, Michael E.) Localized chaos and partial assignability of dynamical constants of motion in the transition to molecular chaos. 91f:81252
 Jiang, Yuan Sheng (with Chen, Guang Yao) On subspectral acyclic molecular graphs. 91h:05084
 Kellman, Michael E. see Jaffé, Charles, 91f:81252
 Kirby, E. C. Hamiltonian paths in polyhexes: the use of branching subgraphs to assist diagnosis of graph traceability. 91h:05083
 Kolkholm, Niels Jørgen Spectral analysis of perturbed multiplication operators occurring in polymerization chemistry. 91h:47115
 Marković, Svetlana see Gutman, Ivan, (Not in MR)
 Mizoguchi, Noriyuki see Gutman, Ivan, 91i:05088
 Mohar, Bojan Computing the characteristic polynomial of a tree. 91a:05034
 Ninham, B. W. see Barnes, I. S.; et al., 91k:53013
 Novosadov, B. K. ★ Методы решения уравнений квантовой химии. (Russian) [Methods for solving equations in quantum chemistry] 91f:81253
 Sarasola, C. see Ugalde, Jesus M.; et al., (Not in MR)
 Scott, Alwyn C. see Ellbeck, J. C., (91j:58005)
 Türker, Lemi An approach to the construction of certain isospectral and subspectral graphs. 91h:05086
 Ugalde, Jesus M. (with Sarasola, C.; Domínguez, L.; Boyd, Russell J.) The evaluation of electronic extracule and intracule densities and related probability functions in terms of Gaussian basis functions. (Not in MR)
 Whittle, P. The statistics of random directed graphs. 91c:60286

92E20 Classical flows, reactions, etc. [see also 80A30, 80A32]

- Aguado, M. (with Sagués, F.) Pattern formation dynamics resulting from a reaction-diffusion instability. 91i:92013
 Bakhtova, R. Kh. see Gorakli, V. G.; et al., (Not in MR)
 Bir, V. A. (with Yablonskii, G. S.) Island processes on the surface of a catalyst. Description of the kinetics of adsorption-desorption from the perspective of the theory of topochemical reactions. (Russian) 91c:92102
 Bocharov, A. N. (with Bykov, V. I.) Parametric analysis of the spectrum of a class of matrices that arise in chemical kinetics. (Russian) 91k:92048
 Borkovec, Michal see Hanggi, Peter; et al., 91m:92043
 Bykov, V. I. see Bocharov, A. N., 91k:92048
 Chu, X.-L. (with Ross, John) Complex kinetics of systems with multiple stationary states at equilibrium. 91c:92103
 Farkas, Henrik (with Noszticzus, Zoltán) Generalized Lotka-Volterra schemes and the construction of two-dimensional exploder cores and their Liapunov functions via "critical" Hopf bifurcations. 91i:92014
 — (with Noszticzus, Zoltán; Savage, C. R.; Schelly, Z. A.) Two-dimensional exploders. II. Global analysis of the Lotka-Volterra-Brusselator (LVB) model. 91i:92015

- Forbes, Lawrence K. (with Holmes, C. A.) Limit-cycle behaviour in a model chemical reaction: the cubic autocatalator. 91g:92030
 Gorban', A. N. see Verbitskii, V. I., 91h:92049
 Gorakli, V. G. (with Spivak, S. I.; Shvetsova-Shilovskaya, T. N.; Bakhtova, R. Kh.; Ramazanov, M. D.) Asymptotic approximations and identifiability of the parameters of systems of differential equations in chemical kinetics. (Russian) (Not in MR)
 Gray, B. F. (with Merkin, J. H.; Roberts, M. J.) On the structural stability of the cubic autocatalytic scheme in a closed vessel. 91c:92104
 Greenbaum, N. N. Secondary bifurcation in the Belousov-Zhabotinskii chemical reaction. 91h:92043
 Hanggi, Peter (with Talkner, Peter; Borkovec, Michal) Reaction-rate theory: fifty years after Kramers. 91m:92043
 Havsteen, B. H. see Varón, R., 91c:92107
 Hering, Roger H. Oscillations in Lotka-Volterra systems of chemical reactions. 91h:92044
 Holmes, C. A. see Forbes, Lawrence K., 91g:92030
 Kapral, Raymond Discrete models for chemically reacting systems. (Not in MR)
 Kessler, David A. (with Levine, Herbert) Stability of traveling waves in the Belousov-Zhabotinskii reaction. 91m:92044
 Larter, Raima see Steinmetz, Curtis G., 91j:92015
 Levine, Herbert see Kessler, David A., 91m:92044
 Li, Da Hua Bifurcation of steady-state solutions of the trimolecular model in the unbounded region. (Chinese summary) 91c:92105
 Merkin, J. H. (with Needham, D. J.) Reaction-diffusion in a simple pooled chemical system. 91c:92106
 — see also Gray, B. F.; et al., 91c:92104
 Needham, D. J. see Merkin, J. H., 91c:92106
 Noszticzus, Zoltán see Farkas, Henrik, 91i:92014 and 91i:92015
 Osherov, V. I. see Voronin, A. I., 91c:92108
 Ramazanov, M. D. see Gorakli, V. G.; et al., (Not in MR)
 Roberts, M. J. see Gray, B. F.; et al., 91c:92104
 Ross, John see Chu, X.-L., 91c:92103
 Rubinstein, Jacob see Torquato, Sal, 91a:92018
 Sagués, F. see Aguado, M., 91i:92013
 Savage, C. R. see Farkas, Henrik; et al., 91i:92015
 Schelly, Z. A. see Farkas, Henrik; et al., 91i:92015
 Schuster, Ronny see Schuster, Stefan, 91m:92045
 Schuster, Stefan (with Schuster, Ronny) Detecting strictly detailed balanced subnetworks in open chemical reaction networks. 91m:92045
 Shvetsova-Shilovskaya, T. N. see Gorakli, V. G.; et al., (Not in MR)
 Spivak, S. I. see Gorakli, V. G.; et al., (Not in MR)
 Steinmetz, Curtis G. (with Larter, Raima) The quasiperiodic route to chaos in a model of the peroxidase-oxidase reaction. 91j:92015
 Talkner, Peter see Hanggi, Peter; et al., 91m:92043
 Torquato, Sal (with Rubinstein, Jacob) Diffusion-controlled reactions. II. Further bounds on the rate constant. 91a:92018
 Traytak, S. D. The use of fractional-order derivatives for determination of the time-dependent rate constant. 91h:92045
 Treskov, S. A. see Volokitin, E. P., 91h:92046
 Tyson, John J. Spiral waves in the Belousov-Zhabotinskii reaction. (see 91j:58005)
 Varón, R. (with Havsteen, B. H.) Kinetics of the transient-phase and steady-state of the monocyclic enzyme cascades. 91c:92107
 Verbitskii, V. I. (with Gorban', A. N.) Simultaneously dissipative operators and quasithermodynamicity of systems of chemical reactions. (Russian) 91h:92049
 Volokitin, E. P. (with Treskov, S. A.) Qualitative analysis of a mathematical model for the reaction of catalytic oxidation. (Russian) 91h:92046
 Voronin, A. I. (with Osherov, V. I.) ★ Динамика молекулярных реакций. (Russian) [Dynamics of molecular reactions] 91c:92108
 Yablonskii, G. S. see Bir, V. A., 91c:92102
 Zhao, Zhen Hal A qualitative analysis of trimolecular models of biochemical reactions with constant input. (Chinese. English summary) 91k:92050

Items with secondary classifications in 92E20

- Aicardi, Francesca (with Kawczyński, Andrzej Lech) Period-adding phenomenon in a model of chemical system. 91e:58175
 Amraoui, S. On the bifurcation at double critical values for the Brusselator. 91g:35038
 Avrin, Joel D. Solutions with singular initial data for a model of electrophoretic separation. 91g:35133
 Bebernes, Jerrold (with Lacey, Andrew A.) Finite-time blowup for a particular parabolic system. 91h:35025
 Billingham, J. (with Needham, D. J.) A note on the properties of a family of travelling-wave solutions arising in cubic autocatalysis. 91m:35124
 Bohisad, L. E. Behavior of solutions for a Robin problem. 91g:35105
 Boyarsky, A. see Góra, Paweł, 91h:58064
 Darkhovskii, B. S. see Gletzer, R. G., 91i:93072
 Edson, R. O. (with Yeo, G. F.; Milne, R. K.; Madsen, B. W.) Graphs, random sums, and sojourn time distributions, with application to ion-channel modeling. 91m:60135
 Gletzer, R. G. (with Darkhovskii, B. S.) Locally optimal control of a class of chemical reactors. 91i:93072
 Goddard, Joe D. Consequences of the partial-equilibrium approximation for chemical reaction and transport. 91h:80003
 Góra, Paweł (with Boyarsky, A.) Absolutely continuous invariant measures for the family of maps $x \rightarrow rxe^{-bx}$ with application to the Belousov-Zhabotinskii reaction. 91h:58064
 Gray, B. F. (with Thuraisingham, R. A.) The irreversible Brusselator: the influence of degenerate singularities in a closed system. 91c:58091
 Gray, Peter (with Merkin, J. H.; Needham, D. J.; Scott, S. K.) The development of travelling waves in a simple isothermal chemical system. III. Cubic and mixed autocatalysis. 91i:80009
 Hao, Bai Lin see Ni, Wan Sun; et al., 91g:58211
 Holmes, Mark H. Nonlinear ionic diffusion through charged polymeric gels. 91h:35151

- Inamdar, S. R. (with Kulkarni, B. D.) Bounds on steady states for a non-systemically autocatalyzed reaction-diffusion system. **91h:35159**
- (with Rajani, P.; Kulkarni, B. D.) Diffusive instability near Hopf bifurcation for exponentially autocatalyzed reaction-diffusion system. **91k:35126**
- Kanef, Ya. I. Solvability in the large of a system of reaction-diffusion equations with the balance condition. **91h:35160**
- Kawczynski, Andrzej Lech see Aicardi, Francesca, **91e:58175**
- Kulkarni, B. D. see Inamdar, S. R., **91h:35159** and **91k:35126**
- Lacey, Andrew A. see Bebernes, Jerrold, **91h:35025**
- Lange, Charles G. (with Weinitschke, Hubertus J.) Singular perturbations of limit points with application to tubular chemical reactors. **91k:35029**
- Lozinski, D. W. see Siegel, David, **91m:92016**
- Madsen, B. W. see Edson, R. O.; et al., **91m:60135**
- Merkin, J. H. (with Needham, D. J.) Reaction-diffusion waves in a simple isothermal chemical system. **91k:80011**
- (with Needham, D. J.) The development of travelling waves in a simple isothermal chemical system. II. Cubic autocatalysis with quadratic and linear decay. **91i:80008**
- see also Gray, Peter; et al., **91i:80009**
- Milne, R. K. see Edson, R. O.; et al., **91m:60135**
- Morro, Angelo Continuum description of polyelectrolyte solutions. (see **91m:00030**)
- Needham, D. J. see Merkin, J. H., **91i:80008**; Gray, Peter; et al., **91i:80009**; Merkin, J. H., **91k:80011** and Billingham, J., **91m:35124**
- Ni, Wan Sun (with Tong, Pei Qing; Hao, Bai Lin) Homoclinic and heteroclinic intersections in the periodically forced Brusselator. **91g:58211**
- Rajani, P. see Inamdar, S. R.; et al., **91k:35126**
- Scott, S. K. see Gray, Peter; et al., **91i:80009**
- Siegel, David (with Lozinski, D. W.) Monotonicity properties of the Michaelis-Menten reactions of enzyme kinetics. **91m:92016**
- Sun, Li Hua see Zhao, Zhen Hai, **91j:34042**
- Thuraisingham, R. A. see Gray, B. F., **91c:58091**
- Tong, Pei Qing see Ni, Wan Sun; et al., **91g:58211**
- Weinitschke, Hubertus J. see Lange, Charles G., **91k:35029**
- Winfree, Arthur T. Vortices in motionless media. **91m:35062**
- Wu, Song Lin A class of first-order saturated reaction models. (Chinese. English summary) **91i:34034**
- Ye, Qi Xiao Reaction-diffusion equations. (Chinese) **91g:35144**
- Yeo, G. F. see Edson, R. O.; et al., **91m:60135**
- Zhang, Gao Chu Stability of stationary state solution for a reaction density-dependent diffusion equation. **91c:35118**
- Zhao, Zhen Hai (with Sun, Li Hua) Qualitative analysis of a class of trimolecular models of biochemical reactions. (Chinese. English summary) **91j:34042**

92E99 None of the above, but in this section

- Alekseevskaya, T. V. Study of the system of quasilinear equations for isotachophoresis. **91k:92051**
- Blumen, A. see Zumofen, G.; et al., **91m:92047**
- Klafter, J. see Zumofen, G.; et al., **91m:92047**
- Löwdin, Per-Olov Concepts of convergence in mathematical chemistry. **91m:92046**
- Nagatani, Takashi see Usami, Yoshiyuki, (Not in MR)
- Turányi, Tamás Sensitivity analysis of complex kinetic systems. Tools and applications. **91i:92016**
- Usami, Yoshiyuki (with Nagatani, Takashi) Aggregation in coupled diffusion fields: a model for electrochemical deposition [Pattern formation in nonlinear diffusion fields]. (Japanese. English summary) (Not in MR)
- Zumofen, G. (with Blumen, A.; Klafter, J.) The role of fractals in chemistry. **91m:92047**

Items with secondary classifications in 92E99

- Acrivos, A. (with Jeffrey, D. J.; Saville, D. A.) Particle migration in suspensions by thermocapillary or electrophoretic motion. **91h:76102**
- Gao, Ying-Duo (with Hosoya, Haruo) Analysis of the π -electronic structure of infinitely large networks. **91m:81330**
- Gaspard, Pierre see Nicolis, G., **91i:92004**
- Hosoya, Haruo see Gao, Ying-Duo, **91m:81330**
- Jeffrey, D. J. see Acrivos, A.; et al., **91h:76102**
- Kokholm, Niels Jürgen Spectral analysis of perturbed multiplication operators occurring in polymerisation chemistry. **91i:47064**
- Merkin, J. H. see Needham, D. J., **91d:80016**
- Muskatina, I. L. see Pogorelov, A. G., **91d:80017**
- Needham, D. J. (with Merkin, J. H.) Pattern formation through reaction and diffusion in a simple pooled-chemical system. **91d:80016**
- Nicols, G. (with Gaspard, Pierre) Bifurcations, chaos and self-organization in reaction-diffusion systems. **91i:92004**
- Pogorelov, A. G. (with Muskatina, I. L.) Structure identification in unsteady-state chemical kinetics by derivation of models. **91d:80017**
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- Saville, D. A. see Acrivos, A.; et al., **91h:76102**
- Sarkis, Péter R. ★ Second quantized approach to quantum chemistry. **91g:81002**
- Takáči, Peter Convergence to equilibrium on invariant d -hypersurfaces for strongly increasing discrete-time semigroups. **91d:58125**

92F05 Other natural sciences

- Koch, A.-J. see Rothen, F., **91j:92016**
- Rothen, F. (with Koch, A.-J.) Phyllotaxis or the properties of spiral lattices. II. Packing of circles along logarithmic spirals. (French summary) **91j:92016**

Items with secondary classifications in 92F05

- Bán, István ★ Biomathematics and its applications in plant cultivation. (Not in MR)
- Goldsmith, M. H. M. see Martin, M. H.; et al., **91b:92008**
- Goldsmith, T. H. see Martin, M. H.; et al., **91b:92008**
- (Habermann, G. M.) see Bán, István, (Not in MR)
- Horálek, Václav Stereology of grain boundary precipitates. (Russian and Czech summaries) **91f:52006**
- Martin, M. H. (with Goldsmith, M. H. M.; Goldsmith, T. H.) On polar auxin transport in plant cells. **91b:92008**
- (Veró, J.) see Bán, István, (Not in MR)
- (Wallner, Á.) see Bán, István, (Not in MR)

92Gxx Social and behavioral sciences: methodology {For statistics, see 62-XX.}

92G05 Measurement theory

- Fishburn, Peter C. Unique nontransitive additive conjoint measurement on finite sets. **91k:92052**
- Krantz, David H. see Luce, R. Duncan; et al., **91e:92024**
- Luce, R. Duncan (with Krantz, David H.; Suppes, Patrick; Tversky, Amos) ★ Foundations of measurement. Vol. III. **91e:92024**
- Suppes, Patrick see Luce, R. Duncan; et al., **91e:92024**
- Tversky, Amos see Luce, R. Duncan; et al., **91e:92024**
- Uppuluri, V. R. R. Prioritization techniques based on stochastic paired comparisons. **91g:92031**

Items with secondary classifications in 92G05

- Pyřev, Yu. P. Nonlinear reduction of a measurement. (Russian) **91a:90127**

92G20 Test theory

Items with secondary classifications in 92G20

- Du, Ding Zhu see Yang, Feng, **91h:90126**
- Yang, Feng (with Du, Ding Zhu) The complexity of determinacy problem on group testing. **91h:90126**

92G25 Questionnaire analysis

- (Batchelder, William H.) see Yoshino, Ryozo, (Not in MR)
- (Romney, A. Kimball) see Yoshino, Ryozo, (Not in MR)
- Theuns, Peter Predicting an optimal threshold in Boolean analysis of questionnaires. **91g:92032**
- Yoshino, Ryozo An extension of the "Test theory without an answer key" by W. H. Batchelder and A. K. Romney and its application to an analysis of data of national consciousness [Psychometrika 53 (1988), no. 1, 71-92; MR 89c:62139]. (Japanese. English summary) (Not in MR)

92G30 Clustering [see also 62H30]

- Fomenko, A. T. see Novoskii, G. V., **91g:92033**
- Herden, G. Dissimilarity coefficients which are independent of a special set of data. **91m:92048**
- Novoskii, G. V. (with Fomenko, A. T.) Some methods and results of the analysis of mixed sequences. (Russian) **91g:92033**

92G99 None of the above, but in this section

- Mirkin, B. G. (with Satarov, G. A.) The method of fuzzy additive types for the analysis of multidimensional data. I. A model and its properties. **91i:92017**
- (with Satarov, G. A.) The method of fuzzy additive types for the analysis of multidimensional data. II. An algorithm and its properties. **91i:92018**
- Satarov, G. A. see Mirkin, B. G., **91i:92017** and **91i:92018**

Items with secondary classifications in 92G99

- Tangyan, A. S. A collective representation model under conditions of democracy. (Russian) **91g:90017**

92Hxx Mathematical sociology (including anthropology)

Items with secondary classifications in 92Hxx

- Dorrian, Patrick Mathematics in sociology: Cinderella's carriage or pumpkin? (see **91h:00014**)
- Kadlec, Helena see Townsend, James T., (91h:00014)
- (Lee, Yee Chun) see Evolution, learning and cognition, **91h:92004**
- Townsend, James T. (with Kadlec, Helena) Psychology and mathematics. (see **91h:00014**)

Items listed otherwise than by author

- Evolution, learning and cognition ★ Evolution, learning and cognition. **91h:92004**

92H10 Models of societies, social and urban evolution

- Balzer, Wolfgang A basic model for social institutions. (Not in MR)
- Batty, Michael Cities as fractals: simulating growth and form. (see **91i:58094**)
- Ciolfi-Revilla, Claudio Mathematical contributions to the scientific understanding of war. **91c:92109**

- Efimov, A. N. (with Kuteev, V. M.) Uniform strategies for the formation and control of the evolution of elite groups. (Not in MR)
- Fararo, Thomas J. *see* Skvoretz, John, 91h:92047
- Geiger, Gebhard ★ Evolutionary instability. 91f:92038
- Kelly, Jerry S. Symmetry groups. (Not in MR)
- Kuteev, V. M. *see* Efimov, A. N., (Not in MR)
- Miller, John Boris Minimal power-structures in a weighted organization. 91h:92053
- Niou, Emerson M. S. (with Ordeshook, Peter C.) The geographical imperatives of the balance of power in 3-country systems. 91c:92110
- Ordeshook, Peter C. *see* Niou, Emerson M. S., 91c:92110
- Popkov, Yu. S. (with Shvetsov, V. I.) The principle of local equilibria in models of regional dynamics. (Russian. English summary) 91e:92025
- Shvetsov, V. I. *see* Popkov, Yu. S., 91e:92025
- Skvoretz, John (with Fararo, Thomas J.) Action structures and sociological action theory. 91h:92047

Items with secondary classifications in 92H10

- Anand, Paul Interpreting axiomatic (decision) theory. 91g:90003
- Barentsen, W. (with Nijkamp, P.) Modelling nonlinear processes in time and space. 91a:92019
- Greenberg, Joseph An application of the theory of social situations to repeated games. 91h:920137
- Malkevitch, Joseph Mathematical theory of elections. (see 91k:90024)
- Monjardet, Bernard Arrowian characterizations of latticial federation consensus functions. 91j:90006
- Nijkamp, P. *see* Barentsen, W., 91a:92019
- Nowak, Martin Stochastic strategies in the prisoner's dilemma. 91h:90134
- Papageorgiou, Yorgos Y. (with Pines, David) The logical foundations of urban economics are consistent. 91i:90019
- Pines, David *see* Papageorgiou, Yorgos Y., 91i:90019

92H20 Mathematical geography and demography

- Artzrouni, Marc (with Renke, James A.) Stochastic differential equations in mathematical demography: a review. 91c:92111
- (with Renke, James A.) Stochastic differential equations in mathematical demography: a review. 91h:92048
- Dwivedi, Sada Nand *see* Pandey, Arvind; et al., (Not in MR)
- Mishra, Ravindra Nath *see* Pandey, Arvind; et al., (Not in MR)
- Pandey, Arvind (with Dwivedi, Sada Nand; Mishra, Ravindra Nath) Distribution of closed birth intervals with some biosocial components: a stochastic model and its application. (Not in MR)
- Renke, James A. *see* Artzrouni, Marc, 91c:92111 and 91h:92048
- Slater, Paul B. Physical-based models of internal migration. (Not in MR)

Items with secondary classifications in 92H20

- Berninghaus, Siegfried (with Seifert-Vogt, Hans Günther) A game theoretical analysis of household migration decisions. 91g:90218
- Dendrinos, Dimitrios S. (with Sonis, Michael) ★ Chaos and socio-spatial dynamics. 91m:92024
- (Griffith, Daniel A.) *see* Spatial statistics: past, present, and future, 91c:62247
- Niou, Emerson M. S. (with Ordeshook, Peter C.) The geographical imperatives of the balance of power in 3-country systems. 91c:92110
- Ordeshook, Peter C. *see* Niou, Emerson M. S., 91c:92110
- Seifert-Vogt, Hans Günther *see* Berninghaus, Siegfried, 91g:90218
- Sonis, Michael *see* Dendrinos, Dimitrios S., 91m:92024

Items listed otherwise than by author

- Spatial statistics: past, present, and future ★ Spatial statistics: past, present, and future. 91c:62247
- Symposium:
Spatial Statistics: Past, Present, and Future ★ Spatial statistics: past, present, and future. 91c:62247
- Syracuse, NY ★ Spatial statistics: past, present, and future. 91c:62247

92H25 Spatial models [see also 90A25]

- Barentsen, W. (with Nijkamp, P.) Modelling nonlinear processes in time and space. 91a:92019
- Dendrinos, Dimitrios S. Nonlinear spatial dynamics, equilibrium states, and static optimization theory. 91c:92112
- Hirche, Joachim Zur Standortoptimierung bezüglich quantitativer und qualitativer Kriterien. [On location optimization with respect to quantitative and qualitative criteria] (Not in MR)
- Nijkamp, P. *see* Barentsen, W., 91a:92019
- Items with secondary classifications in 92H25
- Chan, Wai Leung (with Zhu, Guo Bao) Overtaking optimal control problem of age-dependent populations with infinite horizon. 91h:92021
- Cuzick, Jack (with Edwards, Robert) Spatial clustering for inhomogeneous populations. 91i:60128
- Dendrinos, Dimitrios S. (with Sonis, Michael) ★ Chaos and socio-spatial dynamics. 91m:92024
- Dietzenbacher, Erik Spatial activity allocation modelling: the dominant eigenvector and its corresponding eigenvector. 91k:90040
- Edwards, Robert *see* Cuzick, Jack, 91i:60128
- (Griffith, Daniel A.) *see* Spatial statistics: past, present, and future, 91c:62247
- Shigesada, Nansaku On the spatial distributions of dispersing animals. (see 91c:60002)
- Sleeman, B. D. Spatio-temporal complexity in biological systems. 91c:92065
- Sonis, Michael *see* Dendrinos, Dimitrios S., 91m:92024

- Straffin, Philip D., Jr. Spatial models of power and voting outcomes. 91b:90061
- Zhu, Guo Bao *see* Chan, Wai Leung, 91h:92021

Items listed otherwise than by author

- Spatial statistics: past, present, and future ★ Spatial statistics: past, present, and future. 91c:62247
- Symposium:
Spatial Statistics: Past, Present, and Future ★ Spatial statistics: past, present, and future. 91c:62247
- Syracuse, NY ★ Spatial statistics: past, present, and future. 91c:62247

92H30 Social networks

- Artyushkin, V. F. (with Belyaev, A. V.; Sandler, Yu. M.; Sergeev, V. M.) Neural network ensembles as models of interdependence in collective behavior. 91g:92034
- Bandyopadhyay, Suraj *see* Rao, A. Ramachandra, 91f:92039
- Belyaev, A. V. *see* Artyushkin, V. F.; et al., 91g:92034
- Boyd, Robert (with Richerson, Peter J.) The evolution of indirect reciprocity. 91c:92113
- Burt, Ronald S. Detecting role equivalence. 91c:92114
- Coleman, Andrew A. (with Colman, Andrew M.; Thomas, Richard M.) Cooperation without awareness: a multiperson generalization of the minimal social situation. 91m:92049
- Colman, Andrew M. *see* Coleman, Andrew A.; et al., 91m:92049
- Goswamy, M. (with Kumar, Ashok³) Stochastic model for spread of rumour supported by a leader resulting in collective violence and planning of control measures. 91a:92020
- Kumar, Ashok³ *see* Goswamy, M., 91a:92020
- Rao, A. Ramachandra (with Bandyopadhyay, Suraj) Measures of reciprocity in a social network. 91f:92039
- Richerson, Peter J. *see* Boyd, Robert, 91c:92113
- Sandler, Yu. M. *see* Artyushkin, V. F.; et al., 91g:92034
- Sergeev, V. M. *see* Artyushkin, V. F.; et al., 91g:92034
- Thomas, Richard M. *see* Coleman, Andrew A.; et al., 91m:92049

Items with secondary classifications in 92H30

- Borgatti, Stephen P. *see* Everett, Martin G., 91m:95096
- Bossert, Walter Social evaluation with variable population size: an alternative concept. 91f:90018
- Everett, Martin G. (with Borgatti, Stephen P.) A note on juncture homomorphisms. 91m:95096
- Kotin, Leon *see* Stark, W. Richard, 91h:68058
- Nowak, Martin (with Sigmund, Karl) The evolution of stochastic strategies in the prisoner's dilemma. 91f:90093
- Sigmund, Karl *see* Nowak, Martin, 91f:90093
- Stark, W. Richard (with Kotin, Leon) The social metaphor for distributed processing. 91h:68058

92H35 Manpower systems [see also 90A50, 90B70]

Items with secondary classifications in 92H35

- Drenick, R. F. ★ A mathematical organization theory. 91k:90082
- Efimov, A. N. (with Kuteev, V. M.) Uniform strategies for the formation and control of the evolution of elite groups. (Not in MR)
- Kuteev, V. M. *see* Efimov, A. N., (Not in MR)
- Qu, Xiao Fei (with Wang, Zhong Tuo) Catastrophe analysis of the development of the division of labor. (Chinese. English summary) (Not in MR)
- Wang, Zhong Tuo *see* Qu, Xiao Fei, (Not in MR)

92H99 None of the above, but in this section

- Conlisk, John Monotone mobility matrices. 91e:92026
- Curley, Shawn P. (with Yates, J. Frank) An empirical evaluation of descriptive models of ambiguity reactions in choice situations. 91h:92049
- Druzhinin, V. V. (with Kontorov, D. S.; Kontorov, M. D.) ★ Введение в теорию конфликта. (Russian) [Introduction to conflict theory] 91c:92115
- Kontorov, D. S. *see* Druzhinin, V. V.; et al., 91c:92115
- Kontorov, M. D. *see* Druzhinin, V. V.; et al., 91c:92115
- Lausch, Hans Uncontroversial Murngin. 91m:92050
- (Mikhailov, N. V.) *see* Druzhinin, V. V.; et al., 91c:92115
- Que, Tai Lin *see* Wang, Ming Zhe, (Not in MR)
- (Sukhorukov, Yu. S.) *see* Druzhinin, V. V.; et al., 91c:92115
- Wang, Ming Zhe (with Que, Tai Lin) Order structure of grey judgement matrix. (Not in MR)
- Yates, J. Frank *see* Curley, Shawn P., 91h:92049
- Items with secondary classifications in 92H99
- Bandyopadhyay, Taradas Revealed preference and the axiomatic foundations of intransitive indifference: the case of asymmetric subrelations. 91i:90009
- Bossert, Walter An axiomatization of the single-series Gini. 91c:90031
- Lauritzen, Steffen L. Mixed graphical association models. 91f:62108
- (Oliver, R. M.) *see* Influence diagrams, belief nets and decision analysis, 91i:90007
- Pittel, Boris On a Daley-Kendall model of random rumours. 91k:60033
- Porter, Theodore M. The quantification of uncertainty after 1700: statistics socially constructed? 91h:91106
- (Smith, J. Q.) *see* Influence diagrams, belief nets and decision analysis, 91i:90007
- Wang, Shou Yang An approach to resolve conflicts by trade-off analysis. (Not in MR)
- Items listed otherwise than by author
- Berkeley, CA ★ Influence diagrams, belief nets and decision analysis. 91i:90007

Conference:

- Influence Diagrams for Decision Analysis, Inference and Prediction ★ Influence diagrams, belief nets and decision analysis. 91h:90007
 Influence diagrams, belief nets and decision analysis ★ Influence diagrams, belief nets and decision analysis. 91h:90007

92Jxx Mathematical psychology

- (Haken, Hermann) *see* Synergetics of cognition, 91h:92044
 Serra, Roberto (with Zanarini, Gianni) ★ Complex systems and cognitive processes. 91j:92017
 (Stadler, M.) *see* Synergetics of cognition, 91h:92044
 Zanarini, Gianni *see* Serra, Roberto, 91j:92017

Items listed otherwise than by author

Schloss Elman ★ Synergetics of cognition. 91h:92044

Symposium:

- Synergetics of Cognition ★ Synergetics of cognition. 91h:92044
 Synergetics of cognition ★ Synergetics of cognition. 91h:92044

92J10 Cognitive psychology

- (Buzar, Erol) *see* Chaos in brain function, 91e:92027
 Chow, Yun Shyong *see* Grenander, U.; et al., 91m:92051
 van Doorn, A. J. *see* Koenderink, Jan J., 91c:92117
 Fiedman, Uri The biology of mathematical knowledge. 91h:92045
 Fisher, Donald L. *see* Goldstein, William M., (Not in MR)
 Fuhrmann, Gy. M-fuzziness in brain/mind modelling. 91c:92116
 Galindo, Pedro L. *see* Michaux, Thierry; et al., (91h:68013)
 Goldstein, William M. (with Fisher, Donald L.) Stochastic networks as models of cognition: derivation of response time distributions using the order-of-processing method. (Not in MR)
 Gonzalez, Susana *see* Michaux, Thierry; et al., (91h:68013)
 Grenander, U. (with Chow, Yun Shyong; Keenan, Daniel M.) ★ Hands. 91m:92051
 (Grossberg, Stephen) *see* Adaptive brain, 91m:92052a and 91m:92052b
 Keenan, Daniel M. *see* Grenander, U.; et al., 91m:92051
 Koenderink, Jan J. (with van Doorn, A. J.) Receptive field families. 91c:92117
 Malakooti, Behnam Measurable value functions for ranking and selection of groups of alternatives. (Not in MR)
 Michaux, Thierry (with Galindo, Pedro L.; Gonzalez, Susana) High level speech processing by competitive neural networks: from psychology to simulation. (see 91h:68013)

Items listed otherwise than by author

Adaptive brain ★ The adaptive brain. I. 91m:92052a

— ★ The adaptive brain. II. 91m:92052b

Chaos in brain function ★ Chaos in brain function. 91e:92027

Items with secondary classifications in 92J10

- Alzpurra, Jose Maria (with Nieto, Jorge; Uriarte, Jose Ramon) Choice procedure consistent with similarity relations. 91h:90008
 Bandyopadhyay, Taradas Revealed preference and the axiomatic foundations of intransitive indifference: the case of asymmetric subrelations. 91h:90009
 Bérone, Dominique G. Guided propagation: current state of theory and applications. (see 91h:68013)
 Bourlard, H. (with Morgan, N.; Welkens, C. J.) Statistical inference in multilayer perceptrons and hidden Markov models with applications in continuous speech recognition. (see 91h:68013)
 Chandrasekaran, B. (with Narayanan, N. Hari) Towards a theory of commonsense visual reasoning. 91j:68123
 Grenander, U. (with Keenan, Daniel M.) A computer experiment in pattern theory. 91a:68229
 Hall, Peter Gavin (with Keenan, Daniel M.) Bootstrap methods for constructing confidence regions for hands. 91a:68230
 Keenan, Daniel M. *see* Grenander, U., 91a:68229 and Hall, Peter Gavin, 91a:68230
 (Kilpatrick, Jeremy) *see* Mathematics and cognition, 91h:90011
 Morgan, N. *see* Bourlard, H.; et al., (91h:68013)
 Narayanan, N. Hari *see* Chandrasekaran, B., 91j:68123
 Nau, Robert F. Decision analysis with indeterminate or incoherent probabilities. 91d:90003
 (Nesher, Pearl) *see* Mathematics and cognition, 91h:90011
 Nieto, Jorge *see* Alzpurra, Jose Maria; et al., 91h:90008
 Penrose, Roger Computability in the laws of physics and thought. 91h:90011
 Pöhlmann, Sigrid *see* Weichselberger, Kurt, 91g:68152
 Resnikoff, Howard L. ★ The illusion of reality. 91m:92001
 Sheu, Ching Fan Bi-scalable and difference representations for triadic judgments. 91d:92008
 Uriarte, Jose Ramon *see* Alzpurra, Jose Maria; et al., 91h:90008
 Weichselberger, Kurt (with Pöhlmann, Sigrid) ★ A methodology for uncertainty in knowledge-based systems. 91g:68152
 Welkens, C. J. *see* Bourlard, H.; et al., (91h:68013)
 Williams, Peter M. An interpretation of Shenoy and Shafer's axioms for local computation. 91d:93051

Items listed otherwise than by author

Mathematics and cognition ★ Mathematics and cognition. 91h:90011

92J30 Psychophysics and psychophysiology; perception

- Ahmadi, M. *see* Narasimhamurthi, N.; et al., 91m:92054
 Bondarenko, M. F. (with Shabanov-Kushnarenko, S. Yu.; Shul'gin, I. V.) On conditions for the existence of a subjective metric. (Russian) 91f:92040

- Chua, Leon O. (with Yang, Lin) Cellular neural networks: theory. 91d:92005
 — (with Yang, Lin) Cellular neural networks: applications. 91d:92006
 Farrell, Jay A. *see* Michel, Anthony N.; et al., (Not in MR)
 Hansel, David *see* Meunier, C.; et al., 91c:92118
 van der Helm, P. A. (with Leeuwenberg, E. L. J.) Accessibility: a criterion for regularity and hierarchy in visual pattern codes. (Not in MR)
 Hepp, Klaus On Listing's law. 91m:92053
 Heyer, Dieter (with Niederée, Reinhard) Elements of a model-theoretic framework for probabilistic measurement. 91h:92046
 Hild, M. An algorithmic approach to modelling the retinal receptor topography. 91h:92047
 Hsu, Andreas J. *see* Hsu, Kenneth J., 91f:92041
 Hsu, Kenneth J. (with Hsu, Andreas J.) Fractal geometry of music. 91f:92041
 Judy, Philip F. *see* Kijewski, Marie Foley; et al., 91h:92048
 Kijewski, Marie Foley (with Swenson, Richard G.; Judy, Philip F.) Analysis of rating data from multiple-alternative tasks. 91h:92048
 Kulagin, M. V. *see* Zeleny, A. I., 91m:92055
 Leeuwenberg, E. L. J. *see* van der Helm, P. A., (Not in MR)
 Meunier, C. (with Hansel, David; Verga, A.) Information processing in three-state neural networks. 91c:92118
 Michel, Anthony N. (with Farrell, Jay A.; Sun, Hung-Fa) Analysis and synthesis techniques for Hopfield type synchronous discrete time neural networks with application to associative memory. (Not in MR)
 Mikhailov, A. S. Engineering of dynamical systems for pattern recognition and information processing. (see 91c:90017)
 Miller, J. P. *see* Zhang, Jun, (Not in MR)
 Narasimhamurthi, N. (with Srinivasan, R.; Shridhar, M.; Ahmadi, M.) Shape determination from intensity images—a new algorithm. 91m:92054
 Niederée, Reinhard *see* Heyer, Dieter, 91h:92046
 Pedrycz, Witold Fuzzy set framework for development of a perception perspective. 91h:92050
 Shabanov-Kushnarenko, S. Yu. *see* Bondarenko, M. F.; et al., 91f:92040
 Shridhar, M. *see* Narasimhamurthi, N.; et al., 91m:92054
 Shul'gin, I. V. *see* Bondarenko, M. F.; et al., 91f:92040
 Srinivasan, R. *see* Narasimhamurthi, N.; et al., 91m:92054
 Sun, Hung-Fa *see* Michel, Anthony N.; et al., (Not in MR)
 Swenson, Richard G. *see* Kijewski, Marie Foley; et al., 91h:92048
 Thirring, W. Über vollkommene Tonssysteme. (English summary) [On complete tone systems] (Not in MR)
 Verga, A. *see* Meunier, C.; et al., 91c:92118
 Yang, Lin *see* Chua, Leon O., 91d:92005 and 91d:92006
 Zeleny, A. I. (with Kulagin, M. V.) ★ Интерпретация проблемы распознавания слуховых образов на основе понятия алгоритмической теории информации. (Russian) [Interpretation of the problem of auditory pattern recognition on the basis of concepts in algorithmic information theory] 91m:92055
 Zhang, Jun (with Miller, J. P.) A mathematical model for resolution enhancement in layered sensory systems. (Not in MR)

Items with secondary classifications in 92J30

- Abdou, Ikram E. *see* Dussansey, Nicolas J., 91f:65089
 Arbib, Michael A. *see* Cervantes-Pérez, F., (Not in MR)
 (Buzar, Erol) *see* Chaos in brain function, 91e:92027
 Bunge, Mario Ten philosophies of mind in search of a scientific sponsor. 91f:00003
 Castañeda, Héctor-Neri Perception: demonstrative subjective aspects and noncommunitarian sameness. (see 91e:90038)
 Cervantes-Pérez, F. (with Arbib, Michael A.) Stability and parameter dependency analysis of a facilitation tectal column (FTC) model. (Not in MR)
 Chow, Yun Shyong *see* Grenander, U.; et al., 91m:92051
 Derrida, Bernard Distribution of the activities in a diluted neural network. 91c:92003
 Donald, Matthew J. Quantum theory and the brain. 91d:92041
 Dussansey, Nicolas J. (with Abdou, Ikram E.) Some new multiplicative algorithms for image reconstruction from projections. 91f:65089
 Ellison, D. On the convergence of the Albus perceptron. (Not in MR)
 Grenander, U. (with Chow, Yun Shyong; Keenan, Daniel M.) ★ Hands. 91m:92051
 (Grossberg, Stephen) *see* Adaptive brain, 91m:92052a and 91m:92052b
 Keenan, Daniel M. *see* Grenander, U.; et al., 91m:92051
 Khodashevskii, I. A. The pseudophysical logic of magnitude estimates. 91f:93046
 Kozlov, Yu. M. ★ Адаптация и обучение в робототехнике. (Russian) [Adaptation and learning in robotics] 91d:93048
 Krantz, David M. *see* Suppes, Patrick; et al., 91g:00022
 Luce, R. Duncan *see* Suppes, Patrick; et al., 91g:00022
 Marek, Johann Christian Ein Zugang zum psychophysischen Problem. [An approach to the psychophysical problem] (see 91e:00038)
 Parncutt, Richard ★ Harmony: a psychoacoustical approach. 91c:00015
 Penrose, Roger Computability in the laws of physics and thought. 91h:90011
 Poznański, Roman R. Analysis of a postsynaptic scheme based on a tapering equivalent cable model. (Not in MR)
 Prince, Jerry L. (with Willsky, Alan S.) A geometric projection-space reconstruction algorithm. 91h:65215
 Rössler, O. E. Explicit observers. 91a:58174
 Suppes, Patrick (with Krantz, David M.; Luce, R. Duncan; Tversky, Amos) ★ Foundations of measurement. Vol. II. 91g:00022
 Tang, D.-S. Information-theoretic solutions to early visual information processing: analytic results. 91g:92006
 Tangyan, A. S. A model of correlative perception and its applications to certain problems of pattern recognition. (Russian. English summary) 91f:00005
 Tversky, Amos *see* Suppes, Patrick; et al., 91g:00022
 Uriacher, É. Un système rapidement oscillant. [A rapidly oscillating system] 91h:34063
 Willsky, Alan S. *see* Prince, Jerry L., 91h:65215

Items listed otherwise than by author

Adaptive brain ★ The adaptive brain. I. 91m:92052a

— ★ The adaptive brain. II. 91m:92052b

Chaos in brain function ★ Chaos in brain function. 91c:92027

92J40 Memory and learning [see also 68T05]

Abbott, L. F. Learning in neural network memories. 91c:92119

Abu-Mostafa, Yasser S. Learning from hints in neural networks. 91c:92120

(Aved'yan, E. D.) see Miltzer, J., 91h:92051

Barhen, J. (with Toomarian, N.; Gulati, S.) Application of adjoint operators to neural learning. 91m:92056

Berryman, Kenneth W. (with Inchiosa, Mario E.; Jaffe, Arthur M.; Janowsky, Steven A.) Convergence of an iterative neural network learning algorithm for linearly dependent patterns. 91c:92121

Bruck, Jehoshua (with Roychowdhury, Vwani P.) On the number of spurious memories in the Hopfield model. 91c:92122

Farrell, Jay A. (with Michel, Anthony N.) A synthesis procedure for Hopfield's continuous-time associative memory. 91c:92028

Gulati, S. see Barhen, J., et al., 91m:92056

Inchiosa, Mario E. see Berryman, Kenneth W.; et al., 91c:92121

Jaffe, Arthur M. see Berryman, Kenneth W.; et al., 91c:92121

Janowsky, Steven A. see Berryman, Kenneth W.; et al., 91c:92121

Lancôt, J. Kevin see Oommen, B. John, 91h:92052

Michel, Anthony N. see Farrell, Jay A., 91c:92028

Miltzer, J. (with Parks, P. C.) Convergence properties of associative memory in learning control systems. 91h:92051

Oommen, B. John (with Lancôt, J. Kevin) Discretized pursuit learning automata. 91h:92052

Parks, P. C. see Miltzer, J., 91h:92051

Roychowdhury, Vwani P. see Bruck, Jehoshua, 91c:92122

Smithson, Michael Possibility theory, fuzzy logic, and psychological explanation. 91c:92123

Suppes, Patrick Current directions in mathematical learning theory. 91h:92054

Toomarian, N. see Barhen, J., et al., 91m:92056

Tsodyks, M. V. Associative memory in neural networks with binary synapses. (Not in MR)

Wolpert, David H. A mathematical theory of generalization. I, II. 91h:92019

Items with secondary classifications in 92J40

Arigoni, Anlo O. Bayes' paradigm-based analysis of abductive learning. (French and Italian summaries) 91a:68220

Bridle, John S. Probabilistic interpretation of feedforward classification network outputs, with relationships to statistical pattern recognition. (see 91h:68013)

Chou, Philip A. The capacity of the Kanerva associative memory. 91a:68221

Clark, John W. Introduction to neural networks. 91h:92001

Colijn, Luc see Verschoren, Alain; et al., 91h:68125

Ehrenfeucht, Andrzej (with Haussler, David) Learning decision trees from random examples. 91a:68222

Engel, Andreas Storage of hierarchically correlated patterns. (Not in MR)

Englich, Harald (with Herrmann, Michael) Neural networks as heteroassociative memories. (see 91h:92005)

Farrell, Jay A. see Michel, Anthony N.; et al., (Not in MR)

Gochfeld, David see Thagard, Paul; et al., 91j:68030

(Grossberg, Stephen) see Adaptive brain, 91m:92052a and 91m:92052b

Gutfreund, H. From statistical mechanics to neural networks and back. 91a:82053

Haussler, David see Ehrenfeucht, Andrzej, 91a:68222

Herrmann, Michael see Englich, Harald, (91h:92005)

Holyoak, Keith J. see Thagard, Paul; et al., 91j:68030

Hong, Jia Rong see Zhao, Mei De; et al., 91h:68129

Huang, Wen Hu see Zhao, Mei De; et al., 91h:68129

Hampert, B. A comparative study of neural network architectures. 91c:92005

Karvylans, Nicolas B. (with Venetianopoulos, Anastasios N.) On the dynamics of neural networks realizing associative memories of first and higher order. 91m:92005

Keverne, E. B. see Taylor, John G., (Not in MR)

Michel, Anthony N. (with Farrell, Jay A.; Sun, Hung-Fa) Analysis and synthesis techniques for Hopfield type synchronous discrete time neural networks with application to associative memory. (Not in MR)

Nadal, Jean-Pierre (with Toulouse, Gérard) Information storage in sparsely coded memory nets. 91c:92006

— see also Sirat, J. A., 91m:92010

Narasimha Murty, M. see Sridhar, V., 91h:68070

Neapolitan, Richard E. The principle of interval constraints: a generalization of the symmetric Dirichlet distribution. (Not in MR)

Nelson, Greg see Thagard, Paul; et al., 91j:68030

Nilsson, Nils J. ★ The mathematical foundations of learning machines. 91h:68127

Pirot, Philippe Analysis of a modified Hebbian rule. 91h:92003

Rendell, Larry A. Induction as optimization. 91a:90013

(Sejnowski, Terrence J.) see Nilsson, Nils J., 91h:68127

Sirat, J. A. (with Nadal, Jean-Pierre) Neural trees: a new tool for classification. 91m:92010

Sridhar, V. (with Narasimha Murty, M.) Reasoning with perceived information: a case for nonmonotonic reasoning. 91h:68070

Sun, Hung-Fa see Michel, Anthony N.; et al., (Not in MR)

Taylor, John G. (with Keverne, E. B.) Accessory olfactory learning. (Not in MR)

Thagard, Paul (with Holyoak, Keith J.; Nelson, Greg; Gochfeld, David) Analog retrieval by constraint satisfaction. 91j:68030

Toulouse, Gérard see Nadal, Jean-Pierre, 91c:92006

Venetianopoulos, Anastasios N. see Karvylans, Nicolas B., 91m:92005

Vermeir, Dirk see Verschoren, Alain; et al., 91h:68125

Verschoren, Alain (with Vermeir, Dirk; Colijn, Luc) A category-theoretic framework for knowledge and learning. 91j:68125

Wasilewska, Anita Approximate classification and static learning. 91a:68227

Weller, W. A learnable neural classifier. (see 91h:92005)

(White, Halbert) see Nilsson, Nils J., 91h:68127

Williams, Peter M. An interpretation of Shenoy and Shafer's axioms for local computation. 91i:03051

Zhao, Mei De (with Huang, Wen Hu; Hong, Jia Rong) A hybrid learning method for multilayer perceptrons. 91h:68129

Items listed otherwise than by author

Adaptive brain ★ The adaptive brain. I. 91m:92052a

— ★ The adaptive brain. II. 91m:92052b

92J45 Measurement and performance

Bandelt, Hans-Jürgen (with Dress, Andreas W. M.) Weak hierarchies associated with similarity measures—an additive clustering technique. 91a:92021

Barthélémy, Jean-Pierre Median graphs and tree analysis of dichotomous data, an approach to qualitative factor analysis. 91c:92124

van Blokland-Vogelsang, Rian A. W. Midpoint sequences, intransitive J scales and scale values in unidimensional unfolding. 91c:92125

Dress, Andreas W. M. see Bandelt, Hans-Jürgen, 91a:92021

Harvey, Lawrence (with Roberts, Fred S.) On the theory of meaningfulness of ordinal comparisons in measurement. II. 91d:92007

Orlich, Bernhard Testable conditions for the existence of a qualitative J scale in unfolding. 91a:92022

Roberts, Fred S. Merging relative scores. 91c:92029

— see also Harvey, Lawrence, 91d:92007

Schwarz, Wolfgang A general counter model for refractory phenomena. 91f:92042

Shen, Ching Fan Bi-scalable and difference representations for triadic judgments. 91d:92008

Takahashi, Iwaro Analysis of AHP by BIBD. 91h:92049

Items with secondary classifications in 92J45

Batchelder, William H. (with Romney, A. Kimball) New results in test theory without an answer key. 91a:62289

Farquhar, Peter H. (with Keller, L. Robin) Preference intensity measurement. 91a:90017

Keller, L. Robin see Farquhar, Peter H., 91a:90017

Klauser, Karl Christoph Ordinal network representation: representing proximities by graphs. 91a:62290

Romney, A. Kimball see Batchelder, William H., 91a:62289

Wasilewska, Anita Approximate classification and static learning. 91a:68227

92J99 None of the above, but in this section

Chwedorowicz, Józef Origin, structure and function of fuzzy beliefs. 91c:92126

Dyer, James S. Remarks on the analytic hierarchy process. 91a:92023

(Harker, Patrick T.) see Dyer, James S., 91a:92023

Krylov, V. Yu. (with Kurdyumov, S. P.; Malinetski, G. G.) Psychology and synergetics. (Russian) (Not in MR)

Kurdyumov, S. P. see Krylov, V. Yu.; et al., (Not in MR)

Malinetski, G. G. see Krylov, V. Yu.; et al., (Not in MR)

(Saaty, Thomas L.) see Dyer, James S., 91a:92023

(Shachter, Ross D.) see Special Issue: Influence diagrams, 91c:92030

Tonn, Bruce see Wagner, Carl G., 91c:92127

(Vargas, Luis G.) see Dyer, James S., 91a:92023

Wagner, Carl G. (with Tonn, Bruce) Diagnostic conditionalization. 91c:92127

Zimmer, A. C. A common framework for colloquial quantifiers and probability terms. 91a:92024

Items listed otherwise than by author

Special Issue:

Influence diagrams ★ Special issue on influence diagrams. 91c:92030

Items with secondary classifications in 92J99

Barthélémy, Jean-Pierre (with Mullet, E.) Choice basis, a model for multi-attribute preference: some more evidence. 91a:90007

(Cohen, Michael A.) see Marley, A. A. J., 91f:90009

(Falmagne, Jean-Claude) see Marley, A. A. J., 91f:90009

Fishburn, Peter C. (with Roberts, Fred S.; Marcus-Roberts, Helen M.) Van Lier sequences. 91h:11016

Flor, Peter Zu einer Anwendung der Psychoanalyse auf die mathematische Grundlagenforschung. [On an application of psychoanalysis to mathematical basic research] (Not in MR)

(Gardner, Martin) see Penrose, Roger, 91c:00010

Guénoche, A. Construction du treillis de Galois d'une relation binaire. (English summary)

[Construction of the Galois lattice of a binary relation] 91h:06011

Gunji, Yukio Autonomous system including an observer, illustrating dynamic instability of individual microtubules. 91h:58042

Iskurnatov, A. T. The logic of intensional acts and game theory. (Russian) 91g:03062

Marcus-Roberts, Helen M. see Fishburn, Peter C.; et al., 91h:11016

Marley, A. A. J. A historical and contemporary perspective on random scale representations of choice probabilities and reaction times in the context of Michael Cohen and Jean-Claude Falmagne's results. A comment on: "Random utility representation of binary choice probabilities: a new class of necessary conditions" [J. Math. Psych. 34 (1990), no. 1, 88-94; MR 91c:90003] by Cohen and Falmagne. 91f:90009

Mullet, E. see Barthélémy, Jean-Pierre, 91a:90007

(Oliver, R. M.) see Influence diagrams, 91c:92030

Penrose, Roger ★ The emperor's new mind. 91c:00010

Robert, Claudine An entropy concentration theorem: applications in artificial intelligence and descriptive statistics. 91j:94010

Roberts, Fred S. *see* Flahburn, Peter C.; et al., 91h:11016
(Smith, J. Q.) *see* Influence diagrams, belief nets and decision analysis, 91i:90007

Items listed otherwise than by author

Berkeley, CA ★ Influence diagrams, belief nets and decision analysis. 91i:90007
Conference:

Influence Diagrams for Decision Analysis, Inference and Prediction ★ Influence diagrams, belief nets and decision analysis. 91i:90007

Influence diagrams, belief nets and decision analysis ★ Influence diagrams, belief nets and decision analysis. 91i:90007

92Kxx Other social and behavioral sciences (mathematical treatment)

92K10 History, political science

Dendrinos, Dimitrios S. Spatially distributed stocks, deterministic evolution, and ecological balance. 91h:92053

Fomenko, A. T. ★ Статистическая хронология. (Russian) [Statistical chronology] 91m:92057

(Kovalchenko, I. D.) *see* Mathematical methods and computers in historical-topological research, 91e:92031

(Shiryaev, A. N.) *see* Fomenko, A. T., 91m:92057

Items listed otherwise than by author

Mathematical methods and computers in historical-topological research ★ Математические методы в ЭВМ в историко-типологических исследованиях. (Russian) [Mathematical methods and computers in historical-topological research] 91e:92031

Items with secondary classifications in 92K10

Gehrlein, William V. The expected likelihood of transitivity for a probabilistic chooser. 91g:90044

Karhonen, Pekka J. (with Moskowitz, Herbert; Wallenius, Jyrki) Choice behavior in interactive multiple-criteria decision making. 91h:90053

Lang, Serge ★ Case studies of political opinions passed off as science and mathematics. (Not in MR)

Molnár, Sándor *see* Szidárovsky, Ferenc; et al., 91m:90205

Moskowitz, Herbert *see* Karhonen, Pekka J.; et al., 91h:90053

Okuguchi, Koji *see* Szidárovsky, Ferenc; et al., 91m:90205

Popesco, Emil On the structure of preordered sets. 91h:68125

Straffin, Philip D., Jr. Spatial models of power and voting outcomes. 91h:90061

Szidárovsky, Ferenc (with Molnár, Sándor; Okuguchi, Koji) On a general scheme in the theory of conflicts. 91m:90205

Wallenius, Jyrki *see* Karhonen, Pekka J.; et al., 91h:90053

92K20 Linguistics [see also 03B65, 68S05]

Items with secondary classifications in 92K20

Newstead, Stephen E. Quantifiers as fuzzy concepts. 91f:03053

Nicolis, John S. (with Tsuda, Ichiro) On the parallel between Zipf's law and 1/f processes in chaotic systems possessing coexisting attractors. 91d:58165

Tsuda, Ichiro *see* Nicolis, John S., 91d:58165

92K99 None of the above, but in this section

Bradburne, James M. The strange attraction of chaos. 91h:92050

Muraskin, M. Summation-over-paths degree of freedom and the loop lattice. (Not in MR)

Items with secondary classifications in 92K99

Rasagonda Nonelli, D. Juan Line geometry and architecture. (Spanish. English and Catalan summaries) 91c:51039

Bérczi, Sz. Symmetry and technology in ornamental art of old Hungarians and Avar-Onogurians from the archaeological finds of the Carpathian Basin, seventh to tenth century A.D. 91a:01058b

Bossert, Walter (with Pfingsten, Andreas) Intermediate inequality: concepts, indices, and welfare implications. 91g:90026

Chorbachi, W. K. In the tower of Babel: beyond symmetry in Islamic design. 91a:01058c

Di Battista, Giuseppe (with Nardelli, Enrico) Hierarchies and planarity theory. 91c:93001

Gerdas, Paulus Reconstruction and extension of lost symmetries: examples from the Tamil of South India. 91a:01058d

Haken, Hermann Synergetics: theory of self-organization in complex systems. (see 91f:90006)

Kendall, David G. A survey of the statistical theory of shape. 91a:60037

Nailimov, V. V. Can philosophy be mathematized? Probabilistic theory of meanings and semantic architectonics of personality. 91f:00006

Nardelli, Enrico *see* Di Battista, Giuseppe, 91c:93001

Pfingsten, Andreas *see* Bossert, Walter, 91g:90026

93-XX Systems theory; control {For optimal control, see 49-XX.}

(Sussmann, Héctor J.) *see* Nonlinear controllability and optimal control, 91b:93001

Items listed otherwise than by author

Nonlinear controllability and optimal control ★ Nonlinear controllability and optimal control. 91b:93001

93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 93-00

Lukas, V. A. ★ Теория автоматического управления. (Russian) [Automatic control theory] 91j:93001

93-01 Instructional exposition (textbooks, tutorial papers, etc.)

Lukas, V. A. ★ Теория автоматического управления. (Russian) [Automatic control theory] 91j:93001

Sontag, Eduardo D. ★ Mathematical control theory. 91m:93001

Items with secondary classifications in 93-01

Butkovskii, A. G. Recent research on control of distributed and lumped systems: a brief summary. (see 91m:93004)

93-02 Research exposition (monographs, survey articles)

(Bryant, Greyham F.) *see* Grimble, Michael J., 91e:93001a and 91e:93001b

(Burov, M. B.) *see* Butkovskii, A. G., 91f:93001

Butkovskii, A. G. (with Samolonenko, Yu. I.) ★ Control of quantum-mechanical processes and systems. 91f:93001

Christensen, G. S. (with Soliman, S. A.; Nieva, R.) ★ Optimal control of distributed nuclear reactors. 91h:93002

Dancev, A. V. *see* Panchenkov, A. N.; et al., 91k:93003

Desoer, C. A. *see* Gündes, A. N., 91e:93001

Faure, P. L'évolution des idées et des réalisations en automatique. (English summary) [Control theory in perspective] (see 91m:90042)

Fedosov, E. A. (with Insarov, V. V.; Selivokhin, O. S.) ★ Системы управления конечным положением в условиях противодействия среды. (Russian) [Systems for controlling terminal position under conditions of counteraction of the environment] 91g:93001

Gajic, Zoran (with Petkovski, Djordjija B.; Shen, Xuemin) ★ Singularly perturbed and weakly coupled linear control systems. 91j:93002

Glover, Keith *see* McFarlane, D. C., 91b:93003

Grimble, Michael J. (with Johnson, Michael A.) ★ Optimal control and stochastic estimation: theory and applications. Vol. 1. 91e:93001a

— (with Johnson, Michael A.) ★ Optimal control and stochastic estimation: theory and applications. Vol. 2. 91e:93001b

Gündes, A. N. (with Desoer, C. A.) ★ Algebraic theory of linear feedback systems with full and decentralized compensators. 91i:93001

Gutman, Shaul ★ Root clustering in parameter space. 91k:93001

Insarov, V. V. *see* Fedosov, E. A.; et al., 91g:93001

Jakubczyk, Bronisław (with Sontag, Eduardo D.) Controllability of nonlinear discrete-time systems: a Lie-algebraic approach. 91m:93002a

— (with Sontag, Eduardo D.) Erratum: "Controllability of nonlinear discrete-time systems: a Lie-algebraic approach". 91m:93002b

Johnson, Michael A. *see* Grimble, Michael J., 91e:93001a and 91e:93001b

Kliokys, Edvardas *see* Nemura, Antanas, 91i:93002

Marro, Giovanni ★ Teoria dei sistemi e del controllo. (Italian) [Systems and control theory] 91k:93002

McFarlane, D. C. (with Glover, Keith) ★ Robust controller design using normalized coprime factor plant descriptions. 91b:93003

Nemura, Antanas (with Kliokys, Edvardas) ★ Оценки параметров и состояния систем. (Russian) [Estimation of the parameters and the state of systems] 91i:93002

Neshcheret, V. I. *see* Panchenkov, A. N.; et al., 91k:93003

Nieva, R. *see* Christensen, G. S.; et al., 91h:93002

Omatu, Sigeru (with Seinfeld, John H.) ★ Distributed parameter systems. 91g:93002

Panchenkov, A. N. (with Ruzhnikov, G. M.; Dancev, A. V.; Sigalov, G. F.; Neshcheret, V. I.; Zabolonova, N. A.) ★ Асимптотические методы в задачах оптимального проектирования и управления движением. (Russian) [Asymptotic methods in problems of the optimal design and control of motion] 91k:93003

Paraev, Yu. I. ★ Уравнения Ляпунова и Риккати. (Russian) [Lyapunov and Riccati equations] 91d:93001

Petkovski, Djordjija B. *see* Gajic, Zoran; et al., 91j:93002

Pronzato, L. *see* Walter, Eric, (Not in MR)

Ruzhnikov, G. M. *see* Panchenkov, A. N.; et al., 91k:93003

Samolonenko, Yu. I. *see* Butkovskii, A. G., 91f:93001

Seinfeld, John H. *see* Omatu, Sigeru, 91g:93002

Selivokhin, O. S. *see* Fedosov, E. A.; et al., 91g:93001

Shen, Xuemin *see* Gajic, Zoran; et al., 91j:93002

Sigalov, G. F. *see* Panchenkov, A. N.; et al., 91k:93003

Soliman, S. A. *see* Christensen, G. S.; et al., 91h:93002

Sontag, Eduardo D. *see* Jakubczyk, Bronisław, 91m:93002a and 91m:93002b

Spong, Mark W. Control of flexible-joint robots: a survey. (see 91m:93004)

Sussmann, Héctor J. Why real analyticity is important in control theory. 91b:93004

Walter, Eric (with Pronzato, L.) Qualitative and quantitative experiment design for phenomenological models—a survey. (Not in MR)

Zabolonova, N. A. *see* Panchenkov, A. N.; et al., 91k:93003

Items with secondary classifications in 93-02

Banks, H. T. (with Kuniach, Karl) ★ Estimation techniques for distributed parameter systems. 91b:93005

Bendat, Julius S. ★ Nonlinear system analysis and identification from random data. 91b:93168

- Conte, Giuseppe (with Perdon, A.-M.) Zeros, poles and modules in linear system theory. 91b:93064
- Deng, Ju Long Corrigenda: "Introduction to grey system theory" [J. Grey System 1 (1989), no. 1, 1-24]. (Not in MR)
- Foulds, Leslie R. see Yamada, Takeo, 91m:93007
- Haber, R. (with Unbehauen, H.) Structure identification of nonlinear dynamic systems—a survey on input/output approaches. (Not in MR)
- Hanzawa, B. ★ Identifiability, recursive identification and spaces of linear dynamical systems. Part I. 91j:93039a
- ★ Identifiability, recursive identification and spaces of linear dynamical systems. Part II. 91j:93039b
- Karlov, V. I. (with Krasil'shchikov, M. N.; Malyshev, V. V.) Controlling observational process under conditions of statistical uncertainty (survey). II. 91b:93178
- (with Krasil'shchikov, M. N.; Malyshev, V. V.) Control of the observation process in stochastic systems. 91c:93080
- Keis, I. A. ★ Агрегирование в субоптимальном синтезе многомерных систем. (Russian) [Aggregation in the suboptimal design of multidimensional systems] 91b:93011
- Krasil'shchikov, M. N. see Karlov, V. I.; et al., 91b:93178 and 91c:93080
- Kunisch, Karl see Banks, H. T., 91b:93085
- Malyshev, V. V. see Karlov, V. I.; et al., 91b:93178 and 91c:93080
- Moskalyuk, S. S. see Verlan', A. F., 91h:35002
- Nijmeijer, Henk (with van der Schaft, A. J.) ★ Nonlinear dynamical control systems. 91d:93024
- (Pavlovskii, Yu. N.) see Modeling and optimization of complex dynamical processes, 91k:93011
- Perdon, A.-M. see Conte, Giuseppe, 91b:93064
- Piet-Lahanier, Hélène see Walter, Eric, 91m:93125
- Prasada Rao, Ganti see Unbehauen, H., (Not in MR)
- van der Schaft, A. J. see Nijmeijer, Henk, 91d:93024
- Sebryakov, G. G. (with Semenov, A. V.) Design of linear stationary multidimensional systems based on input-output mapping. Methods of H^∞ -theory control (a survey). 91b:93073
- Semenov, A. V. see Sebryakov, G. G., 91b:93073
- Šiljak, Dragoslav D. Parameter space methods for robust control design: a guided tour. 91b:93055
- Skorokhod, A. V. Probability. Applied aspects. (Russian) (see 91b:60003)
- Strobach, Peter ★ Linear prediction theory. 91b:93171
- Unbehauen, H. (with Prasada Rao, Ganti) Continuous-time approaches to system identification—a survey. (Not in MR)
- see also Haber, R., (Not in MR)
- Verlan', A. F. (with Moskalyuk, S. S.) ★ Математическое моделирование непрерывных динамических систем. (Russian) [Mathematical modeling of continuous dynamical systems] 91h:35002
- Walter, Eric (with Piet-Lahanier, Hélène) Estimation of parameter bounds from bounded-error data: a survey. 91m:93125
- (Willems, Jan C.) see From data to model, 91c:93031
- Yamada, Takeo (with Foulds, Leslie R.) A graph-theoretic approach to investigate structural and qualitative properties of systems: a survey. 91m:93007

Items listed otherwise than by author

From data to model ★ From data to model. 91c:93031

Modeling and optimization of complex dynamical processes ★ Моделирование и оптимизация сложных динамических процессов. (Russian) [Modeling and optimization of complex dynamical processes] 91k:93011

93-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 93-03

- Malyshev, V. A. The philosophy of large systems, and traditional mathematics. (Russian). English summary. 91b:01151
- Sussmann, Héctor J. Thirty years of optimal control. Was the path unique? 91e:01018
- Warga, Jack Some selected problems of optimal control. 91k:01012

93-04 Explicit machine computation and programs (not the theory of computation or programming)

- Akhriif, O. (with Blankenship, G. L.) Symbolic computations in differential geometry applied to nonlinear control systems. (see 91f:00012)
- Blankenship, G. L. see Akhriif, O., (91f:00012)

93-06 Proceedings, conferences, collections, etc.

- (Abramov, Yu. A.) see Mathematical methods in the theory of computer-aided design systems, robots and systems, 91k:93005
- (Bensoussan, Alain) see Analysis and optimization of systems, 91f:93002
- (Buslaeva, L. T.) see Control problems and some problems in nonsmooth optimization, 91k:93004
- (Chen, Gong) see Distributed parameter control systems, 91m:93004
- (Davis, Mark H. A.) see Applied stochastic analysis, 91m:93003
- (Dyatlov, V. P.) see Control problems and some problems in nonsmooth optimization, 91k:93004
- (Elliott, Robert James) see Applied stochastic analysis, 91m:93003
- (Emel'yanov, S. V.) see Methods of the control and planning of complex systems, 91m:93005
- (Lee, E. Bruce) see Distributed parameter control systems, 91m:93004
- (Leonides, Cornelius T.) see Control and dynamic systems, 91h:93001
- (Lions, Jacques-Louis) see Analysis and optimization of systems, 91f:93002
- (Littman, Walter) see Distributed parameter control systems, 91m:93004
- (Markus, Lawrence) see Distributed parameter control systems, 91m:93004

- (Szőp, J.) see Mathematical analysis and systems theory, 91i:93003
- (Tallós, P.) see Mathematical analysis and systems theory, 91i:93003

Items listed otherwise than by author

- Analysis and optimization of systems ★ Analysis and optimization of systems. 91f:93002
- Antibes ★ Analysis and optimization of systems. 91f:93002
- Applied stochastic analysis ★ Applied stochastic analysis. 91m:93003
- Conference:
- Analysis and Optimization of Systems ★ Analysis and optimization of systems. 91f:93002
- Control and dynamic systems ★ Control and dynamic systems. Vol. 36. 91h:93001
- Control problems and some problems in nonsmooth optimization ★ Задачи управления и некоторые вопросы негладкой оптимизации. (Russian) [Control problems and some problems in nonsmooth optimization] 91k:93004
- Distributed parameter control systems ★ Distributed parameter control systems. 91m:93004
- Itogi Nauki i Tekhniki ★ Методы управления и планирования сложных систем. (Russian) [Methods of the control and planning of complex systems] 91m:93005
- Lecture Notes in Control and Information Sciences ★ Analysis and optimization of systems. 91f:93002
- London ★ Applied stochastic analysis. 91m:93003
- Mathematical analysis and systems theory ★ Mathematical analysis and systems theory. V. 91i:93003
- Mathematical methods in the theory of computer-aided design systems, robots and systems ★ Математические методы в теории САПР, роботов и систем. (Russian) [Mathematical methods in the theory of computer-aided design systems, robots and systems] 91k:93005
- Methods of the control and planning of complex systems ★ Методы управления и планирования сложных систем. (Russian) [Methods of the control and planning of complex systems] 91m:93005
- Minneapolis, MN ★ Distributed parameter control systems. 91m:93004
- Workshop:
- Applied Stochastic Analysis ★ Applied stochastic analysis. 91m:93003
- New Trends and Applications of Distributed Parameter Control Systems ★ Distributed parameter control systems. 91m:93004

Items with secondary classifications in 93-06

- (Alsaaghe, S. A.) see Control of dynamical systems, 91b:90026
- (Boffi, Vincio C.) see Applications of mathematics in industry and technology, 91g:00040
- (Elaydi, Saber) see Differential equations, 91m:00031
- (Filippova, T. F.) see Dynamic estimation problems under conditions of uncertainty, 91e:93026
- (Gusev, M. L.) see Dynamic estimation problems under conditions of uncertainty, 91e:93026
- (Kim, A. V.) see Some control and stability problems, 91e:49003
- (Klirin, N. E.) see Mathematical methods for the modeling and analysis of controllable processes, 91c:00013
- (Maksimov, V. I.) see Some control and stability problems, 91e:49003
- (Neunzert, Helmut) see Applications of mathematics in industry and technology, 91g:00040

Items listed otherwise than by author

Applications of mathematics in industry and technology ★ Applications of mathematics in industry and technology. 91g:00040

Colorado Springs, CO ★ Differential equations. 91m:00031

Conference:

- Differential Equations: Theory and Applications in Stability and Control ★ Differential equations. 91m:00031
- Control of dynamical systems ★ Управление динамическими системами. (Russian) [Control of dynamical systems] 91b:90026
- Differential equations ★ Differential equations. 91m:00031
- Dynamic estimation problems under conditions of uncertainty ★ Динамические задачи оценивания в условиях неопределенности. (Russian) [Dynamic estimation problems under conditions of uncertainty] 91e:93026
- Mathematical methods for the modeling and analysis of controllable processes ★ Математические методы моделирования и анализа управляемых процессов. (Russian) [Mathematical methods for the modeling and analysis of control processes] 91c:00013
- Siena ★ Applications of mathematics in industry and technology. 91g:00040
- Some control and stability problems ★ Некоторые задачи управления и устойчивости. (Russian) [Some control and stability problems] 91e:49003
- Symposium:
- Applications of Mathematics in Industry and Technology ★ Applications of mathematics in industry and technology. 91g:00040

93Axx General

93A05 Axiomatic system theory

- Faradzev, R. G. see Osetinskii, N. I., (Not in MR)
- Osetinskii, N. I. (with Faradzev, R. G.) Absolute invariance and the problem of the classification of linear time-independent dynamical systems. (Russian) (Not in MR)
- Sivkov, A. N. (with Smirnov, E. Ya.) On a problem of the analytic construction of discrete and continuous optimal controllers. (Russian) (see 91h:34001)
- Smirnov, E. Ya. see Sivkov, A. N., (91h:34001)

93A10 General systems

- Cao, Zhi Qiang see Kandel, Abraham; et al., 91m:93006
- Deng, Ju Long Corrigenda: "Properties of multivariable grey model GM(1, N)" [J. Grey System 1 (1989), no. 1, 25-41; MR 90j:93005]. 91b:93005
- Grey information space. (Not in MR)
- Corrigenda: "Introduction to grey system theory" [J. Grey System 1 (1989), no. 1, 1-24]. (Not in MR)
- Foulds, Leslie R. see Yamada, Takeo, 91m:93007

- Gille, Jean-Charles *see* Węgrzyn, Stefan; et al., 91h:93002
 Guo, Ding He *see* Wu, Xue Mou, (Not in MR)
 Hayton, G. E. *see* Pugh, A. C.; et al., (Not in MR)
 Hoang Tien Theoretical foundation: a fuzzy reasoning method for advanced control systems and expert systems. 91e:93002
 Iijima, Junichi *see* Takahara, Yasuhiko; et al., 91h:93008
 Ivanova, A. V. (with Sushkov, Yu. A.) Multistate systems of bipolar functional elements. (Russian) (Not in MR)
 Kandel, Abraham (with Peng, Xian Tu; Cao, Zhi Qiang; Wang, Pei Zhuang) Representation of concepts by factor spaces. 91m:93006
 Li, Bing Qian Three-data modelling of grey system theory. (Not in MR)
 Lin, Ai Zhong The basic theory for forming the optimum architecture of a system. 91d:93002
 Lin, Yi P. Remarks on the concept of dynamical systems. 91h:93006
 — (with Ma, Yonghao) Remarks on the definition of systems. 91f:93003
 — Inverse hierarchies of general systems. 91h:93007
 Ma, Yonghao *see* Lin, Yi P., 91f:93003
 Peng, Xian Tu *see* Kandel, Abraham; et al., 91m:93006
 Popstov, S. L. Semigroup evolving systems. (Russian) (see 91k:93005)
 Pugh, A. C. (with Hayton, G. E.; Walker, A. B.) System matrix characterization of input-output equivalence. (Not in MR)
 Štěpán, Jaromír The uncertainty problem in control theory. II. The internally robust procedures. (Not in MR)
 Sushkov, Yu. A. *see* Ivanova, A. V., (Not in MR)
 Szatkowski, Andrzej Generalized dynamical systems: differentiable dynamic complexes and differential dynamic systems. 91f:93004
 Takahara, Yasuhiko (with Iijima, Junichi; Takahashi, Shingo) Characterization of systems properties by F -morphisms as a new morphism for similarity. 91h:93008
 Takahashi, Shingo *see* Takahara, Yasuhiko; et al., 91h:93008
 Tan, Cheng Ye Grey relational analysis of strong earthquake precursors. (Not in MR)
 Vidal, Pierre *see* Węgrzyn, Stefan; et al., 91h:93002
 Walker, A. B. *see* Pugh, A. C.; et al., (Not in MR)
 Wang, Pei Zhuang *see* Kandel, Abraham; et al., 91m:93006
 Wang, Shu Ji Fixed pansystems theorems and eigen-fuzzy sets. (Chinese. English summary) 91c:93003
 Węgrzyn, Stefan (with Vidal, Pierre; Gille, Jean-Charles) On some models for developmental systems. XII. More on internal context sensitivity. 91h:93002
 Whitaker, James V. A dynamical theory of evolution in general systems. (Not in MR)
 Wu, Xue Mou (with Guo, Ding He) Investigation and applications of pansystems recognition theory and pansystems-operations research of large-scale systems. II. (Not in MR)
 Wunsch, Gerhard Mechanics from a system-theoretic point of view. 91i:93004
 Yamada, Takao (with Foulds, Leslie R.) A graph-theoretic approach to investigate structural and qualitative properties of systems: a survey. 91m:93007

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- Brock, William A. (with Malliaris, A. G.) ★ Differential equations, stability and chaos in dynamic economics. 91a:90047
 Eriksson, Karl-Erik (with Lindgren, Kristian; Månsson, Bengt Å.) ★ Structure, context, complexity, organization. 91e:82031
 Gefman, L. M. (with Levin, M. I.) Models of innovative processes (a survey of foreign literature). (Russian) 91h:90054
 Knight, Julia F. (with Passino, K. M.) Decidability for a temporal logic used in discrete-event system analysis. (Not in MR)
 Levin, M. I. *see* Gefman, L. M., 91h:90054
 Leyva-Ramos, J. Partial-fraction expansion in system analysis. 91m:93081
 Li, Yao Xian (with Zhao, Yu Fu) The application of grey system theory to long-term prediction of weather. (Not in MR)
 Lindgren, Kristian *see* Eriksson, Karl-Erik; et al., 91e:82031
 Malliaris, A. G. *see* Brock, William A., 91a:90047
 Månsson, Bengt Å. *see* Eriksson, Karl-Erik; et al., 91e:82031
 Novák, Vilém ★ Fuzzy sets and their applications. 91a:04007
 Passino, K. M. *see* Knight, Julia F., (Not in MR)
 Picci, Giorgio Stochastic aggregation. 91c:93069
 Sierocki, Ireneusz A description of a set of hypotheses for system identification problem. 91c:93029
 Ushio, Yoshimitsu Feedback logic for discrete event systems with arbitrary control patterns. 91m:93074
 Wolpert, David H. A mathematical theory of generalization. I, II. 91i:92019
 Zhao, Yu Fu *see* Li, Yao Xian, (Not in MR)

93A13 Hierarchical systems

- Abdallah, N. *see* Brdyš, M. A.; et al., (Not in MR)
 Brdyš, M. A. (with Abdallah, N.; Roberts, P. D.) Augmented model-based double iterative loop techniques for hierarchical control of complex industrial processes. (Not in MR)
 Cuchra, W. The architecture of hierarchy: a quantitative approach. 91f:93005
 Di Battista, Giuseppe (with Nardelli, Enrico) Hierarchies and planarity theory. 91c:93001
 Fu, Chun Sheng (with Liu, Meng; Lu, Jian Zhong; Wang, Shu Qing; Wang, Ji Cheng) A proposed structure for a hierarchical control system. (Not in MR)
 Galndrik, K. V. (with Levchenko, V. I.) Multilevel models in problems of planning and control. (Russian) (Not in MR)
 Hendaw, Z. M. *see* Lin, Jie; et al., 91h:93009
 Hu, Bao Sheng *see* Lin, Jie; et al., 91h:93009
 Ji, Guo Li An augmented open-loop interaction balance method. (Chinese. English summary) 91h:93005
 Levchenko, V. I. *see* Galndrik, K. V., (Not in MR)
 Lin, Jie (with Hendaw, Z. M.; Roberts, P. D.; Hu, Bao Sheng) A two-model approach to steady state optimal control of large-scale industrial processes. (Chinese. English summary) 91h:93009

- (with Roberts, P. D.; Wang, Mian Sen; Wan, Bai Wu) Hierarchical integrated identification and optimization approach for on-line stochastic optimizing control of large-scale steady-state industrial processes. (Not in MR)
 Liu, Yi P. Periodic linked hierarchies of systems. 91k:93006
 — (with Ma, Yonghao) System hierarchies with continuous linkage mappings. 91h:93003
 Liu, Meng *see* Fu, Chun Sheng; et al., (Not in MR)
 Lu, Jian Zhong *see* Fu, Chun Sheng; et al., (Not in MR)
 Ma, Yonghao *see* Lin, Yi P., 91h:93003
 Nardelli, Enrico *see* Di Battista, Giuseppe, 91c:93001
 Roberts, P. D. *see* Lin, Jie; et al., 91h:93009; Brdyš, M. A.; et al., (Not in MR) and Lin, Jie; et al., (Not in MR)
 Shapovalov, A. V. *see* Tsurkov, V. I., (Not in MR)
 Tsurkov, V. I. (with Shapovalov, A. V.) A two-level procedure in problems of control of disperse systems. (Not in MR)
 Wan, Bai Wu *see* Lin, Jie; et al., (Not in MR)
 Wang, Ji Cheng *see* Fu, Chun Sheng; et al., (Not in MR)
 Wang, Mian Sen *see* Lin, Jie; et al., (Not in MR)
 Wang, Shu Qing *see* Fu, Chun Sheng; et al., (Not in MR)

Items with secondary classifications in 93A13

- Al-Fuhaid, A. S. *see* Bahnasawi, Ahmed A.; et al., 91h:93116
 Bahnasawi, Ahmed A. (with Al-Fuhaid, A. S.; Mahmoud, Magdi S.) A new hierarchical control structure for a class of uncertain discrete systems. 91h:93116
 Chang, Tsu Shuan *see* Tang, Jianxin; et al., 91g:90159
 Chentsov, A. G. *see* Zadikhin, L. V., 91k:90246
 Duda, Zdzisław *see* Gessing, Ryszard, 91i:93108
 Gessing, Ryszard (with Duda, Zdzisław) Two-level stochastic LQ control problem for a dynamic system. 91i:93108
 Khalezov, A. D. Application of tunable strategies in multistage conflicts under risky conditions. 91e:90091
 Li, Chuan Xiang The hierarchical structure interval theorem. (Chinese) 91f:05114
 Luh, Peter B. *see* Tang, Jianxin; et al., 91g:90159
 Mahmoud, Magdi S. *see* Bahnasawi, Ahmed A.; et al., 91h:93116
 Samylovskii, A. I. Optimization of a multidimensional system based on a coordinated analysis of its elements. 91k:93008
 Tang, Jianxin (with Luh, Peter B.; Chang, Tsu Shuan) Mixed coordination method for nonlinear programming problems with separable structures. 91g:90159
 Wan, Bai Wu *see* Wang, Wu Yi, (Not in MR)
 Wang, Wu Yi (with Wan, Bai Wu) Hierarchical optimization of nonconvex steady state large-scale systems. (Chinese. English summary) (Not in MR)
 Zadikhin, L. V. (with Chentsov, A. G.) A two-level model for a controllable nonlinear system. (Russian) 91k:90246

93A14 Decentralized systems

- Chen, Shu Zhong A matrix equation and decentralized disturbance decoupling. (Chinese. English summary) 91e:93004
 — *see also* Hu, Yang Zeng, (Not in MR)
 Chernous'ko, F. L. Decomposition of the control of a dynamical system. 91i:93006
 Commault, C. (with Dion, Jean Michel; Torres, J. A.) Minimal structure in the block decoupling problem with stability. 91m:93008
 Dai, Guan Zhong *see* Huang, Zhan, 91f:93006
 Dion, Jean Michel *see* Commault, C.; et al., 91m:93008
 Elbanna, Refaat M. *see* Sandareshan, Mahir K., 91e:93007 and 91m:93013
 Ėlkin, V. I. Decomposition of control systems that are linear with respect to the controls. (Russian) 91m:93009
 Fornasini, Ettore (with Marchesini, Giovanni) Noninteracting control of 2-D systems. (Not in MR)
 Gao, Guang Min *see* Liu, Zi Feng, 91m:93011
 Hu, Yang Zeng (with Chen, Shu Zhong) Two algebraic characteristics of fixed impulse modes of decentralized generalized systems. (Chinese. English summary) (Not in MR)
 Huang, Zhan (with Dai, Guan Zhong) Robust decentralized control of uncertain multivariable linear systems. (Chinese. English summary) 91f:93006
 Kozlov, V. N. (with Shashikhin, V. N.) Synthesis of large-scale systems with delay in the cross connections. 91k:93007
 Leros, A. P. Discrete LSS linear regulator problem: a partially decentralized approach. (Not in MR)
 Lin, Feng (with Wonham, W. Murray) Decentralized control and coordination of discrete-event systems with partial observation. 91m:93010
 Lin, Wei Sung *see* Mao, Cheng Chi, (Not in MR)
 Litvinchev, I. S. Decomposition in control of systems of the hyperbolic type with crossed connections. 91f:93007
 Liu, Zi Feng (with Gao, Guang Min) A further study on decentralized control for interconnected systems. (Chinese. English summary) 91m:93011
 Liu, Zun Yi (with Xia, Dao Zhi) A criterion for eigenvectors of decentralized fixed modes and its application. (Chinese. English summary) 91h:93008
 Mao, Cheng Chi (with Lin, Wei Sung) Decentralized control of a class of nonlinear time-varying interconnected systems. (Chinese summary) (Not in MR)
 Marchesini, Giovanni *see* Fornasini, Ettore, (Not in MR)
 Novitskiĭ, V. V. Decomposition and modal control in linear systems. (Russian) 91e:93005
 Özgüler, A. Bülent Decentralized control: a stable proper fractional approach. 91h:93004
 Panferov, V. N. (with Tsurkov, Yu. V.) On a procedure for the synthesis of a linear invariant law for the control of a group of dynamic objects. (Russian) (Not in MR)
 Samylovskii, A. I. Optimization of a multidimensional system based on a coordinated analysis of its elements. 91k:93008
 de la Sen, Manuel On algebraic equivalences between decentralized and centralized linear control. 91e:93006
 — Algebraic results for linear-equation structures involving polynomial block-matrix partitions. Some implications in decentralized control theory. 91m:93012
 Shashikhin, V. N. *see* Kozlov, V. N., 91k:93007

- Sulek, B. (with Vrba, J.) A decomposition algorithm for the simulation approach SESIM and its evaluation. (Not in MR)
- Sundareshan, Malur K. (with Elbanna, Refaat M.) Design of decentralized observation schemes for large-scale interconnected systems: some new results. 91c:93007
- (with Elbanna, Refaat M.) Qualitative analysis and decentralized controller synthesis for a class of large-scale systems with symmetrically interconnected subsystems. 91m:93013
- Turres, J. A. see Commaut, C.; et al., 91m:93008
- Turkan, Yu. V. see Panferov, V. N., (Not in MR)
- Vrba, J. see Sulek, B., (Not in MR)
- Wen, Chuan Yuan see Zhang, Hong Yi, 91c:93002
- Wanham, W. Murray see Lin, Feng, 91m:93010
- Xia, Dao Zhi see Liu, Zan Yi, 91c:93008
- Zhang, Hong Yi (with Wen, Chuan Yuan) Structural interconnected sets in decentralized control systems and their application. (Chinese. English summary) 91c:93002
- Items with secondary classifications in 93A14
- Alouani, A. T. Distributed estimators for nonlinear systems. 91m:93118
- Andersland, Mark S. Decoupling nonsequential stochastic control problems. 91j:93098
- Arkan, Yaman see Chin, Min-Sen, 91m:93091
- Beauchamp, G. see Lewis, F. L.; et al., 91k:93077
- Bell, D. J. (with Tsang, W.) Invertibility and decoupling of linear time-varying systems. 91k:93044
- Chang, Fan Jen see Chu, Chia Chi, (Not in MR)
- Chang, Timothy N. see Davison, Edward J., 91m:93065
- Chang, Tsu Shuan see Tang, Jianxin; et al., (Not in MR)
- Chin, Min-Sen (with Arkan, Yaman) A new result on relative gain array, Niederlinski index and decentralized stability condition: 2×2 plant cases. 91m:93091
- Chu, Chia Chi (with Chang, Fan Jen) Some results on the problems of decentralized reliable stabilization. (Not in MR)
- Davison, Edward J. (with Chang, Timothy N.) Decentralized stabilization and pole assignment for general proper systems. 91m:93065
- Lewis, F. L. (with Beauchamp, G.; Özaldıran, K.; Malhamé, Roland) Large-scale dynamical interconnections of stochastic singular systems. 91k:93077
- Luh, Peter B. see Tang, Jianxin; et al., (Not in MR)
- Malhamé, Roland see Lewis, F. L.; et al., 91k:93077
- Özaldıran, K. see Lewis, F. L.; et al., 91k:93077
- Picci, Giorgio Stochastic aggregation. 91i:93096
- Tang, Jianxin (with Luh, Peter B.; Chang, Tsu Shuan) Mixed coordination method for long-horizon optimal control problems. (Not in MR)
- Tarokh, M. Approach to pole assignment by centralized and decentralized output feedback. 91h:93035
- Tsang, W. see Bell, D. J., 91k:93044
- Zou, Yun Necessary and sufficient tests for separability of N -dimensional systems. (Chinese. English summary) (Not in MR)

93A15 Large scale systems

- Da, Qing Li see He, Jian Min; et al., (Not in MR)
- Davison, Edward J. see Vaz, A. F., (Not in MR)
- Dmitrovskii, A. E. Structural-parametric design of complex aggregate systems. (Russian) (see 91k:93005)
- Floudas, Christodoulos A. see Georgiou, Apostolos, 91a:93001
- Gajic, Zoran see Zhuang, Jiachen, (Not in MR)
- Gao, Xian Lin (with Zhang, Yong Chuan) Decentralized MRAS robust control of interconnected systems with measurable interconnection terms. (Chinese. English summary) 91b:93010
- Georgiou, Apostolos (with Floudas, Christodoulos A.) Structural properties of large scale systems. 91a:93001
- Glushchenko, V. V. A functional-decompositional representation of complex technological systems. (Not in MR)
- He, Jian Min (with Da, Qing Li; Xu, Nan Rong) A gross output prediction method for optimal analysis of a nonlinear dynamical input-output model. (Not in MR)
- Kabulov, A. V. (with Kartavtsev, G. I.) Optimization procedures in algorithms for the synthesis of aggregates. (Russian) (Not in MR)
- Kartavtsev, G. I. see Kabulov, A. V., (Not in MR)
- Kels, I. A. ★ Агрегирование в субоптимальном синтезе многомерных систем. (Russian) [Aggregation in the suboptimal design of multidimensional systems] 91k:93011
- Lerner, V. S. (with Roikhef, B. Z.) Construction of the dynamical macromodel of a random object and solution of control problems. (Russian) 91g:93003
- Litvinchev, I. S. Decomposition of large dynamical systems with interconnections (a survey). 91j:93003
- Novitskii, V. V. Decomposition of linear control systems. (Russian) 91h:93005
- Orlov, V. N. Macrodynamical equations and description of large scale system. 91c:93003
- Pesterev, A. V. Some properties of spectral-parameter-dependent meromorphic matrices that arise in the study of the spectra of complex systems. 91c:93009
- Roikhef, B. Z. see Lerner, V. S., 91g:93003
- Shmul'yan, B. L. Local stability of equilibria of the interaction of entropy subsystems. 91k:93009
- Stănculescu, F. Knowledge-based analysis of large scale systems by using a mathematical-heuristic model. Methodology of simulation and control, and results. (Not in MR)
- Vaz, A. F. (with Davison, Edward J.) Modular model reduction for interconnected systems. (Not in MR)
- Xu, Nan Rong see He, Jian Min; et al., (Not in MR)
- Zhang, Yong Chuan see Gao, Xian Lin, 91b:93010
- Zhuang, Jiachen (with Gajic, Zoran) Stochastic multimodel strategy with perfect measurements. (Not in MR)
- Items with secondary classifications in 93A15
- Barabanov, A. E. (with Sokolov, Andrei Arianovich) Structural realizability of controllers in multidimensional multiply coupled control systems. (Russian) 91b:93024

- Chiang, Hsiao-Dong (with Fekih-Ahmed, Lazhar) A constructive methodology for estimating the stability regions of interconnected nonlinear systems. 91d:93067
- Ch'iu, Chin Hsien see Wang, Wen Chün, (Not in MR)
- (Darwish, M. G.) see Shen, Chin Chung, (Not in MR)
- Fekih-Ahmed, Lazhar see Chiang, Hsiao-Dong, 91d:93067
- Fellachi, Ali Decentralized filtering for interconnected systems. 91h:93068
- Hasiewicz, Zygmunt Jerzy Applicability of least-squares to the parameter estimation of large-scale no-memory linear composite systems. 91b:93050
- Ikeda, Masao see Tan, Xiang-Ling, (Not in MR)
- K'ung, Fan Ch'ü see Shen, Chin Chung, (Not in MR)
- Liao, Xiao Xin see Xiao, Hui Min, 91f:93075
- Lin, Wei Sung see Mao, Cheng Chi, 91b:49039
- Mao, Cheng Chi (with Lin, Wei Sung) Decentralized control of interconnected systems with unmodelled nonlinearity and interaction. 91b:49039
- Özveren, Cüneyt M. (with Willsky, Alan S.) Aggregation and multi-level control in discrete event dynamic systems. (see 91f:93002)
- Shen, Chin Chung (with K'ung, Fan Ch'ü) Comments on: "Design of decentralized reliable controllers for large-scale systems" [Internat. J. Systems Sci. 19 (1988), no. 8, 1529-1538] by M. G. Darwish and H. M. Soliman. (Not in MR)
- Shu, Zhong Zhou General identification theorems for the asymptotic stability of large-scale systems. (Chinese. English summary) (Not in MR)
- Sokolov, Andrei Arianovich see Barabanov, A. E., 91b:93024
- (Soliman, H. M.) see Shen, Chin Chung, (Not in MR)
- Tan, Xiang-Ling (with Ikeda, Masao) Decentralized stabilization for expanding construction of large-scale systems. (Not in MR)
- Wang, Wen Chün (with Ch'iu, Chin Hsien) A new decentralized stabilization design for large-scale systems. (Chinese summary) (Not in MR)
- Willsky, Alan S. see Özveren, Cüneyt M., (91f:93002)
- Wu, Yao Hua² see Xu, Xiao Hao, (Not in MR)
- Xiao, Hui Min (with Liao, Xiao Xin) Stability and boundedness of large-scale discrete systems relative to a subset of the variables. (Chinese) 91f:93075
- Xie, Sheng Li Connective stability of large-scale systems with time delay. (Chinese. English summary) 91b:34132
- Xu, Xiao Hao (with Wu, Yao Hua²) Decentralized adaptive control of a discrete large-scale system in the presence of bounded disturbances. (Chinese. English summary) (Not in MR)
- Zhong, Yi Lin The stability of two kinds of nonlinear nonautonomous large scale systems. (Not in MR)

93A20 Cascaded systems

- Dê Công Khanh Structural cascade decomposition of linear stationary systems, connected with the Kalman decomposition. (Not in MR)
- Eitelberg, E. Feedforward into local loops of plant modifying cascaded feedback systems. (Not in MR)
- Items with secondary classifications in 93A20
- Ball, Joseph A. (with Gohberg, Israel) Cascade decompositions of linear systems in terms of realizations. 91a:93008
- Dê Công Khanh On a theory of factorization of transfer functions of passive scattering systems. (Russian. English summary) 91a:93014
- Gohberg, Israel see Ball, Joseph A., 91a:93008
- Harcourt, Jean-Philippe Nonlinear control of missiles through a geometric approach. (see 91f:93002)
- Hrovat, Harry S. Simplifying H_∞ controller synthesis via classical feedback system structure. (Not in MR)
- Minagawa, Kenji see Watanabe, Eiji; et al., (Not in MR)
- Nishihara, Akinori see Watanabe, Eiji; et al., (Not in MR)
- Selbert, Peter (with Suárez, Rodolfo) Global stabilization of nonlinear cascade systems. 91h:93146
- Suárez, Rodolfo see Selbert, Peter, 91h:93146
- Watanabe, Eiji (with Minagawa, Kenji; Nishihara, Akinori) A synthesis of low-sensitivity digital filters using T -cascade connections. Extraction of wave digital lattice filter sections. (Not in MR)

93A25 Input-output systems

- Ball, David (with Sandberg, Irwin W.) g - and h -representations for nonlinear maps. 91g:93004
- Di Benedetto, M. D. Nonlinear strong model matching. 91h:93006
- Sandberg, Irwin W. see Ball, David, 91g:93004

93A30 Mathematical modeling (models of systems, model-matching, etc.)

- Abramov, Yu. A. Mathematical constructions in problems of estimating properties in the dynamics of complex systems. (Russian) (see 91k:93005)
- Aldeen, M. Interaction modelling approach to distributed control with application to power systems. (Not in MR)
- Blazhenova-Mikulich, L. Yu. Modeling of instrument errors and external actions in navigational problems. (Russian) 91i:93010
- Farag, K. see Öz, H.; et al., (Not in MR)
- Flayagina, V. I. Modeling a mobile control in distributed-parameter two-dimensional systems. (Not in MR)
- Li, Bing Qian The grey modelling for central symmetry sequences. 91i:93011
- Nassirharand, A. (with Taylor, James Hugh) Frequency-domain modeling of nonlinear multivariable systems. (Not in MR)
- Norkin, V. I. A method for constructing linear models on constrained experimental data. (Russian) (see 91m:90005)
- Onaral, Bann see Tsao, Yuan-Ying, (Not in MR)

- Öz, H. (with Farag, K.; Venkayya, V. B.) Efficiency of structure-control systems. (Not in MR)
- (Pavlovskii, Yu. N.) *see* Modeling and optimization of complex dynamical processes. 91k:93011
- Prasolov, A. V. Construction of local mathematical models of a controllable process. (Russian) (see 91k:00010)
- Rabinovich, Ya. I. *see* Vlasov, A. I., (91k:93011)
- Romanovskii, M. R. Planning an experiment for mathematical model identification. (Not in MR)
- Sushil Simplified physical system theory model of a closed chain production system. (Not in MR)
- Takahara, Yasuhiko (with Takahashi, Shingo) General framework of structural similarity between system models. 91k:93010
- Takahashi, Shingo *see* Takahara, Yasuhiko, 91k:93010
- Tang, Wu Xiang Generalized grey model. 91k:93012
- Taylor, James Hugh *see* Nassirharand, A., (Not in MR)
- Tsao, Yuan-Ying (with Onural, Banu) Singularity structure analysis of fractal relaxation systems. (Not in MR)
- Venkayya, V. B. *see* Öz, H.; et al., (Not in MR)
- Vlasov, A. I. (with Rabinovich, Ya. I.) An interactive system for designing the shape of an aircraft. (Russian) (see 91k:93011)

Items listed otherwise than by author

Modeling and optimization of complex dynamical processes ★ Моделирование и оптимизация сложных динамических процессов. (Russian) [Modeling and optimization of complex dynamical processes] 91k:93011

Items with secondary classifications in 93A30

- Cherruault, Y. *see* Tedjani, A.; et al., (Not in MR)
- Guillez, A. *see* Tedjani, A.; et al., (Not in MR)
- Murray, J. M. Optimal control for a cancer chemotherapy problem with general growth and loss functions. 91m:92017
- Petrosyan, L. A. (with Zakharov, V. V.) ★ Введение в математическую экологию. (Russian) [Introduction to mathematical ecology] 91k:92001
- Shalenov, A. A. Elimination of topological degeneracies in systems of evolution differential equations. 91k:34048
- Stepashko, V. S. Asymptotic properties of external criteria for model selection. 91h:93074
- Tedjani, A. (with Guillez, A.; Cherruault, Y.) Modélisation d'un mouvement complexe: la marche du chat. (English summary) [Modelling a complex motion: the walk of a cat] (Not in MR)
- Whittaker, James V. A dynamical theory of evolution in general systems. (Not in MR)
- Zakharov, V. V. *see* Petrosyan, L. A., 91k:92001

93A99 None of the above, but in this section

- Bashaleishvili, D. I. Mathematical models of nonlinear decreasing and increasing systems. (Russian. English and Georgian summaries) (Not in MR)
- Dumbadze, M. N. Classification algorithms based on a search for the kernels of a sequence of embedded monotone systems. (Not in MR)
- Gao, Long Ying (with Wang, Min) Pansystems logical conservation of reduction and clustering of panweighted networks, and its application in distinguishing economic regions. (Chinese. English summary) 91h:93012
- Wang, Min *see* Gao, Long Ying, 91h:93012

93Bxx Controllability, observability, and system structure

93B03 Attainable sets

- Burgmeier, Peter (with Jahn, K.-U.; Plokhov, A. G.) An interval computational method for approximating controllability sets. (German summary) 91f:93007
- Butenina, N. N. (with Pavlyuchonok, Z. G.) Separatrix loops and bifurcations of domains of controllability. (Russian) 91m:93014
- Cao, Li² (with Zheng, Yu Fan) On the reachable semigroup of bilinear control systems on Lie group. 91c:93004
- Davydov, A. A. The quasi-Hölder property of the boundary of attainability. (Russian) 91d:93003
- Fedorov, A. Ya. Development of accessibility areas and nonlinear dynamic systems controllability. 91j:93004
- Hofmann, Karl Heinrich (with Lawson, Jimmie D.) Local semigroups in Lie groups and locally reachable sets. 91f:93013
- Jahn, K.-U. *see* Burgmeier, Peter; et al., 91f:93007
- Kondrat'ev, D. L. (with Lotov, A. V.) Exterior estimates and construction of attainable sets for nonlinear control systems. (Russian) 91d:93004
- Lawson, Jimmie D. *see* Hofmann, Karl Heinrich, 91f:93013
- Lerman, S. F. *see* Pokotilo, V. G., 91k:93012
- Leugering, Günter On the reachability problem of a viscoelastic beam during a slewing maneuver. 91h:93013
- Lotov, A. V. *see* Kondrat'ev, D. L., 91d:93004
- Pavlyuchonok, Z. G. *see* Butenina, N. N., 91m:93014
- Plokhov, A. G. *see* Burgmeier, Peter; et al., 91f:93007
- Plotnikov, A. V. Compactness of the attainability set of a nonlinear differential inclusion that contains a control. (Russian. English summary) (Not in MR)
- Pokotilo, V. G. ★ Новый метод квазиоптимальной аппроксимации пересечения эллипсоидов. (Russian) [A new method for quasi-optimal approximation of the intersection of ellipsoids] 91m:93015
- (with Lerman, S. F.) Asymptotic properties of ellipsoids that approximate information sets. (Russian) 91k:93012
- Rexin, Emilio O. Some applications of the attainable set of $\dot{x} = A(u(t))x$. (see 91m:00031)
- Rumchev, Ventseslav G. Constructing the reachability sets for positive linear discrete-time systems. The case of polyhedra. (Russian and Polish summaries) 91h:93007
- Semenov, Yu. M. The structure of the set of almost instantaneous zero-attainability. 91k:93013
- Starus, B. G. On the controllability set for a system with inertial control. (Russian) 91d:93005
- Wojenski, Peter R. The exponential formula for the reachable set of a Lipschitz differential inclusion. 91j:93005
- Zheng, Yu Fan *see* Cao, Li², 91c:93004
- Items with secondary classifications in 93B03
- Darlen, Joanne Accessible sets for analytic control systems in \mathbb{R}^2 . 91b:49002
- Filatov, O. P. (with Khapaev, Mikhail Mikhailovich) On mutual ε -approximation of solutions of a system of differential inclusions and of an averaged inclusion. 91c:34016
- Khapaev, Mikhail Mikhailovich *see* Filatov, O. P., 91c:34016
- Mikhailov, A. V. Ellipsoids that contain the sum of a finite number of ellipsoids. (Russian) 91m:93078
- Nikonor, O. I. Multivalued Lagrange functions in control-estimation problems. (Russian) 91f:49044
- Papageorgiou, Nikolaos S. Relaxation of infinite-dimensional control systems. 91b:49042
- Samoilova, T. I. Approximate calculation of the support function of the accessibility domain of a quasilinear system. (Russian) 91f:49046
- 93B05 Controllability
- Adda, Philippe (with Sallet, Gauthier) Détermination algorithmique de la contrôlabilité pour des familles finies de champs de vecteurs linéaires sur $\mathbb{R}^2 - \{0\}$. (English summary) [A control algorithm for finite families of linear vector fields in $\mathbb{R}^2 - \{0\}$] 91f:93014
- Aisagallier, S. A. Controllability and stability of nonlinear systems. (Russian) 91c:93005
- (with Bilyarov, T. N.; Kalimoldayev, M. N.) Controllability of complex electrical power systems. (Russian) (see 91b:00026)
- Balachandran, Krishnan (with Dauer, Jerald P.) Controllability of nonlinear systems to affine manifolds. 91c:93006
- Basto Gonçalves, J. Local controllability in 3-manifolds. 91c:93007
- Bell, D. J. (with Pan, Guo Lin) Past and future developments in controllability, decoupling, and invertibility of nonlinear control systems. (Not in MR)
- Belousov, A. A. (with Chikrii, A. A.) Global controllability in game problems of dynamics. 91j:93006
- *see also* Chikrii, A. A., 91m:93016
- Bensoussan, Alain On the general theory of exact controllability for skew symmetric operators. 91k:93014
- Bergmann, Joachim (with Koschützke, Anita) Vollsteuerbarkeitskriterien für Goursat-Aufgaben dritter Ordnung. (English summary) [Complete controllability criteria for third-order Goursat problems] 91c:93008
- Blanchini, Rosa Maria (with Stefani, Gianna) Graded approximations and controllability along a trajectory. 91d:93006
- Bilyarov, T. N. *see* Aisagallier, S. A.; et al., (91b:00026)
- Blanchini, Franco Controllability analysis and eigenvalue assignment for generalized state-space systems. 91j:93007
- Bokor, J. *see* Keviczky, L., 91h:93015
- Borovikov, I. A. An approach to almost controllability in the theory of nonlinear dynamical systems. (Russian) 91a:93002
- Brown, Robert Freeman (with Zezza, Pier Luigi) Multiple local solutions to nonlinear control processes. 91j:93008
- Bulgakov, A. I. On controlling functional-differential systems. (Russian) (see 91h:34001)
- Burgmeier, Peter Controllability of systems with distributed parameters that can be described by m th-order Goursat-Darboux systems. 91f:93015
- Cal, Xiu Nan Necessary and sufficient conditions for controllability of an infinite-dimensional semilinear system. (Chinese. English summary) (Not in MR)
- Chirikov, A. S. Construction of a retention set for control systems by the method of cycle surfaces. (Russian) (see 91h:00021)
- Cheng, Dai Zhan (with Dayawansa, W. P.; Martin, Clyde Franklin) Global controllability of reduced input nonlinear systems. (Russian summary) 91f:93016
- Chernous'ko, F. L. Constrained controls in linear oscillating systems. 91f:93017
- Chikrii, A. A. (with Belousov, A. A.) The controllability problem for conflict-control processes. 91m:93016
- *see also* Belousov, A. A., 91j:93006
- Dantlov, L. I. (with Ivanov, A. G.) Effective sufficient conditions for uniform local controllability. 91f:93008
- Dauer, Jerald P. *see* Balachandran, Krishnan, 91c:93006
- Dayawansa, W. P. *see* Cheng, Dai Zhan; et al., 91f:93016
- DeCarlo, Raymond A. *see* Wicks, Mark A., (Not in MR)
- Delfini, Pierre *see* Lobry, Claude, 91f:93019
- De, V. N. Controllability of semilinear systems. 91d:93007
- El Assoudi, Rachida (with Gauthier, Jean-Paul) Contrôlabilité sur l'espace quotient d'un groupe de Lie par un sous-groupe compact. (English summary) [Controllability on the quotient of a Lie group by a compact subgroup] 91m:93017
- Everitt, W. Norrie (with Markus, Lawrence) Controllability of $[r]$ -matrix quasi-differential equations. 91m:93018
- Fabre, Caroline Équation des ondes avec second membre singulier et application à la contrôlabilité exacte. (English summary) [Wave equation with singular second member and application to exact controllability] 91d:93008
- Fanti, M. P. (with Maione, B.; Turchiano, B.) Controllability of multi-input positive discrete-time systems. (Not in MR)
- Gauthier, Jean-Paul *see* El Assoudi, Rachida, 91m:93017
- Ghesquiers, Ph. Algebraic characterization of controllability subspaces in the current base and its practical computation. 91d:93009
- Gorokhovik, S. Ya. *see* Gorokhovik, V. V., 91g:93005
- Gorokhovik, V. V. (with Gorokhovik, S. Ya.) Sufficient conditions for first-order and second-order local controllability. (Russian) 91g:93005

- Grasse, Kevin A. (with Sussmann, Hector J.) Global controllability by nice controls. 91j:93009
- Hakomori, K. see Yoshii, K., 91a:93004
- Hirschorn, R. M. Global controllability of locally linearizable systems. (Not in MR)
- Ho, Lop Fat Exact controllability of the one-dimensional wave equation with locally distributed control. 91b:93014
- Ivanov, A. G. see Danilov, L. I., 91f:93008
- Ivashchenko, Yu. V. (with Semenov, V. N.) An algorithm for testing the controllability property of a class of nonlinear controllable dynamical systems. (Russian) 91m:93019
- Jód, István Contrôlabilité exacte et propriétés d'oscillation de l'équation des ondes par analyse nonharmonique. (English summary) [Exact controllability and oscillation properties of the wave equation by nonharmonic analysis] 91k:93015
- Kaczorek, Tadeusz General response formula and minimum energy control for the general singular model of 2-D systems. 91d:93010
- Kalimoldae, M. N. see Aisagaliev, S. A.; et al., (91b:00026)
- Kappel, Franz (with Peichl, G.) Preservation of controllability under approximation for delay systems. (Portuguese summary) 91h:93008
- Kawski, Matthias High-order small-time local controllability. 91j:93010
- The complexity of deciding controllability. 91e:93009
- Keviczky, L. (with Bokor, J.) Stochastic realization of stationary processes: state-space, matrix fraction and ARMA forms. 91h:93015
- Komornik, Vilmos Exact controllability in short time. 91d:93011
- Koschützke, Anita see Bergmann, Joachim, 91e:93008
- Krishchenko, A. P. (with Nazareno, A. N.) Sets of controllability for second-order nonlinear systems. 91e:93010
- Kučera, Vladimír see Malabre, Michel; et al., (Not in MR)
- Kupka, Ivan A. K. Applications of semigroups to geometric control theory. 91f:93009
- Lagnese, John E. The reachability problem for thermoelastic plates. 91h:93018
- Lange, Otfried Steuerbarkeit für stationäre Zustände bei speziellen dynamischen Systemen. (English and Russian summaries) [Controllability for stationary states in special dynamic systems] (Not in MR)
- Finite controllability of linear parabolic systems with stationary final states. 91j:93011
- Lasiecka, Irena (with Triggiani, Roberto) Exact controllability of the Euler-Bernoulli equation with boundary controls for displacement and moment. 91k:93016
- Lia, Xunguo (with Tade, Moses O.; Newell, Robert B.) Output structural controllability condition for the synthesis of control systems for chemical processes. (Not in MR)
- Lohry, Claude (with Delfini, Pierre) Formal controllability and physical controllability of linear systems. 91h:93019
- Maione, B. see Fanti, M. P.; et al., (Not in MR)
- Malabre, Michel (with Kučera, Vladimír; Zagalak, Petr) Reachability and controllability indices for linear descriptor systems. (Not in MR)
- Marighi, A. On the 0-local controllability of a linear control system. 91e:93008
- Markus, Lawrence Control of quasi-differential equations. 91m:93020
- see also Everitt, W. Norrie, 91m:93018
- Martin, Clyde Franklin see Cheng, Dai Zhan; et al., 91i:93016
- Minyuk, S. A. On the theory of complete controllability of linear time-dependent systems. 91d:93012
- On a theory of the controllability and completeness of systems of difference equations in the presence of constraints on the control and on the initial conditions. 91m:93021
- Motreanu, D. Strong accessibility with respect to a submerison. (Russian summary) 91e:93009
- Murota, Kazuo (with Poljak, Svatopluk) Note on a graph-theoretic criterion for structural output controllability. 91h:93009
- Nail, Olivier Contrôlabilité exacte sur une partie du bord des équations de Maxwell. (English summary) [Exact controllability on part of the boundary of Maxwell's equations] 91h:93016
- Narmanov, A. Ya. On the stability of completely controllable systems. (Russian) (Not in MR)
- Nazarenko, A. N. see Krishchenko, A. P., 91e:93010
- Newell, Robert B. see Lin, Xunguo; et al., (Not in MR)
- Nguyen Huynh Phán The cohomology algebra of the manifold of the controllable and observable linear systems of dimension 1. 91k:93017
- Nguyen Khoa So'n A unified approach to constrained approximate controllability for the heat equations and the retarded equations. 91c:93010
- see also Vũ Ngọc Phán, 91h:93018
- Niane, Mary Teww Contrôlabilité exacte spectrale élargie des systèmes distribués par action sur une partie analytique arbitraire de la frontière. (English summary) [Relaxed exact spectral controllability of distributed systems by an action on an arbitrary analytic part of the boundary] 91d:93013
- Nicosia, S. (with Tomei, Patrizio; Tornambè, Antonio) Observer-based control law for a class of nonlinear systems. 91d:93014
- Nikoukhah, Ramin Construction of autonomous boundary value linear systems from acausal input-output functions. 91h:93010
- Onaibev, K. On the theory of the controllability of nonlinear systems. (Russian) (see 91h:90026)
- Pan, Guo Lin see Bell, D. J., (Not in MR)
- Park, Jong Yeoul see Yamamoto, Masahiro, 91j:93012
- Peichl, G. see Kappel, Franz, 91h:93008
- Pliss, P. V. The behavior of the controllability set of the van der Pol equation with control when the parameter tends to infinity. 91m:93022
- Poljak, Svatopluk see Murota, Kazuo, 91h:93009
- Rocha, Paula (with Willems, Jan C.) Controllability of delay-differential systems. 91m:93023
- Sallet, Gauthier see Adda, Philippe, 91i:93014
- Semenov, V. N. see Ivashchenko, Yu. V., 91m:93019
- de la Sen, Manuel see Soto, J. C., (Not in MR)
- Shklyar, B. Sh. On the controllability of linear systems with distributed parameters. 91h:93017
- Soto, J. C. (with de la Sen, Manuel) Suboptimal regulation of a class of bilinear interconnected systems on finite time-sliding planning horizons. (Not in MR)
- Stefani, Gianna see Bianchini, Rosa Maria, 91d:93006
- Sussmann, Hector J. see Grasse, Kevin A., 91j:93009
- Tade, Moses O. see Lin, Xunguo; et al., (Not in MR)
- Tan, Hua Lin see Yang, Cheng Wu, (Not in MR)
- Tomei, Patrizio see Nicosia, S.; et al., 91d:93014
- Tornambè, Antonio see Nicosia, S.; et al., 91d:93014
- Triggiani, Roberto see Lasiecka, Irena, 91k:93016
- Turchiano, B. see Fanti, M. P.; et al., (Not in MR)
- Vinterfel'd, R. E. Sufficient conditions for the controllability of nonlinear dynamical systems. (Russian) (see 91h:90026)
- Vũ Ngọc Phán An application of implicit function theorems in the solution of problems on the controllability of time-dependent discrete systems. 91k:93018
- (with Nguyễn Khoa So'n) Linear nonstationary control systems: null-controllability with restrained controls in Banach spaces. 91h:93018
- Wagenknecht, M. On the controllability of fuzzy multistage systems. (Not in MR)
- Warga, Jack Local and global directional controllability: sufficient conditions and examples. 91a:93003
- Wicks, Mark A. (with DeCarlo, Raymond A.) Gramian assignment based on the Lyapunov equation. (Not in MR)
- Willems, Jan C. Controllability and observability in a new perspective. 91f:93010
- see also Rocha, Paula, 91m:93023
- Xi, Hong Sheng (with Yang, Xiao Xian) Controllability, observability and duality of boundary value linear systems. (Chinese summary) 91d:93015
- Yamamoto, Masahiro (with Park, Jong Yeoul) Controllability for parabolic equations with uniformly bounded nonlinear terms. 91j:93012
- Yang, Cheng Wu (with Tan, Hua Lin) Some notes on the controllability of generalized systems. (Chinese. English summary) (Not in MR)
- Yang, Xiao Xian see Xi, Hong Sheng, 91d:93015
- Yoshii, K. (with Hakomori, K.) Characteristic multiplier assignment in continuous-time linear periodic systems. 91a:93004
- Zagalak, Petr see Malabre, Michel; et al., (Not in MR)
- Zezza, Pier Luigi see Brown, Robert Freeman, 91j:93008

Items with secondary classifications in 93B05

- (Ailon, Amit) see Troch, I., 91j:49042
- Alfriend, Kyle T. see Longman, Richard W., (Not in MR)
- Bogmér, A. A string equation with special boundary conditions. 91a:35097
- Betulina, N. N. (with Pavlyuchonok, Z. G.) Separatrix loops and bifurcations of domains of controllability. (Russian) 91m:93014
- Chang, Fan Jen see Fang, Chin Hsiung, 91h:93091
- Chen, Enke see Laforêt, Stéphane, 91c:93049
- Cioranescu, Dolina (with Donato, Patrizia; Zuazua, Enrique) Contrôlabilité exacte frontière de l'équation des ondes dans des domaines avec des petits trous. (English summary) [Exact boundary controllability for the wave equation in domains with small holes] 91j:35036
- Conte, Giuseppe see Wyman, Bostwick F.; et al., 91k:93029
- Ding, Xianchun (with Frank, Paul M.) Structure analysis via orthogonal functions. 91h:93036
- Dobos, Imre The singularity problem of the open dynamic Leontief model. (Hungarian. English summary) 91a:90048
- Doedel, Eusebius J. see Kervérez, J.-P.; et al., 91j:90076
- Donato, Patrizia see Cioranescu, Dolina; et al., 91j:35036
- Fang, Chin Hsiung (with Chang, Fan Jen) Realization algorithm for constructing a controllable representation of a singular system with a special coordinate. 91h:93091
- Fisher, Michael Ernest (with Noakes, J. Lyle; Teo, Kok Lay) A minimum trapping time problem in optimal control theory. 91j:49030
- Floudas, Christodoulos A. see Georgiou, Apostolos, 91a:93001
- Frank, Paul M. see Ding, Xianchun, 91h:93036
- Frankowska, Halina On controllability and observability of implicit systems. 91d:49007
- Fujiiwara, Hideo Computational complexity of controllability/observability problems for combinational circuits. (Not in MR)
- Gawronski, Włodzimierz (with Juang, Jer-Nan) Model reduction in limited time and frequency intervals. 91h:93034
- Georgiou, Apostolos (with Floudas, Christodoulos A.) Structural properties of large scale systems. 91a:93001
- Glowinski, Roland (with Li, Chin Hsien) On the numerical implementation of the Hilbert uniqueness method for the exact boundary controllability of the wave equation. (French summary) 91g:65170
- (with Li, Chin Hsien; Lions, Jacques-Louis) A numerical approach to the exact boundary controllability of the wave equation. I. Dirichlet controls: description of the numerical methods. 91g:35043a
- (with Li, Chin Hsien; Lions, Jacques-Louis) Errata: "A numerical approach to the exact boundary controllability of the wave equation. I. Dirichlet controls: description of the numerical methods". 91g:35043b
- Grisvard, P. Singular solutions of elliptic problems and applications to the exact controllability of hyperbolic problems. 91c:35035
- Gubin, S. V. (with Kovalev, A. M.) Global controllability of scleronomic systems. (Russian) 91g:70024
- Ideńak, Dariusz Applications of the fixed point theorem to problems of controllability. (Polish summary) 91d:49017
- Ishmukhametov, A. Z. see Vasil'ev, F. P.; et al., 91k:49050
- Jacimović, M. D. see Vasil'ev, F. P.; et al., 91k:49050
- Joshi, Mohan C. (with Sukavanam, N.) Approximate solvability of semilinear operator equations. 91g:65142
- Juang, Jer-Nan see Gawronski, Włodzimierz, 91h:93034
- Kervérez, J.-P. (with Liu, Yu-P.; Seoane, M. L.; Doedel, Eusebius J.) Optimization by continuation. 91j:90076
- Khrisosenko, N. V. Controllability of the Hamiltonian in a terminal optimal control problem. (Russian) 91f:49037

- Kim, Seungnam (with Meerkov, Semyon M.; Runolfsson, T.) Residence probability control. 91j:53099
- Komarnik, Vilmos On the exact controllability of a Petrowsky system. (see 91b:00051)
- Kovalev, A. M. see Gubin, S. V., 91g:70024
- Křivan, Vlastimil What is viability theory? (Czech) (Not in MR)
- Kupka, Ivan A. K. The ubiquity of Fuller's phenomenon. 91j:58049
- Lafortune, Stéphane (with Chen, Enke) The infimal closed controllable superlanguage and its application in supervisory control. 91c:93049
- Lee, Gu Dae see Nakagiri, Shin-ichi; et al., 91k:93042
- Leugering, Günter On the reachability problem of a viscoelastic beam during a slewing maneuver. 91b:93013
- Control and stabilization of a flexible robot arm. 91b:73073
- Lewis, F. L. see Özcaldiran, K., 91b:93037
- Li, Chin Hsien see Glowinski, Roland; et al., 91g:35043a; 91g:35043b and 91g:65270
- Lions, Jacques-Louis Sur la contrôlabilité exacte élargie. [On extended exact controllability] 91a:49023
- see also Glowinski, Roland; et al., 91g:35043a and 91g:35043b
- Liu, Yu see Kermévez, J.-P.; et al., 91j:90076
- Longman, Richard W. (with Alfriend, Kyle T.) Energy optimal degree of controllability and observability for regulator and maneuver problems. (Not in MR)
- Loréti, P. Discontinuous value functions and attainable sets. (Italian. English summary) 91h:49036
- Machtyngier, Elaine Contrôlabilité exacte et stabilisation frontière de l'équation de Schrödinger. (English summary) [Exact boundary controllability and stabilizability for the Schrödinger equation] 91j:35087
- Meerkov, Semyon M. see Kim, Seungnam; et al., 91j:93099
- Metel'skii, A. V. Dual problems of attainability and observability for linear time-independent systems with delay. (Russian) 91h:49008
- Nakagiri, Shin-ichi (with Yamamoto, Masahiro; Lee, Gu Dae) Spectral mode controllability, observability and identifiability for isolated spectrum points. 91k:93042
- see also Park, Jong Yeoul; et al., 91m:90220
- Naselli Ricci, Ornella On the controllability of a class of differential inclusions depending on a parameter. 91h:49007
- Niclaise, Serge Contrôlabilité exacte d'un problème couplé pluri-dimensionnel. (English summary) [Exact controllability of a pluridimensional coupled problem] 91h:35052
- Nikitenko, O. V. (with Semenov, V. N.) The geometric structure of the phase space of a dynamic system with constraints at a nonsingular point. (Not in MR)
- Noakes, J. Lyle see Fisher, Michael Ernest; et al., 91j:49030
- Özcaldiran, K. (with Lewis, F. L.) On the regularizability of singular systems. 91h:93037
- Park, Jong Yeoul (with Nakagiri, Shin-ichi; Yamamoto, Masahiro) Max-min controllability of delay-differential games in Banach spaces. 91m:90220
- Parlyuchansk, Z. G. see Butenina, N. N., 91m:93014
- Perdon, A.-M. see Wyman, Bostwick F.; et al., 91k:93029
- Piess, P. V. On the dependence of the controllability set of nonlinear systems on a parameter. 91h:49051
- Pommaret, J.-F. Group theory and controllability of partial differential control systems. (see 91E:93002)
- Potapov, M. M. see Vasil'ev, F. P.; et al., 91k:49050
- Rodman, Leiba On exact controllability of operators. 91k:47174
- Runolfsson, T. see Kim, Seungnam; et al., 91j:93099
- Schättler, Heinz Regularity properties of optimal trajectories: recently developed techniques. 91d:49043
- (Segev, Reuven) see Troch, I., 91j:49042
- Semenov, V. N. see Nikitenko, O. V., (Not in MR)
- Seone, M. L. see Kermévez, J.-P.; et al., 91j:90076
- Sholokhovitch, F. A. Conditional epsilon-controllability of a linear dynamical system. (Russian) 91h:49052
- Sukavarnam, N. see Joshi, Mohan C., 91g:65142
- Teo, Kok Lay see Fisher, Michael Ernest; et al., 91j:49030
- Tiba, Dan Une approche par contrôlabilité frontière dans les problèmes de design optimal. (English summary) [A boundary controllability approach in optimal design problems] 91d:35027
- Triggiani, Roberto Exact controllability in the presence of damping. 91d:35028
- Troch, I. Comments on: "Driving a linear constant system by a piecewise constant control" [Internat. J. Control 47 (1988), no. 3, 815–825; MR 89b:49055] by A. Ailon and R. Segev. 91j:49042
- Varga, Z. On controllability of Fisher's model of selection. 91c:92041
- Vasil'ev, F. P. (with Ishmukhametov, A. Z.; Potapov, M. M.; Jacimović, M. D.) The generalized moment problem in an optimal control problem with an integral quadratic functional. (Russian) 91k:49050
- Voskresenskii, E. V. On the controllability of nonlinear systems. (Russian) (see 91E:00013)
- van Willigenburg, L. G. First order controllability and the time optimal control problem for rigid articulated arm robots with friction. (Not in MR)
- Wyman, Bostwick F. (with Conte, Giuseppe; Perdon, A.-M.) Algebraic and geometric indices for singular systems. 91k:93029
- Xaba, A. B. Boundedness in persistently disturbed systems via the "second method" of Liapunov. 91a:49028
- Yamada, Takao Controllability and the theory of economic policy: a structural approach. 91c:90032
- Yamamoto, Masahiro see Nakagiri, Shin-ichi; et al., 91k:93042 and Park, Jong Yeoul; et al., 91m:90220
- Zastavskii, B. G. Positive stabilizability of control processes. 91b:93149
- Zhu, Wen Hua An applied cell mapping method for optimal control problems. 91h:93106
- Zuazua, Enrique Contrôlabilité exacte d'une équation des ondes sur linéaire à une dimension d'espace. (English summary) [Exact controllability for a superlinear wave equation in one space dimension] 91h:35216
- see also Ciaranescu, Dolina; et al., 91j:35030

93B06 Relations between controllability and optimal solutions

- Marchenko, Vladimir Matveevich Duality in control and observation problems for linear systems with aftereffect. (Russian) 91f:93011

Items with secondary classifications in 93B06

- Papageorgiou, Nikolaos S. On infinite-dimensional control systems with state and control constraints. 91c:49018

93B07 Observability

- Aoyama, Tomohiko see Kando, Hisashi; et al., (Not in MR)
- Bakan, G. M. (with Odintsova, E. A.) An observation algorithm for a linear control object with an imprecisely known perturbing action. (Russian) (Not in MR)
- Banaszuk, Andrzej (with Kocięcki, Maciej; Przyłuski, K. M.) Remarks on observability of implicit linear discrete-time systems. 91b:93019
- Chen, Shu Zhong (with Hu, Yang Zeng) A method for designing observers for generalized systems with unknown inputs. (Chinese. English summary) 91j:93013
- Chen, Ye-Hwa Adaptive robust observers for nonlinear uncertain systems. 91i:93020
- Cheng, Dai Zhan (with Dayawansa, W. P.; Martin, Clyde Franklin) Observability of systems on Lie groups and coset spaces. 91f:93012
- Dai, Li Yi Input function observers for linear singular systems. 91e:93011
- Dayawansa, W. P. see Cheng, Dai Zhan; et al., 91f:93012
- Ding, Xianchun (with Frank, Paul M.; Guo, Limin) Nonlinear observer design via an extended observer canonical form. 91j:93021
- Emel'yanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.) Asymptotic properties of state observers for indeterminate systems with an isolated time-independent linear part. 91f:93013
- (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Asymptotic observers for a class of nonlinear dynamical objects. 91m:93024
- Fedorov, M. S. see Medvedev, A. V.; et al., (Not in MR)
- Flagbedzi, Y. A. (with Pearson, A. E.) A state observer for systems described by functional-differential equations. 91d:93016
- (with Pearson, A. E.) Exponential state observer for time-lag systems. 91h:93020
- Frank, Paul M. see Ding, Xianchun; et al., 91j:93021
- Gao, Wei Bing see Li, Wen Lin, 91c:93012
- Grizzle, J. W. (with Moraal, P. E.) On observers for smooth nonlinear digital systems. 91i:93022
- Guo, Limin see Ding, Xianchun; et al., 91j:93021
- Halevi, Yoram Optimal observers for systems with colored noises. (Not in MR)
- Hammouri, H. (with Othman, Sami) Immersion in infinite dimension. 91h:93011
- Han, Zheng Zhi (with Pan, Dan Jie; Zhang, Zhong Jun) Observability and observers of nonlinear systems. (Chinese. English summary) (Not in MR)
- Hu, Yang Zeng see Chen, Shu Zhong, 91j:93013
- Iwazumi, Tetsuo see Kando, Hisashi; et al., (Not in MR)
- Izmailov, R. N. The "peak" effect in the Luenberger observer for systems with multidimensional inputs and outputs. 91h:93012
- Kando, Hisashi (with Aoyama, Tomohiko; Iwazumi, Tetsuo) Observer design of singularly perturbed discrete systems via time-scale decomposition approach. (Not in MR)
- Kang, Wei (with Krener, Arthur J.) Observation of a rigid body from measurement of a principle axis. 91a:93005
- Khusainov, D. Ya. see Shatyrko, A. V.; et al., 91d:93017
- Kocięcki, Maciej see Banaszuk, Andrzej; et al., 91b:93019
- Korovin, S. K. see Emel'yanov, S. V.; et al., 91f:93013 and 91m:93024
- Krimer, Peter K. A recursive observer design in multi-output systems. (Not in MR)
- Krener, Arthur J. see Kang, Wei, 91a:93005
- Lebedev, A. L. Problems of ideal observation of certain classes of discrete systems. 91m:93025
- Levine, Jean (with Marino, Riccardo) On fault-tolerant observers. (Not in MR)
- Li, Wen Lin (with Gao, Wei Bing) A kind of nonlinear observable system and the design of nonlinear observers. (Chinese. English summary) 91e:93012
- Lin, Wei Song see Mao, Ching Chi, (Not in MR)
- Malina, T. B. On optimal dimension reducing state transformation with given observation matrix. 91k:93019
- Mao, Ching Chi (with Lin, Wei Song) Decentralized observer for linear time-invariant interconnected systems. (Chinese summary) (Not in MR)
- Marino, Riccardo Adaptive observers for single output nonlinear systems. 91f:93014
- see also Levine, Jean, (Not in MR)
- Martin, Clyde Franklin see Cheng, Dai Zhan; et al., 91f:93012
- Medvedev, A. V. (with Sukhikh, N. N.; Fedorov, M. S.) Structures and algorithms for controlling complex aviation systems. (Russian) (Not in MR)
- Moraal, P. E. see Grizzle, J. W., 91i:93022
- Nersisyan, A. L. see Emel'yanov, S. V.; et al., 91f:93013 and 91m:93024
- Nisenzon, Yu. E. see Emel'yanov, S. V.; et al., 91m:93024
- Odintsova, E. A. see Bakan, G. M., (Not in MR)
- Othman, Sami see Hammouri, H., 91h:93011
- Özveren, Cüneyt M. (with Willitsky, Alan S.) Observability of discrete event dynamic systems. 91h:93013
- Pan, Dan Jie see Han, Zheng Zhi; et al., (Not in MR)
- Pasidoli, L. Modal observability of boundary control systems. (Italian summary) 91h:93014
- Pearson, A. E. see Flagbedzi, Y. A., 91b:93020 and 91d:93016
- Przyłuski, K. M. see Banaszuk, Andrzej; et al., 91b:93019
- Rudie, Karen (with Wonham, W. Murray) The infimal prefix-closed and observable superlanguage of a given language. 91j:93014
- Saberi, Ali (with Sannuti, Peddapullaiah) Observer design for loop transfer recovery and for uncertain dynamical systems. 91m:93026
- Sannuti, Peddapullaiah see Saberi, Ali, 91m:93026
- Shatyrko, A. V. (with Tsitriskaya, L. N.; Khusainov, D. Ya.) Construction of the matrix of gains of a linear observer with prescribed properties. (Russian) 91d:93017

- Sukhikh, N. N. *see* Medvedev, A. V.; et al., (Not in MR)
 Tomei, Patrizio An observer for flexible joint robots. (Not in MR)
 Tsinias, John Observer design for nonlinear systems. 91b:93021
 — Further results on the observer design problem. 91b:93011
 — A correction note on the paper: "Further results on the observer design problem" [Systems Control Lett. 14 (1990), no. 5, 411–418; MR 91c:93011]. 91j:93015
 Tsitrtskaya, L. N. *see* Shatyrko, A. V.; et al., 91d:93017
 Willis, Alan S. *see* Özyer, Cüneyt M., 91b:93013
 Wolf, Joseph A. Observability and group representation theory. 91c:93012
 Wonham, W. Murray *see* Radle, Karen, 91j:93014
 Yaz, Engin On the almost sure and mean-square exponential convergence of some stochastic observers. (Not in MR)
 Zhang, Shou Yuan Generalized functional observer. (Not in MR)
 Zhang, Zhong Jun *see* Han, Zheng Zhi; et al., (Not in MR)

Items with secondary classifications in 93B07

- Alfriend, Kyle T. *see* Longman, Richard W., (Not in MR)
 Astrovskii, A. I. On observation-estimation theory in linear time-dependent systems with noise of wave structure. (Russian) 91a:34050
 Balogh, Zoltán (with Bennett, Harold R.; Martin, Clyde Franklin) On the observability of ergodic flows on abelian groups with characteristic functions. 91a:58100
 Barabanov, A. T. (with Skorokhod, B. A.) Local algorithms for data processing in linear systems. Asymptotic behavior. Algorithms with intensive processing at the end. 91b:93047
 Bennett, Harold R. *see* Balogh, Zoltán; et al., 91a:58100
 Chang, Fan Jên *see* Fang, Chün Hsiung, 91b:93091
 Conte, Giuseppe *see* Wyman, Bostwick F.; et al., 91k:93029
 Ding, Xianchun (with Frank, Paul M.) Structure analysis via orthogonal functions. 91b:93036
 Engwerda, Jacob Chr. Stabilizability and detectability of discrete-time time-varying systems. (Not in MR)
 Fang, Chün Hsiung (with Chang, Fan Jên) Realization algorithm for constructing a controllable representation of a singular system with a special coordinate. 91b:93091
 Frank, Paul M. *see* Ding, Xianchun, 91b:93036
 Fujiwara, Hideo Computational complexity of controllability/observability problems for combinational circuits. (Not in MR)
 Gawronski, Włodzimierz (with Juang, Jer-Nan) Model reduction in limited time and frequency intervals. 91b:93034
 Iakovidis, I. (with Martin, Clyde Franklin; Xie, Shishen) Observability and inverse problems arising in electrocardiography. 91a:93041
 Juang, Jer-Nan *see* Gawronski, Włodzimierz, 91b:93034
 Korovin, S. K. (with Nerisyan, A. L.; Nisenzon, Yu. E.) Control of linear uncertain objects by the output. 91j:93057
 Kryzhinskii, A. V. (with Osipov, Yu. S.) Stable solutions of inverse problems of the dynamics of controllable systems. (Russian) 91a:93020
 Lee, Gu Dae *see* Nakagiri, Shin-ichi; et al., 91k:93042
 Lewis, F. L. Geometric design techniques for observers in singular systems. (Not in MR)
 Longman, Richard W. (with Alfriend, Kyle T.) Energy optimal degree of controllability and observability for regulator and maneuver problems. (Not in MR)
 Martin, Clyde Franklin Representations of systems with finite observations. 91b:93018
 — (with Stamp, Mark) Classification and realization of pseudo-random number generators. 91b:94040
 — *see also* Balogh, Zoltán; et al., 91a:58100 and Iakovidis, I.; et al., 91a:93041
 Metefskii, A. V. Dual problems of attainability and observability for linear time-independent systems with delay. (Russian) 91b:49008
 Nakagiri, Shin-ichi (with Yamamoto, Masahiro; Lee, Gu Dae) Spectral mode controllability, observability and identifiability for isolated spectrum points. 91k:93042
 Nerisyan, A. L. *see* Korovin, S. K.; et al., 91j:93057
 Nerurkar, Mahesh G. An example of almost universally observable vector fields on $P^1(\mathbb{R})$. 91a:58173
 Nikonor, O. I. Multivalued Lagrange functions in control-estimation problems. (Russian) 91b:49044
 Nikoukhah, Ramin Construction of autonomous boundary value linear systems from acausal input-output functions. 91b:93010
 Nisenzon, Yu. E. *see* Korovin, S. K.; et al., 91j:93057
 Odintsova, E. A. *see* Volosov, V. V., 91m:93058
 Osipov, Yu. S. *see* Kryzhinskii, A. V., 91a:93020
 Perdon, A.-M. *see* Wyman, Bostwick F.; et al., 91k:93029
 Potapenko, E. M. Stability of controllable elastic distributed systems. 91c:73064
 Ramsden, Peter J. On the periodicity of symbolic observations of piecewise smooth discrete-time systems. 91b:93068
 Saberi, Ali (with Sannuti, Peddapullaiah) Observer-based control of uncertain systems with nonlinear uncertainties. 91b:93065
 Sannuti, Peddapullaiah *see* Saberi, Ali, 91b:93065
 Skorokhod, B. A. *see* Barabanov, A. T., 91b:93047
 Stamp, Mark *see* Martin, Clyde Franklin, 91b:94040
 Takachi, Yoshiki On the decompositions of observations with non-Gaussian additive noise and their innovations processes. (see 91f:93002)
 Triggiani, Roberto Exact controllability in the presence of damping. 91d:35028
 Utkin, V. A. A method for the separation of motions in observation problems. 91d:93047
 Volosov, V. V. (with Odintsova, E. A.) Investigation of the convergence of a certain form of state observer algorithms for discrete dynamical systems using Lyapunov functions. 91m:93058
 Wallace, D. I. Observability, predictability and chaos. 91b:58216
 Wyman, Bostwick F. (with Conte, Giuseppe; Perdon, A.-M.) Algebraic and geometric indices for singular systems. 91k:93029
 Xi, Hong Sheng (with Yang, Xiao Xian) Controllability, observability and duality of boundary value linear systems. (Chinese summary) 91d:93015
 Xie, Shishen *see* Iakovidis, I.; et al., 91a:93041
 Yamamoto, Masahiro *see* Nakagiri, Shin-ichi; et al., 91k:93042

Yang, Xiao Xian *see* Xi, Hong Sheng, 91d:93015

93B10 Canonical structure

- Antsaklis, Panos J. *see* González, O. R., 91m:93029
 Birk, J. Comments on: "State observers and state-feedback controllers for a class of nonlinear systems" [Internat. J. Control 48 (1988), no. 3, 833–855; MR 90d:93013] by A. S. Hauksdóttir and R. E. Fenton. 91b:93022
 Bonnard, B. L'équivalence entre le temps minimal et la classification par bouclage des systèmes non linéaires. (English summary) [Equivalence between minimal time and feedback classification of nonlinear systems] 91k:93020
 Boros, T. (with Rózsa, Pál; Mironovskii, L. A.; Mikhailov, N. V.) A uniform algorithm for the transformation of multivariable systems into canonical forms. 91k:93021
 Commault, C. (with Dion, Jean Michel; Perez, Albert) Disturbance rejection for structured systems. (Not in MR)
 Dion, Jean Michel *see* Commault, C.; et al., (Not in MR)
 Drakunov, S. V. (with Izosimov, D. B.; Luk'yanov, A. G.; Utkin, V. A.; Utkin, Vadim I.) The block control principle. I. 91m:93027
 — (with Izosimov, D. B.; Luk'yanov, A. G.; Utkin, V. A.; Utkin, Vadim I.) The block control design principle. II. 91m:93028
 Evangelatos, Dionysis S. Structurally fixed modes: decomposition and reachability. 91f:93015
 Fenton, Robert E. *see* Birk, J., 91b:93022
 Fliess, Michel Generalized controller canonical forms for linear and nonlinear dynamics. 91f:93016
 Fuhrmann, P. A. (with Helmke, Uwe) Output feedback invariants and canonical forms for linear dynamical systems. 91b:93023
 Gilsing-Larsen, Heide Feedback canonical form for singular systems. 91f:93017
 González, O. R. (with Antsaklis, Panos J.) Internal models in regulation, stabilization, and tracking. 91m:93029
 Guo, Tong Yi *see* Huang, Ch'i; et al., (Not in MR)
 (Hauksdóttir, Anna Soffía) *see* Birk, J., 91b:93022
 Helmke, Uwe *see* Fuhrmann, P. A., 91b:93023
 Huang, Ch'i (with Guo, Tong Yi; Shieh, Leang San) A canonical state-space representation for SISO systems using multipoint Jordan CFE. (Not in MR)
 Izosimov, D. B. *see* Drakunov, S. V.; et al., 91m:93027 and 91m:93028
 Jury, E. I. *see* Premaratne, Kamal; et al., (Not in MR)
 Kawase, Shin (with Yanagihara, Niro) Moduli spaces and global canonical forms of discrete time linear systems in Hilbert spaces. 91b:93015
 Lebret, G. *see* Loiseau, J. J., 91k:93016
 Lewis, F. L. (with Marszalek, W.; Mertzios, B. G.) Walsh function analysis of 2-D generalized continuous systems. 91b:93023
 Loiseau, J. J. (with Lebret, G.) A new canonical form for descriptor systems with outputs. 91k:93016
 Luk'yanov, A. G. *see* Drakunov, S. V.; et al., 91m:93027 and 91m:93028
 Mansour, Mohamed *see* Premaratne, Kamal; et al., (Not in MR)
 Marchenko, Vladimir Matveevich Some control problems for time-delay systems. 91a:93006
 Marszalek, W. *see* Lewis, F. L.; et al., 91b:93023
 Mertzios, B. G. *see* Lewis, F. L.; et al., 91b:93023
 Mikhailov, N. V. *see* Boros, T.; et al., 91k:93021
 Mironovskii, L. A. *see* Boros, T.; et al., 91k:93021
 Park, Baell Peter (with Verriest, Erik I.) Canonical forms on discrete linear periodically time-varying systems and a control application. 91a:93007
 Perez, Albert *see* Commault, C.; et al., (Not in MR)
 Premaratne, Kamal (with Jury, E. I.; Mansour, Mohamed) Multivariable canonical forms for model reduction of 2-D discrete time systems. (Not in MR)
 Rózsa, Pál *see* Boros, T.; et al., 91k:93021
 Shieh, Leang San *see* Huang, Ch'i; et al., (Not in MR)
 Utkin, V. A. *see* Drakunov, S. V.; et al., 91m:93027 and 91m:93028
 Utkin, Vadim I. *see* Drakunov, S. V.; et al., 91m:93027 and 91m:93028
 Verriest, Erik I. *see* Park, Baell Peter, 91a:93007
 van der Woude, J. W. On the structure at infinity of a structured system. 91m:93030
 Yanagihara, Niro *see* Kawase, Shin, 91b:93015
- Items with secondary classifications in 93B10
- Byrnes, Christopher I. (with Isidori, Alberto) Feedback design from the zero dynamics point of view. 91c:93035
 Chao, Chien Hsiang (with Stalford, H. L.) On the robustness of linear stabilizing feedback control for linear uncertain systems: multi-input case. 91a:93021
 Chua, Leon O. *see* Kahlert, Claus, 91b:94055
 Gardner, Robert B. (with Shadwick, W. F.; Wilkens, G. R.) Feedback equivalence and symmetries of Brunowski normal forms. 91a:93012
 — (with Shadwick, W. F.) Symmetry and the implementation of feedback linearization. 91f:93022
 Glover, Keith *see* Limebeer, David J. N.; et al., 91a:93017
 Gracia, Juan-Miguel (with de Hoyos, Inmaculada; Zaballa, Ion) A characterization of feedback equivalence. 91b:93026
 Halikias, G. D. *see* Limebeer, David J. N.; et al., 91a:93017
 de Hoyos, Inmaculada Points of continuity of the Kronecker canonical form. 91d:15053
 — *see also* Gracia, Juan-Miguel; et al., 91b:93026
 Isidori, Alberto *see* Byrnes, Christopher I., 91c:93035
 Kahlert, Claus (with Chua, Leon O.) A generalized canonical piecewise-linear representation. 91b:94055
 Limebeer, David J. N. (with Halikias, G. D.; Glover, Keith) A state-space algorithm for the computation of superoptimal matrix interpolating functions. 91a:93017
 Lin, Yi (with Ma, Yonghao) System hierarchies with continuous linkage mappings. 91h:93003
 Ma, Yonghao *see* Lin, Yi, 91h:93003

Ober, Raimund The parametrization of linear systems using balanced realizations: relaxation systems. 91h:93028

— Connectivity properties of classes of linear systems. 91h:93081

Shadwick, W. F. *see* Gardner, Robert B.; et al., 91a:93012 and 91f:93022

Stalford, H. L. *see* Chao, Chien Hsiang, 91a:93021

Wilkins, G. R. *see* Gardner, Robert B.; et al., 91a:93012

Zaballa, Jon *see* Gracia, Juan-Miguel; et al., 91f:93026

93B11 System structure simplification

Bruckett, Roger W. Smooth dynamical systems which realize arithmetical and logical operations. 91c:93013

Di Benedetto, M. D. (with Grizzle, J. W.) Intrinsic notions of regularity for local inversion, output nulling and dynamic extension of nonsquare systems. 91j:93016

Fortuna, L. (with Gallo, Antonio; Nunnari, G.) Studying the interactions among model reduction algorithms via CAD technique. (Not in MR)

Gallo, Antonio *see* Fortuna, L.; et al., (Not in MR)

Gao, Wei Bing *see* Xia, Xiao Hua, 91c:93014 and 91h:93017

Grizzle, J. W. *see* Di Benedetto, M. D., 91j:93016

Nunnari, G. *see* Fortuna, L.; et al., (Not in MR)

Xia, Xiao Hua (with Gao, Wei Bing) Exact linearization of dynamic-state feedback of nonlinear systems. (Chinese. English summary) 91c:93014

— (with Gao, Wei Bing) Minimal-order dynamic decoupling of nonlinear systems. 91h:93017

Items with secondary classifications in 93B11

Litvinchev, I. S. Decomposition of large dynamical systems with interconnections (a survey). 91j:93063

93B12 Variable structure systems

Cheng, Mian *see* Gao, Wei Bing; et al., (Not in MR)

Esfandiari, F. (with Khalil, H. K.) Stability analysis of a continuous implementation of variable structure control. 91m:93031

Gao, Wei Bing (with Cheng, Mian; Sun, De Bin) Model-reaching control and variable structure control of nonlinear systems. (Chinese. English summary) (Not in MR)

Hayton, G. E. (with Walker, A. B.; Pugh, A. C.) Infinite frequency structure-preserving transformations for general polynomial system matrices. 91f:93024

Khalil, H. K. *see* Esfandiari, F., 91m:93031

Nikitin, N. V. An approximate method for solving problems of interruption of control when there are small acting noise intensities. (Not in MR)

Potts, R. B. (with Yu, X.) Discrete variable structure system with pseudo-sliding mode. (Not in MR)

Pugh, A. C. *see* Hayton, G. E.; et al., 91f:93024

Su, Chun Yi (with Zhou, Qi Jie) The theory of variable structure control systems and its applications. (Chinese. English summary) (Not in MR)

Sun, De Bin *see* Gao, Wei Bing; et al., (Not in MR)

Walker, A. B. *see* Hayton, G. E.; et al., 91f:93024

Yu, X. *see* Potts, R. B., (Not in MR)

Zhou, Qi Jie *see* Su, Chun Yi, (Not in MR)

Items with secondary classifications in 93B12

Arimatsu, Naganori *see* Tamae, Hiroshi; et al., 91f:93110

Azanov, M. V. *see* Khrustalev, M. M., 91f:93034

Hashimoto, Shusuke *see* Tamae, Hiroshi; et al., 91f:93110

Kamachkin, A. M. On a problem on the existence of subharmonic oscillations of a hysteresis system with periodic external action. (Russian) 91m:34080

Khrustalev, M. M. (with Azanov, M. V.) A parametric family of generating functions and sufficient conditions for the optimality of discontinuous systems. 91j:93034

Pashaev, A. B. A game-theoretic problem of guidance in systems that are discontinuous with respect to the controls. 91k:90243

Smlirner, E. Ya. Stabilization of programmed motions of systems of variable structure. 91m:93110

Tamae, Hiroshi (with Hashimoto, Shusuke; Arimatsu, Naganori) Optimal state estimation problem for a dimensional increasing system using Kalman filter. (Japanese. English summary) 91f:93110

93B15 Realizability of systems from input-output data

Anderson, Brian D. O. (with Antoulas, A. C.) Rational interpolation and state-variable realizations. 91f:93025

— *see also* Matsumoto, Naoki; et al., 91c:93013

Antoulas, G. E. Minimal state space realization of N -dimensional systems via continued fraction expansions. (Not in MR)

Antoulas, A. C. On minimal realizations: a polynomial approach. (Not in MR)

— *see also* Anderson, Brian D. O., 91f:93025

Ball, Joseph A. (with Gohberg, Israel) Cascade decompositions of linear systems in terms of realizations. 91a:93008

Barabanov, A. E. (with Sokolov, Andrei Arianovich) Structural realizability of controllers in multidimensional multiply coupled control systems. (Russian) 91b:93024

Bencsik, I. (with Michaletzky, Gy.) Identification of errors-in-variables models with Faure type realization algorithms. (Not in MR)

Bonnard, B. (with Tebbikh, H.) Réalisation minimale en 0 et classification linéaire des systèmes polynômes homogènes. (English summary) [Minimal realization at 0 and linear classification of homogeneous polynomial systems] 91m:93032

Brú, Rafael *see* Sánchez, Elena; et al., (91f:00015)

Bukhvorostov, D. Yu. (with Ivanov, A. I.) The set of realizations of a linear digital system. (Not in MR)

Bultheel, Adhemar *see* Van Barel, Marc, 91b:93030 and 91a:93015

Chang, Fan Jen *see* Fang, Chien Hsiung, (Not in MR)

Chaparro, L. F. *see* La, Hong-Qian, 91b:93027

Chen, Dong Input-output invariants, standard forms and minimal realizations of bilinear systems. (Chinese) 91j:93017

Chiang, R. Y. *see* Safonov, Michael G.; et al., 91b:93029 and (Not in MR)

Desai, Uday B. (with Skelton, Robert E.) Partially nested q -Markov covariance equivalent realizations. 91b:93025

Fang, Chien Hsiung (with Chang, Fan Jen) A strongly observable and controllable realization of descriptor systems. (Not in MR)

Fliess, Michel Some basic structural properties of generalized linear systems. 91j:93018

Fornasini, Ettore (with Zampieri, S.) A note on the state space realization of 2D FIR transfer functions. 91k:93022

Galkowski, Krzysztof An a priori nonminimal state-space realization of n -D systems. 91m:93033

Gohberg, Israel *see* Ball, Joseph A., 91a:93008

Gombani, Andrea Consistent approximations of linear stochastic models. 91b:93026

Gonzalez H., Luis Arturo (with Munro, N.) New algorithm for minimal balanced realization of transfer function matrix. (Not in MR)

— *see also* Tin, Siu-Kei; et al., (Not in MR)

Helmke, Uwe *see* Perkins, J. E.; et al., 91j:93019

Hernández, Vicente G. *see* Sánchez, Elena; et al., (91f:00015)

Herrera H., Angel N. *see* Kucera, Vladimír, (Not in MR)

Ho, Daniel *see* Tin, Siu-Kei; et al., (Not in MR)

Horiguchi, Kazumi (with Nishimura, Takuya; Nagata, Akira) A minimal lattice realization for multivariable systems. 91m:93034

Ivanov, A. I. *see* Bukhvorostov, D. Yu., (Not in MR)

Kawakami, Atsushi A realization method of two-dimensional rational transfer functions. 91d:93018

Krener, Arthur J. (with Zhu, Yi) The fractional representations of a class of nonlinear systems. 91a:93009

Kucera, Vladimír (with Herrera H., Angel N.) Static realization of dynamic precompensators for descriptor systems. (Not in MR)

Lam, James *see* Tin, Siu-Kei; et al., (Not in MR)

Levy, Bernard C. *see* Nikoukhah, Ramin; et al., 91k:93024

Limebeer, David J. N. *see* Safonov, Michael G.; et al., 91b:93029 and (Not in MR)

Lu, Hong-Qian (with Chaparro, L. F.) Recursive solution and stability conditions for 2-D least-squares modeling and stabilization problems. 91b:93027

Mansour, Mohamed *see* Matsumoto, Naoki; et al., 91c:93013

Martin, Clyde Franklin Representations of systems with finite observations. 91h:93018

Matsumoto, Naoki (with Anderson, Brian D. O.; Mansour, Mohamed) Sufficient condition for state-space representation of N -D discrete-time lossless bounded real matrix and N -D stability of Mansour matrix. 91c:93013

Michaletsky, Gy. *see* Bencsik, I., (Not in MR)

Molnár, Sándor Realizations of verticum-type systems. 91k:93023

Montgomery-Smith, Stephen *see* Ober, Raimund, 91d:93019

Moore, John Barratt *see* Perkins, J. E.; et al., 91j:93019

Munro, N. *see* Gonzalez H., Luis Arturo, (Not in MR) and Tin, Siu-Kei; et al., (Not in MR)

Nagata, Akira *see* Horiguchi, Kazumi; et al., 91m:93034

Nikoukhah, Ramin (with Levy, Bernard C.; Willsky, Alan S.) Realization of acausal weighting patterns with boundary value descriptor systems. 91k:93024

Nishimura, Takuya *see* Horiguchi, Kazumi; et al., 91m:93034

Ober, Raimund The parametrization of linear systems using balanced realizations: relaxation systems. 91b:93028

— (with Montgomery-Smith, Stephen) Bilinear transformation of infinite-dimensional state-space systems and balanced realizations of nonrational transfer functions. 91d:93019

Perkins, J. E. (with Helmke, Uwe; Moore, John Barratt) Balanced realizations via gradient flow techniques. 91j:93019

Safonov, Michael G. (with Chiang, R. Y.; Limebeer, David J. N.) Optimal Hankel model reduction for nonminimal systems. 91b:93029

— (with Limebeer, David J. N.; Chiang, R. Y.) Erratum: "Simplifying the H^∞ theory via loop-shifting, matrix-pencil and descriptor concepts" [Internat. J. Control 50 (1989), no. 6, 2467–2488]. (Not in MR)

Sánchez, Elena (with Hernández, Vicente G.; Brú, Rafael) Realizations of discrete periodic linear systems. (Spanish) (see 91f:00015)

van der Schaft, A. J. Transformations and representations of nonlinear systems. 91f:93018

Skelton, Robert E. *see* Desai, Uday B., 91b:93025

Skvortsov, L. M. Input-output representation of a closed multidimensional control system. (Not in MR)

Sokolov, Andrei Arianovich *see* Barabanov, A. E., 91b:93024

Sontag, Eduardo D. *see* Wang, Yuan², 91b:93031

Szigei, F. Realizability and approximate realizability by parabolic differential equations. 91c:93014

— Realization and approximate realization by multisystems governed by parabolic equations. (Russian summary) 91c:93015

Tebikh, H. *see* Bonnard, B., 91m:93032

Tin, Siu-Kei (with Lam, James; Ho, Daniel) Comments on: "New algorithm for minimal balanced realization of transfer function matrix" [Internat. J. Control 51 (1990), no. 4, 923–929; 1045366] by L. A. Gonzalez H. and N. Munro. (Not in MR)

Van Barel, Marc (with Bultheel, Adhemar) An algebraic method to solve the minimal partial realization problem for matrix sequences. 91b:93030

— (with Bultheel, Adhemar) Minimal Padé-sense matrix approximations around $s = 0$ and $s = \infty$. 91c:93015

Varga, Andris Computation of irreducible generalized state-space realizations. 91h:93019

Wang, Yuan² (with Sontag, Eduardo D.) Realization and input/output relations: the analytic case. 91b:93031

Wang, Zhen Quan *see* Xu, Ke Kang, 91f:93019

Willsky, Alan S. *see* Nikoukhah, Ramin; et al., 91k:93024

Xu, Ke Kang (with Wang, Zhen Quan) The realization problem for singularly perturbed systems. (Chinese. English summary) 91f:93019

- Yanovich, V. I. On the reconstructibility of linear time-independent systems that are not completely controllable in the sense of Kalman. (Russian) 91a:93010
- Young, Nicholas J. Balanced, normal, and intermediate realizations of nonrational transfer functions. 91a:93011
- Zampieri, S. *see Fornasini, Ettore*, 91k:93022
- Zaslavskii, B. G. Positive realizability of linear control systems. 91b:93032
- Zhu, Yi *see Krener, Arthur J.*, 91a:93009

Items with secondary classifications in 93B15

- Alt, Walter Stability of solutions for a class of nonlinear cone constrained optimization problems. II. Application to parameter estimation. 91d:49028
- Ball, David (with Sandberg, Irwin W.) g - and h -representations for nonlinear maps. 91g:93004
- Billings, S. A. *see Chen, Sheng*, 91a:62240
- Chen, Sheng (with Billings, S. A.) Modelling and analysis of nonlinear time series. 91a:62240
- Danilov, L. V. (with Solov'eva, E. B.) Construction of macromodels for nonlinear electric circuits on the basis of functional polynomials. (Russian) 91b:93049
- Gray, W. Steven (with Verriest, Erik I.) On the sensitivity of generalized state-space systems. 91b:93053
- Higuchi, Tatsuo *see Iwatsuki, Masami*, 91b:93054
- Hoang Ngoc Minh, V. (with Jacob, Gérard) Evaluation transform and symbolic calculus for nonlinear control systems. 91f:93056
- Iwatsuki, Masami (with Higuchi, Tatsuo) Synthesis of minimum statistical sensitivity structures with fewer parameters in state-space systems. 91b:93054
- Jacob, Gérard *see Hoang Ngoc Minh, V.*, 91f:93056
- Lee, E. Bruce *see Lu, Wu Sheng*, 91a:94003
- Lev-Ari, Hanoch Extension problems under the displacement structure regime. 91b:15028
- Lu, Wu Sheng (with Lee, E. Bruce) Structure simplification of 2-D digital filters: an overview. 91a:94003
- Martin, Clyde Franklin (with Stamp, Mark) Classification and realization of pseudo-random number generators. 91b:94040
- Nikoukhan, Ramin Construction of autonomous boundary value linear systems from acausal input-output functions. 91b:93010
- Ober, Raimund Connectivity properties of classes of linear systems. 91b:93081
- Py'ev, Yu. P. Nonlinear reduction of a measurement. (Russian) 91a:90127
- Sandberg, Irwin W. *see Ball, David*, 91g:93004
- Sideris, Athanasios H_∞ optimal control as a weighted Wiener-Hopf problem. 91b:93061
- Solov'eva, E. B. *see Danilov, L. V.*, 91b:93049
- Spreij, P. J. C. Self-exciting counting process systems with finite state space. 91b:93157
- Stamp, Mark *see Martin, Clyde Franklin*, 91b:94040
- Vera R., Carmen Elena Population-dynamical systems and approximate realizations. 91g:92019
- Verriest, Erik I. *see Gray, W. Steven*, 91b:93053
- Weiss, George The representation of regular linear systems on Hilbert spaces. 91d:93026

93B17 Transformation

- Abgaryan, K. A. Solution of control problems by multi-dimensional nonstationary systems by the diagonalization of the matrix of the linear part of the motion equation system. 91f:93020
- Baragaha, Itzhar (with Zaballa, Ion) Column completion of a pair of matrices. 91f:93021
- Baram, Yoram Closed forms for the Levinson coefficients of polynomial compensators and inverse systems. (Not in MR)
- Brutyan, V. K. Transformation of a complex system into completely controllable and observable subsystems. (Russian. Armenian summary) (Not in MR)
- Bryson, Arthur E., Jr. (with Carrier, A.) Second-order algorithm for optimal model order reduction. (Not in MR)
- Carrier, A. *see Bryson, Arthur E., Jr.* (Not in MR)
- Chai, Wen Jian (with Gu, Keqin; Loh, Nan K.) Transforming time-varying multivariable systems into block companion canonical forms. (Not in MR)
- Chiang, Huang Keng (with Tsai, Jason Sheng Horng; Sun, Yü I.) Transformations of a class of nonlinear time-variable multivariable control systems to block companion forms and their applications. 91j:93020
- Choi, Byoung Seon On the block LU decomposition of block Toeplitz matrices using the vector Yule-Walker equations. 91m:93035
- Cohen de Lara, M. (with Levine, Jean) Deterministic feedback linearization, Girsanov transformations and finite-dimensional filters. 91b:93033
- Fang, Chün Hsiung Determination of doubly coprime matrix fraction descriptions and corresponding Bezout identity solutions for a regular state-space system. 91k:93025
- Fuhrmann, P. A. Elements of factorization theory from a polynomial point of view. 91g:93006
- Gabelaya, A. G. Stabilization of linear autonomous systems with incomplete information and reduction of the matrices to Hessenberg form. (Russian. English and Georgian summaries) (Not in MR)
- Gardner, Robert B. (with Shadwick, W. F.; Wilkens, G. R.) Feedback equivalence and symmetries of Brunowski normal forms. 91a:93012
- (with Shadwick, W. F.) Symmetry and the implementation of feedback linearization. 91f:93022
- (with Shadwick, W. F.) Feedback equivalence for general control systems. 91j:93021
- Gawronski, Włodzimierz (with Jiang, Jer-Nan) Model reduction in limited time and frequency intervals. 91b:93034
- Gracia, Juan-Miguel (with de Hoyos, Inmaculada; Zaballa, Ion) A characterization of feedback equivalence. 91b:93026
- Gu, Keqin *see Chai, Wen Jian*; et al., (Not in MR)
- de Hoyos, Inmaculada *see Gracia, Juan-Miguel*; et al., 91f:93026
- İftar, Altuğ (with Özgüner, Ümit) Contractible controller design and optimal control with state and input inclusion. (Not in MR)
- Inaba, Hiroshi *see Otsuka, Naohisa*; et al., 91j:93023
- Jiang, Jer-Nan *see Gawronski, Włodzimierz*, 91b:93034

- Kaczorek, Tadeusz Equivalence and similarity for singular 2-D linear systems. (Not in MR)
- Khorasani, K. Feedback equivalence for a class of nonlinear singularly perturbed systems. 91a:93013
- Kotta, Ülle Model matching of linear-analytic discrete-time systems via dynamic state feedback. (Russian and Estonian summaries) 91m:93036
- Larimore, Wallace E. Order-recursive factorization of the pseudoinverse of a covariance matrix. 91b:93026
- Larin, V. B. The generalized Riccati equation, orthogonal projectors, and factorization of matrix polynomials. 91j:93022
- Levine, Jean *see Cohen de Lara, M.*, 91b:93033
- Loh, Nan K. *see Chai, Wen Jian*; et al., (Not in MR)
- Malyshenko, A. M. Determining the causality indices of controlled dynamic systems. (Not in MR)
- Meyer, David G. The graph topology on n th-order systems is quotient Euclidean. 91b:93027
- Oeloff, J. E. *see van der Schaft, A. J.*, 91f:93023
- Olde, Takayuki *see Otsuka, Naohisa*; et al., 91j:93023
- Otsuka, Naohisa (with Inaba, Hiroshi; Olde, Takayuki) Decoupling by state feedback in infinite-dimensional systems. 91j:93023
- Ozcecin, H. K. (with Saberi, Ali; Sannuti, Peddapullaiah) Special coordinate basis for order reduction of linear multivariable systems. (Not in MR)
- Özgtiner, Ümit *see İftar, Altuğ*, (Not in MR)
- Saberi, Ali *see Ozcecin, H. K.*; et al., (Not in MR)
- Sannuti, Peddapullaiah *see Ozcecin, H. K.*; et al., (Not in MR)
- van der Schaft, A. J. (with Oeloff, J. E.) Model reduction of linear conservative mechanical systems. 91f:93023
- Shadwick, W. F. Absolute equivalence and dynamic feedback linearization. 91g:93007
- *also Gardner, Robert B.*; et al., 91a:93012; 91f:93022 and 91j:93021
- Sun, Shi Qian Inference of companion standard-state equations from transfer functions. (Chinese. English summary) 91j:93024
- Sun, Yü I *see Chiang, Huang Keng*; et al., 91j:93020
- Thompson, David F. Local equivalence of scalar control systems under feedback transformations. 91c:93016
- Tsai, Jason Sheng Horng *see Chiang, Huang Keng*; et al., 91j:93020
- Tu, Feng Sheng Generalized coordinate transformations for linear systems. I. (Chinese) 91b:93027a
- Generalized coordinate transformations for linear systems. II. (Chinese. English summary) 91b:93027b
- Vlachevskii, V. E. Padé approximation of Lie transformations in nonlinear response-speed problems. 91m:93037
- Wang, Hong Yu (with Yin, Fu Liang) 91f:93024
- Wilkens, G. R. *see Gardner, Robert B.*; et al., 91a:93012
- Yagle, Andrew E. Number theoretic fast algorithms for bilinear and other generalized transformations. (Not in MR)
- Yin, Fu Liang (with Wang, Hong Yu) Transformation and stability of a class of linear time-varying discrete systems. (Chinese. English summary) 91f:93024
- Zaballa, Ion *see Baragaha, Itzhar*, 91f:93021 and Gracia, Juan-Miguel; et al., 91b:93026
- Zhang, Fu En A new algorithm for coprime fraction of transfer function matrix $C[sI - A]^{-1}B$. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 93B17

- Allon, Amit Decoupling of square singular systems via proportional state feedback. 91j:93042
- Berdyshev, Yu. I. (with Chentsov, A. G.) On the reduction of some linear problems of optimal control with integral constraints. 91j:49049
- Boley, Daniel Estimating the sensitivity of the algebraic structure of pencils with simple eigenvalue estimates. 91f:15033
- Bongers, Peter M. M. (with Heuberger, Peter S. C.) Discrete normalized coprime factorization. 91f:93066
- Boros, T. (with Rózsa, Pál; Mironovskii, L. A.; Mikhailov, N. V.) A uniform algorithm for the transformation of multivariable systems into canonical forms. 91k:93021
- Chentsov, A. G. *see Berdyshev, Yu. I.*, 91j:49049
- Demeure, Cédric J. (with Mullis, Clifford T.) A Newton-Raphson method for moving-average spectral factorization using the Euclid algorithm. 91g:65125
- Fedorov, A. Yu. Development of accessibility areas and nonlinear dynamic systems controllability. 91j:93004
- Garzia, M. R. (with Loparo, Kenneth A.; Martin, Clyde Franklin) Riccati differential equations and Lie transformation groups. 91d:58235
- Glover, Keith *see Limebeer, David J. N.*; et al., 91m:93043
- Halikias, G. D. *see Limebeer, David J. N.*; et al., 91m:93043
- Heuberger, Peter S. C. *see Bongers, Peter M. M.*, 91f:93066
- Ho, T.-J. (with Ts'ai, Shu Ch'uan) Optimal poles placement in a specified region. 91a:93028
- Inaba, Hiroshi *see Ueno, Takashi*; et al., 91f:49033
- Jury, E. I. *see Premaratne, Kamal*; et al., 91e:93051
- Kaczorek, Tadeusz Singular models of 2-D systems. 91e:93040
- Kummert, Antón A parametric representation for k -variable Schur polynomials. 91g:94002
- Limebeer, David J. N. (with Halikias, G. D.; Glover, Keith) State-space algorithm for the computation of superoptimal matrix interpolating functions. 91m:93043
- Loparo, Kenneth A. *see Garzia, M. R.*; et al., 91d:58235
- Mansour, Mohamed *see Premaratne, Kamal*; et al., 91e:93051
- Martin, Clyde Franklin *see Garzia, M. R.*; et al., 91d:58235
- Mikhailov, N. V. *see Boros, T.*; et al., 91k:93021
- Mironovskii, L. A. *see Boros, T.*; et al., 91k:93021
- Mullis, Clifford T. *see Demeure, Cédric J.*, 91g:65125
- Nevitaki, V. Decomposition and modal control in linear systems. (Russian) 91e:93005
- Otsuka, Naohisa *see Ueno, Takashi*; et al., 91f:49033
- Premaratne, Kamal (with Mansour, Mohamed; Jury, E. I.) An algorithm for model reduction of 2-D discrete time systems. 91e:93051

- Razzaghi, Mohsen On the near optimum control of a class of singular systems with time-delay. (Not in MR)
- Respondek, Witold Right and left invertibility of nonlinear control systems. 91b:93037
- Róssa, Pál see Beros, T.; et al., 91b:93021
- Russell, David L. Neutral FDE canonical representations of hyperbolic systems. 91m:93067
- Ts'ai, Shu Ch'uan see Ho, T.-J., 91a:93028
- Ueno, Takashi (with Inaba, Hiroshi; Otsuka, Naohisa) Output feedback decoupling for linear control systems defined in Hilbert spaces. 91f:49033
- Wang, Guo Rong² An absolutely stable order-reduction method for a direct control system. (Chinese. English summary) (Not in MR)

93B18 Linearizability

- Čelikkovský, S. On the global linearization of bilinear systems. 91h:93028
- Fossen, Thor I. Adaptive feedback linearization of nonlinear systems with significant actuator dynamics. (Not in MR)
- Hunt, L. R. (with Verma, Madanpal S.) Linear dynamics hidden by input-output linearization. 91m:93038
- Lamnabhi-Lagarigue, Françoise see Willems, Jan C., 91j:93025
- Lee, Hong-Gi see Suh, Sungwoo, 91i:93028
- Suh, Sungwoo (with Lee, Hong-Gi) Sampling effect on the exponential map of vector fields. 91i:93028
- Verma, Madanpal S. see Hunt, L. R., 91m:93038
- Wang, Zi Cai see Yao, Yu, 91j:93026
- Willems, Jan C. (with Lamnabhi-Lagarigue, Françoise) A note on the linearization around an equilibrium. 91j:93025
- Yao, Yu (with Wang, Zi Cai) Optimality of linearization for nonlinear systems. (Chinese. English summary) 91j:93026
- Zheng, Yu Fan A recursive algorithm for linearization of nonlinear control systems with multi-inputs. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 93B18

- Banaszuk, Andrzej (with Kocięcki, Maciej; Przyłuski, K. M.) Kalman-type decomposition for implicit linear discrete-time systems, and its applications. 91h:93044
- Degtyareva, E. V. see Golubev, Yu. F.; et al., (Not in MR)
- Di Benedetto, M. D. Nonlinear strong model matching. 91h:93006
- Golubev, Yu. F. (with Degtyareva, E. V.; Khaifullin, R. Z.) The method of sequential linearization in the problem of search for an optimal step cycle of a walking apparatus. (Not in MR)
- Khaifullin, R. Z. see Golubev, Yu. F.; et al., (Not in MR)
- Kocięcki, Maciej see Banaszuk, Andrzej; et al., 91h:93044
- Przyłuski, K. M. see Banaszuk, Andrzej; et al., 91h:93044

93B20 Minimal systems representations

- Chiang, Hsiao-Dong see Lu, Jin; et al., (Not in MR)
- Dě Čong Khanh On a theory of factorization of transfer functions of passive scattering systems. (Russian. English summary) 91a:93014
- Horiguchi, Kazumi (with Nishimura, Takuya; Nagata, Akira) Minimal realizations interpolating first- and second-order information. 91e:93016
- Kushner, Harold J. (with Ramachandran, K. M.) Optimal and approximately optimal control policies for queues in heavy traffic. 91g:93008
- Lu, Jin (with Chiang, Hsiao-Dong; Thorp, James S.) Partial eigenstructure assignment and its application to large scale systems. (Not in MR)
- Nagata, Akira see Horiguchi, Kazumi; et al., 91e:93016
- Nishimura, Takuya see Horiguchi, Kazumi; et al., 91e:93016
- Ramachandran, K. M. see Kushner, Harold J., 91g:93008
- Thorp, James S. see Lu, Jin; et al., (Not in MR)
- Zlatski, V. T. Minimal estimation of the state of continuous-discrete dynamical systems. (Russian) 91c:93017

Items with secondary classifications in 93B20

- Desai, Uday B. (with Skelton, Robert E.) Partially nested q -Markov covariance equivalent realizations. 91h:93025
- Glover, Keith see Limebeer, David J. N.; et al., 91a:93017
- Halikias, G. D. see Limebeer, David J. N.; et al., 91a:93017
- Levy, Bernard C. see Nikoukhah, Ramin; et al., 91k:93024
- Limebeer, David J. N. (with Halikias, G. D.; Glover, Keith) A state-space algorithm for the computation of superoptimal matrix interpolating functions. 91a:93017
- Nikoukhah, Ramin (with Levy, Bernard C.; Willsky, Alan S.) Realization of acausal weighting patterns with boundary value descriptor systems. 91k:93024
- Sakata, Shojiro Extension of the Berlekamp-Massey algorithm to N dimensions. 91g:68063
- Skelton, Robert E. see Desai, Uday B., 91h:93025
- Willsky, Alan S. see Nikoukhah, Ramin; et al., 91k:93024

93B25 Algebraic methods

- Anderson, Brian D. O. (with Dasgupta, Soura; Khargonekar, Pramod P.; Kraus, Frantisek J.; Mansour, Mohamed) Robust strict positive realness: characterization and construction. 91a:93015
- see also Liu, Yi; et al., (Not in MR)
- Antoniou, G. E. (with Menteslopoulou, S. H.; Manikopoulos, C. N.) Two-dimensional systems: a simple proof of the Cayley-Hamilton theorem. (Not in MR)
- Antoulas, A. C. (with Willems, Jan C.) Minimal rational interpolation and Prony's method. 91i:93029
- Balakrishnan, Venkataraman see Boyd, Stephen P., 91c:93017
- Ball, David (with Sandberg, Irwin W.) Criteria for the existence of impulse responses and kernel representations for linear maps. 91h:93020
- Ball, Joseph A. (with Rakowski, Marek) Minimal McMillan degree rational matrix functions with prescribed local zero-pole structure. 91f:93025

- Barnett, Stephen Algebraic manipulation of polynomial matrices: a survey. 91i:93030
- Bartosiewicz, Z. Nonlinear systems on algebraic spaces. 91a:93016
- Bernstein, Dennis S. see Haddad, Wassim M., (Not in MR)
- Boyd, Stephen P. (with Balakrishnan, Venkataraman) A regularity result for the singular values of a transfer matrix and a quadratically convergent algorithm for computing its L_∞ -norm. 91c:93017
- Commaut, C. (with Dion, Jean Michel; Torres, J. A.) Invariant spaces at infinity of linear systems application to block decoupling. (Not in MR)
- Conte, Giuseppe (with Perdon, A.-M.; Longhi, S.) Zero structures at infinity of linear periodic systems. 91m:93039
- see also Wyman, Bostwick F.; et al., 91k:93029
- Dasgupta, Soura see Anderson, Brian D. O.; et al., 91a:93015
- Desoer, C. A. (with Gündes, A. N.) Algebraic theory of feedback systems with two-input two-output plant and compensator. 91h:93035
- Ding, Xianchun (with Frank, Paul M.) Structure analysis via orthogonal functions. 91h:93036
- Dion, Jean Michel see Commaut, C.; et al., (Not in MR)
- Emre, Erol (with Tai, Heng Ming; Seo, Jin H.) Transfer matrices, realization, and control of continuous-time linear time-varying systems via polynomial fractional representations. 91i:93031
- Fragoso, Marcelo D. see de Souza, Carlos E., 91g:93012
- Frank, Paul M. see Ding, Xianchun, 91h:93036
- Fuhrmann, P. A. see Helmke, Uwe, 91e:93018
- Glover, Keith see Limebeer, David J. N.; et al., 91a:93017
- Gohberg, Israel (with Kaashoek, M. A.; Ran, André C. M.) Regular rational matrix functions with prescribed null and pole data except at infinity. 91j:93027
- Gündes, A. N. see Desoer, C. A., 91h:93035
- Haddad, Wassim M. (with Bernstein, Dennis S.) Generalized Riccati equations for the full- and reduced-order mixed-norm H_2/H_∞ standard problem. (Not in MR)
- Halikias, G. D. see Limebeer, David J. N.; et al., 91a:93017
- Hanzon, B. On the differentiable manifold of fixed order stable linear systems. 91g:93009
- Hegner, Stephen J. Algebraic representation of dynamics and behavior for continuous-time linear systems. 91h:93037
- Helmke, Uwe (with Fuhrmann, P. A.) Bezoutians. 91e:93018
- Huillet, T. (with Monin, André-Paul-Valentin; Salut, G.) Représentations exponentielles des systèmes analytiques généraux. (English summary) [Exponential representations of general analytic systems] 91g:93010a
- (with Monin, André-Paul-Valentin; Montseny, G.; Salut, G.) Réversibilité des systèmes non linéaires à commande ponctuelle. (English summary) [Reversibility of nonlinear systems with punctual control] 91g:93010b
- Isola, Tommaso (with Tornambè, Antonio) Approximation and realization of Hankel matrices. 91f:93026
- Kaashoek, M. A. see Gohberg, Israel; et al., 91j:93027
- Kågström, Bo (with Westin, Lars) Generalized Schur methods with condition estimators for solving the generalized Sylvester equation. 91c:93018
- Kaji, Ikko see Kase, Satoshi; et al., 91b:93038
- Kase, Satoshi (with Ohuchi, Azuma; Kaji, Ikko) An algorithm for updating skeleton matrix of a reachability matrix model. 91b:93038
- Khargonekar, Pramod P. see Anderson, Brian D. O.; et al., 91a:93015
- Kraus, Frantisek J. see Anderson, Brian D. O.; et al., 91a:93015
- Kurek, Jerzy E. Genericness of solution to N -dimensional polynomial matrix equation $XA = I$. 91d:93020
- Larin, V. B. Decomposition of the matrix algebraic Riccati equation and the optimality of simple control laws. (Russian) 91f:93027
- Laslečka, Irena (with Triggiani, Roberto) Algebraic Riccati equations arising in boundary/point control: a review of theoretical and numerical results. I. Continuous case. 91c:93019
- (with Triggiani, Roberto) Algebraic Riccati equations arising in boundary/point control: a review of theoretical and numerical results. II. Approximation theory. 91c:93020
- Lepšky, Antonio (with Mian, Gian Antonio; Viaro, Umberto) Split forms of z -domain algorithms for linear prediction and stability analysis. 91g:93011
- Limebeer, David J. N. (with Halikias, G. D.; Glover, Keith) A state-space algorithm for the computation of superoptimal matrix interpolating functions. 91a:93017
- Liu, Yi¹ (with Anderson, Brian D. O.; Ly, Uy-Loi) Coprime factorization controller reduction with Bezout identity induced frequency weighting. (Not in MR)
- Lomadze, V. G. Finite-dimensional time-invariant linear dynamical systems: algebraic theory. 91j:93028
- Longhi, S. see Conte, Giuseppe; et al., 91m:93039
- Ly, Uy-Loi see Liu, Yi; et al., (Not in MR)
- Manikopoulos, C. N. see Antoniou, G. E.; et al., (Not in MR)
- Mansour, Mohamed see Anderson, Brian D. O.; et al., 91a:93015
- Menteslopoulou, S. H. see Antoniou, G. E.; et al., (Not in MR)
- Mian, Gian Antonio see Lepšky, Antonio; et al., 91g:93011
- Monin, André-Paul-Valentin see Huillet, T.; et al., 91g:93010a and 91g:93010b
- Montseny, G. see Huillet, T.; et al., 91g:93010b
- Newmann, M. M. (with Roberts, A. P.) Polynomial optimization of stochastic discrete-time control for unstable plants. 91c:93019
- Ohuchi, Azuma see Kase, Satoshi; et al., 91b:93038
- Omoro, R. O. see Ushakov, A. V., 91h:93021
- Peczowski, Joseph L. see Sain, Michael K.; et al., 91m:93040
- Perdon, A.-M. see Wyman, Bostwick F.; et al., 91k:93029 and Conte, Giuseppe; et al., 91m:93039
- Pojlak, Svatopluk On the generic dimension of controllable subspaces. 91b:93039
- Rakowski, Marek see Ball, Joseph A., 91f:93025
- Ran, André C. M. see Gohberg, Israel; et al., 91j:93027
- Rhodes, Ian B. Representation of the maximal (A, B) -invariant subspace in a given nullspace. (Not in MR)
- Roberts, A. P. see Newmann, M. M., 91c:93019
- Sain, Michael K. (with Wyman, Bostwick F.; Peczowski, Joseph L.) Extended zeros and model matching. 91m:93040

- Sahut, G. *see* Huijlet, T.; et al., 91g:93010a and 91g:93010b
- Sandberg, Irwin W. *see* Ball, David, 91h:93020
- See, Jin H. *see* Emre, Erol; et al., 91i:93031
- Shaked, U. Directional interpolation via all-pass transfer function matrices and its application in Hankel-norm approximations. 91f:93028
- Shimizu, Kiyotaka *see* Suzuki, Masakazu, 91c:93020
- Sira-Ramirez, Hebert Structure at infinity, zero dynamics and normal forms of systems undergoing sliding motions. 91f:93029
- de Souza, Carlos E. On stabilizing properties of solutions of the Riccati difference equation. 91b:93040
- (with Fragoso, Marcelo D.) On the existence of maximal solution for generalized algebraic Riccati equations arising in stochastic control. 91g:93012
- Sugimoto, Kenji (with Yamamoto, Yutaka) A polynomial matrix method for computing stable rational doubly coprime factorizations. (Not in MR)
- Suzuki, Masakazu (with Shimizu, Kiyotaka) Analysis of distributed systems by array algebra. 91c:93020
- Tai, Heng Ming *see* Emre, Erol; et al., 91i:93031
- Tan, Shao Hua (with Vandewalle, Joos) The use of the homogeneous form in the study of singular systems. 91f:93030
- Tornambè, Antonio *see* Isola, Tommaso, 91f:93026
- Torres, J. A. *see* Commault, C.; et al., (Not in MR)
- Triggiani, Roberto *see* Lasiecka, Irena, 91c:93019 and 91c:93020
- Tsing, Nam-Kiu Convexity of the largest singular value of $e^D M e^{-D}$: a convexity lemma. 91h:93041
- Ushakov, A. V. (with Omorov, R. O.) Design of controllers for modal-robust automatic control systems. (Russian) 91h:93021
- Vandewalle, Joos *see* Tan, Shao Hua, 91f:93030
- Van Dooren, Paul Rational and polynomial matrix factorizations via recursive pole-zero cancellation. 91f:93029
- Viaro, Umberto *see* Lepchy, Antonio; et al., 91g:93011
- Wang, Le Yi (with Zames, George) Local-global double algebras for slow H^∞ adaptation. 91h:93042
- Wang, Yao Qing A note on the solution of the algebraic Riccati equation. 91c:93021
- Weiss, George Representation of shift-invariant operators on L^2 by H^∞ transfer functions: an elementary proof, a generalization to L^p , and a counterexample for L^∞ . 91m:93041
- Westin, Lars *see* Kåström, Bo, 91c:93018
- Willems, Jan C. *see* Antoulas, A. C., 91i:93029
- Wyman, Bostwick F. (with Conte, Giuseppe; Perdon, A.-M.) Algebraic and geometric indices for singular systems. 91h:93029
- *see also* Sain, Michael K.; et al., 91m:93040
- Yamamoto, Yutaka *see* Sugimoto, Kenji, (Not in MR)
- Zames, George *see* Wang, Le Yi, 91h:93042
- Zhang, Qing Ling On generalized decentralized fixed modes in descriptor systems. 91i:93032
- Zhu, Xin Jie A finite spectrum unmixing set for $\mathcal{L}^2(3, \mathcal{F})$. 91e:93021
- Items with secondary classifications in 93B25
- Ando, Tsuyoshi (with Bunce, J.; Trapp, G. E.) An alternate variational characterization of matrix Riccati equation solutions. 91c:15007
- Antoulas, A. C. (with Ball, Joseph A.; Kang, Jeongook; Willems, Jan C.) On the solution of the minimal rational interpolation problem. 91g:41016
- Antsaklis, Panos J. *see* González, O. R., 91m:93029
- Ball, Joseph A. *see* Antoulas, A. C.; et al., 91g:41016
- Baratchart, Laurent (with Olivi, Martine; Wielonsky, F.) Asymptotic properties in rational ℓ^2 -approximation. 91h:41035
- Belorousets, V. B. Determination of the convergence domain of the Volterra series. 91h:45002
- Bistritz, Yuval *see* Lev-Ari, Hanoch; et al., 91h:93114
- Boekhoudt, Piet Homotopy solution of polynomial equations in H_∞ optimal control. 91h:93063
- Bonilla, E. Moisés (with Malabre, Michel) Algebraic characterization of invariant zeros at infinity for generalized systems. 91g:93022
- Brown, David P. General continued fraction expansions in the z domain. 91f:30001
- Bultheel, Adhemar *see* Van Barel, Marc, 91b:93030
- Bunce, J. *see* Ando, Tsuyoshi; et al., 91c:15007
- Byrnes, Ralph A Hamiltonian-Jacobi algorithm. 91e:65057
- Byrnes, Christopher I. (with Lindquist, Anders) Geometry of the Kimura-Georgiou parametrization of modelling filters. 91g:93030
- Chiang, R. Y. *see* Safonov, Michael G.; et al., (Not in MR)
- Choi, Chis H. (with Laub, Alan J.) Constructing Riccati differential equations with known analytic solutions for numerical experiments. (Not in MR)
- Clements, D. J. (with Glover, Keith) Spectral factorization via Hermitian pencils. 91d:15025
- Crouch, Peter E. (with Lamnabhi-Lagarigue, Françoise) Algebraic and multiple integral identities. 91f:05011
- Desoer, C. A. *see* Gündes, A. N., 91i:93001
- Di Benedetto, M. D. (with Grizzle, J. W.) Intrinsic notions of regularity for local inversion, output nulling and dynamic extension of nonsquare systems. 91j:93016
- Emami-Naeini, Abbas *see* Khraschi, Nasser M., 91g:90152
- Flagbedzi, Y. A. (with Pearson, A. E.) Exponential state observer for time-lag systems. 91h:93020
- Fuhrmann, P. A. (with Helmke, Uwe) Output feedback invariants and canonical forms for linear dynamical systems. 91b:93023
- Gardner, Robert B. (with Shadwick, W. F.) Symmetry and the implementation of feedback linearization. 91f:93022
- Geerts, A. H. W. (with Hautus, M. L. J.) Linear-quadratic problems and the Riccati equation. 91d:49035
- Ghesquiers, Ph. Algebraic characterization of controllability subspaces in the current base and its practical computation. 91d:93009
- Glover, Keith *see* McFarlane, D. C., 91b:93003 and Clements, D. J., 91d:15025
- González, O. R. (with Antsaklis, Panos J.) Internal models in regulation, stabilization, and tracking. 91m:93029
- Gorelik, V. Yu. Analysis of periodically nonstationary systems by means of the Laplace transform. (Russian) 91k:93057
- Gracia, Juan-Miguel (with de Hoyos, Inmaculada; Zaballa, Ion) A characterization of feedback equivalence. 91i:93026
- Grayson, Matthew (with Grossman, Robert) Models for free nilpotent Lie algebras. 91g:17015
- Green, William L. (with Morley, T. D.) Operator means and matrix functions. 91i:47020
- Grizzle, J. W. *see* Di Benedetto, M. D., 91j:93016
- Grossman, Robert *see* Grayson, Matthew, 91g:17015
- Gu, Da-Wei (with Tsai, Mi-Ching; Postlethwaite, Ian) A frame approach to the H^∞ superoptimal solution. 91h:93059
- Gündes, A. N. (with Desoer, C. A.) ★ Algebraic theory of linear feedback systems with full and decentralized compensators. 91i:93001
- Hautus, M. L. J. *see* Geerts, A. H. W., 91d:49035
- Helmke, Uwe *see* Fuhrmann, P. A., 91b:93023
- de Hoyos, Inmaculada *see* Gracia, Juan-Miguel; et al., 91i:93026
- Hvostov, Harry S. Simplifying H_∞ controller synthesis via classical feedback system structure. (Not in MR)
- Inaba, Hiroshi (with Ito, Naoharu; Munaka, Tatsuji) Decoupling and pole assignment for linear systems defined over principal ideal domains. 91h:93076
- Ito, Naoharu *see* Inaba, Hiroshi; et al., 91h:93076
- Kailath, Thomas *see* Lev-Ari, Hanoch; et al., 91h:93114
- Kang, Jeongook *see* Antoulas, A. C.; et al., 91g:41016
- Khraschi, Nasser M. (with Emami-Naeini, Abbas) A characterization of optimal scaling for structured singular value computation. 91g:90152
- Klompstra, Martin H. Comments on: "Matrix inequalities applicable to estimating solution sets of Riccati and Lyapunov equations" [IEEE Trans. Automat. Control 34 (1989), no. 1, 97–98] by N. Komaroff. (Not in MR)
- (Komaroff, N.) *see* Klompstra, Martin H., (Not in MR)
- Kósa, A. Characterization of mixed Kalman matrices in geometrical and optimization terms. (Italian summary) 91j:93048
- Kuntsevich, V. M. Matrix models of two-dimensional discrete fields and their application in digital signal processing systems. (Russian) (Not in MR)
- Lamnabhi-Lagarigue, Françoise *see* Crouch, Peter E., 91f:05011
- Laub, Alan J. *see* Choi, Chis H., (Not in MR)
- Lev-Ari, Hanoch (with Bistritz, Yuval; Kailath, Thomas) Generalized Bezoutians and efficient root-location. 91h:93114
- Leyva-Ramos, J. Partial-fraction expansion in system analysis. 91m:93081
- Limebeer, David J. N. *see* Safonov, Michael G.; et al., (Not in MR)
- Lin, Ai Zhong The basic theory for forming the optimum architecture of a system. 91d:93002
- Lin, Yi P. Periodic linked hierarchies of systems. 91h:93006
- Lindquist, Anders *see* Byrnes, Christopher I., 91g:93030
- Lü, Yong Zai *see* Wang, Yao Qing, (Not in MR)
- Malabre, Michel *see* Bonilla, E. Moisés, 91g:93022
- McFarlane, D. C. (with Glover, Keith) ★ Robust controller design using normalized coprime factor plant descriptions. 91b:93003
- Mita, Tsutomu *see* Sampel, Mitsuru; et al., 91a:93023
- Morales, C. H. *see* Zhu, Jianchao, 91d:15045
- Morley, T. D. *see* Green, William L., 91i:47020
- Munaka, Tatsuji *see* Inaba, Hiroshi; et al., 91h:93076
- Nagurka, Mark L. *see* Yen, Vincent, 91d:49038
- Nakamichi, Matsuhiro *see* Sampel, Mitsuru; et al., 91a:93023
- Ober, Raimund A note on a system-theoretic approach to a conjecture by Peller-Khrushchev: the general case. 91f:47038
- Olivi, Martine *see* Baratchart, Laurent; et al., 91h:41035
- Parzer, Yu. I. ★ Управление Ляпуновом и Риккати. (Russian) [Lyapunov and Riccati equations] 91d:93001
- Pearson, A. E. *see* Flagbedzi, Y. A., 91h:93020
- Pesterev, A. V. Some properties of spectral-parameter-dependent meromorphic matrices that arise in the study of the spectra of complex systems. 91i:93009
- Petersen, Ian R. Complete results for a class of state feedback disturbance attenuation problems. 91f:93037
- Postlethwaite, Ian *see* Gu, Da-Wei; et al., 91h:93059
- Rebarber, Richard Semigroup generation and stabilization by A^p -bounded feedback perturbations. 91i:93091
- de Sá, Eduardo Marques Interlacing and degree conditions for invariant polynomials. 91h:15010
- Safonov, Michael G. (with Limebeer, David J. N.; Chiang, R. Y.) Erratum: "Simplifying the H^∞ theory via loop-shifting, matrix-pencil and descriptor concepts" [Internat. J. Control 50 (1989), no. 6, 2467–2488]. (Not in MR)
- Sampel, Mitsuru (with Mita, Tsutomu; Nakamichi, Matsuhiro) An algebraic approach to H_∞ output feedback control problems. 91a:93023
- Sebakhy, O. A. State-space design of ripple-free deadbeat multivariable systems. 91b:93072
- Semenov, Yu. M. The structure of the set of almost instantaneous zero-attainability. 91h:93013
- de la Sen, Manuel On algebraic equivalences between decentralized and centralized linear control. 91c:93006
- Algebraic results for linear-equation structures involving polynomial block-matrix partitions. Some implications in decentralized control theory. 91m:93012
- Shadwick, W. F. *see* Gardner, Robert B., 91f:93022
- Townley, S. B. Stability radius optimization: a geometric approach. (Not in MR)
- Trapp, G. E. *see* Ando, Tsuyoshi; et al., 91c:15007
- Tsai, Mi-Ching *see* Gu, Da-Wei; et al., 91h:93059
- Van Barel, Marc (with Bultheel, Adhemar) An algebraic method to solve the minimal partial realization problem for matrix sequences. 91h:93030
- Wang, Long (with Zheng, Da Zhong) Identification of linear discrete event dynamical systems. (Chinese. English summary) 91e:93049

- Wang, Yao Qing (with Li, Yong Zai) Two theorems concerning the determination of weighted matrices. (Chinese. English summary) (Not in MR)
- Wielonsky, F. see Baratchart, Laurent; et al., 91b:41035
- Willems, Jan C. see Antonas, A. C.; et al., 91g:41016
- Xu, Xin He see Yu, Hai Bin, 91f:90072
- Yen, Vincent (with Nagurka, Mark L.) Fourier-based optimal control approach for structural systems. 91d:49038
- Young, Nicholas J. A polynomial method for the singular value decomposition of block Hankel operators. 91c:93027
- Yu, Hai Bin (with Xu, Xin He) Application of minimax algebra to center location problems. (Chinese. English summary) 91f:90072
- Zaballa, Ion see Gracia, Juan-Miguel; et al., 91i:93026
- Zheng, Da Zhong see Wang, Long, 91c:93049
- Zhu, Jianchao (with Morales, C. H.) Spatial decomposition of functionally commutative matrices. 91d:15045

93B27 Geometric methods (including algebro-geometric)

- Chen, Inheung (with Lawson, Jimmie D.) Problems on semigroups and control. 91f:93031
- Crouch, Peter E. Graded and nilpotent approximations of input-output systems. 91d:93021
- Grasse, Kevin A. Invariant distributions, global decompositions of nonlinear systems, and applications. 91d:93022
- Hermes, Henry Nilpotent approximations of control systems. 91c:93022
- Hilrichsen, D. (with O'Halloran, J.) A complete characterization of orbit closures of controllable singular systems under restricted system equivalence. 91c:93023
- Hilberts, H. J. C. (with van der Schaft, A. J.) Input-output decoupling with stability for Hamiltonian systems. 91m:93042
- Ichmann, Achim Time-varying linear control systems: a geometric approach. 91a:93018
- Lawson, Jimmie D. see Chen, Inheung, 91f:93031
- Leite, Vitor M. P. see Pereira da Silva, Paulo Sérgio, (Not in MR)
- Lewis, F. L. Computational geometry for design in singular systems. 91d:93023
- Millman, Mark H. (with Scheid, Robert E.) Factorization and the synthesis of optimal feedback gains for distributed parameter systems. 91f:93033
- Nijmeijer, Henk (with van der Schaft, A. J.) ★ Nonlinear dynamical control systems. 91d:93034
- O'Halloran, J. see Hilrichsen, D., 91c:93023
- Pereira da Silva, Paulo Sérgio (with Leite, Vitor M. P.) Static reachability and static decoupling of linear time-invariant systems. (Not in MR)
- Piazzi, A. Geometric aspects of reduced-order compensators for disturbance rejection. 91j:93030
- Pommaret, J.-F. Group theory and controllability of partial differential control systems. (see 91f:93002)
- van der Schaft, A. J. see Nijmeijer, Henk, 91d:93034 and Hilberts, H. J. C., 91m:93042
- Scheid, Robert E. see Millman, Mark H., 91f:93033
- Sira-Ramirez, Hebert Sliding mode controlled relaxation oscillations. 91b:93043
- Walcott, Bruce L. see Zak, Stanislaw H., (Not in MR)
- Wang, Hong Cai Differentiable manifolds and nonlinear control systems. (Chinese) 91d:93025
- Yang, Wei Lin (with Zhang, Si Ying) A kind of nonlinear system and its reduction and structural control. (see 91f:93002)
- Zak, Stanislaw H. (with Walcott, Bruce L.) Input-output linearizability of affine nonlinear systems. (Not in MR)
- Zhang, Si Ying see Yang, Wei Lin, 91f:93002

Items with secondary classifications in 93B27

- Asaraai, A. see Fletcher, L. R., 91b:93092
- Banaszuk, Andrzej (with Kociński, Maciej; Przyłuski, K. M.) Implicit linear discrete-time systems. 91c:93053
- Basto Gonçalves, J. Local controllability in 3-manifolds. 91c:93007
- Berger, W. A. (with Perry, Richard J.) Geometric approach to parametric sensitivity and gain suppression. (see 91f:93002)
- Cao, Li² (with Zheng, Yu Fan) On the reachable semigroup of bilinear control systems on Lie group. 91c:93004
- Cheng, Dai Zhan (with Dayawansa, W. P.; Martin, Clyde Franklin) Observability of systems on Lie groups and coset spaces. 91f:93012
- Derydor, A. A. The quasi-Hölder property of the boundary of attainability. (Russian) 91d:93003
- Dayawansa, W. P. see Cheng, Dai Zhan; et al., 91f:93012
- Descusse, J. The block essential orders and the dynamic block decoupling problem. 91b:93065
- Fletcher, L. R. (with Asaraai, A.) On disturbance decoupling in descriptor systems. 91b:93092
- Fliess, Michel Generalized controller canonical forms for linear and nonlinear dynamics. 91f:93016
- Gardner, Robert B. ★ The method of equivalence and its applications. 91j:58007
- Grossman, Robert Solving nonlinear equations from higher order derivations in linear stages. 91f:58111
- Hilgert, Joachim (with Hofmann, Karl Heinrich; Lawson, Jimmie D.) ★ Lie groups, convex cones, and semigroups. 91k:22020
- Hofmann, Karl Heinrich see Hilgert, Joachim; et al., 91k:22020
- Jakubczyk, Bronisław Equivalence and invariants of nonlinear control systems. 91c:93045
- Jurdjević, Velimir Singular optimal problems. 91b:49038
- Kappos, Efthimios A geometrical linearization theory. 91d:58236
- Kociński, Maciej see Banaszuk, Andrzej; et al., 91c:93053
- Kupka, Ivan A. K. Fuller's phenomena. 91f:49002
- Lawson, Jimmie D. see Hilgert, Joachim; et al., 91k:22020
- Lewis, F. L. see Özgüldiran, K., 91b:93037
- Marro, Giovanni ★ Teoria dei sistemi e del controllo. (Italian) [Systems and control theory] 91k:93002
- Martin, Clyde Franklin see Cheng, Dai Zhan; et al., 91f:93012

- Meyer, David G. The graph topology on n th-order systems is quotient Euclidean. 91k:93027
- Novak, Ladislav A. Reciprocity and antireciprocity of resistive N -ports: a brackets approach. 91f:94031
- Özgüldiran, K. (with Lewis, F. L.) On the regularizability of singular systems. 91b:93037
- Perry, Richard J. see Berger, W. A., (91f:93002)
- Przyłuski, K. M. see Banaszuk, Andrzej; et al., 91c:93053
- Respondek, Witold Right and left invertibility of nonlinear control systems. 91d:93037
- Shamir, T. Remarks on some dynamical problems of controlling redundant manipulators. 91b:70048
- Shoshitaishvili, A. N. The Ashby relation and the control of the qualitative behavior of dynamical systems. 91g:58233
- Zheng, Yu Fan see Cao, Li², 91c:93004

93B28 Operator-theoretic methods [see also 47A57, 47N70]

- Brilleau, Grigore Matrix operators for numerically stable representation of stiff linear dynamic systems. (Not in MR)
- Curtain, Ruth F. (with Weiss, George) Well posedness of triples of operators (in the sense of linear systems theory). 91d:93027
- Fan, Michael K. H. (with Fu, Jyun-Hong) Block limiting norm and structured singular value. 91b:93044
- Foias, Ciprian (with Tannenbaum, Allen) Operator theoretic methods in the control of distributed and nonlinear systems. 91c:93024
- Fu, Jyun-Hong see Fan, Michael K. H., 91b:93044
- Glover, Keith see Limebeer, David J. N.; et al., 91m:93043
- Halikias, G. D. see Limebeer, David J. N.; et al., 91m:93043
- Kawatani, Ryoji see Liu, Kang Zhi; et al., 91c:93025
- Korotkiĭ, A. I. On an integral representation of G -limit operators. (Not in MR)
- Limebeer, David J. N. (with Halikias, G. D.; Glover, Keith) State-space algorithm for the computation of superoptimal matrix interpolating functions. 91m:93043
- Liu, Kang Zhi (with Mita, Tsutomu; Kawatani, Ryoji) Parametrization of state feedback H^∞ controllers. 91c:93025
- Mäkilä, Pertti M. Approximation of stable systems of Laguerre filters. 91f:93034
- Meyer, David G. A new class of shift-varying operators, their shift-invariant equivalents, and multirate digital systems. (Not in MR)
- Mita, Tsutomu see Liu, Kang Zhi; et al., 91c:93025
- Sontag, Eduardo D. Some connections between stabilization and factorization. 91a:93019
- Tadmor, Gilead H_∞ interpolation in systems with commensurate input lags. 91b:93045
- Input/output norms in general linear systems. 91b:93035
- Tannenbaum, Allen see Foias, Ciprian, 91c:93024
- Wang, Shien Yu Convergence of block pulse series approximation solution for optimal control problem. 91c:93026
- Weiss, George The representation of regular linear systems on Hilbert spaces. 91d:93026
- Weakly H^∞ -stable linear operators are power stable. 91b:93046
- see also Curtain, Ruth F., 91d:93027
- Young, Nicholas J. A polynomial method for the singular value decomposition of block Hankel operators. 91c:93027
- Zhu, Si Quan On normalized Bezout fractions of distributed LTI systems. 91m:93044
- Items with secondary classifications in 93B28
- Avniel, Y. B. see Mitter, Sanjoy K., 91b:47023
- Baghdadi, Lamia (with Rabah, Rabah) A note on the stabilization of linear systems in Hilbert spaces. 91b:93134
- Ball, Joseph A. (with Helton, J. William) Shift invariant subspaces, passivity, reproducing kernels and H^∞ -optimization. 91f:47101
- (with Gohberg, Israel; Rodman, Leiba) Two-sided Nudel'man interpolation problems for rational matrix functions. 91g:30040
- Bercovici, Hari (with Foias, Ciprian; Tannenbaum, Allen) A spectral commutant lifting theorem. 91j:47006
- Byrnes, Christopher L. (with Isidori, Alberto) Uniform bounded input-bounded output stabilization of nonlinear systems. 91b:93058
- Declu, Elena On the dual operator nodes on complex Banach spaces. (Romanian summary) 91b:47038
- Foias, Ciprian see Bercovici, Hari; et al., 91j:47006
- Francis, Bruce A. Snippets of \mathcal{H}_∞ control theory. 91b:93057
- Frishling, Volf Multiple discrete semigroups of operations. 91b:93155
- Glover, Keith (with Lam, James; Partington, Jonathan R.) Rational approximation of a class of infinite-dimensional systems. I. Singular values of Hankel operators. 91c:93054
- Gohberg, Israel (with Kaashoek, M. A.) Block Toeplitz operators with rational symbols. 91b:47023
- see also Ball, Joseph A.; et al., 91g:30040
- Hautus, M. L. J. see Zhu, Si Quan; et al., 91a:49019
- Helton, J. William see Ball, Joseph A., 91f:47101
- Isidori, Alberto see Byrnes, Christopher L., 91b:93058
- Kaashoek, M. A. see Gohberg, Israel, 91b:47023
- Lam, James see Glover, Keith; et al., 91c:93054
- Littman, Walter A generalization of a theorem of Datko and Pazy. 91a:47052
- Máté, László On the continuity of causal operators. 91a:47049
- Mitter, Sanjoy K. (with Avniel, Y. B.) Scattering theory, unitary dilations and Gaussian processes. 91b:47023
- see also Zames, George, 91c:47027
- Munch, Niels Juel Causal data interpolation in Hilbert space. 91c:41096
- Myatnik, Yu. V. Pairs of operators in spaces with an indefinite metric, and passive systems. (Russian) 91c:47067
- Noidhardt, Hagen On the dissipative Lax-Phillips scattering theory. 91c:47015
- Ober, Raimund The parametrization of linear systems using balanced realizations: relaxation systems. 91b:93028
- Partington, Jonathan R. see Glover, Keith; et al., 91c:93054
- Pragman, C. see Zhu, Si Quan; et al., 91a:49019

- Rabah, Rabah. *see* Baghdadi, Lamia, 91b:93134
- Rodman, Leiba. On exact controllability of operators. 91k:47174
— *see also* Ball, Joseph A.; et al., 91g:30040
- Sideris, Athanasios. H_{∞} optimal control as a weighted Wiener-Hopf problem. 91b:93061
- Smith, Malcolm C. Well-posedness of H^{∞} optimal control problems. 91a:93024
- Tannenbaum, Allen. *see* Bercovici, Harj; et al., 91j:47006
- Treil, S. R. An inverse spectral problem for the modulus of the Hankel operator, and balanced realizations. 91k:47060
- Wilson, David A. System order reduction using the Hilbert-Schmidt norm of the Hankel operator. 91b:90217
- Zames, George (with Mitter, Sanjoy K.). A note on essential spectra and norms of (Hankel*Hankel + Toeplitz*) operators. 91e:47027
- Zayachkovskii, V. S. Canonical normal forms of operator pencils and their linearizers. (Russian) 91k:15015
- Zhu, Si Quan (with Hautus, M. L. J.; Praagman, C.). A lower and upper bound for the gap metric. 91a:49019

93B29 Differential-geometric methods

- Hermann, Robert A. "geometric" view of the dynamics of trajectories of computer programs. 91i:93036

Items with secondary classifications in 93B29

- Agrach, A. A. (with Gamkrelidze, R. V.). Symplectic geometry for optimal control. 91f:49032
- Banks, S. P. Global linear representations of nonlinear systems and the adjoint map. 91f:58083
- Basile, Giuseppe (with Marro, Giovanni; Piazzi, A.). Stability without eigenspaces in the geometric approach: the regulator problem. 91d:93060
- Fuhrmann, P. A. A polynomial approach to Hankel norm and balanced approximations. 91k:47030
- Gamkrelidze, R. V. *see* Agrach, A. A., 91f:49032
- Krishchenko, A. P. (with Nazarenko, A. N.). Computational aspects of the differential-geometric approach to problems in the nonlinear theory of control. (Russian) (Not in MR)
- Kupka, Ivan A. K. Applications of semigroups to geometric control theory. 91f:93009
- Marro, Giovanni. *see* Basile, Giuseppe; et al., 91d:93060
- Nazarenko, A. N. *see* Krishchenko, A. P., (Not in MR)
- Piazzi, A. *see* Basile, Giuseppe; et al., 91d:93060
- Sussmann, Héctor J. Envelopes, high-order optimality conditions and Lie brackets. 91d:49026

93B30 System identification

- Agathoklis, P. (with Sreeram, V.). Identification and model reduction from impulse response data. (Not in MR)
- Ahlén, Anders. Identifiability of the deconvolution problem. (Not in MR)
- Al-Janabi, Abdul Samee Abdul Razzak. An identification problem of distributed parameter systems. 91f:93032
- Anderson, Brian D. O. *see* Parker, Philip J., 91b:93051
- Baboshin, N. P. (with Naryshkin, D. G.). On identification of multidimensional fuzzy systems. (Not in MR)
- Bakhyshev, Sh. M. *see* Gardashev, T. B., (91m:00015)
- Bamieh, B. *see* Pearson, J. B., (Not in MR)
- Barabanov, A. T. (with Skorokhod, B. A.). Local algorithms for data processing in linear systems. Asymptotic behavior. Algorithms with intensive processing at the end. 91b:93047
- Baratchart, Laurent (with Cardelli, Michel; Olivi, Martine). Identification and rational L^2 approximation: a gradient algorithm. 91m:93045
- Bastin, Georges. *see* Haest, Marc; et al., (Not in MR)
- Bodson, Marc. *see* de Mathelin, Michel, (Not in MR)
- Bondarenko, M. V. Investigation of algorithms for the identification of nonstationary objects. 91f:93031
- Borkar, Vivek S. Self-tuning control of diffusions without the identifiability condition. 91m:93046
- Braiek, Ennaceur Benhadj (with Rotella, Frédéric). LOGID: a nonlinear systems identification software. 91e:93022
- (with Rotella, Frédéric). Identification of nonstationary continuous systems using modulating functions. 91b:93022
- Cao, Da Zhu. *see* Liu, Ruo Feng, (Not in MR) and Wang, Hong, (Not in MR)
- Cardelli, Michel. *see* Baratchart, Laurent; et al., 91m:93045
- Chaika, S. N. On the identification of dynamical systems of the Hammerstein class for a partially parametrized model structure. (Russian) 91i:93037
- Chen, Jie. *see* Zhang, Hong Yue, (Not in MR)
- Ch'en, Mu Yang (with Jarry, Y.). Excitation optimale d'un système parabolique en vue de l'identification. (English summary) [Optimal input of a parabolic system with an eye to identification] 91b:93023
- Chen, Ya Ling. A complementary variational method for system identification. (Chinese. English summary) 91b:93048
- Chow, Chen Yu. Identifiability of parameters for a double porosity medium system. 91c:93028
- Danilov, L. V. (with Solov'eva, E. B.). Construction of macromodels for nonlinear electric circuits on the basis of functional polynomials. (Russian) 91b:93049
- Datta, K. B. *see* Mohan, B. M., 91k:93030
- Fedorov, A. M. (with Lepshokov, S. I.). Minimax identification of homogeneous mathematical models. (Russian) (see 91j:00011)
- Folomeev, A. A. *see* Kapral'chenko, S. Yu., (91k:00023)
- Gardashev, T. B. (with Bakhyshev, Sh. M.). Identification of the characteristics of a mathematical model of a linear system of thermoelasticity. (Russian) (see 91m:00015)
- Gevers, Michel. *see* Haest, Marc; et al., (Not in MR)
- Grachev, N. I. (with Krasnosel'skii, M. A.; Kuznetsov, N. A.; Pokrovskii, A. V.). On the identification of a linear system on the basis of two tests. (Not in MR)
- Haber, R. (with Unbehauen, H.). Structure identification of nonlinear dynamic systems—a survey on input/output approaches. (Not in MR)
- Haest, Marc (with Bastin, Georges; Gevers, Michel; Wertz, Vincent). ESPION: an expert system for system identification. (Not in MR)
- Hasiewicz, Zygmunt Jerzy. Applicability of least-squares to the parameter estimation of large-scale no-memory linear composite systems. 91b:93050
- Jarry, Y. *see* Ch'en, Mu Yang, 91b:93023
- Kalita, A. S. *see* Volosov, V. V.; et al., 91g:93013
- Kapral'chenko, S. Yu. (with Folomeev, A. A.). An algorithm for the identification of tracking systems. (Russian) (see 91k:00023)
- Kostousova, E. K. Difference approximation of a problem of choosing the composition of a measurement in a parabolic system. (Russian) 91f:93033
- Approximation of the problem of choosing an optimal composition of measurements in a parabolic system. (Russian) 91j:93032
- Krasnosel'skii, M. A. *see* Grachev, N. I.; et al., (Not in MR)
- Krasovskii, A. A. A dual control and identification problem in the class of piecewise-linear models. (Not in MR)
- Kraus, Frantisek J. (with Schaufelberger, W.). Identification with block pulse functions, modulating functions and differential operators. (Not in MR)
- Kryazhimskii, A. V. (with Osipov, Yu. S.). Stable solutions of inverse problems of the dynamics of controllable systems. (Russian) 91a:93020
- Kuznetsov, N. A. *see* Grachev, N. I.; et al., (Not in MR)
- Lee, Kwang Yun. System identification of flexible structures. (see 91m:93004)
- Lepshokov, S. I. *see* Fedotov, A. M., (91j:00011)
- Levator, A. Yu. Calculus of estimates. 91f:93034
- Lew, Jiann-Shiun. *see* Mook, D. Joseph, (Not in MR)
- Liu, Dan. *see* Wang, Xia Feng, (Not in MR)
- Liu, Hong Tao. *see* Yu, Chang Guan, 91c:93030
- Liu, Ruo Feng (with Cao, Da Zhu). A method for estimating the parameters of the continuous Hammerstein model. (Chinese. English summary) (Not in MR)
- Ma, Xiao Jiang (with Yuan, Jing Xia). A study on methods for identifying second-order nonlinear modal parameters. (Chinese. English summary) (Not in MR)
- Mikiliš, Pertti M. Approximation and identification of continuous-time systems. 91b:93024
- Maksimov, V. I. Modeling controls and coefficients in parabolic evolution systems. 91c:93023
- Malysheva, A. M. Determination of state, input and output matrices of linear dynamical systems from their structural diagrams. (Not in MR)
- de Mathelin, Michel (with Bodson, Marc). Frequency domain conditions for parameter convergence in multivariable recursive identification. (Not in MR)
- Mohan, B. M. (with Datta, K. B.). Linear time-invariant distributed parameter system identification via orthogonal functions. 91k:93030
- Mook, D. Joseph (with Lew, Jiann-Shiun). A robust algorithm for system realization/identification. (Not in MR)
- Moonen, Marc (with Vandewalle, Joos). QVSD approach to on- and off-line state-space identification. (Not in MR)
- Naryshkin, D. G. *see* Baboshin, N. P., (Not in MR)
- Niu, Shao Hua (with Xiao, De Yun). An algorithm for structure identification and parameter estimation of multivariable systems. (Chinese. English summary) 91e:93024
- Nizhachenko, E. A. *see* Volosov, V. V.; et al., 91g:93013
- Novotková, Jana. M -estimators and gnosical estimators for identification of a regression model. (Not in MR)
- Olivi, Martine (with Steer, S.). Approximation rationnelle en norme L^2 des systèmes dynamiques. (English summary) [Rational approximation in L^2 norm of dynamical systems] 91i:93038
- *see also* Baratchart, Laurent; et al., 91m:93045
- Osipov, Yu. S. *see* Kryazhimskii, A. V., 91a:93020
- Pan, De Hui. *see* Wang, Wei Ping, (Not in MR)
- Parker, Philip J. (with Anderson, Brian D. O.). Hilbert transforms from interpolation data. 91b:93051
- Pearson, J. B. (with Bamieh, B.). On minimizing maximum errors. (Not in MR)
- Pokrovskii, A. V. *see* Grachev, N. I.; et al., (Not in MR)
- Prasada Rao, Ganti. *see* Unbehauen, H., (Not in MR)
- Rolikhin, A. E. (with Toloknov, V. I.). Identification of dynamic nonlinear systems of one class by the method of projection functionals. 91k:93031
- Rotella, Frédéric. *see* Braiek, Ennaceur Benhadj, 91e:93022 and 91b:93022
- Sagara, Setsuo (with Yang, Zi-Jiang; Wada, Kiyoshi). Recursive identification algorithms for continuous systems using an adaptive procedure. (Not in MR)
- Schaufelberger, W. *see* Kraus, Frantisek J., (Not in MR)
- Shorikov, A. F. Minimax identification for nonlinear multistage systems with incomplete information. (Russian) 91m:93047
- Shu, Zhong Zhou. General identification theorems for the asymptotic stability of large-scale systems. (Chinese. English summary) (Not in MR)
- Sierocki, Ireneusz. A description of a set of hypotheses for system identification problem. 91c:93029
- Skorokhod, B. A. *see* Barabanov, A. T., 91b:93047
- Solov'eva, E. B. *see* Danilov, L. V., 91b:93049
- Sreeram, V. *see* Agathoklis, P., (Not in MR)
- Steer, S. *see* Olivi, Martine, 91i:93038
- Toloknov, V. I. *see* Rolikhin, A. E., 91k:93031
- Tolstikh, V. K. The choice of a performance index for the identification of distributed systems. (Russian) (Not in MR)
- Tu, Jian. *see* Yang, Fu Wen, (Not in MR)
- Tulleken, Herbert J. A. F. Generalized binary noise test-signal concept for improved identification-experiment design. (Not in MR)
- Unbehauen, H. (with Prasada Rao, Ganti). Continuous-time approaches to system identification—a survey. (Not in MR)
- *see also* Haber, R., (Not in MR)

- Ushkova, T. E. Optimal estimation of navigational information on the basis of linear models. (Russian) (see 91c:00013)
- Ustuzhnik, A. M. Mean square approximation in a problem of the identification of a linear matrix parameter. (Russian) (see 91c:93026)
- Vandewalle, Joes see Moenen, Marc, (Not in MR)
- Volosov, V. V. (with Kalita, A. S.; Nizhichenko, E. A.) Investigation of one form of nonstochastic identification algorithms that uses the Lyapunov direct method. 91c:93013
- Wada, Kiyoshi see Sagara, Setsuo; et al., (Not in MR)
- Wahlberg, Bo The effects of rapid sampling in system identification. (Not in MR)
- Wang, Hong? (with Cao, Da Zhu) An MRIV (modified refined instrumental variable) method for the identification of closed loop systems with unknown feedback. (Chinese. English summary) (Not in MR)
- Wang, Wei Ping (with Pan, De Hui) Two adaptive recursive algorithms for estimating time-varying parameters. (Chinese. English summary) (Not in MR)
- Wang, Xia Feng (with Liu, Dan) A recursive algorithm for GMDH. (Not in MR)
- Wertz, Vincent see Haest, Marc; et al., (Not in MR)
- (Willems, Jan C.) see From data to model, 91c:93031
- Xiao, De Yun see Niu, Shao Hua, 91c:93024
- Yakovlev, V. P. Decomposition of a problem of identifying discrete mechanical systems by time data. (Russian) (Not in MR)
- Yang, Fu Wen (with Tu, Jian) An identification algorithm without the persistent excitation requirement, and its global convergence. (Chinese. English summary) (Not in MR)
- Yang, Zi-Jiang see Sagara, Setsuo; et al., (Not in MR)
- Yu, Chang Guan (with Liu, Hong Tao) A new method for fuzzy model parameters in linear identification. (Chinese. English summary) 91c:93030
- Yuan, Jing Xia see Ma, Xiao Jiang, (Not in MR)
- Zelyk, Ya. I. Recursive algorithms for the current identification of a matrix of the frequency characteristics of a control object. (Russian) (Not in MR)
- Zhang, Hong Yue (with Chen, Jie) Identification of physical parameters of ground vehicle using block-pulse function method. (Not in MR)
- Items listed otherwise than by author
- From data to model ★ From data to model. 91c:93031
- Items with secondary classifications in 93B30
- Andrievskii, B. R. (with Stotskii, A. A.; Fradkov, A. L.) Velocity gradient algorithms in problems of control and adaptation. 91c:49001
- Banks, H. T. (with Kunisch, Karl) ★ Estimation techniques for distributed parameter systems. 91b:93085
- (with Lo, C. K.; Reich, Simeon; Rosen, I. G.) Numerical studies of identification in nonlinear distributed parameter systems. 91b:65067
- (with Reich, Simeon; Rosen, I. G.) An approximation theory for the identification of nonlinear distributed parameter systems. 91c:47051
- Bodyanski, E. V. (with Pliss, I. P.) Solution of a problem of controlling a matrix object under conditions of uncertainty. (Russian) (Not in MR)
- Camadas de Wit, Carlos (with Carrillo, F. Javier) A modified EW-RLS algorithm for systems with bounded disturbances. (Not in MR)
- Carrillo, F. Javier see Camadas de Wit, Carlos, (Not in MR)
- Chapman, Michael J. see Godfrey, Keith R., 91c:92023 and (91b:92001)
- Dasgupta, Soura (with Shrivastava, Yash; Krenzer, George) Persistent excitation in bilinear systems. 91c:93051
- Fradkov, A. L. see Andrievskii, B. R.; et al., 91c:49001
- Gao, Wei Bing see Qu, Zhi Qiang, (Not in MR)
- Gilliam, D. S. (with Mair, B. A.; Martin, Clyde Franklin) Determination of initial states of parabolic systems from discrete data. 91b:65143
- Godfrey, Keith R. (with Chapman, Michael J.) A systematic approach to indistinguishability analysis of compartmental models. (see 91b:92001)
- (with Chapman, Michael J.) Identifiability and indistinguishability of linear compartmental models. 91c:92023
- Helmicki, Arthur J. (with Jacobson, Clas A.; Nett, Carl N.) Control-oriented modeling and identification of distributed parameter systems. (see 91c:93004)
- Jacobson, Clas A. see Helmicki, Arthur J.; et al., (91c:93004)
- Kitamura, Shinzo (with Kuroe, Yasuaki) Parameter identifiability of systems described by a first-order partial differential equation. 91c:35214
- Kogan, M. M. (with Neimark, Yu. I.) Identifiability of locally optimal adaptive control laws with indirect observations. 91c:93077
- Krenzer, George see Dasgupta, Soura; et al., 91c:93051
- Kryzhinskii, A. V. (with Osipov, Yu. S.) Stable positional reconstruction of a control from measurements of some of the coordinates. (Russian) 91b:93064
- Kunisch, Karl see Banks, H. T., 91b:93085
- Kuroe, Yasuaki see Kitamura, Shinzo, 91c:35214
- Lo, C. K. see Banks, H. T.; et al., 91b:65067
- Mair, B. A. see Gilliam, D. S.; et al., 91b:65143
- Martin, Clyde Franklin see Gilliam, D. S.; et al., 91b:65143
- Metel'skii, A. V. Dual problems of attainability and observability for linear time-independent systems with delay. (Russian) 91b:49008
- Mohamed, Fouad A. Parameter identification in hyperbolic and parabolic partial differential equations of cylindrical geometry from overspecified boundary data. 91c:35207
- Munch, Niels Juul Causal data interpolation in Hilbert space. 91c:41096
- Muskatina, I. L. see Pogorelov, A. G., 91d:00017
- Nakano, Kazushi (with Tsurumi, Ichiro; Sagara, Setsuo) Finite-dimensional approach to estimation of functional parameters in a parabolic system. 91c:93122
- Neimark, Yu. I. see Kogan, M. M., 91c:93077
- Nett, Carl N. see Helmicki, Arthur J.; et al., (91c:93004)
- Osipov, Yu. S. see Kryzhinskii, A. V., 91b:93064
- Orsereich, A. I. (with Reshetnyak, Yu. N.) Approximation of the intersection of ellipsoids in problems of guaranteed estimation. (Not in MR)
- Pandolfi, L. Internal description and external description of distributed parameter systems. (Italian. English summary) 91c:93048
- Petrov, I. I. Identification and optimal control of a distributed parameter system. 91b:49030

- Pliss, I. P. see Bodyanski, E. V., (Not in MR)
- Pogorelov, A. G. (with Muskatina, I. L.) Structure identification in unsteady-state chemical kinetics by derivation of models. 91d:80017
- Polderman, J. W. ★ Adaptive control & identification: conflict or conflux? 91b:93100
- Pronzato, L. see Walter, Eric, (Not in MR)
- Qu, Zhi Qiang (with Gao, Wei Bing) Dynamic output feedback variable structure control of large space structures. (Chinese. English summary) (Not in MR)
- Reich, Simeon see Banks, H. T.; et al., 91b:65067 and 91c:47051
- Reshetnyak, Yu. N. see Orsereich, A. I., (Not in MR)
- Romanovskii, M. R. Planning an experiment for mathematical model identification. (Not in MR)
- Rosen, I. G. see Banks, H. T.; et al., 91b:65067 and 91c:47051
- Saberli, Ali (with Sannuti, Peddapullaiah) Observer design for loop transfer recovery and for uncertain dynamical systems. 91m:93026
- Sagara, Setsuo see Nakano, Kazushi; et al., 91c:93122
- Sannuti, Peddapullaiah see Saberli, Ali, 91m:93026
- Schiervagen, A. K. Identification problems in distributed parameter neuron models. 91c:92008
- Shrivastava, Yash see Dasgupta, Soura; et al., 91c:93051
- Sivergina, I. F. On a problem of guaranteed estimation of an initial state of a first-order evolution system under conditions of uncertainty. (Russian) 91j:93058
- Stotskii, A. A. see Andrievskii, B. R.; et al., 91c:49001
- Tsurumi, Ichiro see Nakano, Kazushi; et al., 91c:93122
- Walter, Eric (with Pronzato, L.) Qualitative and quantitative experiment design for phenomenological models—a survey. (Not in MR)

93B35 Sensitivity (robustness)

- Anan'ev, B. I. (with Shiryayev, V. I.) The choice of the worst signals in multistep problems of guaranteed estimation. (Russian) 91b:93032
- Anderson, Brian D. O. (with Dasgupta, Soura; Khargonekar, Pramod P.; Kraus, Frantisek J.; Mansour, Mohamed) Robust strict positive realness: characterization and construction. 91c:93039
- see also Yan, Wei Yong, (Not in MR) and (Not in MR)
- Banda, Silva S. (with Yeh, Hsi-Han; Heise, Sharon A.) Robust control of uncertain systems with combined H_∞ and LQG optimizations. 91m:93048
- Bercovici, Hari (with Fois, Ciprian; Tannenbaum, Allen) Spectral radius interpolation and robust control. 91b:93052
- Berger, W. A. (with Perry, Richard J.) Geometric approach to parametric sensitivity and gain suppression. (see 91f:93002)
- Bitmead, Robert R. see Yan, Wei Yong; et al., (Not in MR)
- Brutyan, V. K. On a comparison of functions of the sensitivity of open and closed optimal nonlinear control systems. (Russian. Armenian summary) (Not in MR)
- Chao, Chien Hsiang (with Stalford, H. L.) On the robustness of linear stabilizing feedback control for linear uncertain systems: multi-input case. 91a:93021
- Chen, Zong Ji Robustness analysis of a discrete time model reference adaptive control scheme with respect to modeling errors. (Chinese. English summary) 91f:93035
- Chu, Y. T. see Wu, Wen T'eng; et al., (Not in MR)
- Corless, M. Guaranteed rates of exponential convergence for uncertain systems. 91c:93032
- Dasgupta, Soura see Anderson, Brian D. O.; et al., 91c:93039
- Dion, Jean Michel see Giri, Fouad; et al., (Not in MR)
- Doelzal, Vaclav Some results on sensitivity of general input-output systems. 91j:93033
- Doraiswami, R. Time-domain approach to quantification of overshoot, speed and robustness. (Not in MR)
- Duan, Guang Ren (with Pan, Shen Tian) The robust control of a class of continuous minimum phase systems. (Chinese. English summary) (Not in MR)
- Dugard, Luc see Giri, Fouad; et al., (Not in MR)
- Emel'yanov, S. V. (with Korovin, S. K.; Mamedov, I. G.; Nosov, A. P.) Asymptotic invariance in problems of the control of indeterminate objects. 91b:93025
- Enns, Dale see Fois, Ciprian; et al., 91a:93022
- (Filippova, T. F.) see Dynamic estimation problems under conditions of uncertainty, 91c:93026
- Fois, Ciprian (with Tannenbaum, Allen; Enns, Dale; Georgiou, Tryphon T.; Jackson, Michael; Schipper, Brian) On the nonlinear mixed sensitivity problem. 91a:93022
- see also Bercovici, Hari; et al., 91b:93052
- Georgiou, Tryphon T. see Fois, Ciprian; et al., 91a:93022
- Giannakopoulos, C. see Karcianias, N., 91b:93040
- Giri, Fouad (with M'Saad, Mohamed; Dion, Jean Michel; Dugard, Luc) On the robustness of discrete-time indirect adaptive (linear) controllers. (Not in MR)
- Gray, W. Steven (with Verriest, Erik I.) On the sensitivity of generalized state-space systems. 91b:93053
- (Gusev, M. I.) see Dynamic estimation problems under conditions of uncertainty, 91c:93026
- Gutman, Per-Olof see Yaniv, Oded; et al., (Not in MR)
- Heise, Sharon A. see Banda, Silva S.; et al., 91m:93048
- Higuchi, Tatsuo see Iwatsuki, Masami, 91b:93054
- Horowitz, Isaac M. see Kelemen, Matei; et al., (Not in MR)
- Höblér, Alfred see Shermor, R.; et al., (Not in MR)
- Ioannou, Petros A. see Tan, Gang, (Not in MR)
- Iwatsuki, Masami (with Higuchi, Tatsuo) Synthesis of minimum statistical sensitivity structures with fewer parameters in state-space systems. 91b:93054
- Jackson, Michael see Fois, Ciprian; et al., 91a:93022
- Jang, Yu Jen see Wu, Wen T'eng; et al., (Not in MR)
- Jin, Zhong Ji see Xu, Dong Ling; et al., (Not in MR)
- Kannai, Yakar see Kelemen, Matei; et al., (Not in MR)
- Karcianias, N. (with Giannakopoulos, C.) Necessary and sufficient conditions for zero assignment by constant squaring down. 91b:93040
- Kelemen, Matei (with Kannai, Yakar; Horowitz, Isaac M.) Arbitrarily low sensitivity (ALS) in linear distributed systems using pointwise linear feedback. (Not in MR)
- Khargonekar, Pramod P. see Anderson, Brian D. O.; et al., 91c:93039
- Khudiyev, A. A. see Osmulovskii, P. F., (Not in MR)

- Kim, A. V. (with Korotkiĭ, A. I.) Dynamic modelling of perturbations in parabolic systems. 91b:93041
- Korotkiĭ, A. I. see Kim, A. V., 91b:93041
- Korovin, S. K. see Emel'yanov, S. V.; et al., 91b:93025
- Kraus, Frantisek J. see Anderson, Brian D. O.; et al., 91b:93039
- de Larminat, Ph. La commande robuste: un tour d'horizon. (English summary) [Robust control: an overview] (Not in MR)
- Lewin, Daniel R. Robust performance specifications for uncertain stable SISO systems. (Not in MR)
- Mamedov, I. G. see Emel'yanov, S. V.; et al., 91b:93025
- Mansour, Mohamed see Anderson, Brian D. O.; et al., 91b:93039
- Maršák, J. Robust adaptive PID controller with automatic adjustment of sampling period. (Russian summary) (Not in MR)
- Melikov, A. Z. (with Ponomarenko, L. A.) ★ Математические модели мультисервисных систем обслуживания и их оптимизация. (Russian) [Mathematical models of multiservice queueing systems and their optimization] (Not in MR)
- Michel, Anthony N. (with Sun, Hung-Fa) Analysis of systems subject to parameter uncertainties: application of interval analysis. 91b:93042
- M'Saad, Mohamed see Giri, Fouad; et al., (Not in MR)
- Neumann, Linda see Yaniv, Oded; et al., (Not in MR)
- Nosov, A. P. see Emel'yanov, S. V.; et al., 91b:93025
- Nowak, Ołta D. I. Strong robustness in uncertain multivariable systems. 91m:93049
- Okada, Kenji (with Skelton, Robert E.) Sensitivity controller for uncertain systems. (Not in MR)
- Osmolovskii, P. F. (with Khudiyev, A. A.) The effect of input coordinates delay on the dynamic precision of a two-channel iterational measurement system. (Not in MR)
- Oustaloup, A. CRONE control: principle, synthesis, performances with nonlinearities and robustness-input immunity dilemma. (see 91b:93002)
- Packard, Norman H. see Sherman, R.; et al., (Not in MR)
- Pan, Shen Tian see Duan, Guang Ren, (Not in MR)
- Parvez, S. A. Attitude determination using antenna polarization angles. (Not in MR)
- Perry, Richard J. see Berger, W. A., (91b:93002)
- Polak, Elijah (with Salcudean, S. E.) Algorithms for optimal feedback design. 91g:93014
- Ponomarenko, L. A. see Melikov, A. Z., (Not in MR)
- Salcudean, S. E. see Polak, Elijah, 91g:93014
- Sánchez Peña, Ricardo S. (with Sideris, Athanasios) Robustness with real parametric and structured complex uncertainty. (Not in MR)
- Schlipper, Brian see Folas, Ciprian; et al., 91a:93022
- Sherman, R. (with Hübler, Alfred; Packard, Norman H.) Model-based control of the Burgers equation. (Not in MR)
- Shi, Song Jiao see Xu, Dong Ling; et al., (Not in MR)
- Shi, Song Jiao see Xu, Dong Ling; et al., (Not in MR)
- Shi, Song Jiao see Xu, Dong Ling; et al., (Not in MR)
- Sideris, Athanasios see Sánchez Peña, Ricardo S., (Not in MR)
- Šiljak, Dragoslav D. Parameter space methods for robust control design: a guided tour. 91b:93055
- Skelton, Robert E. see Xu, Ji-Han; et al., 91c:93025 and Okada, Kenji, (Not in MR)
- Soh, C. B. Invariance of the aperiodic property for polynomials with perturbed coefficients. 91b:93056
- Stallford, H. L. see Chao, Chien Hsiang, 91a:93021
- Sun, Hung-Fa see Michel, Anthony N., 91b:93042
- Tannenbaum, Allen see Folas, Ciprian; et al., 91a:93022 and Bercovici, Hari; et al., 91b:93052
- Tao, Gang (with Ioannou, Petros A.) Robust adaptive control—a modified scheme. (Not in MR)
- Verriest, Erik I. see Gray, W. Steven, 91b:93053
- Vyazovik, A. P. Control of motion and observation under conditions of incomplete information. (Russian) (see 91c:00013)
- Wang, Chang Yuan A robust self-tuning controller. (Chinese. English summary) (Not in MR)
- Wu, Wen Tōng (with Jang, Yu Jen; Chu, Y. T.) On-line stability index for robust control. (Not in MR)
- Xu, Dong Ling (with Shi, Song Jiao; Jin, Zhong Ji) A decoupling design method for multivariate H^∞ optimal systems. (Chinese. English summary) (Not in MR)
- Xu, Ji-Han (with Skelton, Robert E.; Zhu, Guoming) Upper and lower covariance bounds for perturbed linear systems. 91c:93025
- Yan, Wei Yong (with Anderson, Brian D. O.) The simultaneous optimization problem for sensitivity and gain margin. (Not in MR)
- (with Bitmead, Robert R.; Anderson, Brian D. O.) Design problems for sensitivity and complementary sensitivity. (Not in MR)
- Yaniv, Oded (with Gutman, Per-Olof; Neumann, Linda) An algorithm for the adaptation of a robust controller to reduced plant uncertainty. (Not in MR)
- Arbitrarily small sensitivity in multiple-input-output uncertain feedback systems. (Not in MR)
- Yaz, Engin Robustness of stochastic-parameter control and estimation schemes. (Not in MR)
- Yeh, Hsi-Han see Banda, Silva S.; et al., 91m:93048
- Zhu, Guoming see Xu, Ji-Han; et al., 91c:93025
- Items listed otherwise than by author
- Dynamic estimation problems under conditions of uncertainty ★ Динамические задачи оценивания в условиях неопределенности. (Russian) [Dynamic estimation problems under conditions of uncertainty] 91c:93026
- Items with secondary classifications in 93B35
- Aleksandrov, V. M. (with Sanina, S. B.) Optimization of a scheme for live tests and mathematical simulation of a system in order to bring it to an extremal regime. 91m:90192
- Bainov, D. D. see Miller, N. V., 91b:34014
- Ball, Joseph A. see Luse, D. William, 91c:93033
- (Barmish, B. Ross) see Chuang, Yao Tang, 91c:93059
- Benbouhane, H. see Stoten, D. P., (Not in MR)
- Bernstein, Dennis S. (with Haddad, Wassim M.) Robust stability and performance via fixed-order dynamic compensation with guaranteed cost bounds. 91c:93061
- Blanchini, Franco Control synthesis for discrete time systems with control and state bounds in the presence of disturbances. (Not in MR)
- Blaum, Mario A family of efficient burst-correcting array codes. (Not in MR)
- Bogataj, L. Sensitivity of linear-quadratic systems with delay in the state and in the control for perturbation of the system matrices. (Slovenian summary) 91m:45023
- Byrnes, Christopher I. (with Hu, Xiao Ming; Isidori, Alberto) Robust feedback stabilization of nonlinear systems. 91b:93136
- Cao, Xi-Ren Estimates of performance sensitivity of a stochastic system. 91a:93058
- Caputo, Michael R. Comparative dynamics via envelope methods in variational calculus. 91b:90013
- Carvalho Minhoto Teixeira, Marcelo Control of uncertain dynamical systems using strictly positive real systems. 91j:93038
- Chan, Chok You (with Sirisena, H. R.) Robustness of adaptive controller based on pole-zero placement. 91g:93023
- Chang, Timothy N. see Davison, Edward J., 91m:93065
- Chen, Han Fu (with Guo, Lei) Continuous-time stochastic adaptive tracking—robustness and asymptotic properties. 91d:93071
- see also Guo, Lei, 91b:93096
- Chen, Ye-Hwa Robust control system design: nonadaptive versus adaptive. 91f:93079
- Adaptive robust observers for nonlinear uncertain systems. 91i:93020
- Chiang, Dalen T. see Gao, Xian Lin; et al., 91b:93067
- Chuang, Yao Tang Comments on: "A generalization of Kharitonov's four-polynomial concept for robust stability problems with linearly dependent coefficient perturbations" [IEEE Trans. Automat. Control 34 (1989), no. 2, 157–165; MR 90b:93093] by B. R. Barmish. 91c:93059
- Clements, D. J. see Goh, C. J.; et al., 91b:93068
- Collado, Joaquín see Lozano Leal, Rogelio; et al., 91b:93098
- Corless, M. (with Zhu, Guoming; Skelton, Robert E.) Improved robustness bounds using covariance matrices. 91b:93066
- Dai, Guan Zhong see Yu, Tie Jun, (Not in MR)
- Davison, Edward J. (with Chang, Timothy N.) Decentralized stabilization and pole assignment for general proper systems. 91m:93065
- Dolezal, Václav Estimating the difference of operator inverses and sensitivity of systems. 91m:47094
- Eisaka, Toshio see Zhong, Yi Sheng; et al., (Not in MR)
- Esami, Mansour Robust nonlinear dynamic systems—the old question with a new answer. (Not in MR)
- Fattorini, H. O. (with Frankowska, Halina) Explicit convergence estimates for suboptimal controls. I. (Russian summary) 91j:49043
- Feintuch, Avraham Stabilization and sensitivity for eventually time-invariant systems. 91a:93051
- Francis, Bruce A. Snippets of \mathcal{H}_∞ control theory. 91b:93057
- Frankowska, Halina see Fattorini, H. O., 91j:49043
- Gabellay, A. G. An approach to solving a problem of stabilizing linear autonomous systems with incomplete information. (Russian. English and Georgian summaries) 91i:93087
- Gajic, Zoran (with Petkovski, Djordjija B.; Shen, Xuemin) ★ Singularly perturbed and weakly coupled linear control systems. 91j:93002
- Gao, Guang Min see Lin, Zi Feng, 91m:93011
- Gao, Xian Lin (with Zhang, Yong Chuan) Decentralized MRAS robust control of interconnected systems with measurable interconnection terms. (Chinese. English summary) 91b:93010
- (with Zhang, Yong Chuan; Chiang, Dalen T.) MRAS robust variable-structure control subject to constrained rate of change of control inputs. (Chinese. English summary) 91b:93067
- Garanichenko, F. G. (with Pantalienco, L. A.) ★ Исследование задач практической устойчивости и чувствительности динамических систем, зависящих от параметров. (Russian) [A study of problems of practical stability and sensitivity of dynamical systems that depend on parameters] 91m:93092
- Geraniotis, Evangelos Robust matched filters for noise uncertainty within two alternating capacity classes. (Not in MR)
- Gille, Jean-Charles see Węgrzyn, Stefan; et al., 91b:93002
- Goh, C. J. (with Lim, Cheng-Chew; Teo, Kok Lay; Clements, D. J.) Robust controller design for systems with interval parameter design. (Russian summary) 91b:93068
- Gao, Lei (with Chen, Han Fu) Robust stochastic adaptive control for nonminimum phase systems. 91b:93096
- see also Chen, Han Fu, 91d:93071
- Haddad, Wassim M. see Bernstein, Dennis S., 91c:93061
- Hautus, M. L. J. see Zhu, Si Quan; et al., 91a:90019
- Hejda, Ivan (with Veselý, Vojtech; Murgal, Ján) Decentralized adaptive control of partially known systems. (Russian summary) (Not in MR)
- Hewer, Gary see Kenney, Charles, 91a:49017
- Hu, Xiao Ming see Byrnes, Christopher I.; et al., 91b:93136
- Huang, Wen Hu see Xu, Xiao Hao; et al., (Not in MR)
- Ioannou, Petros A. Reply to: "Comments on the robust stability analysis of adaptive controllers using normalizations" [IEEE Trans. Automat. Control 34 (1989), no. 4, 478–479; MR 90c:93059] by P. P. Khargonekar and R. Ortega. (Not in MR)
- see also Tao, Gang, 91m:93077
- Isidori, Alberto see Byrnes, Christopher I.; et al., 91b:93136
- Juang, Jer-Nan see Rew, D. W.; et al., 91b:93036
- Junkins, J. L. see Rew, D. W.; et al., 91b:93036
- Kalaba, Robert (with Tefatsion, L.) Nonlocal automated sensitivity analysis. 91f:65148
- Kao, Chien Chung see Wang, Wen Chün; et al., 91m:93095
- Karkas, D. A. see Paraskevopoulos, P. N.; et al., (Not in MR)
- Kautsky, Jaroslav (with Nichols, N. K.) Robust pole assignment in systems subject to structured perturbations. 91j:93046
- Kenney, Charles (with Hewer, Gary) The sensitivity of the algebraic and differential Riccati equations. 91a:49017

- (Khargonekar, Pramod P.) see Ioannou, Petros A., (Not in MR)
- Khorasani, K. Feedback equivalence for a class of nonlinear singularly perturbed systems. 91b:93070
- Kinnert, Michel Right half plane poles and zeros and robustness limitations in feedback systems. (see 91f:93002)
- K'ung, Fan Chih see Shen, Chin Chung. (Not in MR)
- Lim, Cheng-Chew see Goh, C. J.; et al., 91b:93068
- Liu, Zi Feng (with Gao, Guang Min) A further study on decentralized control for interconnected systems. (Chinese. English summary) 91m:93011
- Lokshin, M. D. On the optimal control of a linear system under the condition of the integral disturbance constraint. (Russian summary) 91h:93038
- Lozano Leal, Rogelio (with Collado, Joaquín; Mordie, Sabine) Model reference robust adaptive control without a priori knowledge of the high frequency gain. 91b:93098
- Luse, D. William (with Ball, Joseph A.) Frequency-scale decomposition of H^∞ -disk problems. 91c:93033
- Matasov, A. I. Estimation of the sensitivity of the Kalman-Bucy filter to a priori values of covariance matrices. (Not in MR)
- Meeker, L. David Measurement stability of time-optimal feedback control of two-input strictly normal linear systems. 91f:49035
- Miller, N. V. (with Balnov, D. D.) Ordinary dichotomy and perturbations of the impulse matrices of linear impulsive differential equation. 91k:34014
- Mondie, Sabine see Lozano Leal, Rogelio; et al., 91b:93098
- Murgal, Ján see Hejda, Ivan; et al., (Not in MR)
- Nichols, N. K. see Kautsky, Jaroslav, 91j:93046
- Omorov, R. O. see Ushakov, A. V., 91b:93021
- (Ortega, Romeo) see Ioannou, Petros A., (Not in MR)
- Pantaleo, L. A. see Garashchenko, F. G., 91m:93092
- Paraskevopoulos, P. N. (with Sklavounos, P. G.; Karkas, D. A.) A new orthogonal series approach to sensitivity analysis. (Not in MR)
- Petrovski, Djordjija B. see Gajic, Zoran; et al., 91j:93002
- Pissa, P. V. The behavior of the controllability set of the van der Pol equation with control when the parameter tends to infinity. 91m:93022
- Prasanna, C. see Zhu, Si Quan; et al., 91a:49019
- Rachid, A. Robustness of pole assignment in a specified region for perturbed systems. 91b:93077
- Rew, D. W. (with Junkins, J. L.; Juang, Jer-Nan) Robust eigenstructure assignment by a projection method: applications using multiple optimization criteria. 91h:93036
- Santina, S. B. see Aleksandrov, V. M., 91m:90192
- Shen, Chin Chung (with K'ung, Fan Chih) Robust stability bounds for discrete optimal quadratic control designs. (Not in MR)
- Shen, Xuesen see Gajic, Zoran; et al., 91j:93002
- Singh, Sahjendra N. Ultimate boundedness control of uncertain systems with application to roll coupled aircraft maneuver. 91a:93027
- Siricena, H. R. see Chan, Chok You, 91g:93023
- Skelton, Robert E. see Corless, M.; et al., 91k:93066
- Sklavounos, P. G. see Paraskevopoulos, P. N.; et al., (Not in MR)
- Smith, Malcolm C. Well-posedness of H^∞ optimal control problems. 91a:93024
- Soh, C. B. Characterizations of eigenvalues of interval matrices. 91k:93043
- Song, Cheng Chong see Wang, Wen Chih; et al., 91m:93095
- Stoten, D. P. (with Benchohane, H.) Robustness of a minimal controller synthesis algorithm. (Not in MR)
- Tagawa, Ryoaburo see Zhong, Yi Sheng; et al., (Not in MR)
- Tao, Gang (with Ioannou, Petros A.) Robust adaptive control of plants with unknown order and high frequency gain. 91m:93077
- Tatarsov, A. M. The function of an optimal guaranteed result of control problems with a vector criterion. (Russian summary) 91m:90222
- Teo, Kok Lay see Goh, C. J.; et al., 91b:93068
- Tesfatsion, L. see Kalaba, Robert, 91f:65148
- Tomizuka, Masayoshi see Yang, Wei-Chi, 91f:93069
- Ushakov, A. V. (with Omorov, R. O.) Design of controllers for modal-robust automatic control systems. (Russian) 91h:93021
- Vesely, Vojtech see Hejda, Ivan; et al., (Not in MR)
- Vidal, Pierre see Wegrzyn, Stefan; et al., 91h:93002
- Wang, Wen Chih (with Song, Cheng Chong; Kao, Chien Chung) Robustness bounds for large-scale time-delay systems with structured and unstructured uncertainties. 91m:93095
- Wegrzyn, Stefan (with Vidal, Pierre; Gille, Jean-Charles) On some models for developmental systems. XII. More on internal context sensitivity. 91h:93002
- Wu, Si Liang A new method for designing robust pole assignment control systems. (Chinese. English summary) (Not in MR)
- Wu, Yao Hua² see Xu, Xiao Hao; et al., (Not in MR)
- Xu, Dong Ling (with Yang, Jian Bo) Design of controllers with H^∞ minimal sensitivity for singular systems. (Chinese. English summary) (Not in MR)
- Xu, Xiao Hao (with Wu, Yao Hua²; Huang, Wen Hu) Decentralized adaptive control of large-scale discrete systems with unmodeled dynamics. (Chinese. English summary) (Not in MR)
- Yang, Jian Bo see Xu, Dong Ling. (Not in MR)
- Yang, Wei-Chi (with Tomizuka, Masayoshi) Discrete time robust control via state feedback for single input systems. 91f:93069
- Yu, Tie Jun (with Dai, Guan Zhong) Design of robust pole assignment controllers. (Chinese. English summary) (Not in MR)
- Zhang, Yong Chuan see Gao, Xian Lin, 91b:93010 and 91b:93067
- Zhong, Yi Sheng (with Tagawa, Ryoaburo; Eisaka, Toshio) Robust model matching design method which ensures stability. (Not in MR)
- Zhu, Guoming see Corless, M.; et al., 91k:93066
- Zhu, Si Quan (with Hautus, M. L. J.; Praagman, C.) A lower and upper bound for the gap metric. 91a:49019
- with differential games. 91i:93043
- see also Luse, D. William, 91c:93033
- Boekhoudt, Piet Solution of polynomial equations in \mathcal{H}_∞ optimal control. 91j:93034
- Feintuch, Abraham The gap metric for time-varying systems. (Not in MR)
- Francis, Bruce A. Snippets of \mathcal{H}_∞ control theory. 91b:93057
- Frazho, Arthur see Le, D. K., 91k:93033
- Fujita, Masayuki (with Uchida, Kenko; Matsumura, Fumio) Asymptotic H^∞ disturbance attenuation based on perfect observation. (Not in MR)
- Green, Michael see Limebeer, David J. N.; et al., 91d:93028 and 91i:93045
- Grimble, Michael J. Generalised H_∞ multivariable controllers. 91f:93036
- Predictive H_∞ model reference optimal control law for SIMO systems. 91m:93050
- Design procedure for combined H_∞ and LQG cost problem. 91b:93058
- Gu, Da-Wei (with Tsai, Mi-Ching; Postlethwaite, Ian) A frame approach to the H^∞ superoptimal solution. 91b:93059
- Helton, J. William (with Young, Nicholas J.) Approximation of Hankel operators: truncation error in an H^∞ design method. 91h:93026
- see also Ball, Joseph A., 91i:93043
- Kawtani, Ryoji (with Kimura, Hidenori) Synthesis of reduced-order H^∞ controllers based on conjugation. 91i:93044
- Kimura, Hidenori see Kawtani, Ryoji, 91i:93044
- Le, D. K. (with Frazho, Arthur) A numerical procedure for a nonrational H^∞ -optimization problem in control design. 91k:93033
- Limebeer, David J. N. (with Green, Michael; Walker, Daniel James) Discrete time H^∞ control. 91d:93028
- (with Green, Michael) Parametric interpolation, H^∞ -control and model reduction. 91i:93045
- Lin, Chin E. see Young, Jieh Shian; et al., 91j:93036
- Liu, Kang Zhi (with Mita, Tsutomu) Conjugation and H^∞ control of discrete time systems. 91d:93029
- (with Mita, Tsutomu) H^∞ control of discrete time systems. (Japanese summary) 91d:93027
- Luse, D. William (with Ball, Joseph A.) Frequency-scale decomposition of H^∞ -disk problems. 91c:93033
- Matsumura, Fumio see Fujita, Masayuki; et al., (Not in MR)
- Mita, Tsutomu see Sampel, Mitsuji; et al., 91a:93023; Lin, Kang Zhi, 91d:93029 and 91d:93027
- Nakamichi, Matsuhiro see Sampel, Mitsuji; et al., 91a:93023
- Özbay, Hilay (with Tannenbaum, Allen) A skew Toeplitz approach to the H^∞ optimal control of multivariable distributed systems. 91k:93060
- A simpler formula for the singular values of a certain Hankel operator. 91m:93051
- Petersen, Ian R. Complete results for a class of state feedback disturbance attenuation problems. 91f:93037
- Postlethwaite, Ian see Gu, Da-Wei; et al., 91b:93059
- Sampel, Mitsuji (with Mita, Tsutomu; Nakamichi, Matsuhiro) An algebraic approach to H_∞ output feedback control problems. 91a:93023
- Scherer, Carsten H_∞ -control by state-feedback and fast algorithms for the computation of optimal H_∞ -norms. 91k:93034
- Sideris, Athanasios H_∞ optimal control as a weighted Wiener-Hopf problem. 91b:93061
- Smith, Malcolm C. Well-posedness of H^∞ optimal control problems. 91a:93024
- de Souza, Carlos E. see Xie, Lihua, 91i:93046
- Stoorvogel, Antonie Arij ★ The H_∞ control problem: a state space approach. 91m:93053
- (with Trentelman, H. L.) The quadratic matrix inequality in singular H_∞ control with state feedback. 91h:93028
- The singular H_∞ control problem with dynamic measurement feedback. 91m:93052
- Tannenbaum, Allen see Özbay, Hilay, 91k:93060
- Trentelman, H. L. see Stoorvogel, Antonie Arij, 91h:93028
- Tsai, Mi-Ching see Gu, Da-Wei; et al., 91b:93059
- Uchida, Kenko see Fujita, Masayuki; et al., (Not in MR)
- Walker, Daniel James see Limebeer, David J. N.; et al., 91d:93028
- Wang, Le Yi (with Zames, George) Lipschitz continuity of H^∞ interpolation. 91j:93035
- (with Zames, George) Local-global double algebras for slow H^∞ adaptation. II. Optimization of stable plants. 91m:93054b
- see also Zames, George, 91m:93054a
- Xie, Lihua (with de Souza, Carlos E.) Robust H_∞ control for linear time-invariant systems with norm-bounded uncertainty in the input matrix. 91i:93046
- Yeh, Fang Bo see Young, Jieh Shian; et al., 91j:93036
- Young, Jieh Shian (with Lin, Chin E.; Yeh, Fang Bo) Characterization of the sub-layers for 2-block H^∞ -optimal control problem. 91j:93036
- Young, Nicholas J. see Helton, J. William, 91h:93026
- Zames, George (with Wang, Le Yi) Local-global double algebras for slow H^∞ adaptation. I. Inversion and stability. 91m:93054a
- see also Wang, Le Yi, 91j:93035 and 91m:93054b

93B36 H^∞ -control

- Ball, Joseph A. (with Helton, J. William) H^∞ control for nonlinear plants: connections

Items with secondary classifications in 93B36

- Ball, Joseph A. (with Helton, J. William) Shift invariant subspaces, passivity, reproducing kernels and H^∞ -optimization. 91f:47101
- Banda, Silva S. (with Yeh, Hsi-Han; Heise, Sharon A.) Robust control of uncertain systems with combined H_∞ and LQG optimizations. 91m:93048
- Chen, Tongwen (with Francis, Bruce A.) On the \mathcal{L}_2 -induced norm of a sampled-data system. 91h:93047
- Curtain, Ruth F. Robust stabilizability of normalized coprime factors: the infinite-dimensional case. 91c:93075
- Elasayed, Ahmed see Grimble, Michael J., 91c:93090
- Foias, Ciprian (with Tannenbaum, Allen) Iterative commutant lifting for systems with rational symbol. 91f:47102
- (with Tannenbaum, Allen) Operator theoretic methods in the control of distributed and nonlinear systems. 91c:93024
- Francis, Bruce A. see Chen, Tongwen, 91h:93047
- Glover, Keith see McFarlane, D. C., 91b:93003

- Grimble, Michael J. (with Elsayed, Ahmed) Solution of the H_∞ optimal linear filtering problem for discrete-time systems. 91f:93090
- Heise, Sharon A. see Banda, Siva S.; et al., 91m:93048
- Hilton, J. William Beyond commutant lifting. (see 91g:47001)
- see also Ball, Joseph A., 91f:47011
- Katayama, Tooru Solutions to Wiener filtering and stationary LQG problem via H_2 control theory. II. Discrete-time system. (Not in MR)
- Khargonekar, Pramod P. (with Petersen, Ian R.; Zhou, Kemin) Robust stabilization of uncertain linear systems: quadratic stabilizability and H^∞ control theory. 91e:93077
- Mansour, Mohamed see Wu, Q. H., 91f:93081
- McFarlane, D. C. (with Glover, Keith) ★ Robust controller design using normalized coprime factor plant descriptions. 91b:93003
- Mitter, Sanjoy K. see Zames, George, 91e:47027
- Petersen, Ian R. see Khargonekar, Pramod P.; et al., 91e:93077
- Shaked, U. Directional interpolation via all-pass transfer function matrices and its application in Hankel-norm approximations. 91f:93028
- Tadmor, Gilead Worst-case design in the time domain: the maximum principle and the standard H_∞ problem. 91f:93051
- Tannenbaum, Allen see Fofas, Ciprian, 91c:93024 and 91f:47102
- Wu, Q. H. (with Mansour, Mohamed) H^∞ -optimal solutions of robust regulator problem for linear MIMO systems. 91f:93081
- Yeh, Hsi-Han see Banda, Siva S.; et al., 91m:93048
- Zames, George (with Mitter, Sanjoy K.) A note on essential spectra and norms of (Hankel*Hankel + Toeplitz) operators. 91e:47027
- Zhou, Kemin see Khargonekar, Pramod P.; et al., 91e:93077

93B40 Computational methods

- Abe, Ken-ichi see Umemo, Takaji; et al., (Not in MR)
- Aliev, Fikret Akhmedali oglu (with Borydyug, B. A.; Larin, V. B.) Factorization of polynomial matrices with respect to the imaginary axis and the unit circle. 91e:93027
- Antonios, G. E. see Mentzelopoulos, S. H.; et al., (Not in MR)
- Antsaklis, Panos J. see Gao, Zhiqiang, 91m:93056
- Balchen, Jens G. Rational transfer function approximations to transport delay. (Not in MR)
- Banks, H. T. (with Ito, Kazufumi) A numerical algorithm for optimal feedback gains in high-dimensional linear quadratic regulator problems. 91m:93055
- Barbot, J.-P. A forward accessibility algorithm for nonlinear discrete time systems. 91g:93015
- Borydyug, B. A. see Aliev, Fikret Akhmedali oglu; et al., 91e:93027
- Canudas de Wit, Carlos (with Carrillo, F. Javier) A modified EW-RLS algorithm for systems with bounded disturbances. (Not in MR)
- Carrillo, F. Javier see Canudas de Wit, Carlos, (Not in MR)
- Chai, Tian You Unification of some MIMO adaptive control algorithms and global convergence analysis. 91g:93016
- Choi, Chiu H. (with Laub, Alan J.) Efficient matrix-valued algorithms for solving stiff Riccati differential equations. 91f:93038
- (with Laub, Alan J.) Constructing Riccati differential equations with known analytic solutions for numerical experiments. (Not in MR)
- Ekalo, Yu. V. see Timofeev, A. V., (Not in MR)
- Emel'yanov, S. V. (with Korovin, S. K.; Levantovskii, L. V.) A new class of second-order sliding algorithms. (Russian. English summary) 91f:93039
- Gajic, Zoran see Shen, Xuebin, 91f:93041
- Gao, Zhiqiang (with Antsaklis, Panos J.) Stability of the pseudo-inverse method for reconfigurable control systems. 91m:93056
- Glentis, G. O. A. see Mentzelopoulos, S. H.; et al., (Not in MR)
- Ikramov, Kh. D. (with Sagitov, M. S.) Factorization of symplectic matrices into a product of elementary matrices. (Russian) (see 91f:65006)
- Ito, Kazufumi see Banks, H. T., 91m:93055
- Kazakov, V. V. see Pavlov, V. V.; et al., (Not in MR)
- Kenney, Charles see Pandey, P.; et al., (Not in MR)
- Kerber, O. B. see Pavlov, V. V.; et al., (Not in MR)
- Korovin, S. K. see Emel'yanov, S. V.; et al., 91f:93039
- Krishchenko, A. P. (with Nazarenko, A. N.) Computational aspects of the differential-geometric approach to problems in the nonlinear theory of control. (Russian) (Not in MR)
- Kruchonok, Yu. L. An algorithm for optimization of a dynamical system with respect to the nonlinear input and the initial conditions. (Russian) 91b:93062
- Larin, V. B. see Aliev, Fikret Akhmedali oglu; et al., 91e:93027
- Laub, Alan J. see Choi, Chiu H., 91f:93038; (Not in MR) and Pandey, P.; et al., (Not in MR)
- Lepachy, Antonio (with Mian, Gian Antonio; Viaro, Umberto) Efficient split algorithms for continuous-time and discrete-time systems. 91f:93047
- Levantovskii, L. V. see Emel'yanov, S. V.; et al., 91f:93039
- Lie, M. A. see Rosen, I. G., 91k:93035
- Malorov, V. A. see Pavlov, V. V.; et al., (Not in MR)
- Mentzelopoulos, S. H. (with Glentis, G. O. A.; Antoniou, G. E.) Transfer function computation of two-dimensional singular systems. (Not in MR)
- Mian, Gian Antonio see Lepachy, Antonio; et al., 91f:93047
- Mikheev, Yu. B. Suboptimal asymptotic algorithms for boundary control of heat conduction processes. (Not in MR)
- Mitra, Pradeep see Patel, R. V., 91m:93057
- Nazarenko, A. N. see Krishchenko, A. P., (Not in MR)
- Odintsova, E. A. see Volosov, V. V., 91m:93058
- Packard, A. see Pandey, P.; et al., (Not in MR)
- Pandey, P. (with Kenney, Charles; Packard, A.; Laub, Alan J.) A gradient method for computing the optimal H_∞ norm. (Not in MR)
- Patel, R. V. (with Mitra, Pradeep) Numerical computation of decentralized fixed modes. 91m:93057
- Pavlov, V. V. (with Kazakov, V. V.; Voronin, A. N.; Kerber, O. B.; Malorov, V. A.) Multicriterial optimization of the quality of processes in a dynamic system. (Not in MR)

- Pimenov, V. G. A problem on modeling control with delay. (Russian) 91f:93040
- Poljakov, N. D. Time-optimality algorithms for searchless adaptation. (Russian) (Not in MR)
- Pujol, Thierry An improved algorithm to solve a discrete matrix Riccati equation. 91e:93028
- Rosen, I. G. (with Lie, M. A.) Computational methods for the solution of infinite-dimensional discrete-time regulator problems with unbounded input. 91k:93035
- Sagaidak, M. I. An algorithm for solving a minimax control problem. (Russian) 91e:93034
- Sagitov, M. S. see Ikramov, Kh. D., (91k:65006)
- Saito, Osami see Umemo, Takaji; et al., (Not in MR)
- Shen, Xuebin (with Gajic, Zoran) Optimal reduced-order solution of the weakly coupled discrete Riccati equation. 91f:93041
- Timofeev, A. V. (with Ekalo, Yu. V.) Methods for the digital adaptive control of complex systems. (Russian) (Not in MR)
- Umemo, Takaji (with Yamashita, Syuichi; Saito, Osami; Abe, Ken-ichi) Symbolic computation application for the design of linear multivariable control systems. (Not in MR)
- Viaro, Umberto see Lepachy, Antonio; et al., 91f:93047
- Volosov, V. V. (with Odintsova, E. A.) Investigation of the convergence of a certain form of state observer algorithms for discrete dynamical systems using Lyapunov functions. 91m:93058
- Voronin, A. N. see Pavlov, V. V.; et al., (Not in MR)
- Wei, Lin Fang (with Yeh, Fang Bo) On dual algebraic Riccati equations. (Not in MR)
- (with Yeh, Fang Bo) A modified Schur method for solving algebraic Riccati equations. (Not in MR)
- Yamashita, Syuichi see Umemo, Takaji; et al., (Not in MR)
- Yang, Zai Shi see Zhong, Wan Xie, (Not in MR)
- Yeh, Fang Bo see Wei, Lin Fang, (Not in MR) and (Not in MR)
- Zhong, Wan Xie (with Yang, Zai Shi) On the computation of the main eigen-pairs of the continuous-time linear quadratic control problem. (Not in MR)

Items with secondary classifications in 93B40

- Adachi, Norihiko see Nishioka, K.; et al., 91m:93066
- Adda, Philippe (with Sallet, Gauthier) Détermination algorithmique de la contrôlabilité pour des familles finies de champs de vecteurs linéaires sur $\mathbb{R}^2 - \{0\}$. (English summary) [A control algorithm for finite families of linear vector fields in $\mathbb{R}^2 - \{0\}$] 91f:93014
- Akian, Marianne Analyse de l'algorithme multigrille FMGH de résolution d'équations d'Hamilton-Jacobi-Bellman. (English summary) [Analysis of the multigrid algorithm FMGH for solving Hamilton-Jacobi-Bellman equations] 91h:65144
- Araki, Mitsuhiro see Hagiwara, Tomomichi; et al., 91j:49048
- Bajic, Vladimir B. Numerical test for semidefiniteness of functional matrices. 91j:15019
- Balakrishnan, Venkataraman see Boyd, Stephen P., 91e:93017
- Banks, S. P. (with Khathur, Saadi A.) Structure and control of piecewise-linear systems. 91c:65047
- Barahona Drognet, Manuel F. An optimal control problem: Euler suboptimality. (Spanish. English summary) (Not in MR)
- Baumeister, J. On the adaptive solution of inconsistent systems of linear equations. 91e:65076
- Beattie, C. A. (with Boisen, M. B., Jr.; Johnson, L. W.) Inertia-preserving secant updates. 91a:90145
- (with Boisen, M. B., Jr.; Johnson, L. W.) Errata corrigé: "Inertia-preserving secant updates" [J. Optim. Theory Appl. 62 (1989), no. 1, 1-16; MR 91a:90145]. (Not in MR)
- Bernusson, Jacques see Garcia, Germain, 91m:93115
- Bily, Barbara Determination of the optimal control for a system of Roesser type. (Polish. English summary) 91f:49038
- Boisen, M. B., Jr. see Beattie, C. A.; et al., 91a:90145 and (Not in MR)
- Boyd, Stephen P. (with Balakrishnan, Venkataraman) A regularity result for the singular values of a transfer matrix and a quadratically convergent algorithm for computing its L_∞ -norm. 91e:93017
- Burgmeier, Peter (with Jahn, K.-U.; Plokhov, A. G.) An interval computational method for approximating controllability sets. (German summary) 91f:93007
- Camacho, E. F. (with Quera, J. M.) Precomputation of generalized predictive self-tuning controllers. (Not in MR)
- Ch'én, Ch'í Chung (with Huang, Ch'í) Convergence analysis of a computational method for optimal control of nonlinear differential-algebraic systems. 91j:49050
- Coleman, Norman P. see Shieh, Leang San; et al., 91g:65097
- Degtyareva, E. V. see Golubev, Yu. F.; et al., (Not in MR)
- Doyle, John C. see Fan, Michael K. H.; et al., 91m:93061
- Fan, Michael K. H. (with Tits, André L.; Doyle, John C.) Robustness in the presence of mixed parametric uncertainty and unmodeled dynamics. 91m:93061
- Flayagina, V. I. Modeling a mobile control in distributed-parameter two-dimensional systems. (Not in MR)
- Fortuna, L. (with Guglielmino, C.; Gallo, Antonio; Nunnari, G.) A method of solving the Lyapunov matrix equation. (Russian and Polish summaries) 91h:93049
- Gabassov, R. F. (with Krakhotko, V. V.) Optimization of dynamical control systems with rapidly changing parameters. (Russian. English summary) 91f:49035
- Gallo, Antonio see Fortuna, L.; et al., 91h:93049
- Gao, Wei Bing see Li, Wen Lin, 91e:93012
- Garcia, Germain (with Bernusson, Jacques) Stabilité et détectabilité quadratiques: lien avec l'approche LQG. (English summary) [Quadratic stabilizability and detectability: relations with the LQG approach] 91m:93115
- Gibson, J. S. (with Jabbari, Faray) A digital input/output model for trace-class systems. 91h:93107
- see also Leal, M. A., (Not in MR)
- Golubev, Yu. F. (with Degtyareva, E. V.; Khairullin, R. Z.) The method of sequential linearization in the problem of search for an optimal step cycle of a walking apparatus. (Not in MR)
- Gregory, John (with Lin, Cantian) Numerical transversality conditions in optimization problems. 91k:49046

- (with Wang, Rong Sheng) Discrete variable methods for the m -dependent variable, nonlinear extremal problem in the calculus of variations. 91j:49047
- Guglielmino, C. *see* Fortuna, L.; et al., 91h:93049
- Gurvits, L. N. A criterion for the convergence of iterations of the discrete Riccati equation to a unique nonnegative-definite solution. (Russian) 91i:47085
- Gusar, V. V. (with Ligan, A. A.) Solving optimal control problems by means of splines. (Russian) *see* 91a:41002
- Hagiwara, Tomomichi (with Saito, Yumi; Araki, Mituhiko) Numerical calculation for discretization of continuous quadratic performance index. 91j:49048
- Hendawy, Z. M. *see* Lin, Jie; et al., 91h:93009
- Hinrichsen, D. (with Pritchard, A. J.; Townley, S. B.) Riccati equation approach to maximizing the complex stability radius by state feedback. 91j:93088
- Horiguchi, Kazumi (with Nishimura, Takuya; Nagata, Akira) A minimal lattice realization for multivariable systems. 91m:93034
- Hu, Bao Sheng *see* Lin, Jie; et al., 91h:93009
- Huang, Ch'i *see* Ch'en, Ch'i Chung, 91j:49050
- Hunt, K. J. (with Šebek, M.) Implied polynomial matrix equations in multivariable stochastic optimal control. 91m:93145
- Jabbari, Faryar *see* Gibson, J. S., 91h:93107
- Jahn, K.-U. *see* Burgmeier, Peter; et al., 91f:93007
- Jódar, Lucas (with Navarro, E.) On the generalized Riccati matrix differential equation. Exact, approximate solutions and error estimate. 91f:34014
- Johnson, L. W. *see* Beattie, C. A.; et al., 91a:90145 and (Not in MR)
- Kalina, A. I. An algorithm for the asymptotic solution of a singularly perturbed linear time-optimality problem. 91h:49044
- Kampowsky, Winfried Zur Approximation von Steuerungsaufgaben mit Evolutionsgleichungen. (English and Russian summaries) [On the approximation of control problems with evolution equations] 91k:49035
- Kappel, Franz (with Salamon, Dietmar) An approximation theorem for the algebraic Riccati equation. 91g:93021
- Kawski, Matthias The complexity of deciding controllability. 91e:93009
- Keis, I. A. A semi-inverse method for the optimal stabilization of the motion of a Hamiltonian system. (Russian. English and Estonian summaries) 91e:93073
- Kenney, Charles (with Laub, Alan J.; Wette, Matt) Error bounds for Newton refinement of solutions to algebraic Riccati equations. 91f:65097
- Khatrullin, R. Z. *see* Gotshev, Yu. F.; et al., (Not in MR)
- Khatir, Saadi A. *see* Banks, S. P., 91c:65047
- Khrstov, Nikolai D. *see* Konstantinov, Mikhail M.; et al., 91m:15021
- Kogan, Jacob Necessary and sufficient conditions for optimality in linear-quadratic problems of optimal control. 91h:49036
- Konstantinov, Mikhail M. (with Petkov, Petko Khr.; Khrstov, Nikolai D.) Perturbation analysis of matrix quadratic equations. 91m:15021
- Kosmidou, O. I. (with Nanos, A.; Papageorgiou, G.) Expected cost design method for a class of systems with model uncertainties. 91h:93070
- Kouvaritakis, B. *see* Rossiter, J. A., (Not in MR)
- Krakhotko, V. V. *see* Gabasov, R. F., 91k:49035
- Larimore, Wallace E. Order-recursive factorization of the pseudoinverse of a covariance matrix. 91k:93026
- Larin, V. B. The generalized Riccati equation, orthogonal projectors, and factorization of matrix polynomials. 91j:93022
- Laub, Alan J. *see* Kenney, Charles; et al., 91f:65097
- Leal, M. A. (with Gibson, J. S.) A first-order Lyapunov robustness method for linear systems with uncertain parameters. (Not in MR)
- Li, Wen Lin (with Gao, Wei Bing) A kind of nonlinear observable system and the design of nonlinear observers. (Chinese. English summary) 91e:93012
- Ligan, A. A. *see* Gusar, V. V., (91a:41002)
- Lin, Canlian *see* Gregory, John, 91k:49046
- Lin, Jie (with Hendawy, Z. M.; Roberts, P. D.; Hu, Bao Sheng) A two-model approach to steady state optimal control of large-scale industrial processes. (Chinese. English summary) 91h:93009
- Mäkinen, Raimo On numerical methods for state constrained optimal shape design problems. 91g:65159
- Mataluka, Josef *see* Neck, Reinhard, 91c:90029
- Moruz, A. I. RELION—time-sub-optimal variable structure control law. (Not in MR)
- Nagata, Akira *see* Horiguchi, Kazumi; et al., 91m:93034
- Nanos, A. *see* Kosmidou, O. I.; et al., 91h:93070
- Navarro, E. *see* Jódar, Lucas, 91f:34014
- Neck, Reinhard (with Mataluka, Josef) Optimal control of dynamic economic models: a comparison of three computer programs. 91c:90029
- Nishimura, Takuya *see* Horiguchi, Kazumi; et al., 91m:93034
- Nishioka, K. (with Adachi, Norihiko; Takeuchi, K.) Simple pivoting algorithm for root-locus method of linear systems with delay. 91m:93066
- Nunnari, G. *see* Fortuna, L.; et al., 91h:93049
- Ohta, Toyomi *see* Shidama, Yasunari; et al., 91a:65163
- Papageorgiou, G. *see* Kosmidou, O. I.; et al., 91h:93070
- Petkov, Petko Khr. *see* Konstantinov, Mikhail M.; et al., 91m:15021
- Piché, Robert Inversion of Laplace transforms using polynomial series. (Not in MR)
- Pinkhov, A. G. *see* Burgmeier, Peter; et al., 91f:93007
- Pontier, Monique Filtrage approché et calcul stochastique non causal. [Approximated filtering and noncausal stochastic calculus] 91m:93132
- Pritchard, A. J. *see* Hinrichsen, D.; et al., 91j:93088
- Quero, J. M. *see* Camacho, E. F., (Not in MR)
- Roberts, P. D. *see* Lin, Jie; et al., 91h:93009
- Rossiter, J. A. (with Kouvaritakis, B.) Causal eigenvector function approximations and the problem of scaling: an algorithm. (Not in MR)
- Saito, Yumi *see* Hagiwara, Tomomichi; et al., 91j:49048
- Salamon, Dietmar *see* Kappel, Franz, 91g:93021
- Sallot, Gauthier *see* Adda, Philippe, 91j:93014
- Šebek, M. *see* Hunt, K. J., 91m:93145
- Sharabaeva, L. Yu. Iterative regularization of the method of successive approximations for an optimal control problem. (Russian) 91c:49054
- Shidama, Yasunari (with Ohta, Toyomi; Yamaura, Hiroo) A simplification of computation for optimal control problems using fixed-point theorem. 91a:65163
- Shieh, Leang San (with Tasi, Jason Sheng Horng; Coleman, Norman P.) Fast and stable algorithms for computing the principal n th root of a complex matrix and their applications to mathematical science and control systems. 91g:65097
- Sidorova, E. V. (with Subbotina, N. N.) An algorithm for calculating the cost function of a linear differential game with a convex pay-off. (Russian) 91i:90097
- Štěpán, Jaromír The uncertainty problem in control theory. II. The internally robust procedures. (Not in MR)
- Subbotina, N. N. *see* Sidorova, E. V., 91i:90097
- Subrahmanyam, M. B. Numerical method for the solution of the singular Riccati matrix. 91c:65052
- Sumenkov, E. A. An algorithm for constructing a minimal set of fundamental conditions in the comparison method. (Russian) 91j:93095
- Takeuchi, K. *see* Nishioka, K.; et al., 91m:93066
- Tits, André L. *see* Fan, Michael K. H.; et al., 91m:93061
- Townley, S. B. *see* Hinrichsen, D.; et al., 91j:93088
- Trzaska, Z. Analysis of second-order multivariable linear systems. 91e:93041
- Tsai, Jason Sheng Horng *see* Shieh, Leang San; et al., 91g:65097
- Vishnevskii, V. E. Padé approximation of Lie transformations in nonlinear response-speed problems. 91m:93037
- Wahlberg, Bo Estimation of autoregressive moving-average models via high-order autoregressive approximations. 91h:62192
- Wang, Rong Sheng *see* Gregory, John, 91j:49047
- Wette, Matt *see* Kenney, Charles; et al., 91f:65097
- Wimmer, Harald K. Normal forms of symplectic pencils and the discrete-time algebraic Riccati equation. 91k:15033
- Yamaura, Hiroo *see* Shidama, Yasunari; et al., 91a:65163
- Young, Nicholas J. A polynomial method for the singular value decomposition of block Hankel operators. 91c:93027
- Zheng, Yu Fan A recursive algorithm for linearization of nonlinear control systems with multi-inputs. (Chinese. English summary) (Not in MR)
- Zubov, N. E. Relay control based on Pontryagin's maximum principle and on a forecasting-model control algorithm. (Not in MR)

93B50 Synthesis problems

- Abgaryan, K. A. Solution of problems of the control of time-dependent automatic control systems by the diagonalization of the matrix of the linear part of a system of equations of motion. 91j:93037
- Ali, Wahied G. *see* Aly, Gamal M., (Not in MR)
- Aly, Gamal M. (with Ali, Wahied G.) Digital design of variable structure control systems. (Not in MR)
- Amin, M. H. Parametrization of minimum-time output deadbeat controllers for all classes of invertible systems. (Not in MR)
- Ando, Yoshinori *see* Murata, Satoshi; et al., 91d:93033
- Andriani, Dominick, II *see* Gleason, Daniel, (Not in MR)
- Anisovich, V. V. Design of an optimal control in a nonlinear minimax problem. 91i:93048
- Asano, Takao (with Yoshikawa, Kazuhiro; Suzuki, Shigemichi) The design of a precompensator for multivariable adaptive control—a network theoretic approach. (Not in MR)
- Athans, Michael *see* Shamma, Jeff S., (Not in MR)
- Barabanov, A. E. Optimal minimax control of linear dynamical objects. (Russian) 91d:93030
- Belozorov, V. E. The problem of synthesizing a static output feedback for linear automatic control systems. (Not in MR)
- Benchoubane, H. *see* Stoten, D. P., (Not in MR)
- Blagodarnyi, N. S. *see* Vtsov, V. B., (Not in MR)
- Blanchini, Franco Control synthesis for discrete time systems with control and state bounds in the presence of disturbances. (Not in MR)
- Boekhoudt, Piet Homotopy solution of polynomial equations in H_∞ optimal control. 91h:93063
- Brdyś, M. A. (with Ulanicki, B.) Separation principle in optimizing control of state-constrained dynamical systems under bounded uncertainty. 91h:93029
- Burkov, V. N. (with Filippov, V. P.) Design of coordinated mechanisms for discrete models of active systems. 91i:93049
- Byrnes, Christopher I. (with Isidori, Alberto) Feedback design from the zero dynamics point of view. 91c:93035
- *see also* Isidori, Alberto; et al., (91f:93002)
- Carralho Minhoto Teixeira, Marcelo Control of uncertain dynamical systems using strictly positive real systems. 91j:93038
- Champetier, Calixte (with Magni, Jean-François) Analysis and synthesis of modal control laws. 91d:93031
- Chiang, Dalen T. *see* Gao, Xian Lin; et al., 91h:93067
- Chida, Yuichi *see* Mita, Tsutomu; et al., (Not in MR)
- Chow, Joe H. (with Hanley, Charles J.) Singular perturbation analysis of high-frequency filter design. (Not in MR)
- Clements, D. J. *see* Goh, C. J.; et al., 91h:93068
- Colaneri, Patrizio Zero-error regulation of discrete-time linear periodic systems. (Not in MR)
- Commault, C. (with Dion, Jean Michel; Perez, Albert) Rejet de perturbation dans les systèmes structurés. (English summary) [Disturbance rejection in structured systems] *see* 91f:93002
- Coste, Giuseppe (with Perdon, A.-M.) Zeros, poles and modules in linear system theory. 91h:93064
- Cre Granito, José A. (with Hedrick, J. Karl) MIMO servo design by the split control method. (Not in MR)
- Dahleh, Mohammed A. (with Dahleh, Munther A.) Optimal rejection of persistent and bounded disturbances: continuity properties and adaptation. (Not in MR)

- Dahleh, Munther A. *see* Dahleh, Mohammed A., (Not in MR)
- Darwish, M. G. *see* Shén, Chin Chung, (Not in MR)
- Descusse, J. The block essential orders and the dynamic block decoupling problem. 91b:93065
- Dion, Jean Michel *see* Commault, C.; et al., (91f:93002)
- Eisaka, Toshio *see* Zhong, Yi Sheng; et al., (Not in MR)
- Enaleev, A. K. (with Lavrov, Yu. G.) Optimal stimulation in an active system with a stochastic element. 91m:93059
- Fayaz, M. A. (with Lamnabhi-Lagarigue, Françoise) On singular output tracking in multivariable nonlinear systems. 91g:93017
- Ferreira, P. M. G. On the decoupling problem. 91f:93042
- Filippov, V. P. *see* Burkov, V. N., 91b:93049
- Finis, G. S. An analytic method for the design of optimal controllers for quasilinear systems of differential equations. (Russian) 91b:93066
- Foo, Y. K. Optimum synthesis of control systems for magnitude-bounded errors. 91c:93036
- Freudenberg, James S. *see* Zhang, Zhihong, (Not in MR)
- Gaiduk, A. R. Choice of feedbacks in a control system of minimal complexity. 91c:93029
- Gao, Xian Lin (with Zhang, Yong Chuan; Chiang, Dalen T.) MRAS robust variable-structure control subject to constrained rate of change of control inputs. (Chinese. English summary) 91b:93067
- Gasanov, Z. M. (with Serdyuk, M. E.) A problem of designing optimal impulse control with incomplete measurements. (Russian) (see 91b:00029)
- Gleason, Daniel (with Andrisani, Dominick, II) Observer design for discrete systems with unknown exogenous inputs. (Not in MR)
- Goh, C. J. (with Lim, Cheng-Chew; Teo, Kok Lay; Clements, D. J.) Robust controller design for systems with interval parameter design. (Russian summary) 91b:93068
- Gostev, V. I. (with Polivanov, V. I.) Parametric synthesis of digital regulators in discrete-continuous systems by the numerical method of unconditional optimization. (Not in MR)
- Grishin, S. A. Synthesizing multidimensional control systems with specified dynamics. (Not in MR)
- Grujić, Ljubomir T. Tracking versus stability: theory (tutorial paper). 91b:93030
- Ha, In Joong New matching conditions for output regulation of a class of uncertain nonlinear systems. 91a:93025
- Hanley, Charles J. *see* Chow, Joe H., (Not in MR)
- Hanzon, B. ★ Identifiability, recursive identification and spaces of linear dynamical systems. Part I. 91j:93039a
- ★ Identifiability, recursive identification and spaces of linear dynamical systems. Part II. 91j:93039b
- Hedrick, J. Karl *see* Cro Granito, José A., (Not in MR)
- Helton, J. William (with Marshall, Donald E.) Frequency domain design and analytic selections. 91d:93032
- Ho, Chen Ping *see* Wang, Feng Sheng, (Not in MR)
- Hope, G. S. *see* Ye, Lu Qing; et al., (Not in MR)
- Hou, Ming On a decoupled multitarget tracking algorithm. (Not in MR)
- Hsiao, Feng Hsiang *see* Hsieh, Jer-Guang, 91g:93018
- Hsieh, Jer-Guang (with Hsiao, Feng Hsiang) Multi-objective controller design for discrete stochastic optimal systems with nonlinear time-varying unmodelled dynamics and noise spectral uncertainties. 91g:93018
- *see also* Su, Juhng Perng, (Not in MR)
- Hu, Ting Shu (with Shi, Song Jiao; Zhang, Zhong Jun) The H^∞ -design method for multivariable systems. (Chinese. English summary) (Not in MR)
- Hvostov, Harry S. Simplifying H_∞ controller synthesis via classical feedback system structure. (Not in MR)
- Hwang, Yea Cheng *see* Wang, Te Shing; et al., (Not in MR)
- Ichikawa, Akira Optimal overtaking control for linear time-varying systems. 91c:93037
- İftar, Altug Optimal solution to the servomechanism problem for systems with stochastic and deterministic disturbances. 91b:93031
- Isidori, Alberto (with Kokotović, P. V.; Sastry, S. Shankar; Byrnes, Christopher I.) The analysis of singularly perturbed zero dynamics. (see 91f:93002)
- *see also* Byrnes, Christopher I., 91c:93035
- Izomir, D. B. (with Skorpod, S. V.) Digital control of the electric drive of a robot using sliding modes. (Not in MR)
- Jabbari, Faryar (with Schmitendorf, W. E.) A noniterative method for the design of linear robust controllers. (Not in MR)
- Jedryka, Tadeusz Marian Applications of Musielak-Orlicz spaces in modern control systems. (see 91e:46004)
- Kaku, Yasuhiko *see* Mita, Tsutomu; et al., (Not in MR)
- Kanellakopoulos, I. *see* Marino, Riccardo; et al., 91a:93026
- Kase, Wataru (with Tamura, Katsutoshi) Design of G -interactor and its application to direct multivariable adaptive control. (Not in MR)
- Keis, I. A. Synthesis of a control, suboptimal with respect to a volume criterion, of a multidimensional system by the linear aggregation method. (Russian. English and Estonian summaries) (Not in MR)
- Khaki-Sedigh, A. *see* Porter, Brian, (Not in MR)
- Kim, Handol *see* Kwatny, Harry G., 91f:93043
- Kirla, N. E. An optimal damping method in control problems with incomplete feedback. (see 91e:00013)
- Kiseler, Yu. N. On the analytic construction of controllers and A. A. Krasovskii's approach to the synthesis of optimal controls. 91b:93032
- Optimal design in a smooth linear time-optimality problem. 91b:93069
- Kneiler, D. V. (with Kubyshkin, V. A.) Construction of phase portraits of dynamical systems that are nonlinear with respect to control. (Russian) (Not in MR)
- Kochetkov, Yu. A. Optimal control of deterministic nonlinear automatic systems. The method of invariant embedding. (Not in MR)
- Kokotović, P. V. *see* Marino, Riccardo; et al., 91f:93026 and Isidori, Alberto; et al., (91f:93002)
- Koloso, G. E. (with Livanov, K. K.) Quality analysis of a quasi-optimal control algorithm. (Russian) 91m:93060a
- *see also* Krasovskii, A. A., 91m:93060b
- Kosmidou, O. I. (with Nanos, A.; Papageorgiou, G.) Expected cost design method for a class of systems with model uncertainties. 91b:93070
- Kotta, Ülle Design of nonlinear systems with discrete time that are invariant with respect to perturbations. (Not in MR)
- Krasovskii, A. A. On the paper "Quality analysis of a quasi-optimal control algorithm" [Avtomat. i Telemekh. 1990, no. 9, 179–181; MR xxx:yyyyy] by G. E. Kolosov and K. K. Livanov. (Russian) 91m:93060b
- Kru'ko, P. D. Control algorithms for elastic electromechanical systems. (Not in MR)
- Kubyshkin, V. A. *see* Kneiler, D. V., (Not in MR)
- Kudin, V. F. Analytic construction of nonlinear digital regulators on the basis of a quadratic functional. (Russian) (Not in MR)
- K'ung, Fan Chü *see* Shén, Chin Chung, (Not in MR)
- Kwatny, Harry G. (with Kim, Handol) Variable structure regulation of partially linearizable dynamics. 91f:93043
- Lamnabhi-Lagarigue, Françoise *see* Fayaz, M. A., 91g:93017
- Lavrov, Yu. G. *see* Enaleev, A. K., 91m:93059
- Lim, Cheng-Chew *see* Goh, C. J.; et al., 91b:93068
- Livanov, K. K. *see* Kolosov, G. E., 91m:93060a and Krasovskii, A. A., 91m:93060b
- Magné, Jean-François *see* Champetier, Calixte, 91d:93031
- Maliboroda, L. A. (with Manullov, Yu. S.) Design of a control in the case of complexification of regulating elements with a discontinuous functional. (Russian) (see 91k:93004)
- Malik, O. P. *see* Ye, Lu Qing; et al., (Not in MR)
- Manullov, Yu. S. *see* Maliboroda, L. A., (91k:93004)
- Marino, Riccardo (with Kanellakopoulos, I.; Kokotović, P. V.) Adaptive tracking for feedback linearizable SISO systems. 91a:93026
- Marshall, Donald E. *see* Helton, J. William, 91d:93032
- Martynenko, V. V. On the theory of the synthesis of a nonlinear controller. 91i:93050
- Meilakhs, A. M. A problem on the generalized design of stable nonlinear systems. (Russian) (Not in MR)
- Mita, Tsutomu (with Chida, Yuichi; Kaku, Yasuhiko; Numasato, Hidehiko) Two-delay robust digital control and its applications—avoiding the problem on unstable limiting zeros. (Not in MR)
- Morez, A. I. RELION—time-sub-optimal variable structure control law. (Not in MR)
- Murata, Satoshi (with Ando, Yoshinori; Suzuki, Masayuki) Design of a high gain regulator by the multiple time scale approach. 91d:93033
- Nanos, A. *see* Kosmidou, O. I.; et al., 91b:93070
- Neldus, E. Design of a nonlinear model matching controller. (Not in MR)
- Novitskii, V. V. A linear inverse problem of the design of an optimal control. (Russian) 91b:93071
- Numasato, Hidehiko *see* Mita, Tsutomu; et al., (Not in MR)
- Ostor, Yu. Ya. A method for the synthesis of the control of the motion of an object on the basis of a simplified model. (Russian) (see 91e:00013)
- Papageorgiou, G. *see* Kosmidou, O. I.; et al., 91b:93070
- Perdon, A.-M. *see* Conte, Giuseppe, 91b:93064
- Perevoshchikov, A. G. Design of a dynamical system as a problem of controlling a system with distributed parameters. (Not in MR)
- Minimax methods for designing dynamical systems. (Russian. English summary) 91b:93033
- (with Snaksarev, A. M.) Optimization of search trees in problems of structural synthesis of complex technical systems. (Not in MR)
- Lower bounds on a criterion in problems on the design of robots. (Russian) (Not in MR)
- Perez, Albert *see* Commault, C.; et al., (91f:93002)
- Polivanov, V. I. *see* Gostev, V. I., (Not in MR)
- Popchev, I. P. (with Tsoneva, R. G.) Synthesis of two-layer proportional-integer control of interconnected systems with delays. (Bulgarian. English and Russian summaries) (Not in MR)
- Popescu, Dumitru Real time control with gradient systems. (Romanian summary) (Not in MR)
- Popkov, A. V. Design of a system for controlling an object with delay on the basis of methods of modal control. (Russian) (see 91i:90004)
- Porter, Brian (with Khaki-Sedigh, A.) Design of tunable digital set-point tracking controllers for linear multivariable type-one plants. (Not in MR)
- Sastry, S. Shankar *see* Isidori, Alberto; et al., (91f:93002)
- Schiavoni, Nicola Further results on the design of multivariable regulators under structure and robustness constraints. (Not in MR)
- Schmitendorf, W. E. *see* Jabbari, Faryar, (Not in MR)
- Sebakhy, O. A. State-space design of ripple-free deadbeat multivariable systems. 91b:93072
- Sebryakov, G. G. (with Semenov, A. V.) Design of linear stationary multidimensional systems based on input-output mapping. Methods of H^∞ -theory control (a survey). 91b:93073
- Semenov, A. V. *see* Sebryakov, G. G., 91b:93073
- Serdyuk, M. E. *see* Gasanov, Z. M., (91b:00029)
- Shamma, Jeff S. (with Athans, Michael) Analysis of gain scheduled control for nonlinear plants. (Not in MR)
- Shén, Chin Chung (with K'ung, Fan Chü) Comments on: "Design of decentralized reliable controllers for large-scale systems" [Internat. J. Systems Sci. 19 (1988), no. 8, 1529–1538] by M. G. Darwish and H. M. Soliman. (Not in MR)
- Shi, Song Jiao *see* Hu, Ting Shu; et al., (Not in MR)
- Singh, Sahjendra N. Ultimate boundedness control of uncertain systems with application to roll coupled aircraft maneuver. 91a:93027
- Skorpod, S. V. *see* Izomir, D. B., (Not in MR)
- Snaksarev, A. M. *see* Perevoshchikov, A. G., (Not in MR)
- (Soliman, H. M.) *see* Shén, Chin Chung, (Not in MR)
- Solnechnyi, É. M. Problems on the design of dynamical control systems that satisfy prescribed constraints on the process state. (Not in MR)
- Stenby, J. *see* Walgama, K. S., (Not in MR)
- Stoen, D. P. (with Benchoubane, H.) Robustness of a minimal controller synthesis algorithm. (Not in MR)
- Su, Juhng Perng (with Hsieh, Jer-Guang) Composite feedback control for a class of nonlinear singularly perturbed systems with fast actuators. (Not in MR)

- Suhrahmanyam, M. B. Synthesis of finite-interval H_∞ controllers by state-space methods. (Not in MR)
- Sussmann, Héctor J. Synthesis, presynthesis, sufficient conditions for optimality and subanalytic sets. 91c:93038
- Suzuki, Masayuki. *see* Murata, Satoshi; et al., 91d:93033
- Suzuki, Shigemichi. *see* Asano, Takao; et al., (Not in MR)
- Tadmor, Gilad. Worst-case design in the time domain: the maximum principle and the standard H_∞ problem. 91i:93051
- Tagawa, Ryoaburo. *see* Zhong, Yi Sheng; et al., (Not in MR)
- Tamura, Katsutoshi. *see* Kase, Wataru, (Not in MR)
- Teo, Kok Lay. *see* Goh, C. J.; et al., 91b:93068
- Tsai, Te Ping. *see* Wang, Te Shing; et al., (Not in MR)
- Tsonera, R. G. *see* Popchev, I. P., (Not in MR)
- Ulanicki, B. *see* Brdyś, M. A., 91h:93029
- Vitov, V. B. (with Blagodarny, N. S.) Design of a linear control law for automatic systems with a nonlinearity in using a criterion of absolute stability. (Russian) (Not in MR)
- Walgama, K. S. (with Sternby, J.) Inherent observer property in a class of anti-windup compensators. (Not in MR)
- Wang, Ding Wei. A digraph solution to the most economical structural synthesis of linear systems. (Chinese. English summary) 91b:93074
- Wang, Feng Sheng (with Ho, Chen Ping) Multivariable controller design based on shrinking process poles. (Not in MR)
- Wang, Te Shing (with Hwang, Yea Cheng; Tsai, Te Ping) Synthesis of feedback control systems with large plant uncertainty and time-varying gain. (Not in MR)
- Wei, Shou Ping. *see* Ye, La Qing; et al., (Not in MR)
- Xu, Hai Bo. *see* Ye, La Qing; et al., (Not in MR)
- Yanushkevich, R. T. Parametric feedback improving control systems efficiency. (Not in MR)
- Yatsenko, V. A. Symbolic-algebraic methods for the analysis of nonlinear and bilinear models of ergative control systems. (Russian) (Not in MR)
- Ye, La Qing (with Wei, Shou Ping; Xu, Hai Bo; Malik, O. P.; Hope, G. S.) Variable-structure and variable parameter control for hydroelectric generating units. (Chinese. English summary) (Not in MR)
- Yoshikawa, Kazuhiko. *see* Asano, Takao; et al., (Not in MR)
- Zhang, Yong Chuan. *see* Gao, Xian Lin; et al., 91b:93067
- Zhang, Zhihong (with Freudenberg, James S.) Loop transfer recovery for nonminimum phase plants. (Not in MR)
- Zhang, Zhong Jun. *see* Hu, Ting Shu; et al., (Not in MR)
- Zhong, Yi Sheng (with Tagawa, Ryoaburo; Eisaka, Toshio) Robust model matching design method which ensures stability. (Not in MR)
- Items with secondary classifications in 93B50**
- Anderson, Brian D. O. *see* Yan, Wei Yong; et al., (Not in MR)
- Ando, Tsuyoshi (with Bunce, J.; Trapp, G. E.) An alternate variational characterization of matrix Riccati equation solutions. 91c:15007
- Anisovich, V. V. Synthesis of an optimal control in a minimax problem of optimizing nonlinear almost-periodic oscillation processes. (Russian. English summary) 91d:49010
- Banaszuk, Andrzej (with Kociński, Maciej; Przytycki, K. M.) The disturbance decoupling problem for implicit linear discrete-time systems. 91h:93045
- Battista, Léo (with del Picchia, Walter) A novel root locus calibrated in real gain in the inverse s plane. (Not in MR)
- Bhattacharyya, Shankar Prasad. *see* Keel, L. H., 91c:93066
- Bitensand, Robert R. *see* Yan, Wei Yong; et al., (Not in MR)
- Bodyanski, E. V. (with Pitas, I. P.) Solution of a problem of controlling a matrix object under conditions of uncertainty. (Russian) (Not in MR)
- Boekhoudt, Piet. Solution of polynomial equations in J_∞ optimal control. 91j:93034
- Borison, V. F. *see* Zelikin, M. L., 91f:49004
- Brykalov, S. A. Stationary temperature distributions in systems with continuous feedback and control. (Not in MR)
- Bunce, J. *see* Ando, Tsuyoshi; et al., 91c:15007
- Byrnes, Christopher I. (with Isidori, Alberto) Steady state response, separation principle and the output regulation of nonlinear systems. 91b:93083
- *see also* Isidori, Alberto, 91c:93044
- Chiang, Chang-Cheng. Adaptive control with optimal robust tracking. (Not in MR)
- Corless, M. Guaranteed rates of exponential convergence for uncertain systems. 91c:93032
- Danev, A. V. *see* Panchenkov, A. N.; et al., 91h:93003
- Detistov, V. A. (with Taran, V. N.) Design of an optimal control by the gradient method based on a prediction model. 91h:49039
- Ervin, A. Yu. *see* Shtessel, Yu. B., (Not in MR)
- Fedorov, Vyacheslav Vasil'evich. *see* Vyazgin, V. A., 91h:90113
- Fedorov, E. A. (with Insarov, V. V.; Selivokhin, O. S.) ★ Системы управления конечным положением в условиях противодействия среды. (Russian) [Systems for controlling terminal position under conditions of counteraction of the environment] 91g:93001
- Fomenko, A. V. Synthesis of an optimal control using a parametric field and Taylor mappings. 91h:49040
- Glover, Keith. *see* McFarlane, D. C., 91b:93063 and Moore, John Barratt; et al., 91b:93144
- Gras, L. C. J. M. (with Nijmeijer, Henk) Decoupling in nonlinear systems: from linearity to nonlinearity. (Not in MR)
- Grimble, Michael J. Design procedure for combined H_∞ and LQG cost problem. 91h:93058
- Harcant, Jean-Philippe. Nonlinear control of missiles through a geometric approach. (see 91f:93002)
- Higuchi, Tatsuo. *see* Iwatsuki, Masami, 91b:93054
- Insarov, V. V. *see* Fedorov, E. A.; et al., 91g:93001
- Ioannou, Petros A. (with Sung, Jing) Robust adaptive control: a unified approach. 91h:93097
- Isidori, Alberto (with Byrnes, Christopher I.) Output regulation of nonlinear systems. 91c:93044
- *see also* Byrnes, Christopher I., 91b:93083
- Iwatsuki, Masami (with Higuchi, Tatsuo) Synthesis of minimum statistical sensitivity structures with fewer parameters in state-space systems. 91b:93054
- Keel, L. H. (with Bhattacharyya, Shankar Prasad) A matrix equation approach to the design of low-order regulators. 91c:93066
- Kels, I. A. ★ Агрегирование в субоптимальном синтезе многомерных систем. (Russian) [Aggregation in the suboptimal design of multidimensional systems] 91b:93011
- Kherassi, K. Corrigendum: "Robust stabilization of nonlinear systems with unmodelled dynamics" [Internat. J. Control 50 (1989), no. 3, 827–844; MR 90i:93112]. 91d:93054
- Klimchuk, S. S. *see* Plotnikov, V. A., 91h:49006
- Kociński, Maciej. *see* Banaszuk, Andrzej; et al., 91h:93045
- Lee, E. Bruce (with You, Yun Cheng) Quadratic optimization for infinite-dimensional linear differential difference type systems: syntheses via the Fredholm equation. 91a:49014
- Leonides, Cornelius T. *see* Wang, Dan Chung, 91b:93084
- Lewis, F. L. Computational geometry for design in singular systems. (see 91e:00029)
- Geometric design techniques for observers in singular systems. (Not in MR)
- Liu, Shu Zhen. *see* Wang, Zi Cai; et al., (Not in MR)
- Liu, Yong Tan (with Quan, Tai Fan) A method for improving the number of tracking targets. (Chinese. English summary) (Not in MR)
- Lychak, M. M. Digital control of distributed-parameter objects. 91f:93060
- MacLeod, I. M. *see* Wigdorewicz, B., (Not in MR)
- Mamayev, Dzha. Optimal stabilization of a nonlinear system in a Banach space. (Russian) 91a:49014
- McFarlane, D. C. (with Glover, Keith) ★ Robust controller design using normalized coprime factor plant descriptions. 91b:93003
- Milman, Mark H. (with Scheid, Robert E.) Factorization and the synthesis of optimal feedback gains for distributed parameter systems. 91i:93033
- Mohamed, Adel Samy. *see* Ragab, M. Z., 91d:49032
- Moore, John Barratt (with Glover, Keith; Telford, Andrew) All stabilizing controllers as frequency-shaped state estimate feedback. 91h:93144
- Morris, K. A. Robustness of controllers designed using Galerkin type approximations. 91a:49018
- Neshcheret, V. I. *see* Panchenkov, A. N.; et al., 91h:93003
- Ni, Mao Lin. *see* Wang, Zi Cai; et al., (Not in MR)
- Nijmeijer, Henk. *see* Gras, L. C. J. M., (Not in MR)
- Omorov, R. O. *see* Ushakov, A. V., 91h:93021
- Panchenkov, A. N. (with Ruzhnikov, G. M.; Danev, A. V.; Sigalov, G. F.; Neshcheret, V. I.; Zabolonova, N. A.) ★ Асимптотические методы в задачах оптимального проектирования и управления движением. (Russian) [Asymptotic methods in problems of the optimal design and control of motion] 91h:93003
- del Picchia, Walter. *see* Battista, Léo, (Not in MR)
- Pimenovskii, A. B. Controlled partially observable model with periodic characteristics. 91h:93183
- Pitas, I. P. *see* Bodyanski, E. V., (Not in MR)
- Plotnikov, V. A. (with Klimchuk, S. S.) Averaging of sliding mode equations in control problems. (Russian) 91h:49006
- Pronzato, L. *see* Walter, Eric, (Not in MR)
- Przytycki, K. M. *see* Banaszuk, Andrzej; et al., 91h:93045
- Quan, Tai Fan. *see* Liu, Yong Tan, (Not in MR)
- Radielskii, A. E. Analytic construction of optimal controllers. (Russian) 91j:49053
- Ragab, M. Z. (with Mohamed, Adel Samy) Linear decoupling control system with quadratic criteria. 91d:49032
- Ruzhnikov, G. M. *see* Panchenkov, A. N.; et al., 91h:93003
- Scheid, Robert E. *see* Milman, Mark H., 91i:93033
- Selivokhin, O. S. *see* Fedorov, E. A.; et al., 91g:93001
- Shtessel, Yu. B. (with Ervin, A. Yu.) Invariant control of the output of nonlinear systems. (Not in MR)
- Shubladze, A. M. Procedure for computing optimal stability proportional controls. I. 91m:93109
- Sigalov, G. F. *see* Panchenkov, A. N.; et al., 91h:93003
- Sira-Ramirez, Hebert. Design of P-I controllers for DC-to-DC power supplies via extended linearization. (Not in MR)
- Skvortsov, L. M. Input-output representation of a closed multidimensional control system. (Not in MR)
- Smith, Malcolm C. Well-posedness of H^∞ optimal control problems. 91a:93024
- Sokolov, B. N. (with Turova, V. L.) ★ Оптимальное управление маятником в условиях неопределенных помех. (Russian) [Optimal control of a pendulum under conditions of indeterminate noise] 91a:70036
- Stoorvogel, Antonio Arij. ★ The H_∞ control problem: a state space approach. 91m:93053
- Sung, Jing. *see* Ioannou, Petros A., 91h:93097
- Taran, V. N. *see* Detistov, V. A., 91h:49039
- Telford, Andrew. *see* Moore, John Barratt; et al., 91h:93144
- Tiba, Dan. Une approche par contrôlabilité frontière dans les problèmes de design optimal. (English summary) [A boundary controllability approach in optimal design problems] 91d:35027
- Trapp, G. E. *see* Ando, Tsuyoshi; et al., 91c:15007
- Tsinias, John. Further results on the observer design problem. 91c:93011
- A correction note on the paper: "Further results on the observer design problem" [Systems Control Lett. 14 (1990), no. 5, 411–418; MR 91c:93011]. 91j:93015
- Turova, V. L. *see* Sokolov, B. N., 91a:70036
- Ushakov, A. V. (with Omorov, R. O.) Design of controllers for modal-robust automatic control systems. (Russian) 91h:93021
- Vyazgin, V. A. (with Fedorov, Vyacheslav Vasil'evich) ★ Математические методы автоматизированного проектирования. (Russian) [Mathematical methods for automated design] 91h:90113
- Walter, Eric (with Pronzato, L.) Qualitative and quantitative experiment design for phenomenological models—a survey. (Not in MR)
- Wang, Dan Chung (with Leonides, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. I, II. 91b:93084
- Wang, Zi Cai (with Ni, Mao Lin; Liu, Shu Zhen) Design of a control system with integrity and excellent dynamical characteristics. (Chinese. English summary) (Not in MR)
- Wigdorewicz, B. (with MacLeod, I. M.) Application of equilibrium surface modelling

- methodology in designing a controller for a van der Pol oscillator. (Not in MR)
- Wittenmark, Björn Adaptive stability augmentation. (Not in MR)
- Yan, Wei Yong (with Bitmead, Robert R.; Anderson, Brian D. O.) Design problems for sensitivity and complementary sensitivity. (Not in MR)
- Yastrebov, A. I. Control when estimating parameters of multiply connected stochastic systems. (Russian) 91g:93036
- You, Yun Cheng see Lee, E. Bruce, 91a:49014
- Zabolonova, N. A. see Panchenkov, A. N.; et al., 91k:93003
- Zelikin, M. I. (with Borisov, V. F.) Synthesis in problems of optimal control containing a trajectory with switchings whose frequency increases, and second-order singular trajectories. 91f:49004
- Zhou, Mei Ke Feedback synthesis for free boundary problems. 91k:35219

93B51 Design techniques (robust design, computer-aided design, etc.)

- Apostolakis, Ioannis S. (with Jordan, David) A time invariant approach to multirate optimal regulator design. (Not in MR)
- Blanchini, Franco Feedback control for linear time-invariant systems with state and control bounds in the presence of disturbances. (Not in MR)
- Borisov, V. G. (with Diligenskii, S. N.; Efremov, A. Yu.) Design of invariant control systems on the basis of eigenstructures. 91j:93040
- Burkin, I. M. (with Burkina, L. I.) Frequency criteria for the oscillation of systems that are not dissipative. (Russian) (see 91k:93005)
- Burkina, L. I. see Burkin, I. M., 91k:93005
- Chang, Che Hsu see Tao, Chang Shing; et al., (Not in MR)
- Chang, Fan Jen see Fang, Chin Hsiung, 91k:93036
- Chang, Po Rong Computer-aided-design tool for simplification of robot dynamic model based on manipulator system performance. (Not in MR)
- Diligenskii, S. N. see Borisov, V. G.; et al., 91j:93040
- Doyle, John C. see Fan, Michael K. H.; et al., 91m:93061
- Efremov, A. Yu. see Borisov, V. G.; et al., 91j:93040
- Fan, Michael K. H. (with Tits, André L.; Doyle, John C.) Robustness in the presence of mixed parametric uncertainty and unmodeled dynamics. 91m:93061
- Fang, Chin Hsiung (with Chang, Fan Jen) Calculation of solutions to polynomial matrix identities via eigenvalue-assignment techniques. 91k:93036
- Ganesan, Sekar (with Shieh, Leang San; Mehio, Mohamad M.) Sequential design of linear quadratic state regulators with prescribed eigenvalues and specified relative stability. 91i:93052
- Guan, Ying Nan see He, Qing Hua, (Not in MR)
- Han, Kuang Wei see Tao, Chang Shing; et al., (Not in MR)
- He, Qing Hua (with Guan, Ying Nan) A note on D -optimality of simplex-centroid designs of degree 3. (Chinese. English summary) (Not in MR)
- Hsieh, Tung Fu see Lin, Ching An, (Not in MR)
- Hu, H. X. (with Loh, Nan K.) Robust optimal parametric LQ control with a guaranteed cost bound and applications. 91g:93019
- Huang, Chih Liang (with Lai, Kuang Chê) Minimax model reference adaptive control for a plant subject to unmodeled dynamics. (Chinese summary) (Not in MR)
- Jordan, David see Apostolakis, Ioannis S., (Not in MR)
- Kabamba, Pierre T. (with Yang, Chang) Simultaneous controller design for linear time-invariant systems. (Not in MR)
- Krener, Arthur J. Nonlinear controller design via approximate normal forms. 91d:93034
- Kuo, Tê Shêng see Wang, Shêng Tê, 91g:93020
- Lai, Kuang Chê see Huang, Chih Liang, (Not in MR)
- Lin, Ching An (with Hsieh, Tung Fu) Decoupling controller design for linear multivariable plants. (Not in MR)
- Loh, Nan K. see Hu, H. X., 91g:93019
- Mehio, Mohamad M. see Ganesan, Sekar; et al., 91i:93052
- Ragab, M. Z. A quadratic optimal synthesis problem with failure control. (Arabic summary) 91m:93062
- Ray, Laura R. see Stengel, Robert F., (Not in MR)
- Ruan, Rong Yao see Zhao, Zhong Yun, (Not in MR)
- Shieh, Leang San see Ganesan, Sekar; et al., 91i:93052
- Spurgeon, S. K. Choice of discontinuous control component for robust sliding mode performance. (Not in MR)
- Steigenberger, J. On feedback equivalence of general and affine Hamiltonian control systems. 91j:93041
- Stengel, Robert F. (with Ray, Laura R.) Stochastic robustness of linear time-invariant control systems. (Not in MR)
- Tao, Chang Shing (with Chang, Che Hsu; Han, Kuang Wei) Gain margins and phase margins for multivariable control systems with adjustable parameters. (Not in MR)
- Tits, André L. see Fan, Michael K. H.; et al., 91m:93061
- Wang, Shêng Tê (with Kuo, Tê Shêng) Design of robust linear state feedback laws: ellipsoidal set-theoretic approach. 91g:93020
- Yang, Chang see Kabamba, Pierre T., (Not in MR)
- Zhang, Qing Ling Infinite fixed modes in general dynamical systems. (Chinese. English summary) (Not in MR)
- Zhao, Zhong Yun (with Ruan, Rong Yao) A kind of design methods for model reference adaptive control systems. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 93B51

- Aksev, A. B. Analytic design of control systems for dynamic objects taking into account constraints on the phase coordinates. (Russian) 91m:49037
- Anderson, Brian D. O. see Er, Meng-Joo, 91m:93117
- Antsaklis, Panos J. see González, O. R., 91m:93029
- Chojnowski, Fabien see Gutman, Shaul, 91m:93101
- Darkhovskii, B. S. (with Magaril-Ilyayev, G. G.) Design of stabilization systems. 91m:93099
- (Davis, Mark H. A.) see Applied stochastic analysis, 91m:93003

- Dawson, Darren M. (with Qu, Zhihua; Lewis, F. L.; Dorsey, John F.) Robust control for the tracking of robot motion. 91e:70076
- Dorsey, John F. see Dawson, Darren M.; et al., 91e:70076
- (Elliott, Robert James) see Applied stochastic analysis, 91m:93003
- Emel'yanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Asymptotic observers for a class of nonlinear dynamical objects. 91m:93024
- Er, Meng-Joo (with Anderson, Brian D. O.) Practical issues in multirate output controllers. 91m:93117
- González, O. R. (with Antsaklis, Panos J.) Internal models in regulation, stabilization, and tracking. 91m:93029
- Grimble, Michael J. Relationship between the trace and maximum eigenvalue norms for linear quadratic control design. 91k:93057
- Gutman, Shaul (with Chojnowski, Fabien) Fixed and minimal order compensators. 91m:93101
- Huang, Ch'í (with Jung, Chih Hui) A generalized Cauchy third continued-fraction expansion and its application to model reduction. (Chinese summary) 91j:93063
- Ilchmann, Achim (with Owens, David H.) Exponential stabilization using nondifferential gain adaptation. 91m:93102
- Jung, Chih Hui see Huang, Ch'í, 91j:93063
- Korovin, S. K. see Emel'yanov, S. V.; et al., 91m:93024
- Kurbator, V. G. The effect of rapidly oscillating feedbacks on stability. 91m:93104
- Lewis, F. L. see Dawson, Darren M.; et al., 91e:70076
- Lukas, V. A. ★ Теория автоматического управления. (Russian) [Automatic control theory] 91j:93001
- Magaril-Ilyayev, G. G. see Darkhovskii, B. S., 91m:93099
- Murashov, D. M. see Vishnyakov, Yu. S., 91m:49038
- Nersisyan, A. L. see Emel'yanov, S. V.; et al., 91m:93024
- Nikitin, N. V. An approximate method for solving problems of interruption of control when there are small acting noise intensities. (Not in MR)
- Nisenzon, Yu. E. see Emel'yanov, S. V.; et al., 91m:93024
- Owens, David H. see Ilchmann, Achim, 91m:93102
- Polak, Elijah (with Wiest, E. J.) Variable-metric technique for the solution of affinely parametrized nondifferentiable optimal design problems. 91k:90180
- Qu, Zhihua see Dawson, Darren M.; et al., 91e:70076
- de la Sen, Manuel Algebraic results for linear-equation structures involving polynomial block-matrix partitions. Some implications in decentralized control theory. 91m:93012
- Skelton, Robert E. see Zhu, Guoming, 91m:93150
- Vishnyakov, Yu. S. (with Murashov, D. M.) A method for the analytic design of discrete systems of nonlinear terminal control with given performance indices. (Russian) 91m:49038
- Wang, Wei³ A multivariable robust adaptive controller using reduced-order model. 91k:93071
- Wiest, E. J. see Polak, Elijah, 91k:90180
- Zhu, Guoming (with Skelton, Robert E.) Mixed L_2 and L_∞ problems by weight selection in quadratic optimal control. 91m:93150

Items listed otherwise than by author

Applied stochastic analysis ★ Applied stochastic analysis. 91m:93003

London ★ Applied stochastic analysis. 91m:93003

Workshop:

Applied Stochastic Analysis ★ Applied stochastic analysis. 91m:93003

93B52 Feedback control

- Allon, Amit Decoupling of square singular systems via proportional state feedback. 91j:93042
- Camacho, E. F. (with Quera, J. M.) Precomputation of generalized predictive self-tuning controllers. (Not in MR)
- Champetier, Calixte see Magni, Jean-François; et al., (Not in MR)
- Chang, Fu Hai A method of state feedback for realizing the step zero steady state error system on the basis of the ITAE criterion. (Chinese. English summary) (Not in MR)
- Desages, Alfredo see Molola, Jorge; et al., 91k:93037
- Dí, Zeng Ru (with Jiang, Lu) A time-delayed positive feedback structure and its dynamical behavior. (Chinese. English summary) (Not in MR)
- Folomeev, A. A. see Moroz, A. I., 91k:00023
- Gera, Amos E. Bode's integral revisited. 91m:93063
- Ge, Guoxiang On the existence of linear optimal control with output feedback. 91i:93053
- Han, Zhi Jun (with Wu, Zhi Ming) A multivariable double-loop self-tuning dynamic decoupling controller. (Chinese. English summary) (Not in MR)
- Huang, Lin (with Li, Zhong) Solvability of quadratic optimal control via output feedback. (Not in MR)
- Ito, Kazufumi Finite-dimensional compensators for infinite-dimensional systems via Galerkin-type approximation. 91i:93054
- Jiang, Lu see Dí, Zeng Ru, (Not in MR)
- Kryazev, Anatoli Vasil'evich Analysis of automatic control systems with feedback by the averaging method. (Not in MR)
- Kučera, Vladimír (with Zagalak, Petr) Constant solutions of polynomial equations. 91j:93043
- Leithard, W. E. (with O'Reilly, John) Performance issues in the individual channel design of 2-input 2-output systems. I. Structural issues. (Not in MR)
- Li, Zhong see Huang, Lin, (Not in MR)
- Lischinsky-Arenas, Pablo see Sira-Ramírez, Hebert, (Not in MR)
- Magni, Jean-François (with Champetier, Calixte; Meaurio, Philippe) A new tool for the analysis of modal control laws: the "pole attractors". (Not in MR)
- Menard, Philippe see Magni, Jean-François; et al., (Not in MR)
- Molola, Jorge (with Desages, Alfredo; Romagnoli, José A.) Computing bifurcation points via characteristic gain loci. 91k:93037
- Molnár, Sándor Optimization of realization-independent cost functions. 91k:93038
- Moroz, A. I. Time-optimal design in multidimensional systems that are discrete with respect to time. (Russian) (see 91k:00023)

- (with Folomeev, A. A.) Algorithmic synthesis of a time-optimal control law for nonoscillatory systems that are discrete with respect to time. (Russian) (see 91k:00023)
- O'Reilly, John see Leithead, W. E., (Not in MR)
- Potapenko, E. M. Minimizing compensator dimensionality in oscillatory system control. 91k:93039
- Quero, J. M. see Camacho, E. F., (Not in MR)
- Romagnoli, José A. see Moiola, Jorge; et al., 91k:93037
- Sira-Ramírez, Hébert (with Lischinsky-Arenas, Pablo) Dynamical discontinuous feedback control of nonlinear systems. (Not in MR)
- Sreenath, N. Accurate time critical control of many-body systems. 91d:93035
- Tornambè, Antonio A feedback control law for nonlinear time lag systems. 91j:93044
- Ushio, Toshimitsu Maximally permissive feedback and modular control synthesis in Petri nets with external input places. 91f:93044
- Wu, Zhi Ming see Han, Zhi Jun, (Not in MR)
- Zagalak, Petr see Kutera, Vladimir, 91j:93043
- Items with secondary classifications in 93B52
- Banaszuk, Andrzej (with Kocięcki, Maciej; Przytusi, K. M.) The disturbance decoupling problem for implicit linear discrete-time systems. 91h:93045
- Bartolomeo, J. (with Triggiani, Roberto) Uniform energy decay rates for Euler-Bernoulli equations with feedback operators in the Dirichlet/Neumann boundary conditions. 91j:35265
- Bonnab, Abdellah (with Gauthier, Jean-Paul) Weak stabilizability of infinite-dimensional nonlinear systems. 91j:93087
- Brykalov, S. A. The existence of temperature distributions close to a prescribed one in some control systems. (Russian summary) 91i:93060
- Gauthier, Jean-Paul see Bonnab, Abdellah, 91j:93087
- Hermann, Robert Nonlinear feedback control and systems of partial differential equations. 91f:58004
- Kappos, Efthimios A geometrical linearization theory. 91d:58236
- Kocięcki, Maciej see Banaszuk, Andrzej; et al., 91h:93045
- Kotta, Üle Model matching of linear-analytic discrete-time systems via dynamic state feedback. (Russian and Estonian summaries) 91m:93036
- Kowalewski, Adam Feedback control of a distributed parabolic system with boundary condition involving a time-varying lag. 91k:93046
- Kurzhanski, A. B. (with Nikonov, O. I.) On the problem of the synthesis of control strategies. Evolution equations and multivalued integration. 91d:49046
- Mayne, David Q. (with Michalska, Hannah) Receding horizon control of nonlinear systems. 91d:93046
- see also Michalska, Hannah, 91m:93105
- Megretski, A. V. Frequency criteria for the existence of periodic solutions for systems with integral constraints. 91f:49047
- Michalska, Hannah (with Mayne, David Q.) Receding horizon control of nonlinear systems without differentiability of the optimal value function. 91m:93105
- see also Mayne, David Q., 91d:93046
- Moroz, A. I. Algorithmic synthesis of modifications of a control law that is suboptimal with respect to time. (Russian) 91k:49056
- Nikonov, O. I. see Kurzhanski, A. B., 91d:49046
- Przytusi, K. M. see Banaszuk, Andrzej; et al., 91h:93045
- Triggiani, Roberto see Bartolomeo, J., 91j:35265
- ### 93B55 Pole and zero placement problems
- Adachi, Norihiko see Nishioka, K.; et al., 91m:93066
- Araki, Mituhiko see Hagiwara, Tomomichi; et al., (Not in MR)
- Balchen, Jens G. see Di Ruscio, David, 91f:93047
- Barmish, B. Ross (with Tempo, Roberto) The robust root locus. 91f:93045
- Bartlett, Andrew C. Counter-example to: "Clockwise nature of Nyquist locus of stable transfer functions" [Internat. J. Control 49 (1989), no. 4, 1433–1436] by I. M. Horowitz and S. Ben-Adam. (Not in MR)
- Batista, Léo (with del Picchia, Walter) A novel root locus calibrated in real gain in the inverse s plane. (Not in MR)
- (Ben-Adam, S.) see Bartlett, Andrew C., (Not in MR)
- Cai, Da Yong (with Chu, De Lin) A new algorithm for a pole placement problem using state feedback. (Not in MR)
- Carroll, Robert L. see Geng, Zheng, (Not in MR)
- Chang, Bor Chin (with Yousuff, Ajmal) Pole placement and the observer-based controller parameterization. (Not in MR)
- Chang, Timothy N. see Davison, Edward J., 91m:93065
- Ch'en, Po Hsien see Chou, Hsien Hsin; et al., 91e:93030 and Weng, Kuo Wên; et al., (Not in MR)
- Chen, Wen Liang see Weng, Kuo Wên; et al., (Not in MR)
- Chiang, Huang Keng (with Tsai, Jason Sheng Horng; Sun, Yü I) Extended Ackermann formula for multivariable control systems. (Not in MR)
- Chojnowski, Fabien (with Gutman, Shaul) Root-clustering criteria. II. Linear matrix equations. 91f:93050
- (with Gutman, Shaul) Root-clustering criteria. III. The rational-mapping approach. 91f:93051
- see also Gutman, Shaul, 91f:93049
- Chou, Hsien Hsin (with Ch'en, Po Hsien; Lin, Yu-Ping) Robust pole placement: a frequency-domain approach. 91e:93030
- Chou, Jyh Horng Pole-assignment robustness in a specified disk. 91m:93064
- Chu, De Lin A new algorithm for robust pole placement. (Chinese. English summary) 91h:93034
- see also Cai, Da Yong, (Not in MR)
- Chuang, Yao Tang (with Yu, Tsai Chung) Robust pole-assignment for structured perturbation systems. 91i:93055
- Coleman, Norman P. see Shieh, Leang San; et al., 91j:93047
- Dai, Guan Zhong see Yu, Tie Jun, (Not in MR)
- Datta, Biswa Nath (with Datta, Karabi) On eigenvalue and canonical form assignments. 91f:93046
- Datta, Karabi see Datta, Biswa Nath, 91f:93046
- Davison, Edward J. (with Chang, Timothy N.) Decentralized stabilization and pole assignment for general proper systems. 91m:93065
- DeCaro, Sandra M. (with Inman, Daniel J.) Stable eigenvalue placement by constrained optimization. (Not in MR)
- Dion, Jean Michel see Giri, Fouad; et al., (Not in MR)
- Di Ruscio, David (with Balchen, Jens G.) A Schur method for designing LQ-optimal systems with prescribed eigenvalues. 91f:93047
- Duan, Guang Ren (with Wu, Guang Yu) Robustness analysis of pole assignment controllers for continuous systems. (Chinese. English summary) 91b:93075
- (with Wu, Guang Yu; Huang, Wen Hu) Eigenstructure assignment by output feedback in linear systems. (Chinese. English summary) 91f:93048
- Eigenstructure assignment via observed state-feedback. (Chinese. English summary) 91j:93045
- (with Wu, Guang Yu) Eigenstructure assignment by output feedback. (Chinese) (Not in MR)
- Dugard, Luc see Giri, Fouad; et al., (Not in MR)
- Fahmy, Mahmoud M. (with Tantawy, H. S.) Dynamical order assignment for linear descriptor systems. 91e:93031
- Frazho, Arthur (with Le, D. K.) A contractive Hankel approach to matching poles and other system invariants. 91c:93039
- Fujimura, Toshifumi see Hagiwara, Tomomichi; et al., (Not in MR)
- Geng, Zheng (with Carroll, Robert L.) Two new algorithms for eigenstructure assignment of 2-D linear systems. (Chinese summary) (Not in MR)
- Giri, Fouad (with M'Saad, Mohamed; Dion, Jean Michel; Dugard, Luc) Pole placement direct adaptive control for time-varying ill-modeled plants. (Not in MR)
- Glover, Keith see Sefton, J., (Not in MR)
- Grimble, Michael J. Pole-zero cancellation problem in the convergence of explicit LQG self-tuning controllers. (Not in MR)
- Gutman, Shaul (with Chojnowski, Fabien) Root-clustering criteria. I. The composite-matrix approach. 91f:93049
- see also Paldi, Hedi Taub, 91b:93078; Chojnowski, Fabien, 91f:93050 and 91f:93051
- Hagiwara, Tomomichi (with Fujimura, Toshifumi; Araki, Mituhiko) Generalized multirate-output controllers. (Not in MR)
- Hanus, Raymond see Peng, You Bin, (91f:93002)
- Hauser, John E. see Sastry, S. Shankar; et al., 91c:93040
- Hayton, G. E. see Jones, E. R. L.; et al., (Not in MR)
- Helton, J. William (with Spain, P. G.; Young, Nicholas J.) Tracking poles and representing Hankel operators directly from data. 91k:93040
- Ho, T.-J. (with Ts'ai, Shu Ch'uan) Optimal poles placement in a specified region. 91e:93028
- (Horowitz, Isaac M.) see Bartlett, Andrew C., (Not in MR)
- Huang, Wen Hu see Duan, Guang Ren; et al., 91b:93075
- Inaba, Hiroshi (with Ito, Naoharu; Munaka, Tatsuji) Decoupling and pole assignment for linear systems defined over principal ideal domains. 91b:93076
- Inman, Daniel J. see DeCaro, Sandra M., (Not in MR)
- Ito, Naoharu see Inaba, Hiroshi; et al., 91b:93076
- Jones, E. R. L. (with Pugh, A. C.; Hayton, G. E.) Necessary conditions for the general pole placement problem via constant output feedback. (Not in MR)
- Kabrisinski, Jacek Eigenvalue-eigenvector sensitivity formulae for linear descriptor systems. (Not in MR)
- Kautský, Jaroslav (with Nichols, N. K.) Robust pole assignment in systems subject to structured perturbations. 91j:93046
- Kinnert, Michel Right half plane poles and zeros and robustness limitations in feedback systems. (see 91f:93002)
- Kokotović, P. V. see Sastry, S. Shankar; et al., 91c:93040
- Kouvaritakis, B. (with Rossiter, J. A.) Branch-point placement. 91i:93056
- K'ung, Fan Chü see Shen, Chin Chung, 91c:93041
- Le, D. K. see Frazho, Arthur, 91c:93039
- Leites, M. A. On the solvability of a problem on the modal control of a multidimensional system by means of output feedback. 91e:93032
- Lin, Yu-Ping see Chou, Hsien Hsin; et al., 91e:93030
- Lü, Yong Zai see Wang, Yao Qing, 91d:93036 and Xie, Song He, (Not in MR)
- Majda, George see Wei, Mu Sheng, 91c:93041
- M'Saad, Mohamed see Giri, Fouad; et al., (Not in MR)
- Munaka, Tatsuji see Inaba, Hiroshi; et al., 91b:93076
- Murota, Kazuo A matroid-theoretic approach to structurally fixed modes of control systems. 91e:93033
- Nichols, N. K. see Kautský, Jaroslav, 91j:93046
- Nishioka, K. (with Adachi, Norihiko; Takeuchi, K.) Simple pivoting algorithm for root-locus method of linear systems with delay. 91m:93066
- Paldi, Hedi Taub (with Gutman, Shaul) A symmetric matrix criterion for polynomial root clustering. 91b:93078
- Peng, You Bin (with Hanus, Raymond) Pole placement via generalized predictive control. (see 91f:93002)
- Piazzi, A. Pole placement under structural constraints. (Not in MR)
- del Picchia, Walter see Batista, Léo, (Not in MR)
- Pugh, A. C. see Jones, E. R. L.; et al., (Not in MR)
- Rachid, A. Robustness of pole assignment in a specified region for perturbed systems. 91b:93077
- Rossiter, J. A. see Kouvaritakis, B., 91i:93056
- Russell, David L. Neutral FDE canonical representations of hyperbolic systems. 91m:93067
- Sastry, S. Shankar (with Hauser, John E.; Kokotović, P. V.) Zero dynamics of regularly perturbed systems may be singularly perturbed. 91c:93040
- Sefton, J. (with Glover, Keith) Pole/zero cancellations in the general \mathcal{H}_∞ problem with reference to a two block design. (Not in MR)
- Shen, Chin Chung (with K'ung, Fan Chü) Designing robust discrete-time systems by pole assignment. 91k:93041

- Shieh, Leang San (with Zhen, L.; Coleman, Norman P.) Design of linear quadratic regulators with eigenvalue placement in a specified region. 91j:93047
- Sontag, Eduardo D. (with Wang, Yuan²) Pole shifting for families of linear systems depending on at most three parameters. 91c:93034
- Spain, P. G. see Helton, J. William; et al., 91h:93040
- Sun, Y. I. see Chiang, Huang Keng; et al., (Not in MR)
- Takeuchi, K. see Nishioka, K.; et al., 91m:93066
- Tantawy, H. S. see Fahmy, Mahmoud M., 91c:93031
- Tarokh, M. Approach to pole assignment by centralized and decentralized output feedback. 91h:93035
- Tempo, Roberto see Barnish, B. Ross, 91f:93045
- Tsai, Jason Sheng Horng see Chiang, Huang Keng; et al., (Not in MR)
- Ts'ai, Shu Ch'uan see Ho, T.-J., 91a:93028
- Wang, Da Hai Exact solutions and robustness of arbitrary pole assignment by output feedback. (Chinese. English summary) 91f:93052
- Wang, Yao Qing (with Lü, Yong Zai) Investigation of the inverse problem for LQ optimal control. (Chinese. English summary) 91d:93036
- see also Xie, Song He, (Not in MR)
- Wang, Yuan² see Sontag, Eduardo D., 91c:93034
- Wei, Mu Sheng (with Majda, George) A new theoretical approach for Prony's method. 91c:93041
- Weng, Kuo Wen (with Ch'en, Po Hsien; Chen, Wen Liang) Model reference adaptive control algorithm capable of arbitrary zeros placement. (Not in MR)
- Williams, T. W. C. Optimal root loci of flexible space structures. (Not in MR)
- Wu, Guang Yu see Duan, Guang Ren, 91h:93075; 91f:93048 and (Not in MR)
- Wu, Si Liang A new method for designing robust pole assignment control systems. (Chinese. English summary) (Not in MR)
- Xian, Jian Simultaneous stabilization with fixed closed-loop poles. (Chinese. English summary) (Not in MR)
- Xie, Song He (with Wang, Yao Qing) Correction: "Investigation of the inverse problem for LQ optimal control" [Control Theory Appl. 6 (1989), no. 4, 9–18; MR 91d:93036] by Wang and Y. Z. Lü. (Chinese) (Not in MR)
- Young, Nicholas J. see Helton, J. William; et al., 91h:93040
- Yousuff, Ajmal see Chang, Bor Chin, (Not in MR)
- Yu, Tie Jun (with Dai, Guan Zhong) Design of robust pole assignment controllers. (Chinese. English summary) (Not in MR)
- Yu, Tsai Chung see Chuang, Yao T'ang, 91h:93055
- Zhen, L. see Shieh, Leang San; et al., 91j:93047
- Items with secondary classifications in 93B55
- Ball, Joseph A. (with Rakowski, Marek) Minimal McMillan degree rational matrix functions with prescribed local zero-pole structure. 91f:93025
- Blanchini, Franco Controllability analysis and eigenvalue assignment for generalized state-space systems. 91j:93007
- Bongers, Peter M. M. (with Heuberger, Peter S. C.) Discrete normalized coprime factorization. 91f:93066
- Borisov, V. G. (with Diligenskii, S. N.; Efremov, A. Yu.) Design of invariant control systems on the basis of eigenstructures. 91j:93040
- Brewer, James W. (with Klingler, Lee; Minnaar, Frieda) Polynomial rings which are BCS-rings. 91a:13007
- Carotenuto, L. (with Muraca, P.; Raiconi, G.) On the optimal design of the output transformation for discrete-time linear systems. 91h:93082
- Chida, Yuichi see Mita, Tsutomu; et al., (Not in MR)
- Clements, D. J. see Goh, C. J.; et al., 91h:93068
- Conte, Giuseppe (with Perdon, A.-M.) Zeros, poles and modules in linear system theory. 91h:93064
- Das, Arjit (with Singh, Sahjendra N.) Dual mode control of an elastic robotic arm: nonlinear inversion and stabilization by pole assignment. (Not in MR)
- Diligenskii, S. N. see Borisov, V. G.; et al., 91j:93040
- Drakunov, S. V. (with Izosimov, D. B.; Luk'yanov, A. G.; Utkin, V. A.; Utkin, Vadim I.) The block control principle. I. 91m:93027
- (with Izosimov, D. B.; Luk'yanov, A. G.; Utkin, V. A.; Utkin, Vadim I.) The block control design principle. II. 91m:93028
- Efremov, A. Yu. see Borisov, V. G.; et al., 91j:93040
- Feng, I. Kang see Ts'ai, Shu Ch'uan; et al., 91g:93029
- Goh, C. J. (with Lim, Cheng-Chew; Teo, Kok Lay; Clements, D. J.) Robust controller design for systems with interval parameter design. (Russian summary) 91h:93068
- Gohberg, Israel (with Kaashoek, M. A.; Ran, André C. M.) Regular rational matrix functions with prescribed null and pole data except at infinity. 91j:93027
- Heuberger, Peter S. C. see Bongers, Peter M. M., 91f:93066
- Ho, Chen Ping see Wang, Feng Sheng, (Not in MR)
- Ioannou, Petros A. see Tsakalis, Kostas S., (Not in MR)
- Izosimov, D. B. see Drakunov, S. V.; et al., 91m:93027 and 91m:93028
- Jury, E. I. see Katbakh, A., 91c:93063
- Kaashoek, M. A. see Gohberg, Israel; et al., 91j:93027
- Kabamba, Pierre T. Switching control of sampled data systems. 91a:93037
- Kaku, Yasuhiko see Mita, Tsutomu; et al., (Not in MR)
- Katbakh, A. (with Jury, E. I.) On the stability of a general polynomial in the space of Markov parameters. 91c:93063
- Klingler, Lee see Brewer, James W.; et al., 91a:13007
- Kuo, Tê Shêng see Ts'ai, Shu Ch'uan; et al., 91g:93029
- Lim, Cheng-Chew see Goh, C. J.; et al., 91h:93068
- Liu, Zan Yi (with Xie, Song He) A criterion for eigenvectors of decentralized fixed modes and its application. (Chinese. English summary) 91h:93008
- Luk'yanov, A. G. see Drakunov, S. V.; et al., 91m:93027 and 91m:93028
- Minnaar, Frieda see Brewer, James W.; et al., 91a:13007
- Mita, Tsutomu (with Chida, Yuichi; Kaku, Yasuhiko; Numasato, Hidehiko) Two-delay robust digital control and its applications—avoiding the problem on unstable limiting zeros. (Not in MR)
- Muraca, P. see Carotenuto, L.; et al., 91h:93082
- Numasato, Hidehiko see Mita, Tsutomu; et al., (Not in MR)
- Perdon, A.-M. see Conte, Giuseppe, 91h:93064
- Raiconi, G. see Carotenuto, L.; et al., 91h:93082
- Rakowski, Marek see Ball, Joseph A., 91f:93025
- Ran, André C. M. see Gohberg, Israel; et al., 91j:93027
- Self, Mehrdad Optimal modal control of a nuclear power reactor. 91a:93042
- Singh, Sahjendra N. see Das, Arjit, (Not in MR)
- Teo, Kok Lay see Goh, C. J.; et al., 91h:93068
- Ts'ai, Shu Ch'uan (with Feng, I. Kang; Kuo, Tê Shêng) D-stability analysis for discrete optimal regulator. 91g:93029
- Tsakalis, Kostas S. (with Ioannou, Petros A.) A new indirect adaptive control scheme for time-varying plants. (Not in MR)
- Utkin, V. A. see Drakunov, S. V.; et al., 91m:93027 and 91m:93028
- Utkin, Vadim I. see Drakunov, S. V.; et al., 91m:93027 and 91m:93028
- Wang, Feng Sheng (with Ho, Chen Ping) Multivariable controller design based on shrinking process poles. (Not in MR)
- Xie, Song He see Lü, Yong Zai, 91d:93036
- ### 93B60 Eigenvalue problems
- Arnold, Mark (with Datta, Biswa Nath) An algorithm for the multi-input eigenvalue assignment problem. (Not in MR)
- Bryson, Arthur E., Jr. see Walker, Robert A., (Not in MR)
- Datta, Biswa Nath see Arnold, Mark, (Not in MR)
- Davison, Edward J. see Vaz, A. F., 91c:93036
- Gabellay, A. G. Invariance and unattainability of spectral values of linear autonomous systems. 91m:93068
- Hammad, A. Differential and difference Lyapunov equations: simultaneous eigenvalue bounds. 91f:93053
- Juang, Jer-Nan see Rew, D. W.; et al., 91h:93036
- Junkins, J. L. see Rew, D. W.; et al., 91h:93036
- Kaczorek, Tadeusz (with Świerkosz, M.) Solution to the 2-D eigenvalue assignment problem. 91h:93079
- Kouvaritakis, B. (with Rossiter, J. A.; Trimoli, M. S.) H_2 - and H_∞ -approximations for eigenvalues/vector functions of transfer matrices. 91c:93042
- Lebedev, A. L. see Zabello, L. E.; et al., 91c:93037
- Lee, Gu Dae see Nakagiri, Shin-ichi; et al., 91h:93042
- Nakagiri, Shin-ichi (with Yamamoto, Masahiro; Lee, Gu Dae) Spectral mode controllability, observability and identifiability for isolated spectrum points. 91h:93042
- Opeiko, A. F. see Zabello, L. E.; et al., 91c:93037
- Owens, T. J. Parametric output feedback control with left eigenstructure insensitivity. 91c:93035
- Rew, D. W. (with Junkins, J. L.; Juang, Jer-Nan) Robust eigenstructure assignment by a projection method: applications using multiple optimization criteria. 91h:93036
- Rossiter, J. A. see Kouvaritakis, B.; et al., 91c:93042
- Slater, G. L. see Zhang, Qiang, 91m:93069
- Sogaard-Andersen, P. Loop transfer recovery—an eigenstructure interpretation. 91a:93029
- Soh, C. B. Characterizations of eigenvalues of interval matrices. 91h:93043
- Świerkosz, M. see Kaczorek, Tadeusz, 91h:93079
- Trimoli, M. S. see Kouvaritakis, B.; et al., 91c:93042
- Vaz, A. F. (with Davison, Edward J.) On the quantitative characterization of approximate decentralized fixed modes using transmission zeros. 91c:93036
- Walker, Robert A. (with Bryson, Arthur E., Jr.) Reliable algorithm for modal decomposition. (Not in MR)
- Yamamoto, Masahiro see Nakagiri, Shin-ichi; et al., 91h:93042
- Zabello, L. E. (with Lebedev, A. L.; Opeiko, A. F.) Synthesis of optimal controllers in linear systems with time lags under incomplete information. 91c:93037
- Zhang, Qiang (with Slater, G. L.) Eigenstructure assignment with control gains optimization. 91m:93069
- Items with secondary classifications in 93B60
- Barnett, Stephen see Mori, Takehiro, 91g:15008
- Bercovici, Hari (with Fofas, Ciprian; Tannenbaum, Allen) Spectral radius interpolation and robust control. 91h:93052
- Berger, W. A. (with Perry, Richard J.) Geometric approach to parametric sensitivity and gain suppression. (see 91f:93002)
- Evangelatos, Dionysis S. Structurally fixed modes: decomposition and reachability. 91f:93015
- Fellachi, Ali (with Yang, Xiaoqing) Identification of power system stabilizers locations. 91a:93040
- Fofas, Ciprian see Bercovici, Hari; et al., 91h:93052
- Friedlander, Benjamin see Weiss, Anthony J., 91g:94004
- Kawatani, Ryoji (with Kimura, Hidenori) Synthesis of reduced-order H^∞ controllers based on conjugation. 91f:93044
- Kimura, Hidenori see Kawatani, Ryoji, 91f:93044
- Komaroff, N. Upper bounds for the eigenvalues of the solution of the Lyapunov matrix equation. 91b:15022
- Krajewski, Wiesław (with Lepschy, Antonio; Mian, Gian Antonio; Viaro, Umberto) A unifying frame for stability-test algorithms for continuous-time systems. 91b:93153
- Lepschy, Antonio see Krajewski, Wiesław; et al., 91b:93153
- Maksimov, Ya. M. A composition algorithm for calculating bi-orthogonal systems of right and left eigenvectors of simple matrices. (Russian) (Not in MR)
- Mian, Gian Antonio see Krajewski, Wiesław; et al., 91b:93153
- Mori, Takehiro (with Barnett, Stephen) Zero location criteria for second-degree matrix polynomials. 91g:15008
- Pan, T. S. (with Rao, S. S.; Venkayya, V. B.) Rates of change of closed-loop eigenvalues and eigenvectors of actively controlled structures. 91f:73029
- Perry, Richard J. see Berger, W. A., (91f:93002)
- Rao, S. S. see Pan, T. S.; et al., 91f:73029
- Self, Mehrdad Optimal modal control of a nuclear power reactor. 91a:93042

- Tannenbaum, Allen. *see* Bercovici, Hark; et al., 91b:93052
 Venkayya, V. B. *see* Pan, T. S.; et al., 91f:73029
 Viaro, Umberto. *see* Krajewski, Wiesław; et al., 91b:93153
 Weiss, Anthony J. (with Friedlander, Benjamin) Eigenstructure methods for direction finding with sensor gain and phase uncertainties. 91g:94004
 Wu, Si Liang. A new method for designing robust pole assignment control systems. (Chinese. English summary) (Not in MR)
 Yang, Xiaoling. *see* Fellachi, Ali, 91a:93040
 Yang, Zi Hou (with Zhang, Hou Qi) Control of resources start-ups for a class of flexible manufacturing systems. (Chinese. English summary) (Not in MR)
 Zhang, Hou Qi. *see* Yang, Zi Hou, (Not in MR)
 Zhdanov, A. I. Recursive estimation of minimum eigenvalues of information matrices. 91b:93187

93B99 None of the above, but in this section

- Al-Mazeedi, Moosa M. Analysis of weighted integrals by using orthogonal state variables. 91b:93080

Items with secondary classifications in 93B99

- Floudas, Christodoulos A. *see* Georgiou, Apostolos, 91a:93001
 Georgiou, Apostolos (with Floudas, Christodoulos A.) Structural properties of large scale systems. 91a:93001
 Panasyuk, A. I. Approximation subsystems of a dynamical system of shifts. 91a:58156

93Cxx Control systems, guided systems

93C05 Linear

- Bell, D. J. (with Tsang, W.) Invertibility and decoupling of linear time-varying systems. 91b:93044
 Dauphin-Tanguy, Genevieve. *see* Suen, C., (Not in MR)
 Dervişoğlu, Ahmet. *see* Tombus, Nesrin, (Not in MR) and (Not in MR)
 Encheva, Tatiana I. (with Levin, A. Yu.) Central sections in linear time-optimal control problems. (Not in MR)
 Friedman, Avner (with Honig, Michael L.) On the spread of continuous-time linear systems. 91a:93038
 Grimble, Michael J. Relationship between the trace and maximum eigenvalue norms for linear quadratic control design. 91b:93057
 Honig, Michael L. *see* Friedman, Avner, 91a:93038
 Kirichenko, N. F. (with Ruznak, N. A.) Classification of pseudo-inversions of matrices in linear systems. (Russian) 91b:93045
 Kéna, A. Characterization of mixed Kalman matrices in geometrical and optimization terms. (Italian summary) 91j:93048
 Kalik, A. S. Diagnosability of linear dynamical systems. (Russian. English summary) (Not in MR)
 Levin, A. Yu. *see* Encheva, Tatiana I., (Not in MR)
 Lewis, F. L. *see* Öspaldiran, K., 91b:93037
 Ober, Raimund. Connectivity properties of classes of linear systems. 91b:93081
 Owens, T. J. Parametric approach to the admissibility of reference-driven square systems. (Not in MR)
 Öspaldiran, K. (with Lewis, F. L.) On the regularizability of singular systems. 91b:93037
 Pustovoytov, N. A. An algorithm for constructing a mathematical model of a linear system with a discrete controller. (Russian) (see 91b:93037)
 Ruznak, N. A. *see* Kirichenko, N. F., 91b:93045
 Suen, C. (with Dauphin-Tanguy, Genevieve) Bond-graph approach for structural analysis of MIMO linear systems. (Not in MR)
 Sugaya, Jyunichi (with Takeda, Hiroshi) Ultimate boundedness of uncertain linear systems under some control laws. 91b:93082
 Takeda, Hiroshi. *see* Sugaya, Jyunichi, 91b:93082
 Tombus, Nesrin (with Dervişoğlu, Ahmet) Classification des systèmes linéaires dépendants du temps et les propriétés des systèmes symétriques, des systèmes symétriques gauches. (English and Turkish summaries) [Classification of time-dependent linear systems and properties of symmetric and skew-symmetric systems] (Not in MR)
 — (with Dervişoğlu, Ahmet) Errata: "Classification of time-dependent linear systems and properties of symmetric and skew-symmetric systems" [İstanbul Tek. Üniv. Bül. 43 (1990), no. 2, 149–167]. (French) (Not in MR)
 Tsang, W. *see* Bell, D. J., 91b:93044
 Zluchak, N. A. Mutual transform of continuous and discrete models of linear dynamic systems. IV. Resolution of the ambiguity of the inverse transform. (Not in MR)
- Items with secondary classifications in 93C05
- Antonichik, V. S. Stabilization of linear control systems. 91m:93096
 Astrovskii, A. I. On observation-estimation theory in linear time-dependent systems with noise of wave structure. (Russian) 91a:34050
 Azamatov, A. R. *see* Azamatov, A. A., 91b:49021
 Azamatov, A. A. (with Azamatov, A. R.) A necessary and sufficient condition for the uniqueness and relay property of extremal controls in linear systems. (Russian. Uzbek summary) 91b:49021
 Bacciotti, Andrea (with Bianchini, Rosa Maria) The linear time optimal problem revisited: regularization and approximation. (Italian summary) 91f:49049
 Barabanov, A. E. (with Sokolov, Andrei Arianovich) Structural realizability of controllers in multidimensional multiply coupled control systems. (Russian) 91b:93024
 Bhattacharyya, Shankar Prasad. *see* Moore, Kevin L.; et al., 91b:93099 and Chapellat, Hervé; et al., 91j:93075
 Bianchini, Rosa Maria. *see* Bacciotti, Andrea, 91f:49049
 Boekhoudt, Piet. Solution of polynomial equations in \mathcal{H}_∞ optimal control. 91j:93034
 Bonnard, B. (with Tebbikh, H.) Réalisation minimale en 0 et classification linéaire des systèmes polynomiaux homogènes. (English summary) [Minimal realization at 0 and linear classification of homogeneous polynomial systems] 91m:93032
 Braillesau, Grigore. Matrix operators for numerically stable representation of stiff linear dynamic systems. (Not in MR)
 Casavola, A. Polynomial solution of the continuous-time GMV control problem. (Not in MR)
 Chakraborty, Gargi. On extension of a linear control problem. 91d:49009
 Chang, Fan Jen. *see* Fang, Chün Hsiung, 91b:93036
 Chapellat, Hervé (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Robust stability under structured and unstructured perturbations. 91j:93075
 Ch'en, Po Hsien. *see* Lin, Chun Liang; et al., 91c:93078
 Clarke, Frank H. (with Vinter, Richard B.) Regularity properties of optimal controls. 91b:49033
 Colaneri, Patrizio. Zero-error regulation of discrete-time linear periodic systems. (Not in MR)
 Commault, C. (with Dion, Jean Michel; Torres, J. A.) Invariant spaces at infinity of linear systems application to block decoupling. (Not in MR)
 Curtain, Ruth F. (with Weiss, George) Well posedness of triples of operators (in the sense of linear systems theory). 91d:93027
 Dahleh, Mohammed A. *see* Moore, Kevin L.; et al., 91b:93099 and Chapellat, Hervé; et al., 91j:93075
 Descusse, J. The block essential orders and the dynamic block decoupling problem. 91b:93065
 Desoer, C. A. (with Gündes, A. N.) Algebraic theory of feedback systems with two-input two-output plant and compensator. 91b:93035
 Dion, Jean Michel. *see* Commault, C.; et al., (Not in MR)
 Emelyanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.) Stabilization of undetermined neutral objects by a regulator of variable structure. 91b:93062
 Emre, Erol (with Tai, Heng Ming; Seo, Jin H.) Transfer matrices, realization, and control of continuous-time linear time-varying systems via polynomial fractional representations. 91b:93031
 Fahmy, Mahmoud M. (with Tantawy, H. S.) Dynamical order assignment for linear descriptor systems. 91c:93031
 Fang, Chün Hsiung (with Chang, Fan Jen) Calculation of solutions to polynomial matrix identities via eigenvalue-assignment techniques. 91b:93036
 Feintuch, Avraham. Stabilization and sensitivity for eventually time-invariant systems. 91a:93051
 Fliess, Michel. Some basic structural properties of generalized linear systems. 91j:93018
 Frangakis, G. P. *see* Tzafestas, Spyros G., 91a:65128
 Fuhrmann, P. A. (with Helmke, Uwe) Output feedback invariants and canonical forms for linear dynamical systems. 91b:93023
 Gabasov, R. F. (with Kirillova, F. M.; Kostyukova, O. I.) A finite algorithm for optimization of dynamical systems in a class of inertial controls. (Russian) 91c:49058
 Gabrelay, A. G. α -stabilizability of linear autonomous control systems. (Russian. English and Georgian summaries) 91b:93088
 Gajic, Zoran (with Petkovski, Djordjija B.; Shen, Xuemin) Singularly perturbed and weakly coupled linear control systems. 91j:93002
 Gray, W. Steven (with Verriest, Erik I.) On the sensitivity of generalized state-space systems. 91b:93053
 Gündes, A. N. *see* Desoer, C. A., 91b:93035
 Hasiewicz, Zygmunt Jerzy. Applicability of least-squares to the parameter estimation of large-scale no-memory linear composite systems. 91b:93050
 Hagner, Stephen J. Algebraic representation of dynamics and behavior for continuous-time linear systems. 91b:93037
 Helmke, Uwe. *see* Fuhrmann, P. A., 91b:93023
 Hilarichsen, D. (with Nguyễn Khoa So'n) The complex stability radius of discrete-time systems and symplectic pencils. 91c:39005
 Hsiao, Fei Bin. *see* Lin, Chun Liang; et al., 91c:93078
 Ikemann, Achim. Time-varying linear control systems: a geometric approach. 91a:93018
 — (with Owens, David H.) Adaptive stabilization with exponential decay. 91d:93061
 Jakubczyk, Bronisław (with Sontag, Eduardo D.) Controllability of nonlinear discrete-time systems: a Lie-algebraic approach. 91m:93002a
 — (with Sontag, Eduardo D.) Erratum: "Controllability of nonlinear discrete-time systems: a Lie-algebraic approach". 91m:93002b
 Kabamba, Pierre T. Switching control of sampled data systems. 91a:93037
 Khaki-Sedigh, A. *see* Porter, Brian, (Not in MR)
 Kimura, Hidenori. State space approach to the classical interpolation problem and its applications. 91b:93124
 Kirillova, F. M. *see* Gabasov, R. F.; et al., 91c:49058
 Kiselev, Yu. N. Optimal design in a smooth linear time-optimality problem. 91b:93069
 Korobov, V. I. (with Sklyar, G. M.) Time-optimality and the trigonometric moment problem. 91a:49025
 Korovin, S. K. *see* Emelyanov, S. V.; et al., 91b:93062
 Kostyukova, O. I. *see* Gabasov, R. F.; et al., 91c:49058
 Laumano, Monika. On asymptotic inequalities in discrete time controlled linear systems. 91b:93179
 Letfura, V. N. Stability of a linear automatic control system with slowly changing parameters. (Ukrainian. Russian summary) (Not in MR)
 Lerman, S. F. *see* Pokotilo, V. G., 91b:93012
 Levine, Jean (with Marino, Riccardo) On fault-tolerant observers. (Not in MR)
 Lin, Chun Liang (with Hsiao, Fei Bin; Ch'en, Po Hsien) Stabilization of large structural systems under mode truncation, parameter perturbations and actuator saturations. 91c:93078
 Lokshin, M. D. On the optimal control of a linear system under the condition of the integral disturbance constraint. (Russian summary) 91b:93038
 Marino, Riccardo. *see* Levine, Jean, (Not in MR)
 Mitchell, Charles A. Optimal sampling design for parameter estimation and p -widths under stochastic and deterministic noise. 91b:93169
 Minyuk, S. A. On the theory of complete controllability of linear time-dependent systems.

- 91d:93012
 Moore, Kevin L. (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Learning control for robotics. 91b:93099
- Murota, Kazuo A matroid-theoretic approach to structurally fixed modes of control systems. 91c:93033
- Nersisyan, A. L. see Emel'yanov, S. V.; et al., 91b:93062
- Nguyen Khoa So'n see Hiarichsen, D., 91c:93005
- Novitski, V. V. Decomposition of linear control systems. (Russian) 91b:93005
- Owens, David H. see Ichmann, Achim, 91d:93061
- Owens, T. J. Parametric output feedback control with left eigenstructure insensitivity. 91c:93035
- Parasov, Yu. I. ★ Уравнения Ляпунова и Риккати. (Russian) [Lyapunov and Riccati equations] 91d:93001
- Petersen, Ian R. Complete results for a class of state feedback disturbance attenuation problems. 91f:93037
- Petrovski, Djordjija B. see Gajic, Zoran; et al., 91j:93002
- Pokotilo, V. G. (with Lerman, S. F.) Asymptotic properties of ellipsoids that approximate information sets. (Russian) 91b:93012
- Porter, Brian (with Khaki-Sedigh, A.) Design of tunable digital set-point tracking controllers for linear multivariable type-one plants. (Not in MR)
- Ruan, Shi Gui see Wu, Jian Hong, 91j:34128
- Sablin, Gary C. W. (with Summers, Danny) Optimal technique for estimating the reachable set of a controlled n -dimensional linear system. 91c:49062
- de la Sen, Manuel On algebraic equivalences between decentralized and centralized linear control. 91c:93006
- See, Jin H. see Emre, Erol; et al., 91b:93031
- Shen, Xuemin see Gajic, Zoran; et al., 91j:93002
- Shimizu, Kiyotaka see Suzuki, Masakazu, 91c:93020
- Shubladze, A. M. Procedure for computing optimal stability proportional controls. I. 91m:93109
- Skelton, Robert E. see Xu, Ji-Han; et al., 91c:93025
- Siklyar, G. M. see Korobov, V. I., 91a:49025
- Sokolov, Andrei Arianovich see Barabanov, A. E., 91b:93024
- Sontag, Eduardo D. see Jakubczyk, Bronislaw, 91m:93002a and 91m:93002b
- Stoorvogel, Antonie Arij (with Trentelman, H. L.) The quadratic matrix inequality in singular H_∞ control with state feedback. 91b:93028
- Summers, Danny see Sablin, Gary C. W., 91c:49062
- Suzuki, Masakazu (with Shimizu, Kiyotaka) Analysis of distributed systems by array algebra. 91c:93020
- Tadmor, Gilead Input/output norms in general linear systems. 91b:93035
- Tai, Heng Ming see Emre, Erol; et al., 91b:93031
- Tantawy, H. S. see Fahmy, Mahmoud M., 91c:93031
- Tebikh, H. see Bonnard, B., 91m:93032
- Torres, J. A. see Commault, C.; et al., (Not in MR)
- Trentelman, H. L. see Stoorvogel, Antonie Arij, 91b:93028
- Tzafestas, Spyros G. (with Frangakis, G. P.) On microcomputer-based simulation of linear multivariable systems. 91a:65128
- Verriest, Erik I. see Gray, W. Steven, 91b:93053
- Vinter, Richard B. see Clarke, Frank H., 91b:49033
- Wang, Ding Wei A digraph solution to the most economical structural synthesis of linear systems. (Chinese. English summary) 91b:93074
- Wei, Ke Hui Robust stabilization of linear time-invariant systems via linear control. 91a:93053
- Weiss, George see Curtain, Ruth F., 91d:93027
- (Willems, Jan C.) see From data to model, 91c:93031
- van der Woude, J. W. On the structure at infinity of a structured system. 91m:93030
- A graph-theoretic characterization for the rank of the transfer matrix of a structured system. 91m:93082
- Wu, Jian Hong (with Ruan, Shi Gui) Asymptotic stability analysis for large scale neutral integrodifferential systems. 91j:34128
- Xu, Ji-Han (with Skelton, Robert E.; Zhu, Guoming) Upper and lower covariance bounds for perturbed linear systems. 91c:93025
- Yanovich, V. I. On the reconstructibility of linear time-independent systems that are not completely controllable in the sense of Kalman. (Russian) 91a:93010
- Zaslavskii, B. G. Positive realizability of linear control systems. 91b:93032
- Zhu, Guoming see Xu, Ji-Han; et al., 91c:93025
- Items listed otherwise than by author
- From data to model ★ From data to model. 91c:93031
- ### 93C10 Nonlinear
- Banks, S. P. see Chanane, B., 91c:93043
- Baumann, William T. Discrete-time control of continuous-time nonlinear systems. (Not in MR)
- Burrage, Kevin Generalized Fibonacci polynomials and the functional iteration of rational functions of degree one. 91f:93054
- Byrnes, Christopher I. (with Isidori, Alberto) Steady state response, separation principle and the output regulation of nonlinear systems. 91b:93083
- see also Isidori, Alberto, 91c:93044
- Carrington, Connie K. see Long, Theresa W., (Not in MR)
- Chanane, B. (with Banks, S. P.) Rational expansion for nonlinear input-output maps. 91c:93043
- Évvin, A. Yu. see Shtessel, Yu. B., (Not in MR)
- Fadali, M. S. see Li, Chijl, (Not in MR)
- Gopalswamy, Swaminathan see Hedrick, J. Karl, (Not in MR)
- Gras, L. C. J. M. (with Nijmeijer, Henk) Decoupling in nonlinear systems: from linearity to nonlinearity. (Not in MR)
- Gray, J. O. see Janabi, T. H., (Not in MR)
- Hedrick, J. Karl (with Gopalswamy, Swaminathan) Nonlinear flight control design via sliding methods. (Not in MR)
- Helton, J. William Factorization of nonlinear systems. 91f:93055
- Hoang Ngoc Minh, V. (with Jacob, Gérard) Evaluation transform and symbolic calculus for nonlinear control systems. 91f:93056
- Huang, Jie (with Rugh, Wilson J.) On a nonlinear multivariable servomechanism problem. (Not in MR)
- Isidori, Alberto (with Byrnes, Christopher I.) Output regulation of nonlinear systems. 91c:93044
- see also Byrnes, Christopher I., 91b:93083
- Jacob, Gérard see Hoang Ngoc Minh, V., 91f:93056
- Jakubczyk, Bronislaw Equivalence and invariants of nonlinear control systems. 91c:93045
- Janabi, T. H. (with Gray, J. O.) Method for the control of a special class of nonlinear systems. (Not in MR)
- Jiao, Li Cheng (with Qiu, Guan Yuan) Basic theory and methods of nonlinear analysis of fully integrated continuous time MOSFET-C filters. (Chinese. English summary) (Not in MR)
- Kokotović, P. V. see Saberi, Ali; et al., 91j:93049
- Leonides, Cornelius T. see Wang, Dan Chung, 91b:93084
- Li, Chijl (with Fadali, M. S.) Optimal control of 2D systems. (Not in MR)
- Li, Dong Mei see Liu, Bao; et al., (Not in MR)
- Liu, Bao (with Wang, Zheng Ou; Li, Dong Mei) The residual-LKL method for testing the order of dynamical systems with small samples. (Chinese. English summary) (Not in MR)
- Long, Theresa W. (with Carrington, Connie K.) A new nonlinear optimal control method: the tracking and relative direction imbedded system. (Not in MR)
- MacLeod, I. M. see Wigdorowicz, B., (Not in MR)
- Mariton, Michel Control of nonlinear systems with Markovian parameter changes. (Not in MR)
- Nijmeijer, Henk see Gras, L. C. J. M., (Not in MR)
- Qiu, Guan Yuan see Jiao, Li Cheng, (Not in MR)
- Respondet, Witold Right and left invertibility of nonlinear control systems. 91d:93037
- Rugh, Wilson J. see Huang, Jie, (Not in MR)
- Saberi, Ali (with Kokotović, P. V.; Sussmann, Héctor J.) Global stabilization of partially linear composite systems. 91j:93049
- Shtessel, Yu. B. (with Évvin, A. Yu.) Invariant control of the output of nonlinear systems. (Not in MR)
- Sussmann, Héctor J. see Saberi, Ali; et al., 91j:93049
- Wang, Dan Chung (with Leonides, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. I, II. 91b:93084
- Wang, Zheng Ou see Liu, Bao; et al., (Not in MR)
- Wigdorowicz, B. (with MacLeod, I. M.) Application of equilibrium surface modelling methodology in designing a controller for a van der Pol oscillator. (Not in MR)
- ### Items with secondary classifications in 93C10
- Aeyels, Dirk Remarks on the stabilizability of nonlinear systems by smooth feedback. 91a:93047
- see also Willems, Jacques L., 91j:93093
- Bailey, C. M. (with McAllister, G. T.) On the optimal control of minimum film thickness. 91j:49060
- Banks, S. P. (with Khathur, Saadi A.) Structure and control of piecewise-linear systems. 91c:65047
- Bartosiewicz, Z. Nonlinear systems on algebraic spaces. 91a:93016
- Bonnard, B. L'équivalence entre le temps minimal et la classification par bouclage des systèmes non linéaires. (English summary) [Equivalence between minimal time and feedback classification of nonlinear systems] 91k:93020
- Byrnes, Christopher I. (with Isidori, Alberto) Régulation asymptotique des systèmes non linéaires. (English summary) [Asymptotic output regulation of general nonlinear systems] (Not in MR)
- Čelikovský, S. On the global linearization of bilinear systems. 91k:93028
- Chen, Guan Rong (with de Figueiredo, Rui J. P.) Construction of the left coprime fractional representation for a class of nonlinear control systems. (Not in MR)
- Chiang, Hsiao-Dong (with Fekih-Ahmed, Lazhar) A constructive methodology for estimating the stability regions of interconnected nonlinear systems. 91d:93067
- Chirkova, M. M. see Feigin, M. L., (91e:00007)
- Darken, Joanne Accessible sets for analytic control systems in \mathbb{R}^2 . 91b:49002
- Dayawansa, W. P. (with Martin, Clyde Franklin; Knowles, Gareth J.) Asymptotic stabilization of a class of smooth two-dimensional systems. 91j:93092
- Ding, Xianchun (with Frank, Paul M.; Guo, Limin) Nonlinear observer design via an extended observer canonical form. 91i:93021
- Dzhamalov, S. Z. A nonlinear control problem for an equation of mixed type of the second kind. (Russian) 91j:35188
- Enns, Dale see Folas, Ciprian; et al., 91a:93022
- Fayaz, M. A. (with Lamnabhi-Lagarrigue, Françoise) On singular output tracking in multivariable nonlinear systems. 91g:93017
- Feigin, M. L. (with Chirkova, M. M.) Control of the motion of nonlinear objects. (Russian) (see 91e:00007)
- Fekih-Ahmed, Lazhar see Chiang, Hsiao-Dong, 91d:93067
- de Figueiredo, Rui J. P. see Chen, Guan Rong, (Not in MR)
- Folas, Ciprian (with Tannenbaum, Allen; Enns, Dale; Georgiou, Tryphon T.; Jackson, Michael; Schipper, Brian) On the nonlinear mixed sensitivity problem. 91a:93022
- Frank, Paul M. see Ding, Xianchun; et al., 91i:93021
- Gabelyay, A. G. On a problem of determining minimal fields for the control of dynamical systems. (Russian. English and Georgian summaries) (Not in MR)
- Gao, Wei Bing see Xia, Xiao Hua, 91b:93017
- Gardner, Robert B. (with Shadwick, W. F.) Feedback equivalence for general control systems. 91j:93021
- (Garg, Devendra P.) see Willems, Jacques L., 91j:93093
- Georgiou, Tryphon T. see Folas, Ciprian; et al., 91a:93022
- Grizzle, J. W. (with Morala, P. E.) On observers for smooth nonlinear digital systems. 91i:93022

- Gao, Limin *see* Ding, Xianchun; et al., 91i:93021
- Hammouri, H. (with Othman, Sami) Immersion in infinite dimension. 91h:93011
- Isidori, Alberto *see* Sastry, S. Shankar, 91h:93101 and Byrnes, Christopher L. (Not in MR)
- Jackson, E. Atlee The entrainment and migration controls of multiple-attractor systems. 91k:58076
- Jackson, Michael *see* Foias, Ciprian; et al., 91a:93022
- Kalouptsidis, N. *see* Tsinias, John, 91m:93111
- Kaneilakopoulos, I. *see* Marino, Riccardo; et al., 91a:93026
- Khathur, Saadi A. *see* Banks, S. P., 91c:65047
- Khorasani, K. Feedback equivalence for a class of nonlinear singularly perturbed systems. 91a:93013
- Feedback equivalence for a class of nonlinear singularly perturbed systems. 91i:93070
- Corrigendum: "Robust stabilization of nonlinear systems with unmodelled dynamics" [Internat. J. Control 50 (1989), no. 3, 827-844; MR 90i:93112]. 91d:93054
- Klötzler, Rolf Theory and applications of optimal distributional control. 91j:49041
- Knowles, Gareth J. *see* Dayawansa, W. P.; et al., 91j:93092
- Kochetkov, Yu. A. Optimal control of deterministic nonlinear automatic systems. The method of invariant embedding. (Not in MR)
- Kokotović, P. V. *see* Marino, Riccardo; et al., 91a:93026
- Kotta, Ülle Approximate input-output linearization of discrete-time nonlinear systems. (Russian summary) 91c:93055
- Kovaliv, M. M. (with Moshchenko, A. V.) Searching for the maximal upper zero of a threshold function in multivalued logic. (Russian) 91h:94038
- Krener, Arthur J. (with Zhu, Yi) The fractional representations of a class of nonlinear systems. 91a:93009
- Nonlinear controller design via approximate normal forms. 91d:93034
- Lamnabhi-Lagarigue, Françoise *see* Fayas, M. A., 91g:93017 and Willems, Jan C., 91j:93025
- Lawrence, Douglas A. (with Rugh, Wilson J.) On a stability theorem for nonlinear systems with slowly varying inputs. 91h:93154
- Lee, Hong-Gi *see* Suh, Sungwoo, 91i:93028
- Marino, Riccardo (with Kaneilakopoulos, I.; Kokotović, P. V.) Adaptive tracking for feedback linearizable SISO systems. 91a:93026
- Martin, Clyde Franklin *see* Dayawansa, W. P.; et al., 91j:93092
- Martynenko, V. V. On the theory of the synthesis of a nonlinear controller. 91i:93050
- Mayne, David Q. (with Michalska, Hannah) Receding horizon control of nonlinear systems. 91d:93046
- McAllister, G. T. *see* Bailey, C. M., 91j:49060
- McClamroch, N. Harris Feedback stabilization of control systems described by a class of nonlinear differential-algebraic equations. 91e:93070
- Michalska, Hannah *see* Mayne, David Q., 91d:93046
- Moraal, P. E. *see* Grizzle, J. W., 91i:93022
- Moshchenko, A. V. *see* Kovaliv, M. M., 91h:94038
- Motreanu, D. Strong accessibility with respect to a submersion. (Russian summary) 91c:93009
- Morgan, A. T. *see* Nicolau, Ed.; et al., 91e:58088
- Nicolau, Ed. (with Murgan, A. T.; Pascadi, Manuela A.; Pascadi, M. V.) Designing relations for a general nonlinear system of order three. (French and Russian summaries) 91e:58088
- Nijmeijer, Henk (with van der Schaft, A. J.) ★ Nonlinear dynamical control systems. 91d:93024
- Nowakowski, Andrzej Characterizations of an approximate minimum in optimal control. 91j:49031
- Othman, Sami *see* Hammouri, H., 91h:93011
- Pascadi, M. V. *see* Nicolau, Ed.; et al., 91e:58088
- Pascadi, Manuela A. *see* Nicolau, Ed.; et al., 91e:58088
- Quijada, O. An approximate maximum principle for suboptimal control problems. 91j:49032
- Reeds, J. A. (with Shepp, Larry A.) Optimal paths for a car that goes both forwards and backwards. 91j:49056
- (Rondeli, Ewald G.) *see* Willems, Jacques L., 91j:93093
- Rugh, Wilson J. *see* Lawrence, Douglas A., 91h:93154
- Saberi, Ali (with Sannuti, Peddapullaiah) Observer-based control of uncertain systems with nonlinear uncertainties. 91i:93065
- Samolienko, Yu. I. Dynamics of the evolution of a system of linear oscillators under parametric resonance control. 91j:93031
- Sannuti, Peddapullaiah *see* Saberi, Ali, 91i:93065
- Sastry, S. Shankar (with Isidori, Alberto) Adaptive control of linearizable systems. 91h:93101
- van der Schaft, A. J. *see* Nijmeijer, Henk, 91d:93024
- Schipper, Brian *see* Foias, Ciprian; et al., 91a:93022
- Selbert, Peter (with Suárez, Rodolfo) Global stabilization of a certain class of nonlinear systems. 91m:93108
- Shadwick, W. F. *see* Gardner, Robert B., 91j:93021
- (Shanidze, Z. G.) *see* Willems, Jacques L., 91j:93093
- Shepp, Larry A. *see* Reeds, J. A., 91j:49056
- Sira-Ramirez, Hebert Structure at infinity, zero dynamics and normal forms of systems undergoing sliding motions. 91f:93029
- Sontag, Eduardo D. Further facts about input to state stabilization. 91h:93147
- Spivak, A. K. On the optimal control of a nonlinear system. (Russian. Tajiki summary) (Not in MR)
- Steigensberger, J. On feedback equivalence of general and affine Hamiltonian control systems. 91j:93041
- Suárez, Rodolfo *see* Selbert, Peter, 91m:93108
- Suh, Sungwoo (with Lee, Hong-Gi) Sampling effect on the exponential map of vector fields. 91i:93028
- Sussmann, Héctor J. Why real analyticity is important in control theory. 91h:93004
- Tannenbaum, Allen *see* Foias, Ciprian; et al., 91a:93022
- Tsinias, John Observer design for nonlinear systems. 91h:93021
- (with Kalouptsidis, N.) Output feedback stabilization of discrete-time control systems. 91m:93111
- Further results on the observer design problem. 91c:93011
- A correction note on the paper: "Further results on the observer design problem" [Systems Control Lett. 14 (1990), no. 5, 411-418; MR 91c:93011]. 91j:93015
- Varga, Z. On controllability of Fisher's model of selection. 91c:92041
- Walcott, Bruce L. *see* Zak, Stanislaw H., (Not in MR)
- Warga, Jack Local and global directional controllability: sufficient conditions and examples. 91a:93063
- Willems, Jacques L. (with Aeyels, Dirk) Comments on: "Global stability of solutions of nonlinear control systems" [Internat. J. Systems Sci. 20 (1989), no. 10, 1909-1924; MR 90i:93101] by D. P. Garg, Z. G. Shanidze and E. G. Rondeli. 91j:93093
- Willems, Jan C. (with Lamnabhi-Lagarigue, Françoise) A note on the linearization around an equilibrium. 91j:93025
- Xia, Xiao Hua (with Gao, Wei Bing) Minimal-order dynamic decoupling of nonlinear systems. 91h:93017
- Yang, Wei Lin (with Zhang, Si Ying) A kind of nonlinear system and its reduction and structural control. (see 91f:93002)
- Zak, Stanislaw H. (with Walcott, Bruce L.) Input-output linearizability of affine nonlinear systems. (Not in MR)
- Zhang, Si Ying *see* Yang, Wei Lin, (91f:93002)
- Zhu, Yi *see* Krener, Arthur J., 91a:93009

93C15 Systems governed by ordinary differential equations

- Campbell, Stephen L. (with Yeomans, K. D.) Solving singular systems using orthogonal functions. (Not in MR)
- Fel, Jing Gao Local analytical methods for digital simulation of dynamical control system. 91i:93058
- Ikeda, Masao (with Šiljak, Dragoslav D.) Optimality and robustness of linear quadratic control for nonlinear systems. 91d:93038
- Kallin, A. I. Asymptotic methods for constructing optimal controls with relay and singular parts. (Russian) (Not in MR)
- Kryazhinskii, A. V. (with Osipov, Yu. S.) Methods for position modeling of a control in a dynamical system. (Russian) 91c:93046
- Lekshin, M. D. On the optimal control of a linear system under the condition of the integral disturbance constraint. (Russian summary) 91h:93038
- Monaco, Salvatore (with Normand-Cyrot, D.) A combinatorial approach of the nonlinear sampling problem. (see 91f:93002)
- Normand-Cyrot, D. *see* Monaco, Salvatore, (91f:93002)
- Osipov, Yu. S. *see* Kryazhinskii, A. V., 91c:93046
- Ponomarenko, V. P. *see* Zaulin, I. A., (Not in MR)
- Shchipanov, G. V. The fiftieth anniversary of publishing Professor G. V. Shchipanov's work: "Theory and methods of design of automatic regulators". 91i:93059
- Šiljak, Dragoslav D. *see* Ikeda, Masao, 91d:93038
- Yeomans, K. D. *see* Campbell, Stephen L., (Not in MR)
- Zaulin, I. A. (with Ponomarenko, V. P.) Analysis of dynamic processes in static synchronization systems. (Not in MR)
- Items with secondary classifications in 93C15
- Andrievskii, B. R. (with Stotskii, A. A.; Fradkov, A. L.) Velocity gradient algorithms in problems of control and adaptation. 91c:49001
- Bainov, D. D. (with Milusheva, S. D.) The method of partially multiplicative averaging in the problems of terminal control. 91h:34075
- Bamieh, B. *see* Pearson, J. B., (Not in MR)
- Braiek, Ennaceur Benhadj (with Rotella, Frédéric) LOGID: a nonlinear systems identification software. 91c:93022
- Burov, I. A. *see* Emelyanov, S. V.; et al., 91k:93049
- Carlson, Dean A. Uniformly overtaking and weakly overtaking optimal solutions in infinite-horizon optimal control: when optimal solutions are agreeable. 91c:49034
- Corless, M. Guaranteed rates of exponential convergence for uncertain systems. 91c:93032
- Da, Qing Li *see* He, Jian Min; et al., (Not in MR)
- Degtyareva, E. V. *see* Golubev, Yu. F., 91b:70046
- Emelyanov, S. V. (with Burov, I. A.; Volkov, V. L.) Application of the principle of induction of internal feedbacks in problems of the optimal control of indeterminate nonlinear dynamical systems. 91k:93049
- Fabre, Caroline Équation des ondes avec second membre singulier et application à la contrôlabilité exacte. (English summary) [Wave equation with singular second member and application to exact controllability] 91d:93008
- Fradkov, A. L. *see* Andrievskii, B. R.; et al., 91c:49001
- Garnaev, A. Yu. Optimal policies in a nonlinear bioeconomic model of eutrophication. 91k:92039
- Golubev, Yu. F. (with Degtyareva, E. V.) Asymptotic solutions in the modeling of the dynamics of a walking apparatus. (Russian. English summary) 91b:70046
- He, Jian Min (with Da, Qing Li; Xu, Nan Rong) A gross output prediction method for optimal analysis of a nonlinear dynamical input-output model. (Not in MR)
- Hermann, Robert Perturbation theory for nonlinear feedback control systems and Spencer-Goldschmidt integrability of linear partial differential equations. 91b:58004
- Kapustyan, V. E. Asymptotic analysis of optimal control for a transport particle process. 91j:49055
- Kirin, N. E. An optimal damping method in control problems with incomplete feedback. (see 91e:00013)
- Kogan, Jacob Structure of minimizers in linear-quadratic Bolza problems of optimal control. 91h:49004
- Kuklev, E. A. Moment methods for dynamical systems with discontinuous controls. (Russian) (Not in MR)
- Milusheva, S. D. *see* Bainov, D. D., 91h:34075
- Papadakis, Nikiforos A. (with Perakis, Anastassios N.) Deterministic minimal time vessel routing. 91f:90073
- Pearson, J. B. (with Bamieh, B.) On minimizing maximum errors. (Not in MR)
- Perakis, Anastassios N. *see* Papadakis, Nikiforos A., 91f:90073

- Reitmann, Volker Asymptotic behaviour of trajectories of dynamical systems on the cylinder. 91b:58136
- Rotella, Frédéric *see* Bralek, Eannaceur Benhadj, 91c:93022
- Shubladze, A. M. Design methods for n -dimensional control laws that are optimal with respect to the degree of stability. III. 91m:93116
- Serger, Gerhard On the optimality of given feedback controls. 91b:34104
- Stotskii, A. A. *see* Andrievskii, B. R.; et al., 91c:49001
- Trukhachev, R. I. Elements of influence analysis of dynamical systems. (Russian) (*see* 91c:80013)
- Volkov, V. L. *see* Emel'yanov, S. V.; et al., 91k:93049
- Voronin, A. N. A stochastic multicriterial problem of the design of ergative control systems. (Russian) 91c:93081
- Xu, Nan Rong *see* He, Jian Min; et al., (Not in MR)

93C20 Systems governed by partial differential equations

- Arkin, V. I. On the maximum principle for stochastic control problems. (*see* 91j:60003)
- Banks, H. T. (with Kunisch, Karl) ★ Estimation techniques for distributed parameter systems. 91b:93085
- Brodii, N. K. (with Lychak, M. M.; Platova, E. L.) Mathematical description of a controllable heating process. (Russian) 91b:93086
- Brykalov, S. A. The existence of temperature distributions close to a prescribed one in some control systems. (Russian summary) 91i:93060
- Stationary temperature distributions in systems with continuous feedback and control. (Not in MR)
- Butkovskii, A. G. Recent research on control of distributed and lumped systems: a brief summary. (*see* 91m:93004)
- Dzhenaliev, M. T. On the absolute extremum for optimal control problems in function spaces. (Russian) (*see* 91b:00026)
- On a problem of the optimal control of a parabolic equation. (Russian) (*see* 91b:93088)
- Flandoli, Franco A counterexample in the boundary control of parabolic systems. 91c:93047
- Gasanov, Z. M. (with Lyubotskaya, L. Yu.) Approximate solution of a problem of time-optimal control of a process of particle diffusion. (Russian) (*see* 91b:00029)
- Goebel, Manfred (with Majchrowski, Marian) Distributed and boundary control of a nonlinear elliptic mixed boundary value problem. 91j:93050
- Haraux, Alain Séries lacunaires et contrôle semi-interne des vibrations d'une plaque rectangulaire. (English summary) [Lacunary series and semi-internal control of the vibrations of a rectangular plate] 91c:93039
- Hoffmann, Karl-Heinz¹ (with Sprekels, Jürgen; Niezgodka, Marek) Feedback control via thermostats of multidimensional two-phase Stefan problems. 91m:93070
- Hulká, G. Lumped input and distributed output systems at the control of distributed parameter systems. (Russian summary) (Not in MR)
- Jaffard, S. Contrôle interne exact des vibrations d'une plaque rectangulaire. (English summary) [Exact internal control of the vibrations of a rectangular plate] 91j:93051
- Karnev, Zh. A. (with Kenzhegulov, B. Z.) An optimal control problem for loaded equations of parabolic type with point observation. (Russian) (*see* 91b:93088)
- Kenzhegulov, B. Z. *see* Karnev, Zh. A., (91b:93088)
- Kokhan, A. A. Optimal control of high-intensity heat fields. (Russian) 91i:93061
- Kowalewski, Adam Feedback control of a distributed parabolic system with boundary condition involving a time-varying lag. 91k:93046
- Kunisch, Karl *see* Banks, H. T., 91b:93085
- Lychak, M. M. *see* Brodii, N. K.; et al., 91b:93086
- Lyubotskaya, L. Yu. *see* Gasanov, Z. M., (91b:00029)
- Majchrowski, Marian *see* Goebel, Manfred, 91j:93050
- Narayanan, S. B. *see* Venkatraman, Krishnaswamy, 91i:93062
- Neronov, V. S. Optimal control of nonlinear parabolic-hyperbolic systems. (Russian) (*see* 91b:93088)
- *see also* Optimal control of processes with distributed parameters, 91b:93088
- Niezgodka, Marek *see* Hoffmann, Karl-Heinz¹; et al., 91m:93070
- Özbay, Hiltay (with Tannenbaum, Allen) On approximately optimal H^∞ controllers for distributed systems. 91a:93030
- Pandolfi, L. Internal description and external description of distributed parameter systems. (Italian, English summary) 91c:93048
- Platova, E. L. *see* Brodii, N. K.; et al., 91b:93086
- Pulvirenti, Giuseppe (with Santagati, Giuseppe; Villani, Alfonso) Control processes with distributed parameters in unbounded sets. (Italian, English summary) 91f:93057
- Santagati, Giuseppe *see* Pulvirenti, Giuseppe; et al., 91f:93057
- Sprekels, Jürgen *see* Hoffmann, Karl-Heinz¹; et al., 91m:93070
- Tannenbaum, Allen *see* Özbay, Hiltay, 91a:93030
- Udwadia, Firdaus E. Noncollocated point control of nondispersive distributed-parameter systems using time delays. 91m:93071
- Venkatraman, Krishnaswamy (with Narayanan, S. B.) The optimal independent modal-space control of a flexible beam subjected to constant disturbance. 91i:93062
- Villani, Alfonso *see* Pulvirenti, Giuseppe; et al., 91f:93057
- Wang, P. K. C. Stabilization and control of distributed systems with time-dependent spatial domains. 91b:93087
- Items listed otherwise than by author
- Optimal control of processes with distributed parameters ★ Оптимальное управление процессами с распределенными параметрами. (Russian) [Optimal control of processes with distributed parameters] 91b:93088
- Items with secondary classifications in 93C20
- Al-Janabi, Abdul Samee Abdul Razzak An identification problem of distributed parameter systems. 91f:93032
- Balakrishnan, A. V. Damping operators in continuum models of flexible structures: explicit models for proportional damping in beam bending with end-bodies. 91i:73035
- Banks, H. T. (with Reich, Simeon; Rosen, I. G.) An approximation theory for the identification of nonlinear distributed parameter systems. 91g:47051
- (with Ito, Kazufumi) A numerical algorithm for optimal feedback gains in high-dimensional linear quadratic regulator problems. 91m:93055
- Banov, A. M. (with Mikheev, Yu. V.; Temkin, L. S.) A quasi-optimal controller for an object with distributed parameters. 91g:93035
- Barbu, Viorel ★ Metode matematice în optimizarea sistemelor diferențiale. (Romanian) [Mathematical methods for the optimization of differential systems] 91i:49001
- Barron, E. N. Application of viscosity solutions of infinite-dimensional Hamilton-Jacobi-Bellman equations to some problems in distributed optimal control. 91c:49050
- Basile, N. (with Mininni, M.) An extension of the maximum principle for a class of optimal control problems in infinite-dimensional spaces. 91h:49029
- Bentsman, Joseph (with Hong, Keum S.) Vibrational stabilization and transient behavior analysis of nonlinear parabolic systems with Neumann boundary conditions. 91a:93049
- (with Hong, Keum S.) Vibrational stabilization of nonlinear parabolic systems with Neumann boundary conditions. 91m:93098
- Bergmann, Joachim (with Koschützke, Anita) Vollsteuerbarkeitskriterien für Goursat-Aufgaben dritter Ordnung. (English summary) [Complete controllability criteria for third-order Goursat problems] 91c:93008
- Berrahmoun, Larbi Stabilisation de structures flexibles faiblement amorties. (English summary) [Stabilization of weakly damped flexible structures] 91g:93027
- Bogobowicz, Agnieszka Theoretical aspects of modeling and control of water quality in a river section. 91m:86002
- Borkar, Vivek S. Self-tuning control of diffusions without the identifiability condition. 91m:93046
- Borne, Pierre *see* Zambettakis, Irène; et al., 91f:35046
- Butt, R. (with Rubio, J. E.) Optimal shapes for the control of nonlinear heat conduction. 91h:49043
- Christensen, G. S. (with Soliman, S. A.; Nieva, R.) ★ Optimal control of distributed nuclear reactors. 91b:93002
- Datta, K. B. *see* Mohan, B. M., 91j:93117 and 91k:93030
- Dauphin-Tanguy, Genevieve *see* Zambettakis, Irène; et al., 91f:35046
- Davis, Mark H. A. *see* Ribeiro de Val, João Bosco, 91h:49042
- Dymitrak, Anna Vibration control of the system of strings connected in a node. 91c:73063
- El-Zahaby, S. A. The quasi-reversibility method application to parabolic operators with an infinite number of variables. 91g:35236
- Emmanuel, O. Yu. Existence theorems for a solution of problems of controlling singular distributed systems. 91k:49004
- Fattorini, H. O. (with Frankowska, Halina) Explicit convergence estimates for suboptimal controls. II. (Russian summary) 91j:49044
- Finyagina, V. I. *see* Kubyshkin, V. A., 91a:35029
- Flandoli, Franco Boundary control of a stochastic parabolic equation with nonsmooth final cost. 91h:93076
- Solution and control of a bilinear stochastic delay equation. 91c:49045
- Flytzanis, Elias (with Papageorgiou, Nikolaos S.) Optimality conditions for a class of nonlinear distributed parameter control systems. 91m:49020
- Folas, Ciprian (with Tannenbaum, Allen) Operator theoretic methods in the control of distributed and nonlinear systems. 91c:93024
- Frankowska, Halina A priori estimates for operational differential inclusions. 91b:34099
- *see also* Fattorini, H. O., 91j:49044
- Gasanov, K. K. Existence theorems for optimal control in processes that can be described by a system of quasilinear hyperbolic equations. (Russian, English and Azerbaijani summaries) 91c:49004
- Gasanov, Z. M. (with Serdyuk, M. E.) A problem of designing optimal impulse control with incomplete measurements. (Russian) (*see* 91b:00029)
- Górecki, Henryk *see* Szymkat, Maciej; et al., (Not in MR)
- Gorinevskii, D. M. The Bubnov-Galerkin method in problems of the control of oscillatory mechanical systems with distributed parameters. 91k:65119
- Helmicl, Arthur J. (with Jacobson, Clas A.; Nett, Carl N.) Control-oriented modeling and identification of distributed parameter systems. (*see* 91m:93004)
- Hijab, Omar Control of degenerate diffusions in \mathbb{R}^d . 91m:35052
- Hoffmann, Karl-Heinz¹ (with Niezgodka, Marek) Control of evolutionary free boundary problems (rapporteur's report). (*see* 91g:00044)
- Hong, Keum S. *see* Bentsman, Joseph, 91a:93049 and 91m:93098
- Ibragimov, S. I. A control system for the flow of gas in a pipeline. (Not in MR)
- Isichenko, L. V. (with Perov, V. P.) Iterative methods for solving a class of problems of optimal control of systems with distributed parameters. 91g:65158
- Ito, Kazufumi *see* Banks, H. T., 91m:93055
- Jacobson, Clas A. *see* Helmicl, Arthur J.; et al., (91m:93004)
- Joé, István Contrôlabilité exacte et propriétés d'oscillation de l'équation des ondes par analyse nonharmonique. (English summary) [Exact controllability and oscillation properties of the wave equation by nonharmonic analysis] 91k:93015
- Kim, A. V. (with Korotkii, A. I.) Dynamic modelling of perturbations in parabolic systems. 91i:93041
- Korbicz, Józef (with Maksimov, V. I.; Osipov, Yu. S.) Dynamic modeling of controls in some parabolic systems. 91j:49054
- Korotkii, A. I. *see* Kim, A. V., 91i:93041
- Koschützke, Anita *see* Bergmann, Joachim, 91c:93008
- Kostousova, E. K. Difference approximation of a problem of choosing the composition of a measurement in a parabolic system. (Russian) 91f:93033
- Approximation of the problem of choosing an optimal composition of measurements in a parabolic system. (Russian) 91j:93032
- Kotin, Leon *see* Stark, W. Richard, 91h:68058
- Kubyshkin, V. A. (with Finyagina, V. I.) Problems on the control of moving heat sources. 91a:35029
- Lagnese, John E. The reachability problem for thermoelastic plates. 91i:93018
- Lange, Othfried Finite controllability of linear parabolic systems with stationary final states. 91j:93011
- Lasiecka, Irena Approximations of solutions to infinite-dimensional algebraic Riccati equations with unbounded input operators. 91f:49039
- Lee, Kwang Yun System identification of flexible structures. (*see* 91m:93004)
- Leugering, Günter Control and stabilization of a flexible robot arm. 91b:73073

- Levin, M. P. ★ Метод контрольной поверхности в пространственных вариационных задачах газовой динамики. (Russian) [The control surface method in three-dimensional variational problems in gas dynamics] (Not in MR) 91b:93007
- Litvinchev, I. S. Decomposition in control of systems of the hyperbolic type with crossed connections. 91b:93007
- Lods, Véronique Une formulation mixte pour un assemblage de poutres adaptée à la résolution d'un problème d'optimisation. (English summary) [A mixed formulation for a model of junctions of beams adapted to the solution of an optimization problem] 91j:49033
- Lvin, S. Ya. Linear optimal control problems. Solution of a Stokes system with minimal energy. (Russian) 91b:49030
- Maksimov, V. I. Modeling controls and coefficients in parabolic evolution systems. 91c:93023
- see also Korbicz, Józef; et al., 91j:49054
- Mei'nik, S. A. Optimality "in the small" of parabolic stochastic systems. (Russian) (see 91j:60061)
- Mikhlin, Yu. V. Suboptimal asymptotic algorithms for boundary control of heat conduction processes. (Not in MR)
- see also Banov, A. M.; et al., 91g:93035
- Millman, Mark H. (with Scheid, Robert E.) Factorization and the synthesis of optimal feedback gains for distributed parameter systems. 91b:93033
- Mininni, M. see Basile, N., 91b:49029
- Mohan, B. M. (with Datta, K. B.) Identification of nonlinear distributed parameter systems via orthogonal functions. 91j:93117
- (with Datta, K. B.) Linear time-invariant distributed parameter system identification via orthogonal functions. 91b:93030
- Musabekov, K. S. A method for solving a problem of the optimal control of a process in a chemical reactor. (Russian) 91b:93111
- Nagase, Noriaki On the existence of optimal control for controlled stochastic partial differential equations. 91b:49027
- (with Nisio, Makiko) Optimal controls for stochastic partial differential equations. 91c:93028
- Nalin, Olivier Contrôlabilité exacte sur une partie du bord des équations de Maxwell. (English summary) [Exact controllability on part of the boundary of Maxwell's equations] 91b:93016
- Nett, Carl N. see Helmicki, Arthur J.; et al., (91m:93004)
- Nguyen Bu'ng Existence of optimal control of a nonlinear operator equation in Banach spaces. (Russian) 91c:49040
- Nicolas, Serge Contrôlabilité exacte d'un problème couplé pluri-dimensionnel. (English summary) [Exact controllability of a pluridimensional coupled problem] 91b:35052
- Nieva, R. see Christensen, G. S.; et al., 91b:93002
- Niezgodka, Marek see Hoffmann, Karl-Heinz¹, (91g:00044)
- Nisio, Makiko see Nagase, Noriaki, 91c:93028
- Omata, Sigeru (with Seinfeld, John H.) ★ Distributed parameter systems. 91g:93002
- Osipov, Ya. S. see Korbicz, Józef; et al., 91j:49054
- Özbay, Hilay (with Tannenbaum, Allen) A skew Toeplitz approach to the H^∞ optimal control of multivariable distributed systems. 91b:93060
- Papageorgiou, Nikolaos S. Relaxability and well-posedness for infinite-dimensional optimal control problems. 91j:49003
- see also Flytzanis, Elias, 91m:49020
- Perevozchikov, A. G. Design of a dynamical system as a problem of controlling a system with distributed parameters. (Not in MR)
- Perov, V. P. see Isichenko, L. V., 91g:65158
- Popek, Lesław see Szymkat, Maciej; et al., (Not in MR)
- Reich, Simeon see Banks, H. T.; et al., 91g:47051
- Ribeiro do Val, João Bosco (with Davis, Mark H. A.) Local optimality criteria for stochastic control of piecewise deterministic processes. (Portuguese. English summary) 91b:49042
- Rosen, I. G. see Banks, H. T.; et al., 91g:47051
- Rubio, J. E. see Buti, R., 91b:49043
- Russell, David L. Neutral FDE canonical representations of hyperbolic systems. 91m:93067
- Scheid, Robert E. see Millman, Mark H., 91b:93033
- Seldman, Thomas I. Some problems of distributed parameter control with unilateral constraints. 91b:49037
- Seinfeld, John H. see Omata, Sigeru, 91g:93002
- Serdyuk, M. E. see Gassanov, Z. M., (91b:00029)
- Sharaboeva, L. Ya. Iterative regularization of the method of successive approximations for an optimal control problem. (Russian) 91c:49054
- Shimizu, Kiyotaka see Suzuki, Masakazu, 91c:93020
- Shklyar, B. Sh. On the controllability of linear systems with distributed parameters. 91b:93017
- Soliman, S. A. see Christensen, G. S.; et al., 91b:93002
- Stark, W. Richard (with Kotin, Leon) The social metaphor for distributed processing. 91b:68058
- Suzuki, Masakazu (with Shimizu, Kiyotaka) Analysis of distributed systems by array algebra. 91c:93020
- Szigeti, F. Realization and approximate realization by multisystems governed by parabolic equations. (Russian summary) 91c:93015
- Szymkat, Maciej (with Górecki, Henryk; Popek, Lesław) Control of a long-line-type plant. (Not in MR)
- Tannenbaum, Allen see Özbay, Hilay, 91b:93060 and Foaas, Ciprian, 91c:93024
- Temkin, L. S. see Banov, A. M.; et al., 91g:93035
- Triggiani, Roberto Exact controllability in the presence of damping. 91d:35028
- Tröltzsch, F. Approximation of nonlinear parabolic boundary control problems by the Fourier method—convergence of optimal controls. 91m:49034
- Tsvetkov, Tsvetomir An optimal control problem for the heat equation. 91c:49007
- Yon, Yun Cheng Pointwise stabilizability of coupled elastic beam systems. 91b:93092
- Zambettakis, Irène (with Dauphin-Tanguy, Geneviève; Borne, Pierre) Composite quasi-optimal control of multiscale distributed parameter systems. 91f:35046
- Zhakupova, A. A. A control problem in coefficients. (Russian) 91f:35047
- Zhang, Gong An Existence of optimal coefficient controls for parabolic and elliptic distributed parameter systems of order $2m$. (Chinese) 91c:49008
- Zhong, Wan Xie (with Zhong, Xiang-Xiang) Computational structural mechanics. Optimal control and semi-analytical method for PDE. 91b:73107
- Zhong, Xiang-Xiang see Zhong, Wan Xie, 91b:73107
- Ziótko, Mariusz Application of Lyapunov functionals to studying stability of linear hyperbolic systems. 91b:93050
- Zolezzi, Tullio Variable structure control of semilinear evolution equations. 91b:93090

93C22 Systems governed by integral equations

- Grigor'ev, Yu. A. An extremal problem with the Wiener-Hopf operator. 91b:93089
- Groh, Jürgen Optimierung linearer stetig-diskreter dynamischer Systeme. [Optimization of linear continuous-discrete dynamical systems] (see 91b:00039)
- Mar'kin, N. M. An integral optimality condition for processes defined by integral equations. (Russian) (see 91b:00036)
- Polczewski, Jerzy Optimization of the system described by Fredholm's integral equation. 91a:93031
- Items with secondary classifications in 93C22
- Carlson, Dean A. The existence of catching-up optimal solutions for a class of infinite horizon optimal control problems with time delay. 91b:49008
- Leugering, Günter On the reachability problem of a viscoelastic beam during a slewing maneuver. 91b:93013

93C25 Systems in abstract spaces

- Curtain, Ruth F. (with Rodman, Leiba) Comparison theorems for infinite-dimensional Riccati equations. 91m:93072
- Islamov, G. G. Control of the spectrum of a dynamical system. (Russian) (see 91c:34070)
- Kappel, Franz (with Salamon, Dietmar) An approximation theorem for the algebraic Riccati equation. 91g:93021
- van Keulen, Bert Hankel operators for nonexponentially stabilizable infinite-dimensional systems. 91m:93073
- Nguyễn Bu'ng On the optimal control of a class of nonlinear equations in a Banach space. (Not in MR)
- Rodman, Leiba see Curtain, Ruth F., 91m:93072
- Salamon, Dietmar see Kappel, Franz, 91g:93021
- Wang, Yu Wen Some approximation and control problems in Orlicz spaces. Geometry of Orlicz space. III. (see 91c:46004)
- Zolezzi, Tullio Variable structure control of semilinear evolution equations. 91b:93090
- Items with secondary classifications in 93C25
- Ahmed, N. U. see Li, Peng, 91b:93174
- Baghdadi, Lamia (with Rabah, Rabah) A note on the stabilization of linear systems in Hilbert spaces. 91b:93134
- Bartosiewicz, Z. Nonlinear systems on algebraic spaces. 91a:93016
- Cai, Xiu Nan Necessary and sufficient conditions for controllability of an infinite-dimensional semilinear system. (Chinese. English summary) (Not in MR)
- Curtain, Ruth F. (with Weiss, George) Well posedness of triples of operators (in the sense of linear systems theory). 91d:93027
- Robust stabilizability of normalized coprime factors: the infinite-dimensional case. 91c:93075
- Desch, Wolfgang (with Wheeler, Robert L.) Destabilization due to delay in one-dimensional feedback. 91c:35028
- Fattorini, H. O. (with Frankowska, Halina) Explicit convergence estimates for suboptimal controls. I. (Russian summary) 91j:49043
- Frankowska, Halina see Fattorini, H. O., 91j:49043
- Harn, Yuh-Pyng (with Polak, Elijah) Proportional-plus-multiintegral stabilizing compensators for a class of MIMO feedback systems with infinite-dimensional plants. 91b:93073
- Hermida Alonso, J. A. (with Sánchez-Giralda, T.) On the duality principle for linear dynamical systems over commutative rings. 91f:13012
- Inaba, Hiroshi see Ueno, Takashi; et al., 91f:49033 and Otsuka, Naohisa; et al., 91j:93023
- Ito, Kazufumi Finite-dimensional compensators for infinite-dimensional systems via Galerkin-type approximation. 91b:93054
- Kawane, Shin (with Yanagihara, Niro) Moduli spaces and global canonical forms of discrete time linear systems in Hilbert spaces. 91b:93015
- Komerik, Vilmos Exact controllability in short time. 91d:93011
- Lasiecka, Irena (with Triggiani, Roberto) Algebraic Riccati equations arising in boundary/point control: a review of theoretical and numerical results. I. Continuous case. 91c:93019
- (with Triggiani, Roberto) Algebraic Riccati equations arising in boundary/point control: a review of theoretical and numerical results. II. Approximation theory. 91c:93020
- Lee, E. Bruce (with You, Yun Cheng) Quadratic optimization for infinite-dimensional linear differential difference type systems: syntheses via the Fredholm equation. 91a:49014
- Li, Peng (with Ahmed, N. U.) A note on stability of stochastic systems with unbounded perturbations. 91b:93174
- Littman, Walter A generalization of a theorem of Datko and Pazy. 91a:47052
- Mamtyor, Dz. Optimal stabilization of a nonlinear system in a Banach space. (Russian) 91c:49010
- Máté, László On the continuity of causal operators. 91a:47049
- Miyaji, Wendell M. A Lyapunov strong stability theorem on Hilbert space. 91b:93115
- Morris, K. A. Robustness of controllers designed using Galerkin type approximations. 91a:49018
- Nguyễn Khos So'n see Vũ Ngọc Phát, 91b:93018
- Oide, Takayuki see Otsuka, Naohisa; et al., 91j:93023
- Otsuka, Naohisa (with Inaba, Hiroshi; Oide, Takayuki) Decoupling by state feedback in infinite-dimensional systems. 91j:93023
- see also Ueno, Takashi; et al., 91f:49033
- Papageorgiou, Nikolaos S. Relaxation of infinite-dimensional control systems. 91b:49042

- Polak, Elijah *see* Harn, Ywh-Pyng, 91h:93073
 Rabah, Rabah *see* Baghdadi, Lamia, 91h:93134
 Rebarber, Richard Necessary conditions for exponential stabilizability of distributed parameter systems with infinite-dimensional unbounded feedback. 91h:93145
 Rosen, I. G. On Hilbert-Schmidt norm convergence of Galerkin approximation for operator Riccati equations. 91e:65085
 Sánchez-Giralda, T. *see* Hermida Alonso, J. A., 91f:13012
 Triggiani, Roberto *see* Lasiecka, Irena, 91e:93019 and 91e:93020
 Ueno, Takashi (with Inaba, Hiroshi; Otsuka, Naohisa) Output feedback decoupling for linear control systems defined in Hilbert spaces. 91e:49033
 Vũ Ngọc Phát (with Nguyễn Khoa So'n) Linear nonstationary control systems: null-controllability with restrained controls in Banach spaces. 91h:93018
 Weiss, George The representation of regular linear systems on Hilbert spaces. 91d:93026
 — *see also* Curtain, Ruth F., 91d:93027
 Wheeler, Robert L. *see* Desch, Wolfgang, 91e:35028
 Yanagihara, Niro *see* Kawase, Shin, 91h:93015
 Yoo, Yun Cheng *see* Lee, E. Bruce, 91a:49014
 Zabczyk, Jerzy Some interplays between control theory and stochastic systems. 91h:93158

93C30 Systems governed by functional relations other than differential or integral equations

- Asaraai, A. *see* Fletcher, L. R., 91h:93092
 Agafonov, I. G. *see* Makarov, I. M.; et al., (Not in MR)
 Arizov, I. (with Israilov, I. I.) An algorithm for calculating the local optimum in a linear maximin problem with related variables. (Russian) 91f:93058
 Benveniste, Albert (with Le Guernic, Paul) Hybrid dynamical systems theory and the SIGNAL language. (Not in MR)
 Bodianskii, E. V. (with Pliss, I. P.) Solution of a problem of controlling a matrix object under conditions of uncertainty. (Russian) (Not in MR)
 Bonilla, E. Moisés (with Malabre, Michel) Algebraic characterization of invariant zeros at infinity for generalized systems. 91g:93022
 Campbell, Stephen L. (with Clark, Kenneth D.) Singular control problem structure and the convergence of backward differentiation formulas. 91a:93032
 Chang, Fan Jén *see* Fang, Chün Hsiung, 91h:93091
 Chen, Enke *see* Lafortune, Stéphane, 91c:93049
 Christodoulou, M. A. (with Mertzios, B. G.) Singular systems: a survey of the recent research work. 91f:93059
 Chukhrov, I. P. *see* Makarov, I. M.; et al., (Not in MR)
 Clark, Kenneth D. *see* Campbell, Stephen L., 91a:93032
 Dias, R. J. (with Mesquita, A.) A closed form solution for regular descriptor systems using the Moore-Penrose generalized inverse. (Not in MR)
 Fang, Chün Hsiung (with Chang, Fan Jén) Realization algorithm for constructing a controllable representation of a singular system with a special coordinate. 91h:93091
 Fletcher, L. R. (with Asaraai, A.) On disturbance decoupling in descriptor systems. 91h:93092
 Holloway, Lawrence E. (with Krogh, Bruce H.) Synthesis of feedback control logic for a class of controlled Petri nets. (Not in MR)
 Hooghiemstra, G. *see* Olsder, G. J.; et al., 91b:93094
 Hua, Xiang Ming *see* Qian, Feng; et al., (Not in MR)
 Israilov, I. I. *see* Arizov, I., 91f:93058
 Kaczorek, Tadeusz Singular models of 2-D systems. 91e:93040
 Keane, Michael *see* Olsder, G. J.; et al., 91b:93094
 Kitamori, Toshiyuki *see* Nobuyama, Eitaku; et al., 91j:93052
 Krogh, Bruce H. *see* Holloway, Lawrence E., (Not in MR)
 Lafortune, Stéphane (with Chen, Enke) The infimal closed controllable superlanguage and its application in supervisory control. 91c:93049
 Le Guernic, Paul *see* Benveniste, Albert, (Not in MR)
 Lewis, F. L. Computational geometry for design in singular systems. (see 91e:60029)
 — Geometric design techniques for observers in singular systems. (Not in MR)
 — (with Mertzios, B. G.) On the analysis of discrete linear time-invariant singular systems. 91h:93093
 Li, Yong* (with Wonham, W. Murray) Strict concurrency and nondeterministic control of discrete-event systems. 91a:93033
 Lychak, M. M. Digital control of distributed-parameter objects. 91f:93060
 Makarov, I. M. (with Nazaretov, V. M.; Chukhrov, I. P.; Agafonov, I. G.) The concept of network modeling of discrete systems. (Not in MR)
 Malabre, Michel *see* Bonilla, E. Moisés, 91g:93022
 Mertzios, B. G. *see* Lewis, F. L., 91h:93093 and Christodoulou, M. A., 91f:93059
 Mesquita, A. *see* Dias, R. J., (Not in MR)
 Nazaretov, V. M. *see* Makarov, I. M.; et al., (Not in MR)
 Nobuyama, Eitaku (with Shin, Seichi; Okubo, Shigenori; Kitamori, Toshiyuki) Bezout identities and common minor zeros of 2-D polynomial matrices, and applications to time-delay systems. 91j:93052
 Okubo, Shigenori *see* Nobuyama, Eitaku; et al., 91j:93052
 Olsder, G. J. (with Resing, J. A. C.; de Vries, R. E.; Keane, Michael; Hooghiemstra, G.) Discrete event systems with stochastic processing times. 91h:93094
 Özveren, Cüneyt M. (with Willsky, Alan S.) Aggregation and multi-level control in discrete event dynamic systems. (see 91f:93002)
 Pandolfi, L. Generalized control systems, boundary control systems, and delayed control systems. 91h:93095
 Pliss, I. P. *see* Bodianskii, E. V., (Not in MR)
 Qian, Feng (with Hua, Xiang Ming; Yu, Jin Shou) Optimal control of bilinear systems with time-delay and its applications to a distillation column. (Chinese summary) (Not in MR)
 Resing, J. A. C. *see* Olsder, G. J.; et al., 91b:93094
 Shin, Seichi *see* Nobuyama, Eitaku; et al., 91j:93052
 Tan, Hua Lin *see* Yang, Cheng Wu, (Not in MR) and (Not in MR)
 Ushio, Toshimitsu Modular feedbacks of discrete event systems with arbitrary control patterns. (Not in MR)
 — Feedback logic for discrete event systems with arbitrary control patterns. 91m:93074
 de Vries, R. E. *see* Olsder, G. J.; et al., 91b:93094
 Willsky, Alan S. *see* Özveren, Cüneyt M., (91f:93002)
 Wonham, W. Murray *see* Li, Yong*, 91a:93033
 Xu, Dong Ling (with Yang, Jian Bo) Design of controllers with H^∞ minimal sensitivity for singular systems. (Chinese. English summary) (Not in MR)
 Yang, Cheng Wu (with Tan, Hua Lin) Nondynamical variables in generalized systems. (Chinese. English summary) (Not in MR)
 — (with Tan, Hua Lin) Invertibility of generalized systems. (Chinese. English summary) (Not in MR)
 Yang, Jian Bo *see* Xu, Dong Ling, (Not in MR)
 Yu, Jin Shou *see* Qian, Feng; et al., (Not in MR)
- Items with secondary classifications in 93C30
 Adachi, Norihiko *see* Nishiohka, K.; et al., 91m:93066
 Aida-zade, K. R. Investigation of nonlinear optimization problems of network structure. 91f:60047
 Banaszuk, Andrzej (with Kocięcki, Maciej; Przyłuski, K. M.) Remarks on observability of implicit linear discrete-time systems. 91h:93019
 Belzer, Mitchell R. *see* Bierman, Gerald J.; et al., 91f:93099
 Bierman, Gerald J. (with Belzer, Mitchell R.; Vandergaaf, James S.; Porter, David W.) Maximum likelihood estimation using square root information filters. 91f:93099
 Bounabat, Abdellah (with Gauthier, Jean-Paul) Weak stabilizability of infinite-dimensional nonlinear systems. 91j:93087
 Brave, Y. (with Heymann, M.) Stabilization of discrete-event processes. (Not in MR)
 Chang, Fan Jén *see* Fang, Chün Hsiung, (Not in MR)
 Chiang, R. Y. *see* Safonov, Michael G.; et al., (Not in MR)
 Enaleev, A. K. (with Lavrov, Yu. G.) Optimal stimulation in an active system with a stochastic element. 91m:93059
 Fang, Chün Hsiung (with Chang, Fan Jén) A strongly observable and controllable realization of descriptor systems. (Not in MR)
 Feng, Chun Bo *see* Zheng, Wei Xin, (Not in MR)
 Feng, Weining On practical stability of linear multivariable feedback systems with time-delays. 91j:93068
 Gauthier, Jean-Paul *see* Bounabat, Abdellah, 91j:93087
 Gilling-Liersen, Helde Feedback canonical form for singular systems. 91f:93017
 Grodzki, Zdzisław Deterministic controlled shift-registers. 91h:94036
 Heymann, M. *see* Brave, Y., (Not in MR)
 Ibrahim, E. Y. (with Lovass-Nagy, V.; Mukundan, R.; Powers, David L.; Schilling, Robert J.) A note on optimal control of linear time-delay systems using descriptor-variable theory. 91j:49036
 Jasinski, Heinrich Numerische Verfahren zur Optimierung von Steuerungsaufgaben. (English and Russian summaries) [Numerical methods for the optimization of control problems] 91f:65115
 Kao, Chien Chung *see* Wang, Wen Chün; et al., 91m:93095
 Kappel, Franz (with Peichl, G.) Preservation of controllability under approximation for delay systems. (Portuguese summary) 91h:93008
 Kocięcki, Maciej *see* Banaszuk, Andrzej; et al., 91h:93019
 Kučera, Vladimír *see* Malabre, Michel; et al., (Not in MR)
 Lavrov, Yu. G. *see* Enaleev, A. K., 91m:93059
 Lebedev, A. L. *see* Zabello, L. E.; et al., 91e:93037
 Lebret, G. *see* Loiseau, J. J., 91h:93016
 Levashenko, V. G. *see* Yamshekevich, S. N.; et al., 91f:94005
 Limebeer, David J. N. *see* Safonov, Michael G.; et al., (Not in MR)
 Loiseau, J. J. (with Lebret, G.) A new canonical form for descriptor systems with outputs. 91h:93016
 Lovass-Nagy, V. *see* Ibrahim, E. Y.; et al., 91j:49036
 Malabre, Michel (with Kučera, Vladimír; Zagalak, Petr) Reachability and controllability indices for linear descriptor systems. (Not in MR)
 McClamroch, N. Harris Feedback stabilization of control systems described by a class of nonlinear differential-algebraic equations. 91e:93070
 Mitchell, Charles A. Optimal sampling design for parameter estimation and p -widths under stochastic and deterministic noise. 91h:93169
 Mukundan, R. *see* Ibrahim, E. Y.; et al., 91j:49036
 Nishiohka, K. (with Adachi, Norihiko; Takeuchi, K.) Simple pivoting algorithm for root-locus method of linear systems with delay. 91m:93066
 Opeiko, A. F. *see* Zabello, L. E.; et al., 91e:93037
 Özveren, Cüneyt M. (with Willsky, Alan S.) Observability of discrete event dynamic systems. 91h:93013
 Peichl, G. *see* Kappel, Franz, 91h:93008
 Porter, David W. *see* Bierman, Gerald J.; et al., 91f:93099
 Powers, David L. *see* Ibrahim, E. Y.; et al., 91j:49036
 Przyłuski, K. M. *see* Banaszuk, Andrzej; et al., 91h:93019
 Safonov, Michael G. (with Limebeer, David J. N.; Chiang, R. Y.) Erratum: "Simplifying the H^∞ theory via loop-shifting, matrix-pencil and descriptor concepts" [Internat. J. Control 50 (1989), no. 6, 2467-2488]. (Not in MR)
 Schilling, Robert J. *see* Ibrahim, E. Y.; et al., 91j:49036
 Shmerko, V. P. *see* Yamshekevich, S. N.; et al., 91f:94005
 Song, Cheng Chong *see* Wang, Wen Chün; et al., 91m:93095
 Stoyan, E. Yu. *see* Sviridov, V. V.; et al., 91c:90110
 Sviridov, V. V. (with Stoyan, E. Yu.; Yakovlev, S. V.) Mapping parametric geometric information in problems of observation and control. (Russian. English summary) 91c:90110
 Takeuchi, K. *see* Nishiohka, K.; et al., 91m:93066
 Tornambe, Antonio A feedback control law for nonlinear time lag systems. 91j:93044
 Ushio, Toshimitsu Maximally permissive feedback and modular control synthesis in Petri nets with external input places. 91f:93044
 Vandergaaf, James S. *see* Bierman, Gerald J.; et al., 91f:93099
 Wang, Wen Chün (with Song, Cheng Chong; Kao, Chien Chung) Robustness bounds for large-scale time-delay systems with structured and unstructured uncertainties. 91m:93095

- Willisky, Alan S. *see* Özyer, Cimey M., 91b:93013
 Yakovlev, S. V. *see* Sviridov, V. V.; et al., 91c:90110
 Yakupov, R. T. Optimum estimation of the states of stochastic discrete linear dynamic systems with time delays when there are unknown parameters. 91e:93087
 Yamsheverich, S. N. (with Levashenko, V. G.; Shmerko, V. P.) A matrix algorithm for solving Boolean differential equations on the basis of the discrete Fourier transform. (Russian) 91f:94005
 Zabello, L. E. Construction of optimal programmed controls for degenerate quadratic functionals in systems with delay. (Russian) *see* 91k:00025
 — (with Lebedev, A. L.; Opeiko, A. F.) Synthesis of optimal controllers in linear systems with time lags under incomplete information. 91e:93037
 — Optimality conditions in nonlinear inertial control systems with delay. 91k:49033
 Zagalak, Petr *see* Malahes, Michel; et al., (Not in MR)
 Zhang, Shou Yuan Generalized functional observer. (Not in MR)
 Zheng, Wei Xin (with Feng, Chun Bo) Optimizing search-based identification of stochastic time-delay systems. (Not in MR)

93C35 Multivariable, multidimensional systems

- Bongiorno, Joseph J., Jr. *see* Park, Kiheon, (Not in MR)
 Callier, Frank M. (with Winkin, Joseph) Spectral factorization and LQ-optimal regulation for multivariable distributed systems. 91h:93039
 Dacoutis, Prodromos (with Kravaris, Costas) Inversion and zero dynamics in nonlinear multivariable control. (Not in MR)
 Kravaris, Costas *see* Dacoutis, Prodromos, (Not in MR)
 Leithead, W. E. *see* O'Reilly, John, (Not in MR)
 Maadil, Petr On the arcane law in the adaptive control of Markov chains. *see* 91j:60003
 O'Reilly, John (with Leithead, W. E.) Multivariable control by "individual channel design". (Not in MR)
 Park, Kiheon (with Bongiorno, Joseph J., Jr.) Wiener-Hopf design of servo-regulator-type multivariable control systems including feedforward compensation. (Not in MR)
 Traasak, Z. Analysis of second-order multivariable linear systems. 91e:93041
 Winkin, Joseph *see* Callier, Frank M., 91h:93039

Items with secondary classifications in 93C35

- Aasaraai, A. *see* Fletcher, L. R., 91b:93092
 Bar-on, Jonathan R. (with Jonckheere, Edmond A.) Phase margins for multivariable control systems. (Not in MR)
 Bodson, Marc *see* de Mathelin, Michel, (Not in MR)
 Chai, Tian You A class of globally convergent multivariable self-tuning controllers. (Chinese. English summary) (Not in MR)
 Erovenko, L. D. Optimization of a dynamical system with multidimensional control. (Russian) 91h:49003
 Fayaz, M. A. (with Lamnabhi-Lagarigue, Françoise) On singular output tracking in multivariable nonlinear systems. 91g:93017
 Fletcher, L. R. (with Aasaraai, A.) On disturbance decoupling in descriptor systems. 91h:93092
 Galkowski, Krzysztof An a priori nonminimal state-space realization of n -D systems. 91m:93033
 Gu, Zhong Bi (with Wang, Zhen Xue) Adaptive control of multivariable time-varying systems. (Chinese. English summary) (Not in MR)
 Horiguchi, Kazumi (with Nishimura, Takuya; Nagata, Akira) A minimal lattice realization for multivariable systems. 91m:93034
 Hou, Daqing *see* Hsu, Chin Shui, (Not in MR)
 Hsu, Chin Shui (with Hou, Daqing) Decomposition of a multivariable continuous system with pure integrations. (Not in MR)
 Jonckheere, Edmond A. *see* Bar-on, Jonathan R., (Not in MR)
 Jury, E. I. *see* Premaratne, Kamal; et al., (Not in MR)
 Lamnabhi-Lagarigue, Françoise *see* Fayaz, M. A., 91g:93017
 Liu, Kang Zhi (with Mita, Tsutomu) Conjugation and H^∞ control of discrete time systems. 91d:93029
 Mansour, Mohamed *see* Premaratne, Kamal; et al., (Not in MR)
 de Mathelin, Michel (with Bodson, Marc) Frequency domain conditions for parameter convergence in multivariable recursive identification. (Not in MR)
 Mita, Tsutomu *see* Liu, Kang Zhi, 91d:93029
 Nagata, Akira *see* Horiguchi, Kazumi; et al., 91m:93034
 Nishimura, Takuya *see* Horiguchi, Kazumi; et al., 91m:93034
 Premaratne, Kamal (with Jury, E. I.; Mansour, Mohamed) Multivariable canonical forms for model reduction of 2-D discrete time systems. (Not in MR)
 Schlavoni, Nicola Further results on the design of multivariable regulators under structure and robustness constraints. (Not in MR)
 Sebakhy, O. A. State-space design of ripple-free deadbeat multivariable systems. 91h:93072
 Shimizu, Kiyotaka *see* Suzuki, Masakazu, 91c:93020
 Suzuki, Masakazu (with Shimizu, Kiyotaka) Analysis of distributed systems by array algebra. 91c:93020
 Wang, Zhen Xue *see* Gu, Zhong Bi, (Not in MR)

93C40 Adaptive control systems

- Ando, Kazuaki *see* Shin, Selich; et al., (Not in MR)
 Athans, Michael *see* Lamadre, Richard O.; et al., (Not in MR)
 Bahnasawi, Ahmed A. (with Eid, Shawk Z.; Mahmoud, Magdi S.) Adaptive model-following control based on variable structure systems. (Not in MR)
 Bar-Kana, Izhak (with Guez, Allon) Simple adaptive control for a class of nonlinear systems with application to robotics. (Not in MR)
 Benbouhane, H. *see* Stoten, D. P., (Not in MR)
 Bhattacharyya, Shankar Prasad *see* Moore, Kevin L.; et al., 91b:93099
 Berkar, Vivek S. The Kumar-Becker-Lin scheme revisited. 91f:93061

- Bublik, B. N. (with Krak, Yu. V.; Semenyuk, Yu. V.) On the formulation of equations of the motion of a manipulator in numerical-analytic form. (Russian. English summary) (Not in MR)
 Caldas Pinto, J. R. Two-dimensional minimum variance and self-tuning controllers. (Not in MR)
 Canudas de Wit, Carlos *see* Lozano Leal, Rogelio, (Not in MR)
 Casallas, G. (with Minciardi, R.) On equilibrium points of the variational adaptive control scheme. *see* 91g:00040
 Cetinkunt, Sahri (with Wu, Sijun) Output predictive adaptive control of a single-link flexible arm. (Not in MR)
 Chai, Tian You A class of globally convergent multivariable self-tuning controllers. (Chinese. English summary) (Not in MR)
 Chan, Chok You (with Sirisena, H. R.) Robustness of adaptive controller based on pole-zero placement. 91g:93023
 Chen, Han Fu *see* Guo, Lei, 91b:93096
 Ch'en, Po Hsien *see* Weng, Kuo Wen; et al., (Not in MR)
 Chen, Wen Liang *see* Weng, Kuo Wen; et al., (Not in MR)
 Chiang, Chiang-Cheng Adaptive control with optimal robust tracking. (Not in MR)
 — Novel approach to model reference adaptive control. (Not in MR)
 Collado, Joaquín *see* Lozano Leal, Rogelio; et al., 91h:93098
 Dahleh, Mohammed A. *see* Moore, Kevin L.; et al., 91h:93099
 Davison, Edward J. *see* Miller, Daniel E., 91m:93075
 Demircioglu, H. (with Gawthrop, P. J.) Continuous-time generalized predictive control (CGPC). 91j:93053
 Dion, Jean Michel (with Dugard, Luc; Nguyen Minh, T.) Quelques développements sur la commande adaptative multivariable. (English summary) [Some developments in the study of multivariate adaptive control] (Not in MR)
 Dugard, Luc *see* Dion, Jean Michel; et al., (Not in MR)
 Eid, Shawk Z. *see* Bahnasawi, Ahmed A.; et al., (Not in MR)
 Fairbairn, N. A. (with Grimble, Michael J.) H_∞ robust controller for self-tuning applications. III. Self-tuning controller implementation. (Not in MR)
 Feng, En Bo (with Yu, Jin Shou; Jiang, Wei Sun) New method for predictive controller design for bilinear systems. (Not in MR)
 Ferguson, Michael *see* Jalali, Ahmad, 91c:93050
 Fisher, D. Grant *see* La, Weiping; et al., (Not in MR)
 Fu, Li Ch'eng (with Sastry, S. Shankar) Frequency domain synthesis of optimal inputs for on-line identification and adaptive control. (Not in MR)
 Gaisin, O. A. *see* Vorchik, B. G., 91j:93054
 Gao, Ai Jun *see* Zhu, Yun Min, 91j:93055
 Gawthrop, P. J. *see* Demircioglu, H., 91j:93053
 Grimble, Michael J. *see* Fairbairn, N. A., (Not in MR)
 Gu, Xing Yuan (with Shao, Cheng) Self-tuning controllers which update parameters conditionally. (Chinese. English summary) 91a:93034
 Gu, Zhong Bi (with Wang, Zhen Xue) Adaptive control of multivariable time-varying systems. (Chinese. English summary) (Not in MR)
 Guez, Allon *see* Bar-Kana, Izhak, (Not in MR)
 Guo, Lei (with Chen, Han Fu) Robust stochastic adaptive control for nonminimum phase systems. 91b:93096
 — *see also* Meyn, Sean P., 91c:93051
 Hannu, Raymond *see* Peng, You Bin, (Not in MR)
 Hill, David J. *see* Wen, Changyun, 91h:93041
 Huang, Wen Hu *see* Xu, Xiao Hao; et al., (Not in MR)
 Ioannou, Petros A. (with Sung, Jing) Robust adaptive control: a unified approach. 91h:93097
 — Reply to: "Comments on the robust stability analysis of adaptive controllers using normalizations" [IEEE Trans. Automat. Control 34 (1989), no. 4, 478–479; MR 90e:93059] by P. P. Khargonekar and R. Ortega. (Not in MR)
 — *see also* Tao, Gang, 91m:93077 and Tsakalis, Kostas S., (Not in MR)
 Isidori, Alberto *see* Sastry, S. Shankar, 91h:93101
 Itamiya, Keisaku *see* Shin, Selich; et al., (Not in MR)
 Jalali, Ahmad (with Ferguson, Michael) Adaptive control of Markov chains with local updates. 91c:93050
 Jenček, Tomáš *see* Kárný, Miroslav; et al., (Not in MR)
 Jiang, Wei Sun *see* Feng, En Bo; et al., (Not in MR)
 Kárný, Miroslav (with Jenček, Tomáš; Ottenheimer, Werner) Contribution to prior tuning of LQG self-tuners. (Not in MR)
 (Khargonekar, Pramod P.) *see* Ioannou, Petros A., (Not in MR)
 Kolobov, M. G. Adaptive estimation of the state of a dynamic system under uncertainty conditions. 91k:93047
 Kostikov, V. S. (with Kurdyukov, A. P.) Design of a nonsearching self-adjusting system for a nonlinear plant. (Not in MR)
 Krak, Yu. V. *see* Bublik, B. N.; et al., (Not in MR)
 Krut'ko, P. D. New structures of adaptive algorithms for the control of automatic systems. (Not in MR)
 Kumar, P. R. Convergence of adaptive control schemes using least-squares parameter estimates. 91e:93042
 Kurdyukov, A. P. *see* Kostikov, V. S., (Not in MR)
 Lamadre, Richard O. (with Valavani, Lena; Athans, Michael; Stein, Gunter) A frequency-domain estimator for use in adaptive control systems. (Not in MR)
 Livneh, R. (with Slater, G. L.) Adaptive controller for wing flutter with unmeasurable excitations and unmodelled dynamics. (Not in MR)
 Lozano Leal, Rogelio (with Collado, Joaquín; Mondie, Sabine) Model reference robust adaptive control without a priori knowledge of the high frequency gain. 91h:93098
 — (with Canudas de Wit, Carlos) Passivity based adaptive control for mechanical manipulators using LS-type estimation. (Not in MR)
 La, Weiping (with Fisher, D. Grant; Shah, S. L.) Multirate constrained adaptive control. (Not in MR)
 Mahmoud, Magdi S. *see* Bahnasawi, Ahmed A.; et al., (Not in MR)
 Martínez-Estrella, A. *see* de la Sen, Manuel; et al., 91h:93048

- Meyn, Sean P. (with Guo, Lei) Stability, convergence and performance of an adaptive control algorithm applied to a randomly varying system. 91c:93051
- Michel, Anthony N. see Miller, Richard K. 91f:93062
- Miller, Daniel E. (with Davison, Edward J.) An adaptive controller which provides an arbitrarily good transient and steady-state response. 91m:93075
- Miller, Richard K. (with Michel, Anthony N.) An invariance theorem with applications to adaptive control. 91f:93062
- Minciardi, R. see Casalino, G. (91g:00040)
- Mondie, Sabine see Lozano Leal, Rogelio; et al., 91b:93098
- Moore, John Barratt see Tay, T. T., (Not in MR)
- Moore, Kevin L. (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Learning control for robotics. 91b:93099
- Morse, A. Stephen Towards a unified theory of parameter adaptive control: tunability. 91b:93040
- Nguyen Minh, T. see Dion, Jean Michel; et al., (Not in MR)
- Obieta, I. see de la Sen, Manuel; et al., 91k:93048
- Okmyanski, V. A. On the design of adaptive controllers using nonlinear relay-type elements. (Russian) 91m:93076
- (Ortega, Romeo) see Ioannou, Petros A., (Not in MR)
- Ottensmeyer, Werner see Kárány, Miroslav; et al., (Not in MR)
- Peng, You Bin (with Hanus, Raymond) A tuning strategy for generalized predictive control. (Not in MR)
- Polderman, J. W. ★ Adaptive control & identification: conflict or conflux? 91b:93100
- Pushkarev, A. D. (with Rodionov, V. D.) Optimization of the use of a computational resource in controlling a dynamical system. (Russian) (Not in MR)
- Putor, V. V. Adaptive systems with higher-order tuning algorithms in controlling nonlinear objects. (Russian) (Not in MR)
- Rodionov, V. D. see Pushkarev, A. D., (Not in MR)
- Sastry, S. Shankar (with Isidori, Alberto) Adaptive control of linearizable systems. 91b:93101
- see also Fu, Li Ch'eng, (Not in MR)
- Scotson, P. G. see Wellstead, P. E., (Not in MR)
- Semenyuk, Yu. V. see Bublik, B. N.; et al., (Not in MR)
- de la Sen, Manuel (with Martínez-Estano, A.; Obieta, I.) Stable adaptive control for not-necessarily stable discrete linear plants with bounded nonlinear inputs. 91k:93048
- Shah, S. L. see Lu, Weiping; et al., (Not in MR)
- Shao, Cheng see Gu, Xing Yuan, 91a:93034
- Shchesnyak, S. S. Design of optimal high-speed adaptive algorithms for multichannel processing of stationary signals. (Russian) (Not in MR)
- Shin, Seilchi (with Itamiya, Keietsu; Ando, Kazuaki) Practical hybrid adaptive control taking into consideration computational time. (Not in MR)
- Sirisen, H. R. see Chan, Chek Yau, 91g:93023
- Slater, G. L. see Lirneh, R., (Not in MR)
- Sokolov, V. F. An adaptive suboptimal control of a first-order linear object with limited noise in the object and the measurements. (Not in MR)
- Stavrakakis, George see Tzafestas, Spyros G., (Not in MR)
- Stein, Gunter see Lamalle, Richard O.; et al., (Not in MR)
- Stoten, D. P. (with Benbouhane, H.) Empirical studies of an MRAC algorithm with minimal controller synthesis. (Not in MR)
- Sung, Jing see Ioannou, Petros A., 91b:93097
- Tan, Yong Hong see Zhong, Mu Liang, (Not in MR)
- Tao, Gang (with Ioannou, Petros A.) Robust adaptive control of plants with unknown order and high frequency gain. 91m:93077
- Tay, T. T. (with Moore, John Barratt) Enhancement of fixed controllers via adaptive- Q disturbance estimate feedback. (Not in MR)
- Tsakalis, Kostas S. (with Ioannou, Petros A.) A new indirect adaptive control scheme for time-varying plants. (Not in MR)
- Trypin, Ya. Z. Nonminimum phase in discrete adaptive control systems. (Russian) 91b:93102
- Robust adaptive control systems. (Not in MR)
- Tzafestas, Spyros G. (with Stavrakakis, George) Model reference adaptive control of industrial robots with actuator dynamics. (Not in MR)
- Valavan, Lena see Lamalle, Richard O.; et al., (Not in MR)
- Van'kov, A. I. Adaptive control of a dynamical system with parametrically grouped forecasting of its state. (Not in MR)
- Vasil'ev, M. Ya. Synthesis of an adaptive control system using ellipsoidal estimation. 91c:93043
- Verehik, B. G. (with Gaisin, O. A.) Limit properties of an adaptive control system with identification (application of identifiability equations). II. A multiconnected control object. 91f:93054
- Wang, Hong★ Predictive identification, imaginary models and a self-tuning robust control system with pole assignment. (Chinese. English summary) 91d:93039
- Wang, Zhen Xue see Gu, Zhong Bi, (Not in MR)
- Wellstead, P. E. (with Scotson, P. G.) Self-tuning extremum control. (Not in MR)
- Wen, Changyun (with Hill, David J.) Adaptive linear control of nonlinear systems. 91b:93041
- Weng, Kuo Wen (with Ch'ên, Po Hsien; Chen, Wen Liang) Towards a link between the factorization approach and MIMO robust adaptive control. (Not in MR)
- Wittenmark, Björn Adaptive stability augmentation. (Not in MR)
- Wu, Sijun see Cetinkunt, Sabri, (Not in MR)
- Wu, Yao Hua² see Xu, Xiao Hao, (Not in MR) and (Not in MR)
- Xu, Xiao Hao (with Wu, Yao Hua²; Huang, Wen Hu) Decentralized adaptive control of large-scale discrete systems with unmodeled dynamics. (Chinese. English summary) (Not in MR)
- (with Wu, Yao Hua²) Decentralized adaptive control of a discrete large-scale system in the presence of bounded disturbances. (Chinese. English summary) (Not in MR)
- Yahagi, Takashi (with Yokomori, Masao) Model reference adaptive control of nonminimum-phase discrete-time systems using approximate inverse systems. (Not in MR)
- Yokomori, Masao see Yahagi, Takashi, (Not in MR)
- You, Da Hai Decentralized adaptive control of interconnected systems. (Chinese. English summary) (Not in MR)
- A robust adaptive control with partially measurable states. (Chinese. English summary) (Not in MR)
- Adaptive control of a decentralized structure. (Chinese. English summary) (Not in MR)
- Yu, Jin Shou see Feng, En Bo; et al., (Not in MR)
- Yung, I. B. Static sliding modes and their use for controlling nonlinear nonstationary objects. (Russian) 91f:93063
- Zhong, Mu Liang (with Tan, Yong Hong) Recursive long-range predictive self-tuning control and its application. (Chinese. English summary) (Not in MR)
- Zhu, Yan Min (with Gao, Ai Jun) ★ Necessary and sufficient conditions and robustness for convergence of adaptive filtering algorithms. 91j:93055
- Zubov, N. E. Algorithmic implementation of an automatic regime for orbital orientation of a spacecraft. (Not in MR)

Items with secondary classifications in 93C40

- Agrawal, Rajeev (with Teneketzis, Demosthenis; Anantharam, Venkatesh) Asymptotically efficient adaptive allocation schemes for controlled Markov chains: finite parameter space. 91c:93100
- Anantharam, Venkatesh see Agrawal, Rajeev; et al., 91c:93100
- Anderson, Brian D. O. (with Dasgupta, Soura; Khargonekar, Pramod P.; Kraus, Frantisek J.; Mansour, Mohamed) Robust strict positive realness: characterization and construction. 91a:93015
- (with Dasgupta, Soura; Khargonekar, Pramod P.; Kraus, Frantisek J.; Mansour, Mohamed) Robust strict positive realness: characterization and construction. 91b:93039
- Andrievskii, B. R. (with Stotskii, A. A.; Fradkov, A. L.) Velocity gradient algorithms in problems of control and adaptation. 91c:49001
- Baird, C. Robert see Xu, Hong Yue, 91g:93033
- Bar-Kana, Izhak Almost-passivity and simple adaptive control of nonstationary continuous linear systems. 91f:93088
- Bay, John S. (with Hemami, Hooshang) Dynamics of a learning controller for surface tracking robots on unknown surfaces. (Not in MR)
- Bayoumi, M. M. see Mo, L., 91i:93071
- Bittanti, Sergio (with Bolzern, Paolo; Campi, Marco) Recursive least-squares identification algorithms with incomplete excitation: convergence analysis and application to adaptive control. 91b:93070
- Bolzern, Paolo see Bittanti, Sergio; et al., 91b:93070
- Burton, Robert M., Jr. see Yang, Xue Shan; et al., 91b:93069
- Campi, Marco see Bittanti, Sergio; et al., 91b:93070
- Carrazo-Cadena, Rolando Nonparametric adaptive control of discounted stochastic systems with compact state space. 91b:93175
- Chai, Tian You Unification of some MIMO adaptive control algorithms and global convergence analysis. 91g:93016
- Chiang, Dalen T. see Gao, Xian Lin; et al., 91b:93067
- Coron, Jean-Michel see Pomet, J.-B.; et al., 91m:93079
- Dasgupta, Soura see Anderson, Brian D. O.; et al., 91a:93015 and 91i:93039
- Dion, Jean Michel see Giri, Fouad; et al., 91k:93080
- Dugard, Luc see Giri, Fouad; et al., 91k:93080
- Duncan, Tyrone E. (with Pasik-Duncan, Boženna) Some aspects of the adaptive control of stochastic evolution systems. 91b:93177
- Ékalo, Yu. V. see Timofeev, A. V., (Not in MR)
- Fradkov, A. L. see Andrievskii, B. R.; et al., 91c:49001
- Gao, Xian Lin (with Zhang, Yong Chuan; Chiang, Dalen T.) MRAS robust variable-structure control subject to constrained rate of change of control inputs. (Chinese. English summary) 91b:93067
- Gevens, Michel (with Goodwin, Graham C.; Wertz, Vincent) Continuous-time stochastic adaptive control. 91m:93153
- Giri, Fouad (with Dion, Jean Michel; Dugard, Luc; M'Saad, Mohamed) Parameter estimation aspects in adaptive control. 91k:93080
- Goodwin, Graham C. see Gevers, Michel; et al., 91m:93153
- Grimble, Michael J. Pole-zero cancellation problem in the convergence of explicit LQG self-tuning controllers. (Not in MR)
- Hanus, Raymond see Peng, You Bin, (91f:93002)
- Hejda, Ivan (with Veselý, Vojtech; Murgá, Ján) Decentralized adaptive control of partially known systems. (Russian summary) (Not in MR)
- Hemami, Hooshang see Bay, John S., (Not in MR)
- Huang, Chih Liang (with Lai, Kuang Chê) Minimax model reference adaptive control for a plant subject to unmodeled dynamics. (Chinese summary) (Not in MR)
- Józefczyk, Jerzy (with Kilanowski, Sławomir) An algorithm of adaptive control for some manipulators. (Russian and Polish summaries) (Not in MR)
- Kanellakopoulos, I. see Marino, Riccardo; et al., 91a:93026
- Kase, Wataru (with Tamura, Katsutoshi) Design of G -interactor and its application to direct multivariable adaptive control. (Not in MR)
- Khargonekar, Pramod P. see Anderson, Brian D. O.; et al., 91a:93015 and 91i:93039
- Kilanowski, Sławomir see Józefczyk, Jerzy, (Not in MR)
- Kokotović, P. V. see Marino, Riccardo; et al., 91a:93026
- Kozlov, Yu. M. ★ Адаптация и обучение в робототехнике. (Russian) [Adaptation and learning in robotics] 91d:93048
- Kraus, Frantisek J. see Anderson, Brian D. O.; et al., 91a:93015 and 91i:93039
- Lai, Kuang Chê see Huang, Chih Liang, (Not in MR)
- Lemos, J. M. (with Mendonça, T. F.; Mosca, E.) Long-range adaptive control with input constraints. (Not in MR)
- Lin, Wei² (with Wang, Yin Ping; Yong, Jiong Min) Unified adaptive control of non-minimum-phase systems. II. Target tracking and dynamic compensation. 91c:93079
- Mansour, Mohamed see Anderson, Brian D. O.; et al., 91a:93015 and 91i:93039
- Marino, Riccardo (with Kanellakopoulos, I.; Kokotović, P. V.) Adaptive tracking for feedback linearizable SISO systems. 91a:93026
- Adaptive observers for single output nonlinear systems. 91f:93014
- Mendonça, T. F. see Lemos, J. M.; et al., (Not in MR)

- Middleton, R. H. Adaptive control for robot manipulators using discrete time identification. (Not in MR)
- Miyazaki, Yoshikazu (with Tochinal, Koji; Nagai, Nobuo; Nagata, Kunichi) Adaptive identification of a modified ARMA lattice model. (Not in MR)
- Mo, L. (with Bayoumi, M. M.) Hybrid adaptive control for robot manipulators. 91h:93071
- Mohler, R. R. see Yang, Xue Shan; et al., 91h:93069
- Mosca, E. see Lemos, J. M.; et al., (Not in MR)
- M'Saad, Mohamed see Giri, Fouad; et al., 91h:93080
- Murgai, Ján see Hejda, Ivan; et al., (Not in MR)
- Nagai, Nobuo see Miyazaki, Yoshikazu; et al., (Not in MR)
- Nagata, Kunichi see Miyazaki, Yoshikazu; et al., (Not in MR)
- Paik-Duncan, Bezena see Duncan, Tyrone E., 91h:93177
- Peng, You Bin (with Hanus, Raymond) Pole placement via generalized predictive control. (see 91f:93002)
- Polyak, N. D. Time-optimality algorithms for searchless adaptation. (Russian) (Not in MR)
- Pomet, J.-B. (with Coron, Jean-Michel; Praly, L.) On periodic solutions of adaptive systems in the presence of periodic forcing terms. 91m:93079
- Poznyak, A. S. (with Tikhonov, S. N.) Extension of a class of nonlinear residual transformations in recursion algorithms for parametric estimation. 91j:93130
- Praly, L. see Pomet, J.-B.; et al., 91m:93079
- Stotskii, A. A. see Andrievskii, B. R.; et al., 91c:49001
- Tamura, Katsutoshi see Kase, Wataru, (Not in MR)
- Tenckezis, Demosthenis see Agrawal, Rajeev; et al., 91c:93100
- Tikhonov, S. N. see Poznyak, A. S., 91j:93130
- Timefer, A. V. (with Ekalo, Yu. V.) Methods for the digital adaptive control of complex systems. (Russian) (Not in MR)
- Tochinal, Koji see Miyazaki, Yoshikazu; et al., (Not in MR)
- Vesely, Vojtech see Hejda, Ivan; et al., (Not in MR)
- Wang, Le Yi (with Zames, George) Local-global double algebras for slow H^∞ adaptation. II. Optimization of stable plants. 91m:93054b
- see also Zames, George, 91m:93054a
- Wang, Wei¹ A multivariable robust adaptive controller using reduced-order model. 91h:93071
- Wang, Yin Ping see Lin, Wei; et al., 91c:93079
- Wertz, Vincent see Gevers, Michel; et al., 91m:93153
- Xu, Hong Yue (with Baird, C. Robert) An identification technique for adaptive systems in the case of poor excitation. 91g:93033
- Yang, Xue Shan (with Mohler, R. R.; Burton, Robert M., Jr.) Adaptive suboptimal filtering of bilinear systems. 91h:93069
- Yang, Jiong Min see Lin, Wei; et al., 91c:93079
- Zames, George (with Wang, Le Yi) Local-global double algebras for slow H^∞ adaptation. I. Inversion and stability. 91m:93054a
- see also Wang, Le Yi, 91m:93054b
- Zhang, Yong Chuan see Gao, Xian Lin; et al., 91h:93067
- Zhu, Xin Jie A finite spectrum unmixing set for $\mathcal{SC}^2(3, \mathcal{F})$. 91c:93021

93C41 Problems with incomplete information

- Balsakalov, I. B. On the principle of separation in a problem of control and observation under conditions of uncertainty. (Russian. Kazakh summary) 91h:93063
- Bugnon, F. J. On the convergence of guaranteed state observation. (Russian summary) 91j:93056
- Burovoi, I. A. see Emel'yanov, S. V.; et al., 91h:93049
- Degtyarev, A. G. A locally-optimal algorithm for automatic control of the motion of linear systems. 91f:93064
- Emel'yanov, S. V. (with Burovoi, I. A.; Volkov, V. L.) Application of the principle of induction of internal feedbacks in problems of the optimal control of indeterminate nonlinear dynamical systems. 91h:93049
- Hooghiemstra, G. see Resing, J. A. C.; et al., 91a:93035
- Hsu, Chieh Su see Sun, J.-Q., 91f:93066
- Keane, Michael see Resing, J. A. C.; et al., 91a:93035
- Korovin, S. K. (with Nersisyan, A. L.; Nisenzon, Yu. E.) Control of linear uncertain objects by the output. 91j:93057
- Kryzhinskii, A. V. (with Osipov, Yu. S.) Stable positional reconstruction of a control from measurements of some of the coordinates. (Russian) 91h:93064
- Mikhailov, A. V. Ellipsoids that contain the sum of a finite number of ellipsoids. (Russian) 91m:93078
- Nersisyan, A. L. see Korovin, S. K.; et al., 91j:93057
- Nisenzon, Yu. E. see Korovin, S. K.; et al., 91j:93057
- Ol'sder, G. J. see Resing, J. A. C.; et al., 91a:93035
- Osipov, Yu. S. see Kryzhinskii, A. V., 91j:93064
- Petrov, Yu. P. Guaranteed control in linear systems. (Not in MR)
- Resing, J. A. C. (with de Vries, R. E.; Hooghiemstra, G.; Keane, Michael; Ol'sder, G. J.) Asymptotic behavior of random discrete event systems. 91a:93035
- Saberi, Ali (with Sannuti, Peddapullai) Observer-based control of uncertain systems with nonlinear uncertainties. 91f:93065
- Sannuti, Peddapullai see Saberi, Ali, 91f:93065
- Silvergins, I. F. On a problem of guaranteed estimation of an initial state of a first-order evolution system under conditions of uncertainty. (Russian) 91j:93058
- Sun, J.-Q. (with Hsu, Chieh Su) Global analysis of nonlinear dynamical systems with fuzzy uncertainties by the cell mapping method. 91f:93066
- Volkov, V. L. see Emel'yanov, S. V.; et al., 91h:93049
- de Vries, R. E. see Resing, J. A. C.; et al., 91a:93035
- Warwick, Kevin see Zhu, Q.-M., (Not in MR)
- Zhu, Q.-M. (with Warwick, Kevin) Deadbeat controller for a class of nonlinear systems. (Not in MR)

Items with secondary classifications in 93C41

- Baranik, V. G. An adaptive estimate for control parameters of linear stochastic systems

- with incomplete description. (Russian) 91h:93094
- Breeden, Joseph L. (with Hübler, Alfred) Reconstructing equations of motion from experimental data with unobserved variables. 91g:58256
- Emel'yanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Stabilization of multidimensional indeterminate objects with respect to output. 91h:93060
- (with Korovin, S. K.; Nersisyan, A. L.) Stabilization of undetermined neutral objects by a regulator of variable structure. 91h:93062
- Fomenko, A. T. see Novoskii, G. V., 91g:92033
- Ga, Guoxiang Stabilizability conditions of multivariable uncertain systems via output feedback control. 91g:93028
- Hübner, Alfred see Breeden, Joseph L., 91g:58256
- Korovin, S. K. see Emel'yanov, S. V.; et al., 91h:93060 and 91h:93062
- Nersisyan, A. L. see Emel'yanov, S. V.; et al., 91h:93060 and 91h:93062
- Nisenzon, Yu. E. see Emel'yanov, S. V.; et al., 91h:93060
- Novoskii, G. V. (with Fomenko, A. T.) Some methods and results of the analysis of mixed sequences. (Russian) 91g:92033
- Pantelev, A. V. Optimal control of continuous-time deterministic systems with incomplete discrete feedback. 91a:49026
- Shorikov, A. F. Minimax identification for nonlinear multistage systems with incomplete information. (Russian) 91m:93047
- Spirak, A. K. Approximate synthesis of some stochastic systems with a small parameter. (Russian. Tajiki summary) 91h:93126
- Zehob, Ezra Necessary and sufficient conditions for robust stability of a continuous system—the continuous dependency case illustrated via multilinear dependency. 91d:93059

93C42 Fuzzy control

- Bozicevic, J. see Stipanovic, D., 91c:93052
- Buckley, James J. Fuzzy vs. nonfuzzy controllers. (Russian and Polish summaries) (Not in MR)
- Further results for the linear fuzzy controller. 91c:93044
- Fuzzy controller: further limit theorems for linear control rules. 91h:93042
- (with Ying, Hao) Linear fuzzy controller: it is a linear nonfuzzy controller. 91f:93065
- Gupta, Madan M. (with Qi, J.) Design of fuzzy logic controllers based on generalized T-operators. (Not in MR)
- see also Kiszka, J. B.; et al., 91d:93040
- Huang Tien Fuzzy reasoning: a fuzzy reasoning method for advanced control systems and expert systems. (Not in MR)
- Kiszka, J. B. (with Gupta, Madan M.; Trojan, G. M.) Multivariable fuzzy controller under Gödel's implication. 91d:93040
- Lee, Chuen Chien Fuzzy logic in control systems: fuzzy logic controller. I, II. 91d:93041
- Locke, M. Fuzzy modelling in expert systems for process control. 91j:93059
- Luo, An (with Xiong, Qiu Si) Fuzzy feedforward compensation and its application. (Chinese. English summary) (Not in MR)
- Plskunov, A. I. Interpolative fuzzy algorithms. (Not in MR)
- Qi, J. see Gupta, Madan M., (Not in MR)
- Shi, Kai Quan A(6) matrices and their grey characteristics. 91h:93043
- Stipanovic, D. (with Bozicevic, J.) Fuzzy set theory application for feedforward control of ill-defined processes. 91c:93052
- Trojan, G. M. see Kiszka, J. B.; et al., 91d:93040
- Wang, Pei Zhuang (with Zhang, Hong Min; Xu, Wei) Pad-analysis of fuzzy control stability. 91j:93060
- Xiong, Qiu Si see Luo, An, (Not in MR)
- Xu, Cheng Wei Analysis and feedback/feedforward control of fuzzy relational systems. 91c:93045
- Xu, Wei see Wang, Pei Zhuang; et al., 91j:93060
- Ying, Hao see Buckley, James J., 91f:93065
- Zhang, Hong Min see Wang, Pei Zhuang; et al., 91j:93060

Items with secondary classifications in 93C42

- Cao, Zhi Qiang see Kandel, Abraham; et al., 91m:93006
- Di Nola, Antonio (with Pedrycz, Witold; Sessa, Salvatore) An aspect of discrepancy in the implementation of modus ponens in the presence of fuzzy quantities. 91g:03056
- Huang Tien Theoretical foundation: a fuzzy reasoning method for advanced control systems and expert systems. 91c:93002
- Kandel, Abraham (with Peng, Xian Tu; Cao, Zhi Qiang; Wang, Pei Zhuang) Representation of concepts by factor spaces. 91m:93006
- Liu, Hong Tao see Yu, Chang Guan, 91c:93030
- Pedrycz, Witold see Di Nola, Antonio; et al., 91g:03056
- Peng, Xian Tu see Kandel, Abraham; et al., 91m:93006
- Sessa, Salvatore see Di Nola, Antonio; et al., 91g:03056
- Wang, Pei Zhuang see Kandel, Abraham; et al., 91m:93006
- Xu, Li D. Linguistic approach to the multi-criteria ranking problem. 91f:90068
- Yu, Chang Guan (with Liu, Hong Tao) A new method for fuzzy model parameters in linear identification. (Chinese. English summary) 91c:93030

93C45 Time-invariant

- Nie, Jun Hong A fuzzy control algorithm developed on the basis of pattern matching. (Chinese. English summary) 91h:93050

93C50 Time-dependent

- Wang, Wei Ping New approach to analysis and optimal control of time-varying systems via Taylor series. (Not in MR)

Items with secondary classifications in 93C50

- Andrievskii, B. R. (with Stotskii, A. A.; Fradkov, A. L.) Velocity gradient algorithms in problems of control and adaptation. 91c:49001

Feintuch, Avraham Stabilization and sensitivity for eventually time-invariant systems. 91a:93051

Frakov, A. L. *see* Andrievskii, B. R.; et al., 91c:49001

Ilchmann, Achim Time-varying linear control systems: a geometric approach. 91a:93018

Niedzwiecki, Maciej Recursive functional series modeling estimators for identification of time-varying plants—more bad news than good? 91b:93170

Stotskii, A. A. *see* Andrievskii, B. R.; et al., 91c:49001

Warga, Jack Local and global directional controllability: sufficient conditions and examples. 91a:93003

Zhong, Yi Lin Applications of stability theory of interval matrices to stability of time-varying systems. (Chinese. English summary) 91a:93043

93C55 Discrete-time

Aletnikova, Z. M. Necessary conditions for second-order optimality of singular controls in nonlinear discrete systems with control delay. (Russian) 91b:93103

Al-Mazzei, Moosa M. An optimal reduced-order model by discrete orthogonal state variables. (Not in MR)

Al-Rahmani, Hamed M. (with Franklin, Gene F.) A new optimal multirate control of linear periodic and time-invariant systems. 91c:93046

Al-Saggaf, Ubaid M. Approximation of discrete linear systems based on a dual criterion. 91j:93061

Anderson, W. N., Jr. (with Morley, T. D.; Trapp, G. E.) Infinite networks and quadratic optimal control. 91b:93104

Astrov, I. State equations for two-rate multivariable discrete-time systems. (Russian. English and Estonian summaries) 91b:93105

Banaszuk, Andrzej (with Kocięcki, Maciej; Przyłuski, K. M.) Kalman-type decomposition for implicit linear discrete-time systems, and its applications. 91b:93044

— (with Kocięcki, Maciej; Przyłuski, K. M.) Implicit linear discrete-time systems. 91c:93053

— (with Kocięcki, Maciej; Przyłuski, K. M.) The disturbance decoupling problem for implicit linear discrete-time systems. 91b:93045

Basar, Tamer A dynamic games approach to controller design: disturbance rejection in discrete time. 91c:93054

Basu, Sankar On the synthesis of a class of 2-D acausal lossless digital filters. 91b:93067

Benzaouia, Abdellah *see* Burgat, Christian; et al., 91c:93047

Beziat, Jean-Paul *see* Hennet, Jean-Claude; (Not in MR)

Bisacco, Mauro (with Fornasini, Ettore) Optimal control of two-dimensional systems. (Not in MR)

Bongers, Peter M. M. (with Heuberger, Peter S. C.) Discrete normalized coprime factorization. 91f:93066

Brú, Rafael *see* Coll, C.; et al., (91j:00015)

Burgat, Christian (with Benzaouia, Abdellah; Tarbouriech, S.) Positively invariant sets of discrete-time systems with constrained inputs. 91c:93047

Campbell, Stephen L. Comments on 2-D descriptor systems. (Not in MR)

(Cao, Qing Jie) *see* Huang, Li Min; (Not in MR)

Chang, Fan Jen (with Fang, Chin Hsiung) Optimal solution for discrete systems via spectral factorization. (Chinese summary) (Not in MR)

Chikrii, A. A. (with Khomina, A. V.) Discrete conflict-controllable systems with variable structure. (Russian) (Not in MR)

Coll, C. (with Brú, Rafael; Hernández, Vicente G.) Nonnegative stabilizability of discrete dynamical linear systems. (Spanish) (see 91j:00015)

Coron, Jean-Michel *see* Pomet, J.-B.; et al., 91m:93079

Damborg, M. J. *see* Smaier, M.; (Not in MR)

Dasgupta, Soura (with Shrivastava, Yash; Krenzer, George) Persistent excitation in bilinear systems. 91k:93051

Diniz, Paulo S. R. *see* Sarcinelli F., Mario; (Not in MR)

Fang, Chin Hsiung *see* Chang, Fan Jen; (Not in MR)

Fang, Hua Jing (with Tu, Jian) An algorithm for l^1 optimal design of discrete systems. (Chinese. English summary) (Not in MR)

Fornasini, Ettore *see* Bisacco, Mauro; (Not in MR)

Fountain, D. W. *see* Lewis, F. L.; (Not in MR)

Franklin, Gene F. *see* Al-Rahmani, Hamed M.; 91c:93046

Glover, Keith *see* Iglesias, P. A.; et al.; (Not in MR)

Gorelov, Yu. I. *see* Vasil'ev, V. I.; et al.; (Not in MR)

Hejda, Ivan (with Veselý, Vojtech; Murgá, Ján) Decentralized adaptive control of partially known systems. (Russian summary) (Not in MR)

Hennet, Jean-Claude (with Beziat, Jean-Paul) A class of invariant regulators for the discrete-time linear constrained regulation problem. (Not in MR)

Hernández, Vicente G. *see* Coll, C.; et al.; (91j:00015)

Heuberger, Peter S. C. *see* Bongers, Peter M. M.; 91f:93066

Hippe, P. (with Wurmthaler, Ch.) Optimal reduced-order estimators in the frequency domain: the discrete-time case. (Not in MR)

Hong, Yi (with Tong, Tiao Sheng) An augmented control for delay compensation. (Chinese. English summary) (Not in MR)

Hsieh, Chen (with Skelton, Robert E.) All covariance controllers for linear discrete-time systems. 91d:93042

Huang, Ch'yi (with Shyu, Kuo Kai) Direct method for optimal control of discrete time-varying systems. 91k:93052

Huang, Li Min Comment: "The partial stability for linear discrete systems" [J. Math. Res. Exposition 9 (1989), no. 4, 541–544; MR 91d:39001] by Q. J. Cao. (Chinese) (Not in MR)

Iglesias, P. A. (with Mustafa, D.; Glover, Keith) Discrete time \mathcal{H}_∞ controllers satisfying a minimum entropy criterion. (Not in MR)

Johns, David A. (with Snelgrove, W. Martin; Sedra, Adel S.) Adaptive recursive state-space filters using a gradient-based algorithm. (Not in MR)

Kalashnikov, V. V. (with Kalashnikova, N. I.) Optimal control of internal accuracy in a two-layer iterative process. (Russian) 91d:93043

Kalashnikova, N. I. *see* Kalashnikov, V. V.; 91d:93043

Katsyama, Tetsu Solutions to Wiener filtering and stationary LQG problem via H_2 control theory. II. Discrete-time system. (Not in MR)

Kern, Günter (with Przyłuski, K. Maciej) On perturbations of linear controllable infinite-dimensional time-varying discrete-time systems. 91f:93067

Khargonekar, Pramod P. *see* Ravi, R.; et al.; (Not in MR)

Khomin, A. V. *see* Chikrii, A. A.; (Not in MR)

Kinnaert, Michel (with Peng, You Bin) Discrete-time LQG/LTR technique for systems with time delays. 91k:93053

Kipnis, M. M. Phase portraits of pulse-width systems. (Not in MR)

Kocięcki, Maciej *see* Banaszuk, Andrzej; et al., 91c:93053; 91b:93044 and 91b:93045

Kono, Michio (with Suzuki, Tatsuo; Morishita, Takashi) Block decoupling of linear w -periodic discrete-time systems. 91b:93046

Korshunov, A. I. Robustness of pulse-width systems that are corrected by the compensation method of zeros and poles of the continuous part. (Not in MR)

Kotta, Ülle Approximate input-output linearization of discrete-time nonlinear systems. (Russian summary) 91c:93055

Kouvaritakis, B. *see* Rossiter, J. A.; (Not in MR)

Krenzer, George *see* Dasgupta, Soura; et al., 91k:93051

K'ung, Fan Ch'ü *see* Shên, Chin Chung; (Not in MR)

Koznetsov, V. I. Discrete linear systems with slowly changing parameters. 91c:93048

Lewis, F. L. (with Fountain, D. W.) Walsh function analysis of linear and bilinear discrete time systems. (Not in MR)

Li, Yong² *see* Ushio, Toshimitsu; et al., 91a:93036

Lim, T. C. *see* Soh, C. B.; et al., 91f:93068

Lim, Y. H. *see* Soh, C. B.; et al., 91f:93068

Liu, Bao Kun (with Pang, Tong Hui) Optimal control with preview actions. (Chinese. English summary) (Not in MR)

Liu, Yong Tan (with Quan, Tai Fan) A method for improving the number of tracking targets. (Chinese. English summary) (Not in MR)

Lychak, M. M. Mathematical models of the process of digital control of a dynamic object. (Russian) (Not in MR)

Mansimov, K. B. Optimization of a class of discrete two-parameter systems. (Russian) (Not in MR)

Minto, K. D. *see* Ravi, R.; et al.; (Not in MR)

Morishita, Takashi *see* Kono, Michio; et al., 91b:93046

Morley, T. D. *see* Anderson, W. N., Jr.; et al., 91b:93104

Murgá, Ján *see* Hejda, Ivan; et al.; (Not in MR)

Mustafa, D. *see* Iglesias, P. A.; et al.; (Not in MR)

Nett, Carl N. *see* Ravi, R.; et al.; (Not in MR)

Pang, Tong Hui *see* Liu, Bao Kun; (Not in MR)

Peng, You Bin *see* Kinnaert, Michel; 91k:93053

Pomet, J.-B. (with Coron, Jean-Michel; Praly, L.) On periodic solutions of adaptive systems in the presence of periodic forcing terms. 91m:93079

Praly, L. *see* Pomet, J.-B.; et al., 91m:93079

Przyłuski, K. Maciej *see* Kern, Günter; 91f:93067

Przyłuski, K. M. *see* Banaszuk, Andrzej; et al., 91c:93053; 91b:93044 and 91b:93045

Pugh, A. C. *see* Spurgeon, S. K.; (Not in MR)

Quan, Tai Fan *see* Liu, Yong Tan; (Not in MR)

Ramadge, Peter J. On the periodicity of symbolic observations of piecewise smooth discrete-time systems. 91k:93068

Ravi, R. (with Khargonekar, Pramod P.; Minto, K. D.; Nett, Carl N.) Controller parametrization for time-varying multirate plants. (Not in MR)

Rossiter, J. A. (with Kouvaritakis, B.) Causal eigenvector function approximations and the problem of scaling: an algorithm. (Not in MR)

Sarcinelli F., Mario (with Diniz, Paulo S. R.) Tridiagonal state-space digital-filter structures. (Not in MR)

Sedra, Adel S. *see* Johns, David A.; et al.; (Not in MR)

Shaked, U. *see* Yaesh, I.; (Not in MR)

Shamma, Jeff S. Nonlinear time-varying compensation for simultaneous performance. (Not in MR)

Shên, Chin Chung (with K'ung, Fan Ch'ü) Robust stability bounds for discrete optimal quadratic control designs. (Not in MR)

Shrivastava, Yash *see* Dasgupta, Soura; et al., 91k:93051

Shyu, Kuo Kai *see* Huang, Ch'yi; 91k:93052

Skelton, Robert E. *see* Hsieh, Chen; 91d:93042

Snelgrove, W. Martin *see* Johns, David A.; et al.; (Not in MR)

Soh, C. B. (with Lim, Y. H.; Lim, T. C.) Damping ratio of linear uncertain discrete-time systems. 91f:93068

Spurgeon, S. K. (with Pugh, A. C.) On output deadbeat control of discrete-time multivariable systems. (Not in MR)

Sugisaka, Masanori (with Sugiura, Keigo) One-step-ahead control for a second-order discrete-time system. (Japanese. English summary) (Not in MR)

Sugiura, Keigo *see* Sugisaka, Masanori; (Not in MR)

Suzuki, Tatsuo *see* Kono, Michio; et al., 91b:93046

Szmaier, M. (with Damborg, M. J.) Heuristically enhanced feedback control of constrained discrete-time linear systems. (Not in MR)

Tarbouriech, S. *see* Burgat, Christian; et al., 91c:93047

Tomizuka, Masayoshi *see* Yang, Wei-Chi; 91f:93069

Tong, Tiao Sheng *see* Hong, Yi; (Not in MR)

Trapp, G. E. *see* Anderson, W. N., Jr.; et al., 91b:93104

Tu, Jian *see* Fang, Hua Jing; (Not in MR)

Ushio, Toshimitsu (with Li, Yong²; Wonham, W. Murray) Basis feedback, weak interaction, and concurrent well-posedness in concurrent discrete-event systems. 91a:93036

Usmanov, Z. D. *see* Vasil'ev, V. I.; et al.; (Not in MR)

Vasil'ev, V. I. (with Gorelov, Yu. I.; Usmanov, Z. D.) Synthesis of a suboptimal simulation control under noise conditions. (Russian) (Not in MR)

Vesely, Vojtech *see* Hejda, Ivan; et al.; (Not in MR)

Volchenko, Yu. M. Conditions for the optimality of a discrete process that can be modeled by a circuit-free digraph. (Russian) (see 91e:00019)

- Wang, Long (with Zheng, Da Zhong) Identification of linear discrete event dynamical systems. (Chinese. English summary) **91c:93049**
- Wang, Mei Sheng State equations for a class of discrete event dynamical systems. (Chinese. English summary) (Not in MR)
- Wei, Shao Ming Using modulo-matrices to solve optimal periodic control problems for discrete processes. (Chinese. English summary) (Not in MR)
- Wonham, W. Murray see Ushio, Toshimitsu; et al., **91a:93036**
- Wurmthaler, Ch. see Hippe, P., (Not in MR)
- Yaesh, I. (with Shaked, U.) Minimum H_∞ -norm regulation of linear discrete-time systems and its relation to linear quadratic discrete games. (Not in MR)
- Yang, Wei-Chi (with Tomizuka, Masayoshi) Discrete time robust control via state feedback for single input systems. **91f:93069**
- Yang, Zi Hou (with Zhang, Hou Qi) A frequency domain method for a "linear" discrete event dynamical system. (Chinese. English summary) (Not in MR)
- Zhang, Hou Qi see Yang, Zi Hou, (Not in MR)
- Zheng, Da Zhong see Wang, Long, **91c:93049**
- Zhu, Wen Hua An applied cell mapping method for optimal control problems. **91b:93106**
- Zou, Yun Necessary and sufficient tests for separability of N -dimensional systems. (Chinese. English summary) (Not in MR)
- Items with secondary classifications in 93C55
- Al-Fuhaid, A. S. see Bahnasawi, Ahmed A.; et al., **91b:93116**
- Ali, Wahied G. see Aly, Gamal M., (Not in MR)
- Altman, E. F. see Gurelik, V. A., **91m:49026**
- Aly, Gamal M. (with Ali, Wahied G.) Digital design of variable structure control systems. (Not in MR)
- Amanov, B. I. (with Shiryayev, V. I.) The choice of the worst signals in multistep problems of guaranteed estimation. (Russian) **91k:93032**
- Anderson, Brian D. O. see Matsumoto, Naoki; et al., **91c:93013**
- Andreva, E. A. Necessary and sufficient conditions for optimality in the case of discrete controlled processes. **91c:49029**
- Andrisani, Dominick, II see Gleason, Daniel, (Not in MR)
- Aoki, Masanao Optimization of stochastic systems. **91b:90003**
- Aoyama, Tomohiko see Kando, Hisashi; et al., (Not in MR)
- Averkh, I. L. An additive method for optimization of two-stage stochastic systems with discrete variables. **91k:93092**
- Bahnasawi, Ahmed A. (with Al-Fuhaid, A. S.; Mahmoud, Magdi S.) A new hierarchical control structure for a class of uncertain discrete systems. **91b:93116**
- Banaszuk, Andrzej (with Kociński, Maciej; Przyłuski, K. M.) Remarks on observability of implicit linear discrete-time systems. **91b:93019**
- Barabanov, A. E. Optimal control of a linear discrete dynamical object with an averaged quality functional. **91f:49037**
- Barbot, J.-P. A forward accessibility algorithm for nonlinear discrete time systems. **91c:93015**
- Belokopytov, S. V. see Dmitriev, M. G.; et al., **91d:49029**
- Bertsekas, Dimitri P. see Dunn, J. C., **91a:49022**
- Bily, Barbara Determination of the optimal control for a system of Rössler type. (Polish. English summary) **91d:49038**
- Bianchini, Franco Control synthesis for discrete time systems with control and state bounds in the presence of disturbances. (Not in MR)
- Brown, David P. Overflow stability of N -order state space digital filters. **91h:93067**
- Bukhrovostov, D. Yu. (with Ivanov, A. I.) The set of realizations of a linear digital system. (Not in MR)
- Bullock, Thomas E. see Sangsuk-Iam, Sowanchai, **91j:93110**
- Burev, D. D. Optimal stabilization of discrete nonlinear objects of higher order. **91a:65166**
- Cao, Qing Jie The partial stability for linear discrete systems. **91d:39001**
- (Carroll, Robert L.) see Kara, A. A., (Not in MR)
- Cavazos-Cadena, Rolando Nonparametric adaptive control of discounted stochastic systems with compact state space. **91b:93175**
- Chang, Fan Jén see Fang, Chün Hsiung, **91j:11114**
- Chang, Jun Hua Robust finite settling time stabilization of discrete time system with structured uncertainty. **91k:93072**
- Chang, Sung Kag Galerkin approximations for discrete-time quadratic controls of hyperbolic systems. **91m:65247**
- Chen, Enke see LaFortune, Stéphane, **91c:93049**
- Chen, Zong Ji The exponential stability of nonautonomous difference equations for adaptive control. (Chinese summary) (Not in MR)
- Robustness analysis of a discrete time model reference adaptive control scheme with respect to modeling errors. (Chinese. English summary) **91f:93035**
- Chikrii, A. A. see Kilmenko, E. V.; et al., **91b:93159**
- Christensen, G. S. (with Soliman, S. A.) Optimal filtering of linear discrete dynamic systems based on least absolute value approximations. **91c:93072**
- Clement, Thierry (with Gentil, Sylviane) Recursive membership set estimation for output-error models. **91m:93119**
- Colaneri, Patrizio Zero-error regulation of discrete-time linear periodic systems. (Not in MR)
- Conte, Giuseppe (with Perdon, A.-M.; Longhi, S.) Zero structures at infinity of linear periodic systems. **91m:93039**
- da Cruz, J. J. (with Geromel, J. C.) Frequency-domain approach to the absolute stability analysis of discrete-time linear-quadratic regulators. **91f:93086**
- Darkhovskii, B. S. see Gleizer, R. G., **91f:93072**
- Delchamps, David F. Stabilizing a linear system with quantized state feedback. **91c:93068**
- Di Massi, Giovanni B. (with Runggaldier, Wolfgang J.) An adaptive linear approach to nonlinear filtering. **91j:93105**
- (with Runggaldier, Wolfgang J.) On approximations for dynamic programs. (see **91f:90007**)
- Dion, Jean Michel (with Dugard, Luc; Nguyen Minh, T.) Quelques développements sur la commande adaptative multivariable. (English summary) [Some developments in the study of multivariate adaptive control] (Not in MR)
- see also Giri, Fouad; et al., **91d:93051**
- Dmitriev, M. G. (with Belokopytov, S. V.; Gaipov, M. A.) Asymptotic behavior of the solution of a nonlinear discrete optimal control problem with a small step without constraints on the control (justification). II. (Russian. English summary) **91d:49029**
- Dugard, Luc see Giri, Fouad; et al., **91d:93051** and Dion, Jean Michel; et al., (Not in MR)
- Dunn, J. C. (with Bertsekas, Dimitri P.) Efficient dynamic programming implementations of Newton's method for unconstrained optimal control problems. **91a:49022**
- Elsayed, Ahmed see Grimbé, Michael J., **91c:93090**
- Engwerda, Jacob Chr. Stabilizability and detectability of discrete-time time-varying systems. (Not in MR)
- Fang, Chün Hsiung (with Chang, Fan Jén) A novel approach for solving Diophantine equations. **91j:11114**
- Fanti, M. P. (with Maione, B.; Turchiano, B.) Controllability of multi-input positive discrete-time systems. (Not in MR)
- Feng, Chun Bo see Wang, Zi Qin; et al., **91c:90046**
- Ferrante, Marco (with Runggaldier, Wolfgang J.) On necessary conditions for the existence of finite-dimensional filters in discrete time. **91c:93089**
- Folomeev, A. A. see Moroz, A. I., **(91k:00023)**
- Gaipov, M. A. Asymptotic behavior of the solution of a nonlinear discrete optimal control problem with a small step without constraints on the control (formalism). I. (Russian. English summary) **91d:49028**
- see also Dmitriev, M. G.; et al., **91d:49029**
- Garnaev, A. Yu. (with Sedych, L. G.) A discrete game on a plane with an information delay. (Russian) **91i:90100**
- Gentil, Sylviane see Clement, Thierry, **91m:93119**
- Geromel, J. C. see da Cruz, J. J., **91f:93086**
- Giri, Fouad (with Dion, Jean Michel; Dugard, Luc; M'Saad, Mohamed) Quelques résultats de stabilité robuste en commande adaptative. (English summary) [Some robust stability results in adaptive control] **91d:93051**
- Gleason, Daniel (with Andrisani, Dominick, II) Observer design for discrete systems with unknown exogenous inputs. (Not in MR)
- Gleizer, R. G. (with Darkhovskii, B. S.) Locally optimal control of a class of chemical reactors. **91f:93072**
- Goh, C. J. see Teo, Kok Lay; et al., **91k:49049**
- Goodwin, Graham C. see Vijayan, Rajiv; et al., **91m:93124**
- Gurelik, V. A. (with Alutina, E. F.) Discrete dynamic multicriterial problems. (Russian) **91m:49026**
- Granichin, O. N. Construction of a suboptimal controller of a linear object with limited noise. (Not in MR)
- Grębicki, Włodzimierz (with Pawlak, Mirosław) Nonparametric identification of Hammerstein systems. **91c:93095**
- Green, Michael see Limebeer, David J. N.; et al., **91d:93028**
- Grimbe, Michael J. (with Elsayed, Ahmed) Solution of the H_∞ optimal linear filtering problem for discrete-time systems. **91c:93090**
- Grizzle, J. W. (with Moraal, P. E.) On observers for smooth nonlinear digital systems. **91f:93022**
- Gu, Xing Yuan (with Shao, Cheng) Self-tuning controllers which update parameters conditionally. (Chinese. English summary) **91a:93034**
- Han, Qing Long (with Wu, Qi Bin) Stability robustness analysis of discrete linear systems. **91j:93076**
- Hinrichsen, D. (with Nguyễn Khoa So'n) The complex stability radius of discrete-time systems and symplectic pencils. **91c:39005**
- Horiguchi, Kazumi (with Nishimura, Takuya; Nagata, Akira) Minimal realizations interpolating first- and second-order information. **91c:93016**
- Inaba, Hiroshi (with Ito, Naoharu; Munaka, Tatsuji) Decoupling and pole assignment for linear systems defined over principal ideal domains. **91b:93076**
- Ito, Naoharu see Inaba, Hiroshi; et al., **91b:93076**
- Ivanov, A. I. see Bukhrovostov, D. Yu., (Not in MR)
- Iwazumi, Tetsuo see Kando, Hisashi; et al., (Not in MR)
- Jakubczyk, Bronisław (with Sontag, Eduardo D.) Controllability of nonlinear discrete-time systems: a Lie-algebraic approach. **91m:93002a**
- (with Sontag, Eduardo D.) Erratum: "Controllability of nonlinear discrete-time systems: a Lie-algebraic approach". **91m:93002b**
- James, D. J. G. see Rumchev, Ventseslav G., **91d:15039**
- Jury, E. I. see Premaratne, Kamak; et al., **91c:93051** and (Not in MR)
- Kaczorek, Tadeusz Singular models of 2-D systems. **91c:93040**
- (with Swierkosz, M.) Solution to the 2-D eigenvalue assignment problem. **91b:93079**
- Kando, Hisashi (with Aoyama, Tomohiko; Iwazumi, Tetsuo) Observer design of singularly perturbed discrete systems via time-scale decomposition approach. (Not in MR)
- Kara, A. A. (with Ünver, Z.) Comments on: "A Lyapunov function of two-dimensional linear systems" [IEEE Trans. Automat. Control **31** (1986), no. 2, 170–172; MR **87d:93066**] by H. Mahgoub and R. L. Carroll. (Not in MR)
- Kas'yanov, V. A. Conditional filtering of discrete random processes. (Not in MR)
- Kawase, Shin (with Yanagihara, Niro) Moduli spaces and global canonical forms of discrete time linear systems in Hilbert spaces. **91b:93015**
- Kilmenko, E. V. (with Skopetski, V. V.; Chikrii, A. A.) A game problem of group pursuit of an object. **91b:93159**
- Kociński, Maciej see Banaszuk, Andrzej; et al., **91b:93019**
- Kotta, Ülle Decomposition of nonlinear discrete controlled systems. (Not in MR)
- Design of nonlinear systems with discrete time that are invariant with respect to perturbations. (Not in MR)
- Model matching of linear-analytic discrete-time systems via dynamic state feedback. (Russian and Estonian summaries) **91m:93036**
- Kozynkin, V. S. Algebraic unsolvability of a problem on the absolute stability of desynchronized systems. **91c:93065**
- Absolute stability of discrete desynchronized systems. **91m:93083**
- Kurek, Jerry E. Genericness of solution to N -dimensional polynomial matrix equation $XA = I$. **91d:93020**
- LaFortune, Stéphane (with Chen, Enke) The infimal closed controllable superlanguage and its application in supervisory control. **91c:93049**
- Lanmanová, Monika On asymptotic inequalities in discrete time controlled linear systems.

- 91k:93179
 Lebedev, A. L. Problems of ideal observation of certain classes of discrete systems. 91m:93025
 Lee, E. Bruce *see* Lu, Wu Sheng, 91a:94003
 Lewis, F. L. (with Mertzios, B. G.) On the analysis of discrete linear time-invariant singular systems. 91b:93093
 Lie, M. A. *see* Rosen, I. G., 91k:93035
 Limebeer, David J. N. (with Green, Michael; Walker, Daniel James) Discrete time H^∞ control. 91d:93028
 Lin, Feng (with Wonham, W. Murray) Decentralized control and coordination of discrete-event systems with partial observation. 91m:93010
 Lin, Wei² (with Wang, Yin Ping; Yong, Jiong Min) Unified adaptive control of non-minimum-phase systems. II. Target tracking and dynamic compensation. 91e:93079
 Liu, Kang Zhi (with Mita, Tsutomu) Conjugation and H^∞ control of discrete time systems. 91d:93029
 — (with Mita, Tsutomu) H^∞ control of discrete time systems. (Japanese summary) 91h:93027
 Liu, Yi¹ *see* Teo, Kok Lay; et al., 91k:49049
 Longhi, S. *see* Conte, Giuseppe; et al., 91m:93039
 Lu, Wu Sheng (with Lee, E. Bruce) Structure simplification of 2-D digital filters: an overview. 91a:94003
 (Mahgoub, H.) *see* Kara, A. A., (Not in MR)
 Mahmoud, Magdi S. *see* Bahsasawi, Ahmed A.; et al., 91b:93116
 Malone, B. *see* Fantl, M. P.; et al., (Not in MR)
 Mansour, Mohamed *see* Matsumoto, Naoki; et al., 91e:93013; Premaratne, Kamal; et al., 91e:93051 and (Not in MR)
 Martin, Clyde Franklin Representations of systems with finite observations. 91h:93018
 Matsumoto, Naoki (with Anderson, Brian D. O.; Mansour, Mohamed) Sufficient condition for state-space representation of N -D discrete-time lossless bounded real matrix and N -D stability of Mansour matrix. 91e:93013
 Megan, Mihail (with Freda, Petre) A criterion for the exponential dichotomy of linear discrete-time systems in Banach spaces. (Italian summary) 91k:39002
 Meler zu Farwig, H. (with Unbehauen, H.) Discrete computer control of a triple-inverted pendulum. (Not in MR)
 Mertzios, B. G. *see* Lewis, F. L., 91b:93093
 Michel, Anthony N. (with Sun, Hung-Fa) Analysis of systems subject to parameter uncertainties: application of interval analysis. 91h:93042
 Mita, Tsutomu *see* Liu, Kang Zhi, 91d:93029 and 91h:93027
 Miyama, Koji *see* Sakaniwa, Kohichi; et al., 91i:93083
 Moore, John Barratt *see* Vijayan, Rajiv; et al., 91m:93124
 Moraa, P. E. *see* Grizzle, J. W., 91i:93022
 Moroz, A. I. Time-optimal design in multidimensional systems that are discrete with respect to time. (Russian) (see 91k:00023)
 — (with Folomeev, A. A.) Algorithmic synthesis of a time-optimal control law for nonoscillatory systems that are discrete with respect to time. (Russian) (see 91k:00023)
 Morrell, Darryl R. (with Stirling, Wynn C.) Set-valued filtering and smoothing. 91j:93108
 M'Saad, Mohamed *see* Giri, Fouad; et al., 91d:93051
 Munaka, Tatsuji *see* Inaba, Hiroshi; et al., 91b:93076
 Murashov, D. M. *see* Vishnyakov, Yu. S., 91m:49038
 Murota, Kazuo (with Poljak, Svatopluk) Note on a graph-theoretic criterion for structural output controllability. 91h:93009
 Nagata, Akira *see* Horiguchi, Kazumi; et al., 91e:93016
 Newmann, M. M. (with Roberts, A. P.) Polynomial optimization of stochastic discrete-time control for unstable plants. 91e:93019
 Nguyễn Khoa So'n *see* Vũ Ngọc Phát, 91b:93018 and Hinrichsen, D., 91c:39005
 Nguyen Minh, T. *see* Dion, Jean Michel; et al., (Not in MR)
 Nishimura, Takuya *see* Horiguchi, Kazumi; et al., 91e:93016
 Odintsova, E. A. *see* Volosov, V. V., 91m:93058
 Owens, David H. *see* Rogers, E. L., 91i:93094
 Park, Baell Peter (with Verriest, Erik I.) Canonical forms on discrete linear periodically time-varying systems and a control application. 91a:93007
 Pawlak, Mirosław *see* Grębliński, Włodzimierz, 91e:93095
 Perdon, A.-M. *see* Conte, Giuseppe; et al., 91m:93039
 Phillis, Y. A. Optimal estimation and control of discrete multiplicative systems with unknown second-order statistics. 91e:93084
 Pias, Max L'algebre (max, +) et sa symétrisation ou l'algebre des équilibres. (English summary) [(max, +) algebra and its symmetrization or the algebra of balances] 91j:90048
 Poljak, Svatopluk *see* Murota, Kazuo, 91h:93009
 Poor, H. Vincent *see* Vijayan, Rajiv; et al., 91m:93124
 Freda, Petre *see* Megan, Mihail, 91k:39002
 Premaratne, Kamal (with Mansour, Mohamed; Jury, E. I.) An algorithm for model reduction of 2-D discrete time systems. 91e:93051
 — (with Jury, E. I.; Mansour, Mohamed) Multivariable canonical forms for model reduction of 2-D discrete time systems. (Not in MR)
 Przytycki, K. M. *see* Banasik, Andrzej; et al., 91b:93019
 Pospelkis, Rimantas Optimal recurrent identification methods. V. Recurrent M -estimation for parameters and for pure lag in linear discrete systems. (Russian. English and Lithuanian summaries) (Not in MR)
 Ravn, Hans F. (with Vidal, René Victor Valqui) Engineering applications of discrete time optimal control. (Not in MR)
 Reynolds, Reid G. Robust estimation of covariance matrices. 91f:93087
 Roberts, A. P. *see* Newmann, M. M., 91e:93019
 Rogers, E. L. (with Owens, David H.) Stability analysis for discrete linear multipass processes with nonunit memory. 91i:93094
 Rosen, I. G. (with Lie, M. A.) Computational methods for the solution of infinite-dimensional discrete-time regulator problems with unbounded input. 91k:93035
 Radie, Karen (with Wonham, W. Murray) The infimal prefix-closed and observable superlanguage of a given language. 91j:93014
 Ramcher, Ventseslar G. Constructing the reachability sets for positive linear discrete-time systems. The case of polyhedra. (Russian and Polish summaries) 91h:93007
 — (with James, D. J. G.) The role of nonnegative matrices in discrete-time mathematical modelling. 91d:15039
 Runggaldier, Wolfgang J. *see* Ferrante, Marco, 91e:93089; Di Masi, Giovanni B., 91j:93105 and (91f:90007)
 Salto, Hiroshi² Optimal control of variable rate coding in integrated voice/data packet networks. 91h:94007
 Sakaniwa, Kohichi (with Ueyamatsu, Tomohiko; Miyama, Koji) An IIR echo canceller with ensured stability—an extension of Kharitonov's theorem to discrete time system and its application. 91i:93083
 Sangsuk-Iam, Suwanchai (with Bullock, Thomas E.) Analysis of discrete-time Kalman filtering under incorrect noise covariances. 91j:93110
 Sedykh, L. G. *see* Garnae, A. Yu., 91i:90100
 Shao, Cheng *see* Gu, Xing Yuan, 91a:93034
 Shiryayev, V. I. *see* Anan'ev, B. I., 91k:93032
 Shorikov, A. F. Minimax filters for nonlinear discrete systems. 91m:93133
 Shu, Huang Stability of nonlinear comparison equations for discrete large-scale systems. 91e:93087
 Singh, Vimal A generalized approach for the absolute stability of discrete-time systems utilizing the saturation nonlinearity, based on passivity properties. (Not in MR)
 Skopetski, V. V. *see* Klimenko, E. V.; et al., 91h:93159
 Soh, C. B. Characterizations of eigenvalues of interval matrices. 91k:93043
 — Robust stability of discrete-time systems using delta operators. 91k:93070
 Sokolov, Andrei Arianovich Minimax control of a linear object with a quality functional that depends on controlling actions. (Not in MR)
 Soliman, S. A. *see* Christensen, G. S., 91e:93072
 Song, Wen Zhong *see* Wang, Zi Qin; et al., 91e:90046
 Sontag, Eduardo D. *see* Jakubczyk, Bronisław, 91m:9302a and 91m:9302b
 Stirling, Wynn C. *see* Morrell, Darryl R., 91j:93108
 Sun, Hung-Fa *see* Michel, Anthony N., 91i:93042
 Sun, Zhen Qi *see* Wang, Jia Xing, 91h:93057
 Świerkosz, M. *see* Kaczorek, Tadeusz, 91h:93079
 Teo, Kok Lay (with Liu, Yi¹; Goh, C. J.) Nonlinearly constrained discrete-time optimal-control problems. 91k:49049
 Tsypkin, Ya. Z. Nonminimum phase in discrete adaptive control systems. (Russian) 91b:93102
 Turchiano, B. *see* Fantl, M. P.; et al., (Not in MR)
 Unbehauen, H. *see* Meler zu Farwig, H., (Not in MR)
 Ömer, Z. *see* Kara, A. A., (Not in MR)
 Ueyamatsu, Tomohiko *see* Sakaniwa, Kohichi; et al., 91i:93083
 Vasil'ev, M. Yu. Synthesis of an adaptive control system using ellipsoidal estimation. 91e:93043
 Verriest, Erik I. *see* Park, Baell Peter, 91a:93007
 Vidal, René Victor Valqui *see* Ravn, Hans F., (Not in MR)
 Vijayan, Rajiv (with Poor, H. Vincent; Moore, John Barratt; Goodwin, Graham C.) A Levinson-type algorithm for modeling fast-sampled data. 91m:93124
 Vishnyakov, Yu. S. (with Murashov, D. M.) A method for the analytic design of discrete systems of nonlinear terminal control with given performance indices. (Russian) 91m:49038
 Volosov, V. V. (with Odintsova, E. A.) Investigation of the convergence of a certain form of state observer algorithms for discrete dynamical systems using Lyapunov functions. 91m:93058
 Vu, Ky Minh Discrete optimal stochastic controller and its forms. 91e:93099
 Vũ Ngọc Phát (with Nguyễn Khoa So'n) Linear nonstationary control systems: null-controllability with restrained controls in Banach spaces. 91b:93018
 Vyazovik, A. P. Control of motion and observation under conditions of incomplete information. (Russian) (see 91e:00013)
 Wahnou, Elias A min-max testing approach to failure detection and identification. (see 91f:93002)
 Walker, Daniel James Robust stabilizability of discrete-time systems with normalized stable factor perturbation. (Not in MR)
 — *see also* Limebeer, David J. N.; et al., 91d:93028
 Wang, En Ping Suboptimal filtering for a singular discrete-time stochastic linear system. 91e:93093
 Wang, Hong Yu² *see* Yin, Fu Liang, 91f:93024
 Wang, Jia Xing (with Sun, Zhen Qi) Asymptotic stability and optimal stability of a class of time-varying discrete dynamical systems. (Chinese. English summary) 91h:93057
 Wang, Yin Ping *see* Lin, Wei²; et al., 91e:93079
 Wang, Zi Qin (with Song, Wen Zhong; Feng, Chun Bo) Analysis and optimization of discrete event dynamical systems—a queuing network model method. I. (Chinese) 91e:90046
 Wimmer, Harald K. Normal forms of symplectic pencils and the discrete-time algebraic Riccati equation. 91k:15033
 Wonham, W. Murray *see* Radie, Karen, 91j:93014 and Lin, Feng, 91m:93010
 Wu, Qi Bin *see* Han, Qing Long, 91j:93076
 Wu, Yao Hua² *see* Xu, Xiao Hao, (Not in MR)
 Xu, Xiao Hao (with Wu, Yao Hua²) Decentralized adaptive control of a discrete large-scale system in the presence of bounded disturbances. (Chinese. English summary) (Not in MR)
 Yanagihara, Niro *see* Kawase, Shin, 91h:93015
 Yaz, Engin Robustness of stochastic-parameter control and estimation schemes. (Not in MR)
 — A generalization of the uncertainty threshold principle. (Not in MR)
 — A simple way to stabilize discrete systems with jump Markov parameters. 91e:93071
 Yin, Fu Liang (with Wang, Hong Yu²) Transformation and stability of a class of linear time-varying discrete systems. (Chinese. English summary) 91f:93024
 Yong, Jiong Min *see* Lin, Wei²; et al., 91e:93079
 Zaslavskii, B. G. Positive realizability of linear control systems. 91h:93032

93C57 Sampled-data

- Albertos, P. Block multirate input-output model for sampled-data control systems. (Not in MR)
- Chen, Tongwen (with Francis, Bruce A.) On the \mathcal{L}_2 -induced norm of a sampled-data system. 91b:93047
- Churilov, A. N. see Gellig, A. Kh. (Not in MR)
- Costa, O. L. V. Impulse control of piecewise-deterministic processes via linear programming. 91b:93054
- Francis, Bruce A. see Chen, Tongwen, 91b:93047
- Gatafon, P. V. Optimization of dynamical systems taking into account phase constraints in the class of impulse controls. (Russian) 91d:93044
- Gellig, A. Kh. Stabilization of impulse systems by periodic external action. 91e:93050
- (with Churilov, A. N.) Periodic modes in pulse-width systems with a variable structure of the linear part. (Not in MR)
- Gibson, J. S. (with Jabbari, Faryar) A digital input/output model for trace-class systems. 91b:93107
- Jabbari, Faryar see Gibson, J. S., 91b:93107
- Juan, Y. C. (with Kabamba, Pierre T.) Optimal hold functions for sampled data regulation. (Not in MR)
- Kabamba, Pierre T. Switching control of sampled data systems. 91a:93037
- see also Juan, Y. C., (Not in MR)
- Katulev, A. N. (with Perevoshchikov, A. G.) Determining the weight functions of nonstationary pulse systems by the minimax criterion. 91b:93055
- Lakshmikantham, V. Trends in the theory of impulsive differential equations. 91a:93038
- Liu, Kun Hui Analytical expressions for a class of impulse control optimal cost control functions. (Chinese. English summary) (Not in MR)
- Perevoshchikov, A. G. see Katulev, A. N., 91b:93055
- Rosenwasser, E. N. Application of parametric transfer functions for the analysis of sampled-data systems in continuous time. II. Analysis of processes under random perturbations. (Not in MR)
- Shaked, U. see Shats, S., 91b:93108
- Shats, S. (with Shaked, U.) Use of approximate discrete-time models in filtering and regulation of continuous-time processes. 91b:93108
- Teplinskii, Yu. V. (with Tryanovskii, N. S.) A periodic control problem for differential equations with impulses in a space of bounded numerical sequences. 91d:93045
- Tryanovskii, N. S. see Teplinskii, Yu. V., 91d:93045
- Wang, Long (with Zheng, Da Zhong) Some new results on the control of linear discrete-event dynamical systems. (Chinese. English summary) (Not in MR)
- Zheng, Da Zhong see Wang, Long, (Not in MR)

Items with secondary classifications in 93C57

- Akhmetov, M. U. (with Perestyuk, N. A.) Stability of periodic solutions of differential equations with impulse action on surfaces. 91b:34079
- Astafeva, M. N. Multifrequency oscillations of second-order systems with impulses in the nonresonance case. (Russian) 91b:34062
- Bai, Er Wei (with Dasgupta, Soura) Robust control design of sampled systems. (Not in MR)
- Bainov, D. D. (with Milusheva, S. D.) A projection-iterative method for solving the periodic problem for ordinary differential equations with impulse effect. 91b:65095
- see also Kulev, G. K., 91a:34037; Simeonov, P. S., 91b:34019 and Kulev, G. K., 91b:34081
- Burkov, V. N. (with Filippov, V. P.) Design of coordinated mechanisms for discrete models of active systems. 91b:93049
- Chen, Tongwen (with Francis, Bruce A.) Input-output stability of sampled-data systems. 91j:93094
- Dasgupta, Soura see Bai, Er Wei, (Not in MR)
- Erbe, Lynn H. (with Liu, Xinzhi) Existence results for boundary value problems of second order impulsive differential equations. 91c:34022
- Filippov, V. P. see Burkov, V. N., 91b:93049
- Francis, Bruce A. see Chen, Tongwen, 91j:93094
- Gajtarek, Dariusz A note on impulsive control of Feller processes with costly information. (Czech summary) 91a:90080
- Gutsa, V. I. Periodic solutions of one-dimensional and two-dimensional systems of differential equations with impulses. (Russian) 91c:34060
- Halevi, Yoram see Palmer, Z. J., (Not in MR)
- Jon, Kim Chae Exponential asymptotic stability with respect to part of the variables for nonlinear systems of differential equations with impulse effects. (Korean. English summary) (Not in MR)
- Kirichenko, S. B. see Pshenichnyi, B. N., 91g:49011
- Kolokol'nikova, G. A. Second-order necessary conditions for the optimality of singular and pulse modes. 91d:49045
- Kozjak, V. S. On the absolute stability of systems with asynchronously operating pulse elements. 91j:93070
- Kulev, G. K. (with Bainov, D. D.) Stability of sets for systems with impulses. 91b:34081
- (with Bainov, D. D.) Global stability of sets for impulsive differential systems by Lyapunov's direct method. 91a:34037
- Liu, Xinzhi Nonlinear boundary value problems for first order impulsive integro-differential equations. 91a:45014
- see also Erbe, Lynn H., 91c:34022
- Mamaa, E. Ya. Application of a projection-iterative method for searching for periodic solutions of systems with impulse action. (Russian) 91a:65199
- Milusheva, S. D. see Bainov, D. D., 91b:65095
- Palmer, Z. J. (with Halevi, Yoram) Robustness properties of sampled-data systems with dead time compensators. (Not in MR)
- Perestyuk, N. A. see Akhmetov, M. U., 91b:34079
- Pshenichnyi, B. N. (with Kirichenko, S. B.) On the optimal impulse correction problem. 91g:49011
- Simeonov, P. S. (with Bainov, D. D.) Asymptotic equivalence of nonlinear systems with impulse effect. 91b:34019
- Slyusarchuk, V. E. The exponential dichotomy of solutions of impulse systems. 91b:34020

- Trofimchuk, E. P. (with Trofimchuk, S. I.) Impulse systems with fixed moments of kicks of general location: the structure of a set of kick moments. 91b:34021
- (with Trofimchuk, S. I.) Impulse systems with fixed moments of kicks in general position: existence and uniqueness of the solution and the well-posedness of the Cauchy problem. 91b:34015
- Trofimchuk, S. I. see Trofimchuk, E. P., 91b:34021 and 91b:34015
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93C60 Continuous-time

- Kotta, Ülle On discretization of continuous-time linear-analytic systems. (Russian) (Not in MR)
- Items with secondary classifications in 93C60
- Bell, D. J. (with Tsang, W.) Invertibility and decoupling of linear time-varying systems. 91b:93044
- Christensen, G. S. (with Soliman, S. A.) Optimal filtering for continuous linear dynamic systems based on WLAV approximations. 91c:93073
- Davis, Mark H. A. Anticipative LQG control. 91c:49057
- Hakomori, K. see Yoshii, K., 91a:93004
- Hegner, Stephen J. Algebraic representation of dynamics and behavior for continuous-time linear systems. 91b:93037
- Hou, Daqing see Hsu, Chin Shui, (Not in MR)
- Hsu, Chin Shui (with Hou, Daqing) Decomposition of a multivariable continuous system with pure integrations. (Not in MR)
- Isidori, Alberto see Sastry, S. Shankar, 91b:93101
- Makhmudov, E. N. Necessary and sufficient conditions for an extremum for discrete and differential inclusions with distributed parameters. 91c:49036
- Sastry, S. Shankar (with Isidori, Alberto) Adaptive control of linearizable systems. 91b:93101
- Soliman, S. A. see Christensen, G. S., 91c:93073
- Tsang, W. see Bell, D. J., 91b:93044
- Yoshii, K. (with Hakomori, K.) Characteristic multiplier assignment in continuous-time linear periodic systems. 91a:93004

93C62 Digital systems

Items with secondary classifications in 93C62

- Chai, Tian You A self-tuning feed-forward controller and its global convergence analysis—applications to stochastic multivariable systems with arbitrary interaction matrices. (Chinese. English summary) (Not in MR)

93C70 Time-scale analysis and related topics

- Agathoklis, P. see Sreeram, V., 91m:93080
- Aldaher, Rabah W. Model order reduction via real Schur-form decomposition. (Not in MR)
- Al-Mazedi, Moosa M. An optimal reduced-order model by orthogonal state variables. (Not in MR)
- Optimal reduced-order models of multioutput linear autonomous systems. (Not in MR)
- Bernstein, Dennis S. see Haddad, Wassim M., 91c:93069
- Brunner, Urban A. New method for the design of a reduced-order controller. (Not in MR)
- Chang, Fan Jen (with Wang, Li Chun) Algorithms for the interactor matrix and the row-column-reduced form. (Not in MR)
- Chang, Jyh-Yeong see Cheng, Mu-Huo, (Not in MR)
- Chen, Sen Fa (with Xu, Nan Rong) A method for obtaining a reduced-order model with the essential states of the original system. (Chinese. English summary) (Not in MR)
- Cheng, Mu-Huo (with Chang, Jyh-Yeong) Model reduction for continuous- and discrete-time systems via squared-magnitude responses matching by linear programming. (Not in MR)
- Crabbe, Leland E. (with Young, Brian B.) Model reduction via the internally balanced state space representation. 91g:93024
- Dahleh, Mohammed A. (with Dahleh, Munther A.) On slowly time-varying systems. 91j:93062
- Dahleh, Munther A. see Dahleh, Mohammed A., 91j:93062
- Gajic, Zoran (with Shen, Xuemin) Parallel reduced-order controllers for stochastic linear singularly perturbed discrete systems. (Not in MR)
- see also Petkovski, Djordjija B., 91j:93064 and Su, Wu Chung, 91b:93056
- Haddad, Wassim M. (with Bernstein, Dennis S.) Optimal reduced-order observer-estimators. 91i:93069
- Huang, Ch'1 (with Jung, Chih Hui) A generalized Caue third continued-fraction expansion and its application to model reduction. (Chinese summary) 91j:93063
- Jung, Chih Hui see Huang, Ch'1, 91j:93063
- Jury, E. I. see Premaratne, Kamal; et al., 91e:93051
- Khalil, H. K. (with Kokotović, P. V.) On stability properties of nonlinear systems with slowly varying inputs. (Not in MR)
- Khorasani, K. Feedback equivalence for a class of nonlinear singularly perturbed systems. 91i:93070
- Kokotović, P. V. see Khalil, H. K., (Not in MR)
- Mansour, Mohamed see Premaratne, Kamal; et al., 91e:93051
- Mayne, David Q. (with Michalska, Hannah) Receding horizon control of nonlinear systems. 91d:93046
- Meyer, David G. Fractional balanced reduction: model reduction via fractional representation. 91b:93048
- Michalska, Hannah see Mayne, David Q., 91d:93046
- Petkovski, Djordjija B. (with Gajic, Zoran) Recursive reduced-order solution of linear-quadratic output control problems with small parameters. 91j:93064

- Premaratne, Kamal (with Mansour, Mohamed; Jury, E. I.) An algorithm for model reduction of 2-D discrete time systems. **91e:93051**
- Shen, Xuemin (see Gajic, Zoran, (Not in MR))
- Skelton, Robert E. (see Williamson, Darrell; et al., (Not in MR))
- Sreeram, V. (with Agathoklis, P.) Model reduction of linear discrete systems via weighted impulse response gramians. **91m:93080**
- Su, Wu Chung (with Gajic, Zoran) Reduced-order solution to the finite-time optimal-control problems of linear weakly coupled systems. **91k:93056**
- Utkin, V. A. A method for the separation of motions in observation problems. **91d:93047**
- Wang, Li Chun (see Chang, Fan Jen, (Not in MR))
- Williamson, Darrell (with Skelton, Robert E.; Zhu, Guoming) Moment matching model reduction for multirate linear systems. (Not in MR)
- van Woerkom, P. Th. L. M. Mathematical models of flexible spacecraft dynamics: a survey of order reduction approaches. (Not in MR)
- Wu, Xue Li A discrete-time multivariable MRACS using a lower-order reference model. (Chinese. English summary) (Not in MR)
- Xu, Nan Rong (see Chen, Sen Fa, (Not in MR))
- Yang, Cheng Wu (with Zou, Yun) Weak stability of generalized systems with slowly varying parameters. (Chinese. English summary) **91e:93052**
- Young, Brian B. (see Crabbe, Leland E., **91g:93024**)
- Zhu, Guoming (see Williamson, Darrell; et al., (Not in MR))
- Zou, Yun (see Yang, Cheng Wu, **91e:93052**)

Items with secondary classifications in 93C70

- Ando, Yoshinori (see Murata, Satoshi; et al., **91d:93033**)
- Aulbach, Bernd (with Hilger, Stefan) Linear dynamic processes with inhomogeneous time scale. **91g:58266**
- Bandoni, José A. (with Rotstein, H.; Desages, Alfredo; Romagnoli, José A.) Necessary and sufficient conditions for robust stabilization with fixed order conditions. **91c:93058**
- Bruni, C. (with Koch, Giorgio) Stochastic models for two-mode compartmental systems and their asymptotic reduction. **91f:92017**
- Desages, Alfredo (see Bandoni, José A.; et al., **91c:93058**)
- Gajic, Zoran (see Shen, Xuemin, **91f:93041**)
- Hilger, Stefan (see Aulbach, Bernd, **91g:58266**)
- Koch, Giorgio (see Bruni, C., **91f:92017**)
- Malaina, T. B. On optimal dimension reducing state transformation with given observation matrix. **91k:93019**
- Markechko, M. I. (with Rybashov, M. V.) Stability of singularly perturbed systems. **91j:34075**
- Murata, Satoshi (with Ando, Yoshinori; Suzuki, Masayuki) Design of a high gain regulator by the multiple time scale approach. **91d:93033**
- Romagnoli, José A. (see Bandoni, José A.; et al., **91c:93058**)
- Rotstein, H. (see Bandoni, José A.; et al., **91c:93058**)
- Rybashov, M. V. (see Markechko, M. I., **91j:34075**)
- Shen, Xuemin (with Gajic, Zoran) Optimal reduced-order solution of the weakly coupled discrete Riccati equation. **91f:93041**
- Suzuki, Masayuki (see Murata, Satoshi; et al., **91d:93033**)
- Wang, Guo Rong² An absolutely stable order-reduction method for a direct control system. (Chinese. English summary) (Not in MR)
- Wang, Zhen Quan (see Xu, Ke Kang, **91f:93019**)
- Xu, Ke Kang (with Wang, Zhen Quan) The realization problem for singularly perturbed systems. (Chinese. English summary) **91f:93019**

93C73 Perturbations in control systems

- Ball, Joseph A. (with Gohberg, Israel; Rodman, Leiba) Sensitivity minimization and bitangential Nevanlinna-Pick interpolation in contour integral form. **91e:93053**
- Gohberg, Israel (see Ball, Joseph A.; et al., **91e:93053**)
- Kaminkas, Vytautas (with Matuzonis, Arvydas) Control of linear objects in the case of noisy input and output measurements. (Russian. English and Lithuanian summaries) (Not in MR)
- Matuzonis, Arvydas (see Kaminkas, Vytautas, (Not in MR))
- Rodman, Leiba (see Ball, Joseph A.; et al., **91e:93053**)
- Vladimirov, A. A. Correctness of controllable dissipative systems with respect to small-amplitude perturbations. **91j:93065**

Items with secondary classifications in 93C73

- Abgaryan, K. A. Solution of control problems by multi-dimensional nonstationary systems by the diagonalization of the matrix of the linear part of the motion equation system. **91f:93020**
- El-Ansary, Mohamed Stabilizing control of a singularly perturbed system driven by wide-band noises. **91g:93034**
- Glass, Leon (with Malta, C. P.) Chaos in multi-looped negative feedback systems. **91d:58151**
- Kautsky, Jaroslav (with Nichols, N. K.) Robust pole assignment in systems subject to structured perturbations. **91j:93046**
- Malta, C. P. (see Glass, Leon, **91d:58151**)
- Narmanov, A. Ya. On the stability of completely controllable systems. (Russian) (Not in MR)
- Nichols, N. K. (see Kautsky, Jaroslav, **91j:93046**)
- Xiao, Hai Min Boundedness of discrete systems and their perturbed systems with respect to part of the variables. (Chinese. English summary) **91m:93089**

93C75 Applications of control theory (1985)

- Di Benedetto, M. D. (see Slotine, J.-J. E., (Not in MR))
- Formalski, A. M. (with Osipov, S. N.) On the problem of the time-optimal manipulator arm turning. (Not in MR)
- Garnaev, A. Yu. (with Sedykh, L. G.) Optimal control of a nonlinear model of the process of sorption of surface-active substances. (Russian) (see **91e:00009**)

- Górecki, Henryk (see Szymkat, Maciej; et al., (Not in MR))
- Grimble, Michael J. (see Ringwood, J. V., (Not in MR))
- Harcut, Jean-Philippe Nonlinear control of missiles through a geometric approach. (see **91f:93002**)
- Ibragimov, S. I. A control system for the flow of gas in a pipeline. (Not in MR)
- Kabamba, Pierre T. (see Singh, Gurkiral; et al., (Not in MR))
- Kim, Kevin D. (see Speyer, Jason L.; et al., (Not in MR))
- Lee, Cho Seng (with Leitmann, G.) On a student-related optimal control problem. (Not in MR)
- Leitmann, G. (see Lee, Cho Seng, (Not in MR))
- Li, Yao Xian (with Zhao, Yu Fu) The application of grey system theory to long-term prediction of weather. (Not in MR)
- McClamroch, N. Harris (see Singh, Gurkiral; et al., (Not in MR))
- Orlov, V. N. Analytical solutions in optimal control of cyclic heat transfer processes. (Russian and Polish summaries) (Not in MR)
- Osipov, S. N. (see Formalski, A. M., (Not in MR))
- Owens, David H. (see Rogers, E. L., (Not in MR))
- Popek, Leslaw (see Szymkat, Maciej; et al., (Not in MR))
- Rava, Hans F. (with Vidal, René Victor Valqui) Engineering applications of discrete time optimal control. (Not in MR)
- Ringwood, J. V. (with Grimble, Michael J.) Shape control in Sendzimir mills using both crown and intermediate Roll actuators. (Not in MR)
- Rogers, E. L. (with Owens, David H.) Modelling and stability analysis for a class of industrial repetitive processes. (Not in MR)
- Sedykh, L. G. (see Garnaev, A. Yu., **91e:00009**)
- Shrivastava, S. K. (see Sinha, Sushil K., (Not in MR))
- Singh, Gurkiral (with Kabamba, Pierre T.; McClamroch, N. Harris) Bang-bang control of flexible spacecraft slewing maneuvers: guaranteed terminal pointing accuracy. (Not in MR)
- Sinha, Sushil K. (with Shrivastava, S. K.) Optimal explicit guidance of multistage launch vehicle along three-dimensional trajectory. (Not in MR)
- Sira-Ramirez, Hebert Design of P-I controllers for DC-to-DC power supplies via extended linearization. (Not in MR)
- Slotine, J.-J. E. (with Di Benedetto, M. D.) Hamiltonian adaptive control of spacecraft. (Not in MR)
- Speyer, Jason L. (with Kim, Kevin D.; Tahk, Minjea) Passive homing missile guidance law based on new target maneuver models. (Not in MR)
- Szymkat, Maciej (with Górecki, Henryk; Popek, Leslaw) Control of a long-line-type plant. (Not in MR)
- Tahk, Minjea (see Speyer, Jason L.; et al., (Not in MR))
- Vidal, René Victor Valqui (see Rava, Hans F., (Not in MR))
- Wang, Bai Lin An adaptive regulator for regulating systems of hydraulic turbines. (Chinese. English summary) (Not in MR)
- Zhao, Yu Fu (see Li, Yao Xian, (Not in MR))
- Zubov, N. E. Relay control based on Pontryagin's maximum principle and on a forecasting-model control algorithm. (Not in MR)

Items with secondary classifications in 93C75

- Abdullah, N. (see Brdyš, M. A.; et al., (Not in MR))
- Adali, S. (see Bruch, J. C., Jr.; et al., (Not in MR))
- Brdyš, M. A. (with Abdullah, N.; Roberts, P. D.) Augmented model-based double iterative loop techniques for hierarchical control of complex industrial processes. (Not in MR)
- Bruch, J. C., Jr. (with Sloss, J. M.; Adali, S.; Sadek, I. S.) Orthotropic plates with shear rotation subject to optimal open-closed loop control. (Not in MR)
- Bryson, Arthur E., Jr. (see Meier, Elke-Barbara, (Not in MR))
- Georges, D. (see Wang, De Ming; et al., **91f:93002**)
- Gopalwamy, Swaminathan (see Hedrick, J. Karl, (Not in MR))
- Hamam, Y. (see Wang, De Ming; et al., **91f:93002**)
- Hartl, Richard (with Krauth, Johannes) Optimal production mix. (Not in MR)
- Hedrick, J. Karl (with Gopalwamy, Swaminathan) Nonlinear flight control design via sliding methods. (Not in MR)
- Hope, G. S. (see Ye, Lu Qing; et al., (Not in MR))
- Ikonnikov, A. K. Optimal control in a problem on the contact of a beam with a rigid die. (Russian) (see **91a:00023**)
- Kabamba, Pierre T. (see Singh, Gurkiral; et al., (Not in MR))
- Krauth, Johannes (see Hartl, Richard, (Not in MR))
- Malik, O. P. (see Ye, Lu Qing; et al., (Not in MR))
- McClamroch, N. Harris (see Singh, Gurkiral; et al., (Not in MR))
- Meier, Elke-Barbara (with Bryson, Arthur E., Jr.) Efficient algorithm for time-optimal control of a two-link manipulator. (Not in MR)
- Pejara, L. R. On the parametrization of stabilizing controllers for SISO control systems with applications to aircraft flying qualities. (Not in MR)
- Roberts, P. D. (see Brdyš, M. A.; et al., (Not in MR))
- Sadek, I. S. (see Bruch, J. C., Jr.; et al., (Not in MR))
- de la Sen, Manuel (see Soto, J. C., (Not in MR))
- Singh, Gurkiral (with Kabamba, Pierre T.; McClamroch, N. Harris) Time-optimal spinup maneuvers of flexible spacecraft. (Not in MR)
- Sloss, J. M. (see Bruch, J. C., Jr.; et al., (Not in MR))
- Soto, J. C. (with de la Sen, Manuel) Suboptimal regulation of a class of bilinear interconnected systems on finite time-sliding planning horizons. (Not in MR)
- Wang, De Ming (with Georges, D.; Hamam, Y.) Optimal path planning of manipulators with singular configurations, workspace and collision-free constraints. (see **91f:93002**)
- Wei, Shou Ping (see Ye, Lu Qing; et al., (Not in MR))
- Xu, Hai Bo (see Ye, Lu Qing; et al., (Not in MR))
- Yakovleva, L. M. Nonlinear control and filtering in a platform-free inertial navigation system. (Russian) (Not in MR)
- Yang, Zi Hou (with Zhang, Hou Qi) Control of resources start-ups for a class of flexible manufacturing systems. (Chinese. English summary) (Not in MR)
- Ye, Lu Qing (with Wei, Shou Ping; Xu, Hai Bo; Malik, O. P.; Hope, G. S.) Variable-structure and variable parameter control for hydroelectric generating units. (Chinese.

English summary) (Not in MR)

Zhang, Hou Qi. *see* Yang, Zi Hou, (Not in MR)

93C80 Frequency-response methods

Antoniou, G. E. (with Mentzelopoulos, S. H.) An algorithm for the transfer functions determination of general singular doubly indexed dynamical systems. (Not in MR)
— *see also* Mentzelopoulos, S. H., (Not in MR)

Glover, Keith (with Lam, James; Partington, Jonathan R.) Rational approximation of a class of infinite-dimensional systems. I. Singular values of Hankel operators. 91c:93054

Corelik, V. Yu. Analysis of periodically nonstationary systems by means of the Laplace transform. (Russian) 91c:93057

Goryunov, V. I. An asymptotic approach to taking into account the nonlinearity of the characteristic of control in a system of pulse-phase self-tuning of frequency. (Russian) (see 91g:00034)

Gunnarsson, Svante Frequency domain accuracy of recursively identified ARX models. (Not in MR)

Ismailov, R. N. Estimates for the value of overcontrol in stable linear links with a rational transfer function. (Not in MR)

Joshi, Suresh M. *see* Lozano Leal, Rogelio, 91f:93070

Lam, James *see* Glover, Keith; et al., 91c:93054

Leyva-Ramos, J. Partial-fraction expansion in system analysis. 91m:93081

Lia, G. P. Frequency-domain approach for critical systems. (Not in MR)

Lozano Leal, Rogelio (with Joshi, Suresh M.) Strictly positive real transfer functions revisited. 91f:93070

Mentzelopoulos, S. H. (with Antoniou, G. E.) Generalized two-dimensional systems: Leverrier-Faddeeva algorithm. (Not in MR)

— *see also* Antoniou, G. E., (Not in MR)

Partington, Jonathan R. *see* Glover, Keith; et al., 91c:93054

Piché, Robert Inversion of Laplace transforms using polynomial series. (Not in MR)

Razzaghi, Mehdi *see* Razzaghi, Mehdi, 91c:93055

Razzaghi, Mehdi (with Razzaghi, Mehdi) Fourier series approach for the solution of linear two-point boundary value problems with time-varying coefficients. 91c:93055

Seh, C. B. Damping ratio of perturbed continuous time systems. (Not in MR)

Westreich, David Computing transfer function zeros of a state space system. (Not in MR)

van der Woude, J. W. A graph-theoretic characterization for the rank of the transfer matrix of a structured system. 91m:93082

Zhang, Shou Yuan Infinite gain loop and simulation of singular systems. (Not in MR)

Zhu, Si Quan Causality in the frequency domain. 91c:93056

Items with secondary classifications in 93C80

Balakrishnan, Venkataraman *see* Boyd, Stephen P., 91c:93017

Boyd, Stephen P. (with Balakrishnan, Venkataraman) A regularity result for the singular values of a transfer matrix and a quadratically convergent algorithm for computing its L_∞ -norm. 91c:93017

Dai Qing Khanh Factorization of transfer functions. I. (+)-regular factorization. 91g:47052

Fang, Chih Hsiung Determination of doubly coprime matrix fraction descriptions and corresponding Bezout identity solutions for a regular state-space system. 91k:93025

Hilrichsen, D. (with Pritchard, A. J.) Robustness measures for linear state space systems under complex and real parameter perturbations. 91c:93062

Pritchard, A. J. *see* Hilrichsen, D., 91c:93062

Shaked, U. Directional interpolation via all-pass transfer function matrices and its application in Hankel-norm approximations. 91f:93028

Weiss, George Representation of shift-invariant operators on L^2 by H^∞ transfer functions: an elementary proof, a generalization to L^p , and a counterexample for L^∞ . 91m:93041

Zaimanov, L. A. ★ Преобразование Фурье, Волна, Хаара и их применение в управлении, связи и других областях. (Russian) [Fourier, Walsh and Haar transforms and their application to control, communication and other fields] 91i:94001

93C85 Automated systems (robots, etc.)

Baharin, I. B. (with Green, R. J.) Computationally-effective recursive Lagrangian formulation of manipulation dynamics. (Not in MR)

Baklouti, M. (with Castelain, J. M.) Application du formalisme dual et de la notion de corps augmenté au calcul du modèle dynamique inverse d'un robot manipulateur. (English summary) [Application of the dual formalism and of the notion of augmented body to the computation of the inverse dynamical model of a robot manipulator] (Not in MR)

Bayoumi, M. M. *see* Mo, L., 91f:93071

Boals, Michael *see* Messner, William; et al., (Not in MR)

Burdakov, S. F. Connected control of robot drives in a positioning process. (Not in MR)

Castelain, J. M. *see* Baklouti, M., (Not in MR)

Chen, Guang Ling *see* Yan, Jun, (Not in MR)

Chen, Yon-Ping (with Yeung, K. S.) Sliding-mode control of multi-link flexible manipulators. (Not in MR)

Dawson, Darren M. *see* Qu, Zhihua; et al., 91j:93066

Degtyareva, E. V. *see* Golubev, Yu. F.; et al., (Not in MR)

Dorsey, John F. *see* Qu, Zhihua; et al., 91j:93066

Ellison, D. On the convergence of the Albus perceptron. (Not in MR)

Fedorov, Vyacheslav Vasil'evich *see* Vyargin, V. A., (91k:93005)

Fu, Li Ch'eng Stability analysis of independent joint PID feedback control for trajectory tracking of robot motion. (Chinese summary) (Not in MR)

Gao, Wei Bing *see* Song, Yong Duan, (Not in MR)

Golubev, Yu. F. (with Degtyareva, E. V.; Khairullin, R. Z.) The method of sequential linearization in the problem of search for an optimal step cycle of a walking apparatus. (Not in MR)

Green, R. J. *see* Baharin, I. B., (Not in MR)

Hakhaal, Hari B. Modal identities for multibody elastic spacecraft. (Not in MR)

Horowitz, Roberto (with Messner, William; Moore, John Barratt) Exponential convergence of a learning controller for robot manipulators. (Not in MR)

— *see also* Messner, William; et al., (Not in MR)

Kao, Wei-Wen *see* Messner, William; et al., (Not in MR)

Khairullin, R. Z. *see* Golubev, Yu. F.; et al., (Not in MR)

Kostin, G. V. Dynamics of controlled rotations of a loaded elastic link in a manipulative system with an electromechanical drive. (Not in MR)

Kozlov, Yu. M. ★ Адаптация и обучение в робототехнике. (Russian) [Adaptation and learning in robotics] 91d:93048

Leung, Tin-Pui (with Zhou, Qi Jie; Su, Chun Yi) An adaptive variable structure model following control design for robot manipulators. (Not in MR)

Messner, William (with Horowitz, Roberto; Kao, Wei-Wen; Boals, Michael) A new adaptive learning rule. (Not in MR)

— *see also* Horowitz, Roberto; et al., (Not in MR)

Mo, L. (with Bayoumi, M. M.) Hybrid adaptive control for robot manipulators. 91f:93071

Moore, John Barratt *see* Horowitz, Roberto; et al., (Not in MR)

Murphy, Steve *see* Wen, John T., (Not in MR)

Novaković, Zoran R. The principle of self-support in robot control synthesis. (Not in MR)

Perevozchikov, A. G. A problem of manipulator design. (Russian) (see 91k:93005)

— *see also* Zavriev, S. K., (91k:93005)

Qu, Zhihua (with Dorsey, John F.; Zhang, Xinfan; Dawson, Darren M.) Robust control of robots by the computed torque law. 91j:93066

Song, Yong Duan (with Gao, Wei Bing) Path tracking control of robot manipulators via the VSS approach. (Not in MR)

Su, Chun Yi *see* Leung, Tin-Pui; et al., (Not in MR)

Tomović, Rajko Nonanalytic control of manipulators. (Not in MR)

Vyargin, V. A. (with Fedorov, Vyacheslav Vasil'evich) Conceptions and mechanisms of choice in hierarchical design schemes. (Russian) (see 91k:93005)

Wen, John T. (with Murphy, Steve) Stability analysis of position and force control for robot arms. (Not in MR)

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Zavriev, S. K. (with Perevozchikov, A. G.) An algorithm for the adaptive control of a robot. (Russian) (see 91k:93005)

Zhang, Xinfan *see* Qu, Zhihua; et al., 91j:93066

Zhou, Qi Jie *see* Leung, Tin-Pui; et al., (Not in MR)

Items with secondary classifications in 93C85

Aksenov, G. S. (with Denisova, T. M.) The Lyapunov function method in a problem of manipulator control. (Russian) (see 91k:93005)

Azizov, A. G. The motion of controllable mechanical systems with servoconstraints. 91m:70037

Bogatyreva, N. A. (with Pyatnitskii, E. S.) Optimal control of mechanical systems in potential fields. 91i:70021

(Brockett, Roger W.) *see* Robotics, 91i:70003

Cetinikunt, Sahri (with Wu, Sijun) Output predictive adaptive control of a single-link flexible arm. (Not in MR)

Chang, Po Rong Computer-aided-design tool for simplification of robot dynamic model based on manipulator system performance. (Not in MR)

Cieslak, Randall A. (with Varaiya, Pravin P.) Undecidability results for deterministic communicating sequential processes. 91f:68049

(Cox, I. J.) *see* Autonomous robot vehicles, 91c:70007

Denisova, T. M. *see* Aksenov, G. S., (91k:93005)

Dritsas, L. *see* Tzafestas, Spyros G.; et al., 91f:70003

Dumskaya, N. V. (with Pyatnitskii, E. S.) The objective potential method in problems of synthesizing controls for manipulator robots. 91i:70022

Eliseev, S. V. (with Kuznetsov, N. K.; Luk'yanov, A. V.) ★ Управление колебаниями роботов. (Russian) [Control of robot oscillations] 91i:70023

Hettich, R. (with Still, G.) Semi-infinite programming models in robotics. (see 91k:90010)

Huang, Ru Ji Subnetwork-extraction theorems and their applications. 91c:94045

Johansson, Rolf Quadratic optimization of motion coordination and control. 91i:49041

Kanellakopoulos, J. *see* Tzafestas, Spyros G.; et al., 91f:70003

Krak, Yu. V. On forming the dynamics equations of manipulation robots as applied to motion control problems. 91i:70027

Krawczak, Maciej A method for suboptimal control of a manipulator-robot. (Polish. English and Russian summaries) 91j:70030

Kuznetsov, N. K. *see* Eliseev, S. V.; et al., 91i:70023

Luk'yanov, A. V. *see* Eliseev, S. V.; et al., 91i:70023

Matyukhin, V. I. (with Pyatnitskii, E. S.) Control of the motion of manipulation robots based on the decomposition principle taking into account the dynamics of actuators. 91f:70025

Nicolsa, S. (with Tomei, Patrizio) Robot control by using only joint position measurements. 91i:70024

Pyatnitskii, E. S. *see* Matyukhin, V. I., 91f:70025; Bogatyreva, N. A., 91i:70021 and Dumskaya, N. V., 91i:70022

Spong, Mark W. Control of flexible-joint robots: a survey. (see 91m:93004)

Stifter, Sabine Mathematische Verfahren für Kollisionsprobleme bei Robotern. [Mathematical methods for robot collision problems] (see 91k:00033)

Still, G. *see* Hettich, R., (91k:90010)

Timofeev, A. V. Adaptive control of robots. 91f:70027

Tomei, Patrizio *see* Nicolsa, S., 91i:70024

Tzafestas, Spyros G. (with Dritsas, L.; Kanellakopoulos, J.) Robust robot control: a comparison of three techniques through simulation. 91f:70003

Varaiya, Pravin P. *see* Cieslak, Randall A., 91f:68049

(Wilfong, G. T.) *see* Autonomous robot vehicles, 91c:70007

Wu, Sijun *see* Cetinikunt, Sahri, (Not in MR)

Zubov, V. I. Construction of controlling force fields. 91m:70038

Items listed otherwise than by author

Autonomous robot vehicles ★ Autonomous robot vehicles. 91c:70007

Proceedings of Symposia in Applied Mathematics ★ Robotics. 91i:70003

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93C90 Random disturbances in control systems

Items with secondary classifications in 93C90

- Alomani, A. T. Distributed estimators for nonlinear systems. 91m:93118
 Costa, O. L. V. Impulse control of piecewise-deterministic processes via linear programming. 91k:93054
- 93C95 Applications of control theory**
- Babitskii, V. I. (with Kovaleva, A. S.; Shipilov, A. V.) Optimal control of the drive of a cyclic machine. (Not in MR)
 Bloch, Anthony M. (with McClamroch, N. Harris) Control of mechanical systems with classical nonholonomic constraints. 91a:93039
 Boichuk, L. M. (with Finin, G. S.) A method of controlling objects with variable parameters based on using coordinating systems. (Not in MR)
 Byrnes, Christopher I. (with Isidori, Alberto) On the attitude stabilization of rigid spacecraft. (Not in MR)
 Cai, Chang Feng. A heating model and its optimal control. (Chinese. English summary) (Not in MR)
 Cao, Zhu An. see Dai, Zhong Da; et al., (Not in MR)
 Castel, L. (with Destuynder, Philippe; Legrain, I.; Richard, N.) Certain aspects of dynamic control of structures using piezoelectric materials. (Not in MR)
 Chang, Ker Chang. see Lee, Hsi Jian; et al., (Not in MR)
 Chen, Yaobin. On the structure of the minimum-time control law for multiple robot arms handling a common object. (Not in MR)
 Chung, Ch'ien Kuei. see Lee, Hsi Jian; et al., (Not in MR)
 Dai, Zhong Da. (with Luo, Shao Wu; Cao, Zhu An) Parameter identification and state estimation for a class of nonlinear dynamical systems. (Chinese. English summary) (Not in MR)
 Danilov, V. Ya. (with Podlipenko, Yu. K.) Application of the integral equations method to the problem of calculating the field in a plane-parallel waveguide from the results of measuring the acoustic pressure in the near field of radiator. (Not in MR)
 Darkhovskii, B. S. see Gleizer, R. G., 91i:93072
 Destuynder, Philippe. see Castel, L.; et al., (Not in MR)
 Fellachi, Ali. (with Yang, Xiaoping) Identification of power system stabilizers locations. 91a:93040
 Flato, G. S. see Boichuk, L. M., (Not in MR)
 Gleizer, R. G. (with Darkhovskii, B. S.) Locally optimal control of a class of chemical reactors. 91i:93072
 Golovinski, A. N. (with Naumov, A. I.) Analytical solution of problems of optimal trajectory control of an aircraft. 91j:93067
 Henne, Jean-Claude. (with Lasserre, Jean Bernard) États atteignables et états d'équilibre de systèmes de production linéaires en temps discret sous contraintes. (English summary) [Attainable states and equilibrium states of discrete-time constrained linear production systems] 91i:93073
 Horváth, Miklós. Infinite strings with discrete spectrum. 91e:93056
 Howlett, Phil. An optimal strategy for the control of a train. 91b:93109
 Hsu, Liu. Boundedness of oscillations in relay feedback systems. 91f:93071
 Iakovidis, I. (with Martin, Clyde Franklin; Xie, Shishen) Observability and inverse problems arising in electrocardiography. 91a:93041
 Isidori, Alberto. see Byrnes, Christopher I., (Not in MR)
 Kelley, H. J. see Tsolotas, P., (Not in MR)
 Klötzler, Rolf. Eine neue Variante einer Schachteilaufgabe. (English summary) [A new variant of a boxing problem] 91b:93110
 Kovaleva, A. S. see Babitskii, V. I.; et al., (Not in MR)
 Kravchuk, O. P. see Mikhailenko, V. M., (Not in MR)
 Krut'ko, P. D. Algorithms for acceleration-based control of the motion of mechanical systems. 91i:93074
 Lasserre, Jean Bernard. see Henne, Jean-Claude, 91i:93073
 Lee, Hsi Jian. (with Chung, Ch'ien Kuei; Chang, Ker Chang) Manoeuvring target tracking in a cluttered environment from noisy images by an adaptive probabilistic data association filter. (Not in MR)
 Legrain, I. see Castel, L.; et al., (Not in MR)
 Luo, Shao Wu. see Dai, Zhong Da; et al., (Not in MR)
 Martin, Clyde Franklin. see Iakovidis, I.; et al., 91a:93041
 McClamroch, N. Harris. see Bloch, Anthony M., 91a:93039
 Merckx, Christian. Optimal pumping strategy for groundwater decontamination. (Not in MR)
 Mikhailenko, V. M. (with Kravchuk, O. P.) Synthesis of a multidimensional network under conditions of optimal flow control. (Not in MR)
 Musabekov, K. S. A method for solving a problem of the optimal control of a process in a chemical reactor. (Russian) 91b:93111
 Naumov, A. I. see Golovinski, A. N., 91j:93067
 Orr, C. H. see Ulanicki, B., (Not in MR)
 Podlipenko, Yu. K. see Danilov, V. Ya., (Not in MR)
 Polozhii, T. G. Control of a linear inertial navigation system. (Russian) (Not in MR)
 Richard, N. see Castel, L.; et al., (Not in MR)
 Salf, Mehrdad. Optimal modal control of a nuclear power reactor. 91a:93042
 Shipilov, A. V. see Babitskii, V. I.; et al., (Not in MR)
 Styczeń, Krystyna. Optimal periodic nonboundary control for a tubular reactor: a performance improvement criterion. (Not in MR)
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 Ulanicki, B. (with Orr, C. H.) An optimization technique for water supply and distribution systems. (Not in MR)
 Voronkov, V. S. Synthesis of systems for the control of weakly-damped objects. (Not in MR)
 Xie, Shishen. see Iakovidis, I.; et al., 91a:93041
 Yang, Xiaoping. see Fellachi, Ali, 91a:93040
 Zubov, N. E. Algorithms for systems of automatic trajectory control of spacecraft approach. (Not in MR)

Items with secondary classifications in 93C95

- Aghedo, E. M. see Nwanenna, C. C., (Not in MR)
 Ando, Kazuaki. see Shin, Seichi; et al., (Not in MR)
 Bainov, D. D. (with Dishliev, A. B.) Population dynamics control in regard to minimizing the time necessary for the regeneration of a biomass taken away from the population. 91i:92006
 Blum, Jacques. Numerical simulation and optimal control in plasma physics. 91f:92068
 Botkin, N. D. (with Krasov, A. I.) Positional control in a model problem of an aircraft taking off. (Russian) 91d:70018
 — (with Kein, V. M.; Patsko, V. S.) Application of the methods of the theory of differential games to the problem of controlling an aircraft when landing. (Russian) 91d:70019
 Britov, N. A. A study of the controlling action of a magnetic field for the single-component flow of a metal. (Russian) 91b:35051
 Brockett, Roger W. Formal languages for motion description and map making. (see 91i:70003)
 Bruch, J. C., Jr. see Sadigh-Esfandiari, R.; et al., 91e:73090
 Chan, Wai Leung. (with Guo, Bao Zhu) Optimal birth control of population dynamics. II. Problems with free final time, phase constraints, and mini-max costs. 91c:92045
 Christensen, G. S. (with Soliman, S. A.; Nieva, R.) Optimal control of distributed nuclear reactors. 91b:93002
 Clements, John C. Minimum-time turn trajectories to fly-to points. 91b:49049
 Demidenko, N. D. Problems in optimization of information-measuring systems. 91k:49029
 Dishliev, A. B. see Bainov, D. D., 91i:92006
 Efimov, E. V. (with Kazakov, I. E.) Optimal filtering in random-structure dynamic systems with a meter controlled by an indicator. 91m:93128
 Fedorov, Vyacheslav Vasil'evich. see Perevozchikov, A. G., 91c:49059
 Gao, Wei Bing. see Qu, Zhi Qiang. (Not in MR)
 Gawronski, Włodzimierz. (with Juang, Jer-Nan) Model reduction in limited time and frequency intervals. 91b:93034
 Gilbert, E. G. see Vinh, N. X.; et al., 91h:70025
 González, Roberto L. V. (with Tarzia, Domingo Alberto) Optimization of heat flux in domains with temperature constraints. 91h:35335
 Gukasyan, A. A. Optimal control of a manipulator with electromechanical drive systems. (Russian. Armenian summary) (see 91g:00028)
 Guo, Bao Zhu. see Chan, Wai Leung, 91c:92045
 Hakomori, K. see Yoshii, K., 91a:93004
 Howe, R. M. see Vinh, N. X.; et al., 91h:70025
 Hua, Xiang Ming. see Qian, Feng; et al., (Not in MR)
 Iftar, Altug. Optimal solution to the servomechanism problem for systems with stochastic and deterministic disturbances. 91h:93031
 Itamiya, Keietsu. see Shin, Seichi; et al., (Not in MR)
 Juang, Jer-Nan. see Gawronski, Włodzimierz, 91b:93034
 Kazakov, I. E. see Efimov, E. V., 91m:93128
 Kazakov, Vladimir Aleksandrovich. (with Krotov, V. F.) Optimal control of resonant interaction between light and matter. 91e:81125
 Kein, V. M. see Botkin, N. D.; et al., 91d:70019
 Kim, Yu. V. An approach to suboptimal filtering in applied problems of information processing. 91m:93130
 Krasov, A. I. see Botkin, N. D., 91d:70018
 Krotov, V. F. see Kazakov, Vladimir Aleksandrovich, 91e:81125
 Lia, Jie. (with Wang, Mian Sen; Roberts, P. D.) Improvements in the formulation and solution approach for stochastic optimizing control of steady state industrial processes. 91h:93077
 Lin, Xungao. (with Tade, Moses O.; Newell, Robert B.) Output structural controllability condition for the synthesis of control systems for chemical processes. (Not in MR)
 La, Ping. see Vinh, N. X.; et al., 91h:70025
 Newell, Robert B. see Lin, Xungao; et al., (Not in MR)
 Nieva, R. see Christensen, G. S.; et al., 91b:93002
 Nwanenna, C. C. (with Aghedo, E. M.) Reliability monitoring and control in electric power systems. (Not in MR)
 Oguztorelli, M. N. (with Stein, R. B.) Optimal task performance of antagonistic muscles. (Not in MR)
 Patsko, V. S. see Botkin, N. D.; et al., 91d:70019
 Perevozchikov, A. G. (with Fedorov, Vyacheslav Vasil'evich) Approximation of efficiency relations in the optimization of dynamical systems. (Russian) 91c:49059
 Potapov, A. A. see Volovodov, S. K.; et al., 91c:34091
 Qian, Feng. (with Hua, Xiang Ming; Yu, Jin Shou) Optimal control of bilinear systems with time-delay and its applications to a distillation column. (Chinese summary) (Not in MR)
 Qu, Zhi Qiang. (with Gao, Wei Bing) Dynamic output feedback variable structure control of large space structures. (Chinese. English summary) (Not in MR)
 Roberts, P. D. see Lin, Jie; et al., 91h:93077
 Razuvayev, E. N. see Volovodov, S. K.; et al., 91c:34091
 Sadigh-Esfandiari, R. (with Sloss, J. M.; Bruch, J. C., Jr.) Passive optimal control of an antisymmetric angle-ply laminate. 91e:73090
 Shin, Seichi. (with Itamiya, Keietsu; Ando, Kazuaki) Practical hybrid adaptive control taking into consideration computational time. (Not in MR)
 Singh, Sahjendra N. Ultimate boundedness control of uncertain systems with application to roll coupled aircraft maneuver. 91a:93027
 Sira-Ramírez, Hebert. A variable structure control approach to the problem of soft landing on a planet. 91c:70052
 Sloss, J. M. see Sadigh-Esfandiari, R.; et al., 91e:73090
 Sokolov, B. N. (with Turova, V. L.) ★ Оптимальное управление маятником в условиях неопределенных помех. (Russian) [Optimal control of a pendulum under conditions of indeterminate noise] 91a:70036
 Soliman, S. A. see Christensen, G. S.; et al., 91b:93002
 Stein, R. B. see Oguztorelli, M. N., (Not in MR)
 Styczeń, Krystyna. Optimal periodic boundary control for a tubular reactor: a performance improvement criterion. 91h:49039
 Suprunenko, S. N. Mean-square approximation with an even nonnegative polynomial. 91i:41007

- Tade, Moses O. *see* Lin, Xunguo; et al., (Not in MR)
 Tarzia, Domingo Alberto *see* Gonzalez, Roberto L. V., 91h:35335
 Turora, V. L. *see* Sokolov, B. N., 91a:70036
 Vasil'ev, A. Yu. The optimal control method in an extremal problem in a class of solutions of the Löwner-Kufarev equation. 91c:30027
 Vinh, N. X. (with Lu, Ping; Howe, R. M.; Gilbert, E. G.) Optimal interception with time constraint. 91h:70025
 Veliovodor, S. K. (with Potapov, A. A.; Rozenvasser, E. N.) Numerical-analytical investigation of periodic regimes in multiply-connected nonlinear pulse systems. 91c:34091
 Wang, Mian Sen *see* Lin, Jie; et al., 91h:93077
 van Woerkom, P. Th. L. M. Mathematical models of flexible spacecraft dynamics: a survey of order reduction approaches. (Not in MR)
 Xaba, A. B. Boundedness in persistently disturbed systems via the "second method" of Liapunov. 91a:49028
 Yoshii, K. (with Hakomori, K.) Characteristic multiplier assignment in continuous-time linear periodic systems. 91a:93004
 Yu, Jin Shou *see* Qian, Feng; et al., (Not in MR)

93C99 None of the above, but in this section

- Buckley, James J. *see* Ying, Hao; et al., (Not in MR)
 Lam, James Convergence of a class of Padé approximations for delay systems. (Not in MR)
 Patra, Amit (with Prasada Rao, Ganti) General hybrid orthogonal functions and some potential applications in systems and control. (Not in MR)
 Prasada Rao, Ganti *see* Patra, Amit, (Not in MR)
 Siler, William *see* Ying, Hao; et al., (Not in MR)
 Ying, Hao (with Siler, William; Buckley, James J.) Fuzzy control theory: a nonlinear case. (Not in MR)
 Items with secondary classifications in 93C99
 Deng, Ju Long Corrigenda: "Properties of multivariable grey model GM(1, N)" [J. Grey System 1 (1989), no. 1, 25-41; MR 90j:93005]. 91b:93005
 Farag, K. *see* Öz, H.; et al., (Not in MR)
 Öz, H. (with Farag, K.; Venkayya, V. B.) Efficiency of structure-control systems. (Not in MR)
 Venkayya, V. B. *see* Öz, H.; et al., (Not in MR)
 Zaremba, Leszek Saturnin Differential games reducible to optimal control problems. 91a:90207

93Dxx Stability

93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p , l^p , etc.)

- Abdul-Wahab, Abdul-Amir A. Lyapunov-type equations for matrix root-clustering in subregions of the complex plane. 91c:93057
 Abed, Eyad H. *see* Saydy, Lahcen; et al., 91c:93060
 Aksentov, G. S. (with Denisova, T. M.) The Lyapunov function method in a problem of manipulator control. (Russian) (see 91c:93005)
 An, Li Jing *see* Li, Xian Bin, 91c:93058
 Anagnost, J. J. (with Desoer, C. A.) An elementary proof of the Routh-Hurwitz stability criterion. 91c:93075
 Antoniou, G. E. (with Varoufakis, S. J.; Paraskevopoulos, P. N.) A simple stability test for 2-D systems. (Not in MR)
 Babkin, N. A. On stability in the large of a multidimensional system with delaying interactions. (Russian) 91j:93068
 Bajić, Vladimir B. Nonlinear functions and stability of motions of implicit differential systems. 91b:93058
 Benidir, M. (with Picinbono, Bernard) On the zero location of polynomials and the reflection coefficients. 91c:93059
 — (with Picinbono, Bernard) The extended Routh's table in the complex case. 91c:93060
 Bitritiz, Yuval *see* Lev-Ari, Hanech; et al., 91b:93114
 Boyd, Stephen P. (with Yang, Qingping) Structured and simultaneous Lyapunov functions for system stability problems. 91b:93112
 (Carroll, Robert L.) *see* Kara, A. A., (Not in MR)
 Chen, Ting *see* Liao, Dong Chu, (Not in MR)
 Chen, Zong Ji The exponential stability of nonautonomous difference equations for adaptive control. (Chinese summary) (Not in MR)
 Cheng, Yuan Ji Absolute stability of control systems in an infinite Hurwitz angle. (Chinese) (Not in MR)
 Chimishkyan, S. E. Normal approximation, numerical range, and boundary criteria for absolute stability of nonlinear multiply connected automatic control systems. (Not in MR)
 Denisova, T. M. *see* Aksentov, G. S., (91c:93005)
 Desoer, C. A. *see* Anagnost, J. J., 91c:93075
 Emelyanov, S. V. (with Zhivoglyadov, P. V.; Korovin, S. K.; Nikitin, S. V.) A semigroup approach to problems of describing a class of admissible perturbations. 91j:93076
 Feng, Bin Lu Theorems for determining uniform asymptotic stability with respect to partial variables. (Chinese. English summary) (Not in MR)
 Fernando, K. Vince Stability of 2D state-space systems. 91f:93072
 Foo, Y. K. (with Soh, Y. C.) Stability analysis of a family of matrices. 91j:93069
 Fortuna, L. (with Guglielmino, C.; Gallo, Antonio; Nunnari, G.) A method of solving the Lyapunov matrix equation. (Russian and Polish summaries) 91h:93049
 Gallo, Antonio *see* Fortuna, L.; et al., 91h:93049
 Gao, Guo Cheng Practical criteria for absolute stability of the second canonical form of control systems. (Chinese. English summary) (Not in MR)
 Gerasimov, O. I. *see* Yungler, I. B., (Not in MR)
 Gonzalez H., Luis Arturo (with Munro, N.) A note on the closed-form determination of the gramians of a stable time-invariant linear system. (Not in MR)
 Grujić, Ljubomir T. On large-scale systems stability. 91f:93073
 Guglielmino, C. *see* Fortuna, L.; et al., 91h:93049
 Hamanaka, Takashi *see* Hinamoto, Takao; et al., 91f:93074
 Hinamoto, Takao (with Hamanaka, Takashi; Mackawa, Sadao) Lyapunov stability of two-dimensional digital filters. 91f:93074
 Huang, Jie (with Rugh, Wilson J.) Approximate noninteracting control with stability for nonlinear systems. 91c:93061
 Ichikawa, Akira Stability of flexible systems. 91c:93057
 Kailath, Thomas *see* Lev-Ari, Hanech; et al., 91b:93114
 Kara, A. A. (with Ünver, Z.) Comments on: "A Lyapunov function of two-dimensional linear systems" [IEEE Trans. Automat. Control 31 (1986), no. 2, 170-172; MR 87d:93066] by H. Mahgoub and R. L. Carroll. (Not in MR)
 Khusainov, D. Ya. (with Shatyko, A. V.) Absolute stability of control systems with retarded argument. 91b:93113
 Korovin, S. K. *see* Emelyanov, S. V.; et al., 91f:93076
 Kozjak, V. S. On the absolute stability of systems with asynchronously operating pulse elements. 91j:93070
 — Absolute stability of discrete desynchronized systems. 91m:93083
 Krut'ko, P. D. Conversion of Lyapunov's direct method in problems of dynamical system control. 91m:93084
 Lee, Soodong (with Meerkov, Semyon M.) Vibrational feedback control in the problem of absolute stability. (Not in MR)
 Leifura, V. N. Stability of a linear automatic control system with slowly changing parameters. (Ukrainian. Russian summary) (Not in MR)
 Levan, N. The left shift semigroup approach to stability of distributed systems. 91j:93077
 Lev-Ari, Hanech (with Bitritiz, Yuval; Kailath, Thomas) Generalized Bezoutians and efficient root-location. 91b:93114
 Li, Jun Xiang A stability analysis of large scale discrete systems with unstable subsystems. (Chinese. English summary) 91i:93078
 Li, Xian Bin (with An, Li Jing) Comprehensive damping coefficient. A new definition to damping effect of linear time-invariant systems. 91c:93058
 Liao, Dong Chu (with Chen, Ting) Stability of state observers for bilinear systems and their feedback controls. (Chinese. English summary) (Not in MR)
 Liao, Xiao Xin Necessary and sufficient conditions for absolute stability of Lurie indirect control systems. 91m:93085
 — *see also* Liao, Hui Min, 91f:93075
 Liberzon, M. R. An inner criterion for absolute stability of nonstationary control systems. 91c:93059
 Liu, Dan (with Szidarovszky, Ferenc) Global asymptotical stability of dynamic systems with modified contractions. (Not in MR)
 Mackawa, Sadao *see* Hinamoto, Takao; et al., 91f:93074
 (Mahgoub, H.) *see* Kara, A. A., (Not in MR)
 Mandal, Purnendu *see* Mohapatra, Pratap K. J.; et al., (Not in MR)
 Martynuk, A. A. (with Obolenkii, A. Yu.) On the theory of one-sided models in spaces with arbitrary cones. 91j:93071
 Matvilichuk, K. S. On the technical stability of processes with distributed parameters. (Russian) (Not in MR)
 Meerkov, Semyon M. *see* Lee, Soodong, (Not in MR)
 Milyaj, Wendell M. A Lyapunov strong stability theorem on Hilbert space. 91b:93115
 Mohapatra, Pratap K. J. (with Sharma, Sushil K.; Mandal, Purnendu) Use of the Lyapunov stability method for policy design in a class of system dynamics models. (Not in MR)
 Munro, N. *see* Gonzalez H., Luis Arturo, (Not in MR)
 Muratori, Simona (with Rinaldi, Sergio) Excitability, stability, and sign of equilibria in positive linear systems. 91j:93072
 Nablach, V. E. Equilibrium states and local stability of nonlinear dynamical control systems. I. (Russian) 91m:93086
 Nikitin, S. V. *see* Emelyanov, S. V.; et al., 91f:93076
 Novitskii, V. V. Feedback and the Lyapunov function in linear systems. (Russian) 91d:93049
 Nunnari, G. *see* Fortuna, L.; et al., 91h:93049
 Obolenkii, A. Yu. *see* Martynuk, A. A., 91j:93071
 Paraskevopoulos, P. N. *see* Antoniou, G. E.; et al., (Not in MR)
 Peng, Xiao Lin (with Xie, Da Lai) Stability of a class of nonlinear large-scale systems. (Chinese. English summary) (Not in MR)
 Picinbono, Bernard *see* Benidir, M., 91c:93059 and 91c:93060
 Rapoport, L. B. Absolute stability bound for nonlinear time-dependent systems and its connection with the construction of invariant functions. 91j:93073
 Rinaldi, Sergio *see* Muratori, Simona, 91j:93072
 Rugh, Wilson J. *see* Huang, Jie, 91c:93061
 Savkin, A. V. A criterion for absolute stability of nonlinear control systems with a periodically nonstationary linear part. 91i:93079
 Saydy, Lahcen (with Tits, André L.; Abed, Eyad H.) Guardian maps and the generalized stability of parametrized families of matrices and polynomials. 91c:93060
 Shahalin, A. V. A matrix scheme for the investigation of stability. 91j:93074
 Sharma, Sushil K. *see* Mohapatra, Pratap K. J.; et al., (Not in MR)
 Shatyko, A. V. *see* Khusainov, D. Ya., 91b:93113
 Shu, Huang Stability of nonlinear comparison equations for discrete large-scale systems. 91m:93087
 Skorodinskii, V. I. Iterative methods for constructing Lyapunov-Krasovskii functionals for linear systems with delay. (Not in MR)
 Soh, Y. C. *see* Foo, Y. K., 91j:93069
 Szidarovszky, Ferenc *see* Liu, Dan, (Not in MR)
 Tits, André L. *see* Saydy, Lahcen; et al., 91c:93060
 Ünver, Z. *see* Kara, A. A., (Not in MR)
 Varga, Andras A note on Hammarling's algorithm for the discrete Lyapunov equation. 91m:93088
 Varoufakis, S. J. *see* Antoniou, G. E.; et al., (Not in MR)

Wang, Gao Rong² An absolutely stable order-reduction method for a direct control system. (Chinese. English summary) (Not in MR)

Wang, Peng Gao Absolute stability of several classes of time-delay direct control systems. (Chinese. English summary) (Not in MR)

Xiao, Hui Min (with Liao, Xiao Xin) Stability and boundedness of large-scale discrete systems relative to a subset of the variables. (Chinese) 91f:93075

— Boundedness of discrete systems and their perturbed systems with respect to part of the variables. (Chinese. English summary) 91m:93089

Xie, Da Lai see Peng, Xiao Lin, (Not in MR)

Xie, Sheng Li Unconditional stability of linear, constant open-loop neutral control systems with time delays. (Chinese. English summary) 91f:93080

Yakovlev, V. A. Methods of the theory of absolute stability in invariance problems. (Russian) 91k:93062

Yang, Qianping see Boyd, Stephen P., 91h:93112

Yunger, I. B. (with Gerasimov, O. I.) Algebraic criteria for absolute stability. (Not in MR)

Zheng, Long Xin (with Zou, Yong Hua) The algebraic criterion for unconditional stability of higher-dimensional constant linear control systems with time delay. (Chinese. English summary) (Not in MR)

Zhivoglyadov, P. V. see Emel'yanov, S. V.; et al., 91f:93076

Zhong, Yi Lin Applications of stability theory of interval matrices to stability of time-varying systems. (Chinese. English summary) 91f:93043

Zlotnik, Mariusz Application of Lyapunov functionals to studying stability of linear hyperbolic systems. 91h:93050

Zou, Yong Hua see Zheng, Long Xin, (Not in MR)

Items with secondary classifications in 93D05

Aisagaliyev, S. A. Controllability and stability of nonlinear systems. (Russian) 91c:93005

Alliev, Fikret Akhmadali oglu (with Borydyug, B. A.; Larin, V. B.) Comments on: "A stability-enhancing scaling procedure for Schur-Riccati solvers" [Systems Control Lett. 12 (1989), no. 3, 241–250; MR 90c:65063] by C. Kenney, A. J. Laub and M. Wette. 91g:65106

Al-Mazzeedi, Moosa M. Analysis of weighted integrals by using orthogonal state variables. 91b:93080

Bainov, D. D. see Kulev, G. K., 91j:34126

Benzaouia, Abdellah see Burgat, Christian; et al., 91c:93047

Borydyug, B. A. see Alliev, Fikret Akhmadali oglu; et al., 91g:65106

Borne, Pierre (with Richard, J.-P.; Tahiri, M.) Estimation of attractive domains for locally stable or unstable systems. 91f:93095

Burgat, Christian (with Benzaouia, Abdellah; Tarbouriech, S.) Positively invariant sets of discrete-time systems with constrained inputs. 91c:93047

Cai, Da Yong see Chu, De Lin, 91j:65077

Cao, Qing Jie The partial stability for linear discrete systems. 91d:39001

— see also Huang, Li Min, (Not in MR)

Chen, Guang Yi (with Shen, Cheng Min) Hyperglobal asymptotic stability. (Chinese. English summary) (Not in MR)

Chojnowski, Fabien see Gutman, Shaul, 91m:93101

Chu, De Lin (with Cai, Da Yong) Block diagonal stabilization of matrices. (Chinese. English summary) 91j:65077

Corless, M. Guaranteed rates of exponential convergence for uncertain systems. 91c:93032

Deng, Ju Long Grey information space. (Not in MR)

Dym, Harry (with Young, Nicholas J.) A Schur-Cohn theorem for matrix polynomials. 91m:47016

Egorov, Aleksandr Ivanovich (with Kogut, P. I.) Stability with respect to the state of a system of integro-differential equations of nonstationary aero-elasticity. (Russian) 91m:73057

Esfandiari, F. (with Khalil, H. K.) Stability analysis of a continuous implementation of variable structure control. 91c:93031

Gao, Xiao Lin (with Zhang, Yong Chuan) Decentralized MRAS robust control of interconnected systems with measurable interconnection terms. (Chinese. English summary) 91b:93010

Gruljé, Ljubomir T. Tracking versus stability: theory (tutorial paper). 91h:93030

Gutman, Shaul (with Chojnowski, Fabien) Fixed and minimal order compensators. 91m:93101

Hill, David J. (with Mareels, Iven M. Y.) Stability theory for differential/algebraic systems with application to power systems. 91h:34079

Huang, Li Min Comment: "The partial stability for linear discrete systems" [J. Math. Res. Exposition 9 (1989), no. 4, 541–544; MR 91d:39001] by Q. J. Cao. (Chinese) (Not in MR)

Kan, V. L. (with Kel'zon, A. S.) Stability and controllability in proportional navigation. 91k:70029

Kel'zon, A. S. see Kan, V. L., 91k:70029

(Kenney, Charles) see Alliev, Fikret Akhmadali oglu; et al., 91g:65106

Khalil, H. K. see Esfandiari, F., 91m:93031

Khitrov, G. M. Construction of polynomials with given Hurwitz determinants and a representation of the solution of a Lyapunov matrix equation. 91m:65030

Koditschek, Daniel E. The application of total energy as a Lyapunov function for mechanical control systems. 91d:58237

Kogut, P. I. see Egorov, Aleksandr Ivanovich, 91m:73057

Korennevskii, D. G. An algebraic coefficient criterion for convergence "with reserve" (exponential stability) of solutions of linear stationary difference equations. (Not in MR)

Krenz, Gary S. (with Miller, Richard K.) Stability analysis of almost sinusoidal periodic oscillations in nonlinear control systems subjected to nonconstant periodic input. 91m:34081

Kulev, G. K. (with Bainov, D. D.) Stability of the solutions of impulsive integro-differential equations in terms of two measures. 91j:34126

Larin, V. B. see Alliev, Fikret Akhmadali oglu; et al., 91g:65106

(Laub, Alan J.) see Alliev, Fikret Akhmadali oglu; et al., 91g:65106

Leung, Ghnter Control and stabilization of a flexible robot arm. 91b:73073

Liu, Yong Qing see Xiao, Hui Min, 91h:34082

Mao, Xue Rong Exponential stability for nonlinear stochastic differential equations with respect to semimartingales. 91g:60072

Mareels, Iven M. Y. see Hill, David J., 91h:34079

Markechko, M. I. (with Ryboshov, M. V.) On the dissipativity of continuously-discrete systems. (Not in MR)

Martynuk, A. A. Application of Lyapunov matrix-functions in studying the motion of systems with lumped and distributed parameters. (Russian. English summary) 91f:34064

Miller, Richard K. see Krenz, Gary S., 91m:34081

Morozov, M. V. An algorithm for the analysis of the stability of linear periodic systems and its realization on a computer. 91c:34057

Mukherjee, Debasis (with Roy, A. B.) Uniform persistence and global stability of two predator pairs linked by competition. 91f:92007

Nakomechani, A. N. Probability-theoretic generalization of the second Lyapunov method. (Russian. English summary) 91c:60114

Pokrovskii, A. V. (with Semenov, M. E.) Stable periodic regimes in control systems with monotone nonlinearities. 91c:34068

Richard, J.-P. see Borne, Pierre; et al., 91f:93095

Roy, A. B. see Mukherjee, Debasis, 91f:92007

Ryboshov, M. V. see Markechko, M. I., (Not in MR)

Semenov, M. E. see Pokrovskii, A. V., 91c:34068

Shaked, U. see Shats, S., 91b:93108

Shats, S. (with Shaked, U.) Use of approximate discrete-time models in filtering and regulation of continuous-time processes. 91b:93108

Shen, Cheng Min see Chen, Guang Yi, (Not in MR)

Smirnova, V. B. Stability of singular distributed dynamical systems with angular coordinates. 91j:34127

Song, Gao Zhu Exponential stability of linear dynamical systems in Hilbert spaces. 91m:47058

Stepanov, A. V. On the modification of some of M. Araki's results. 91m:34060

Sugaya, Jyunichi (with Takeda, Hiroshi) Ultimate boundedness of uncertain linear systems under some control laws. 91b:93082

Sun, Ya Zhi The Lyapunov function and the comparison principle for discrete systems. (Chinese. English summary) 91j:93096

Tahiri, M. see Borne, Pierre; et al., 91f:93095

Takeda, Hiroshi see Sugaya, Jyunichi, 91b:93082

Tarbouriech, S. see Burgat, Christian; et al., 91c:93047

Tsinias, John Observer design for nonlinear systems. 91b:93021

— Further results on the observer design problem. 91c:93011

— A correction note on the paper: "Further results on the observer design problem" [Systems Control Lett. 14 (1990), no. 5, 411–418; MR 91c:93011]. 91j:93015

Wang, Hong Yu² see Yin, Fu Liang, 91f:93024

(Wette, Matt) see Alliev, Fikret Akhmadali oglu; et al., 91g:65106

Wittenmark, Björn Adaptive stability augmentation. (Not in MR)

Xiao, Hui Min (with Liu, Yong Qing) Partial exponential stability of large-scale system. (Chinese summary) 91h:34082

Xie, Sheng Li C_1 -stability of a class of large-scale neutral systems with variable time delays. (Chinese) 91f:34089

Xu, Dao Yi Stability of time-delay linear systems. (Chinese. English summary) 91c:34083

Xu, Song A counterexample and some further results on Siljak's conjecture. (Chinese. English summary) 91f:15039

Yakovlev, L. M. A method for the optimization of the parameters of a nonlinear controller for platform-free inertial navigational systems under constantly acting perturbations. (Russian) (Not in MR)

— Analytic construction of a set of controllers for platform-free inertial navigational systems with constantly acting disturbances. (Russian) (Not in MR)

Yin, Fu Liang (with Wang, Hong Yu²) Transformation and stability of a class of linear time-varying discrete systems. (Chinese. English summary) 91f:93024

Young, Nicholas J. see Dym, Harry, 91m:47016

Zhang, Yong Chuan see Gao, Xiao Lin, 91b:93010

Zhao, Su Xia On absolute stability of control system with several executive elements. 91b:93151

93D09 Robust stability

Abdul-Wahab, Abdul-Amir A. Perturbation bounds for root-clustering of linear continuous-time systems. (Not in MR)

Abelyan, M. S. Conditions for the K^∞ -stability of an automatic control system by means of a matrix of dynamic coefficients. (Russian. Armenian summary) 91h:93051

Aleksandrov, V. V. (with Raznadiezhina, I. E.; Torres Montoya, A.) Absolute stability of one-dimensional oscillation systems. (Spanish. English summary) 91h:93052

Al-Fuhaid, A. S. see Bahnasawi, Ahmed A.; et al., 91b:93116

Anderson, Brian D. O. see Kraus, Frantisek J.; et al., 91b:93125; 91d:93055 and Mansour, Mohamed; et al., 91f:93082

Arkan, Yaman see Chiu, Min-Sen, 91m:93091

Badr, R. L. (with Hassan, M. F.; Bernussou, Jacques; Bilal, A. Y.) Stability and performance robustness for multivariable linear systems. 91d:93050

Bahnasawi, Ahmed A. (with Al-Fuhaid, A. S.; Mahmoud, Magdi S.) A new hierarchical control structure for a class of uncertain discrete systems. 91b:93116

Banda, Siva S. see Yeh, Hsi-Han; et al., 91j:93082

Bandoni, José A. (with Rotstein, H.; Desages, Alfredo; Romagnoli, José A.) Necessary and sufficient conditions for robust stabilization with fixed order conditions. 91c:93058

Barabanov, N. E. Stabilization of linear time-dependent systems with uncertainty in the coefficients. 91f:93081

Barmish, B. Ross (with Khargonekar, Pramod P.; Shi, Zhi Cheng; Tempo, Roberto) A pitfall in some of the robust stability literature. 91a:93044

— (with Shi, Zhi Cheng) Robust stability of a class of polynomials with coefficients depending multilinearly on perturbations. 91f:93076

— (with Khargonekar, Pramod P.; Shi, Zhi Cheng; Tempo, Roberto) Robustness margin need not be a continuous function of the problem data. 91g:93025

- see also Wei, Ke Hui, 91d:93057; Soh, Y. C., 91b:93129; Chuang, Yao T'ang, 91c:93059 and Tits, André L., 91f:93085
- Bartlett, Andrew C. see Yeh, Hsi-Han; et al., 91j:93082
- Benditt, M. (with Picinbono, Bernard) Extended table for eliminating the singularities in Routh's array. 91b:93117
- Bernstein, Dennis S. (with Haddad, Wassim M.) Robust stability and performance via fixed-order dynamic compensation with guaranteed cost bounds. 91c:93061
- (with Haddad, Wassim M.) Robust stability and performance analysis for state-space systems via quadratic Lyapunov bounds. 91k:93063
- Bernussou, Jacques (with Dias Peres, Pedro Luis; Geromel, J. C.) A linear programming oriented procedure for quadratic stabilization of uncertain systems. 91b:93118
- see also Badr, R. I.; et al., 91d:93050
- Bhattacharyya, Shankar Prasad see Chapellat, Hervé; et al., 91a:93045; 91b:93119; 91f:93077; 91j:93075 and 91m:93090
- Bilal, A. Y. see Badr, R. I.; et al., 91d:93050
- Bose, N. K. see Kim, Kevin D., 91c:93064
- Cavallio, Alberto (with Celentano, Giovanni; De Maria, Giuseppe) Robust stability analysis of polynomials with linearly dependent coefficient perturbations. 91k:93064
- Celentano, Giovanni see Cavallio, Alberto; et al., 91k:93064
- Chait, Yossi see MacCluer, C. R., (Not in MR)
- Chao, Chien Hsiang (with Stafford, H. L.) Necessary and sufficient condition in Lyapunov robust control: multi-input case. 91g:93026
- Chapellat, Hervé (with Bhattacharyya, Shankar Prasad; Dahleh, Mohammed A.) Robust stability against structured and unstructured perturbations. 91a:93045
- (with Bhattacharyya, Shankar Prasad; Dahleh, Mohammed A.) On the robust stability of a family of disk polynomials. 91b:93119
- (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Robust stability under structured and unstructured perturbations. 91j:93075
- (with Bhattacharyya, Shankar Prasad; Dahleh, Mohammed A.) Robust stability of a family of disc polynomials. 91f:93077
- (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) On robust nonlinear stability of interval control systems. 91m:93090
- Chen, Jie (with Freudenberg, James S.) Bounds on the three-block structured singular value. (Not in MR)
- Ch'iu, Po Hsien (with Lin, Chun Liang) On the stability bounds of singularly perturbed systems. 91f:93078
- see also Chou, Jyh Horng, 91k:93065
- Chen, Yu-Hwa Robust control system design: nonadaptive versus adaptive. 91f:93079
- Cheres, E. (with Palmer, Z. J.; Gutman, Shaul) Design of input matrices of stabilizing controllers for uncertain systems. (Not in MR)
- Chia, Min-Sen (with Arkun, Yaman) A new result on relative gain array, Niederlinski index and decentralized stability condition: 2×2 plant cases. 91m:93091
- Chou, Jyh Horng (with Ch'iu, Po Hsien) New approach for the stability analysis of interval matrices. 91k:93065
- Chuang, Yao T'ang Comments on: "A generalization of Kharitonov's four-polynomial concept for robust stability problems with linearly dependent coefficient perturbations" [IEEE Trans. Automat. Control 34 (1989), no. 2, 157-165; MR 90b:93093] by B. R. Barmish. 91c:93059
- Robust stability and robust pole assignment of linear systems with structured uncertainty. (Not in MR)
- Corless, M. (with Zhu, Guoming; Skelton, Robert E.) Improved robustness bounds using covariance matrices. 91k:93066
- Dahleh, Mohammed A. see Chapellat, Hervé; et al., 91a:93045; 91b:93119; 91f:93077; 91j:93075 and 91m:93090
- De Maria, Giuseppe see Cavallio, Alberto; et al., 91k:93064
- Desages, Alfredo see Bandoni, José A.; et al., 91c:93058
- Dias Peres, Pedro Luis see Bernussou, Jacques; et al., 91b:93118
- Dion, Jean Michel see Giri, Fouad; et al., 91d:93051
- Djafarzadeh, T. E. Simple robust stability tests for polynomials with real parameter uncertainty. 91c:93060
- Dolezal, Václav Some results on robust stability of general input-output systems. 91f:93080
- Duan, Guang Ren (with Wu, Guang Yu) Time domain analysis of stability robustness for linear systems. (Chinese) (Not in MR)
- (with Wu, Guang Yu) Time domain analysis of stability robustness for linear systems. II. (Chinese. English summary) (Not in MR)
- Dugard, Luc see Giri, Fouad; et al., 91d:93051
- Dugaro, I. V. (with Smagina, E. M.) Ensuring the stability of a system with indeterminate parameters. (Russian) 91k:93067
- Fan, Michael K. H. see Panier, Eliane R.; et al., 91b:93126
- Feng, Weining On practical stability of linear multivariable feedback systems with time-delays. 91k:93068
- Foo, Y. K. (with Soh, Y. C.) A generalization of strong Kharitonov theorems to polytopes of polynomials. 91f:93081
- see also Soh, Y. C., 91b:93129 and 91k:93084
- Freudenberg, James S. see Chen, Jie, (Not in MR)
- Fu, Miyase Polytopes of polynomials with zeros in a prescribed region: new criteria and algorithms. 91c:93061
- see also Soh, Y. C., 91b:93129 and Tits, André L., 91f:93085
- Geraschenko, F. G. (with Pantaleo, L. A.) ★ Исследование задач практической устойчивости и чувствительности динамических систем, зависящих от параметров. (Russian) [A study of problems of practical stability and sensitivity of dynamical systems that depend on parameters] 91m:93092
- Georgios, Tryphon T. (with Smith, Malcolm C.) Optimal robustness in the gap metric. 91b:93120
- Geromel, J. C. see Bernussou, Jacques; et al., 91b:93118
- Giri, Fouad (with Dion, Jean Michel; Dugard, Luc; M'Saad, Mohamed) Quelques résultats de stabilité robuste en commande adaptative. (English summary) [Some robust stability results in adaptive control] 91d:93051
- Gutman, Shaul see Cheres, E.; et al., (Not in MR)
- Haddad, Wassim M. see Bernstein, Dennis S., 91c:93061 and 91k:93063
- Han, Qing Long (with Wu, Qi Bin) Counterexample to: "Root-locus approach to the stability analysis of interval matrices" [Internat. J. Control 46 (1987), no. 3, 817-822; MR 88i:65067] by Y.-T. Yang, T. S. Kuo, C. F. Hsu, and S. T. Wang. 91b:93121
- (with Wu, Qi Bin) Stability robustness analysis of discrete linear systems. 91j:93076
- Hassan, M. F. see Badr, R. I.; et al., 91d:93050
- Heise, Sharon A. see Yeh, Hsi-Han; et al., 91j:93082
- Hirichsen, D. (with Ilchmann, Achim; Pritchard, V. J.) Robustness of stability of time-varying linear systems. 91b:93122
- (with Pritchard, A. J.) Robustness measures for linear state space systems under complex and real parameter perturbations. 91c:93062
- (with Pritchard, A. J.) A note on some differences between real and complex stability radii. 91d:93052
- Holot, Christopher V. Markov's theorem of determinants and the stability of families of polynomials. 91b:93123
- Kharitonov-like results in the space of Markov parameters. 91c:93062
- (Ho, Chén Fa) see Han, Qing Long, 91b:93121
- Ilchmann, Achim see Hirichsen, D.; et al., 91b:93122
- Ilyasov, B. G. (with Kaba'nov, Yu. S.; Kolushov, V. V.) On constructing stability regions of multiply-connected automatic control systems in the amplitude-phase characteristics plane of their separable subsystems. (Not in MR)
- Ionescu, Dan (with Lin, Jing Yue) Optimal robust stabilization compensator design: a deterministic approach. 91d:93053
- Jury, E. I. see Kraus, Frantisek J.; et al., 91a:93046; Katbab, A., 91c:93063; 91b:93053; 91b:93054 and 91j:93077
- Kaba'nov, Yu. S. see Ilyasov, B. G.; et al., (Not in MR)
- Kao, Chien Chung see Wang, Wen Chün; et al., 91m:93095
- Katbab, A. (with Jury, E. I.) On the strictly positive realness of Schur interval functions. 91b:93053
- (with Kraus, Frantisek J.; Jury, E. I.) Some Schur-stability criteria for uncertain systems with complex coefficients. 91j:93077
- (with Jury, E. I.) Robust Schur stability of a complex-coefficient polynomials set with coefficients in a diamond. 91b:93054
- (with Jury, E. I.) On the stability of a general polynomial in the space of Markov parameters. 91c:93063
- Khargonekar, Pramod P. see Barmish, B. Ross; et al., 91a:93044 and 91g:93025
- Kharitonov, V. L. see Melicheva, T. L., 91f:93083
- Khorasani, K. Corrigendum: "Robust stabilization of nonlinear systems with unmodelled dynamics" [Internat. J. Control 50 (1989), no. 3, 827-844; MR 90i:93112]. 91d:93054
- Kim, Kevin D. (with Bose, N. K.) Vertex implications of stability for a class of delay-differential interval system. 91c:93064
- Kimura, Hidenori State space approach to the classical interpolation problem and its applications. 91b:93124
- Kokame, H. (with Mori, Takehiro) A root distribution criterion for interval polynomials. 91b:93069
- Kolushov, V. V. see Ilyasov, B. G.; et al., (Not in MR)
- Kosmidou, O. I. Robust stability and performance of systems with structured and bounded uncertainties: an extension of the guaranteed cost control approach. 91b:93055
- Korvakin, V. S. Algebraic unsolvability of a problem on the absolute stability of desynchronized systems. 91c:93065
- Stability of phase-frequency desynchronized systems under component switching time disturbances. 91j:93078
- Perturbation of linear desynchronized systems. (Not in MR)
- Krasovskii, A. A. Dangerous entropy instability of a control system. (Not in MR)
- Kraus, Frantisek J. (with Mansour, Mohamed; Jury, E. I.) Robust Schur-stability of interval polynomials. 91a:93046
- (with Mansour, Mohamed; Anderson, Brian D. O.) Robust stability of polynomials with multilinear parameter dependence. 91b:93125
- (with Anderson, Brian D. O.; Mansour, Mohamed) Robust stability of polynomials with multilinear parameter dependence. 91d:93055
- (with Truöl, W.) Robust stability of control systems with polytopical uncertainty: a Nyquist approach. 91m:93093
- see also Mansour, Mohamed; et al., 91f:93082 and Katbab, A.; et al., 91j:93077
- Kuo, Tz Shing see Su, Te Jen; et al., 91d:93056 and Han, Qing Long, 91b:93121
- Lin, Chun Liang see Ch'iu, Po Hsien, 91f:93078
- Lin, Jing Yue see Ionescu, Dan, 91d:93053
- MacCluer, C. R. (with Chait, Yossi) Obtaining robust stability operationally. (Not in MR)
- Mahmoud, Magdi S. see Bahnasawi, Ahmed A.; et al., 91b:93116
- Mansour, Mohamed (with Kraus, Frantisek J.; Anderson, Brian D. O.) Strong Kharitonov theorem for discrete systems. 91f:93082
- see also Kraus, Frantisek J.; et al., 91a:93046; 91b:93125; 91d:93055 and Wu, Q. H., 91j:93081
- Matson, Charles L. (with Maybeck, Peter S.) On an assumed convergence result in the LQ/G/LTR technique. 91j:93079
- Maybeck, Peter S. see Matson, Charles L., 91j:93079
- Medanic, J. V. see Veilleux, R. J.; et al., 91c:93063
- Melicheva, T. L. (with Kharitonov, V. L.) On the stability of systems with retarded argument. (Russian) 91f:93083
- Milanesi, M. see Vicino, A.; et al., 91k:93086
- Miyama, Keiji see Sakaniwa, Kohichi; et al., 91i:93083
- Mori, Takehiro see Kokame, H., 91k:93069
- M'Saad, Mohamed see Giri, Fouad; et al., 91d:93051
- Nieuwenhuis, J. W. From simple to complicated: noncausal bounded input, bounded output stability in linear discrete time models in the deterministic and stochastic cases. 91b:93082
- Palmer, Z. J. see Cheres, E.; et al., (Not in MR)
- Pan, Sheng Qiang Robustness and sensitivity of a linear quadratic state feedback regulator with perturbations. (Chinese. English summary) 91j:93080
- Panier, Eliane R. (with Fan, Michael K. H.; Tits, André L.) On the robust stability of polynomials with no cross-coupling between the perturbations in the coefficients of even and odd powers. 91b:93126

- Pantaleoni, L. A. *see* Garaschenko, F. G., 91m:93092
- Perkins, W. R. *see* Veillette, R. J.; et al., 91c:93063
- Petersen, Ian R. Extending Kharitonov's theorem to more general sets of polynomials. 91h:93127
- A new extension to Kharitonov's theorem. 91h:93056
- Petrovski, Djordjija B. Improved measures of stability robustness for linear state space models. (Chinese summary) 91c:93066
- Picinbono, Bernard *see* Benidir, M., 91h:93117
- Pritchard, A. J. *see* Hinrichsen, D.; et al., 91b:93122; 91d:93052 and 91c:93062
- Rantzer, Anders Hurwitz testing sets for parallel polytopes of polynomials. 91f:93084
- Razmadzina, I. E. *see* Aleksandrov, V. V.; et al., 91h:93052
- Romagnoli, José A. *see* Bandoni, José A.; et al., 91c:93058
- Rotstein, H. *see* Bandoni, José A.; et al., 91c:93058
- Sakanawa, Kohichi (with Ueyematsu, Tomohiko; Miyama, Koji) An IIR echo canceller with ensured stability—an extension of Kharitonov's theorem to discrete time system and its application. 91i:93083
- (Saleh, Saad J.) *see* Soh, Y. C., 91b:93129
- Schwartz, B. *see* Yaniv, Oded, (Not in MR)
- de la Sen, Manuel Use of Gronwall's lemma for robust compensation of time-varying linear systems via synthesis of augmented exciting signals. (Not in MR)
- Shi, Zhi Cheng *see* Barmish, B. Ross; et al., 91a:93044; 91f:93076 and 91g:93025
- Skelton, Robert E. *see* Corless, M.; et al., 91k:93066
- Smagina, E. M. *see* Duganova, I. V., 91c:93067
- Smith, Malcolm C. *see* Georgiou, Tryphon T., 91b:93120
- Soh, C. B. Correcting Argoun's approach for the stability of interval matrices. 91b:93128
- Robust stability of discrete-time systems using delta operators. 91k:93070
- Soh, Y. C. (with Foo, Y. K.) Comments on: "Stability of a polytope of matrices: counterexamples" [IEEE Trans. Automat. Control 33 (1988), no. 6, 569–572; MR 89g:93084] by B. R. Barmish, M. Fu and S. Saleh. 91b:93129
- Stability of an entire polytope of polynomials. 91b:93130
- (with Foo, Y. K.) Generalization of strong Kharitonov theorems to the left sector. 91i:93084
- *see also* Foo, Y. K., 91f:93081
- Song, Cheng Chong *see* Wang, Wen Chun; et al., 91m:93095
- Stallord, H. L. *see* Chan, Chien Hsiang, 91g:93026
- Sa, Te Jen (with Kuo, Tè Sheng; Sun, Yu Li) Robust stability of linear perturbed discrete systems with saturating actuators. 91d:93056
- Sun, Yi Li *see* Sun, Te Jen; et al., 91d:93056
- Sun, Zhen Qi *see* Wang, Jia Xing, 91h:93057
- Tempo, Roberto *see* Barmish, B. Ross; et al., 91a:93044 and 91g:93025
- Tesi, A. (with Vicino, A.) Robust absolute stability of Lur'e control systems in parameter space. 91m:93094
- *see also* Vicino, A.; et al., 91i:93086
- Tits, André L. Comments on: "Polytopes of polynomials with zeros in a prescribed set" [IEEE Trans. Automat. Control 34 (1989), no. 5, 544–546; MR 90c:93081] by M. Fu and B. R. Barmish. 91i:93085
- *see also* Panier, Eliane R.; et al., 91b:93126
- Torres Montoya, A. *see* Aleksandrov, V. V.; et al., 91h:93052
- Truß, W. *see* Krums, Frantisek J., 91m:93093
- Uyematsu, Tomohiko *see* Sakanawa, Kohichi; et al., 91h:93083
- Veillette, R. J. (with Medanic, J. V.; Perkins, W. R.) Robust stabilization and disturbance rejection for systems with structured uncertainty. 91c:93063
- Vicino, A. (with Tesi, A.; Milanese, M.) Computation of nonconservative stability perturbation bounds for systems with nonlinearly correlated uncertainties. 91i:93086
- *see also* Tesi, A., 91m:93094
- Wang, Huan Chen *see* Wu, Chong Feng, 91f:93085
- Wang, Jia Xing (with Sun, Zhen Qi) Asymptotic stability and optimal stability of a class of time-varying discrete dynamical systems. (Chinese. English summary) 91h:93057
- (Wang, Sheng Tè) *see* Han, Qing Long, 91h:93121
- Wang, Wei³ A multivariable robust adaptive controller using reduced-order model. 91k:93071
- Wang, Wen Chun (with Song, Cheng Chong; Kao, Chien Chung) Robustness bounds for large-scale time-delay systems with structured and unstructured uncertainties. 91m:93095
- Wei, Ke Hui (with Barmish, B. Ross) Making a polynomial Hurwitz-invariant by choice of feedback gains. 91d:93057
- Quadratic stabilizability of linear systems with structural independent time-varying uncertainties. 91h:93131
- Wu, Chong Feng (with Wang, Huan Chen) The Routh-Hurwitz method in delay-independent stability of linear systems with time delay. (Chinese. English summary) 91f:93085
- Wu, Guang Yu *see* Duan, Guang Ren, (Not in MR) and (Not in MR)
- Wu, Q. H. (with Mansour, Mohamed) H^∞ -optimal solutions of robust regulator problem for linear MIMO systems. 91j:93081
- Wu, Qi Bin *see* Han, Qing Long, 91b:93121 and 91j:93076
- Wu, Yong Xian New results of robust absolutely stable Lurie [Lur'e] systems. 91c:93067
- Yaniv, Oded (with Schwartz, B.) Criterion for loop stability in MIMO feedback systems having an uncertain plant. (Not in MR)
- Yeh, Hsi-Han (with Banda, Siva S.; Heise, Sharon A.; Bartlett, Andrew C.) Robust control design with real-parameter uncertainty and unmodeled dynamics. 91j:93082
- (Yuang, Yan-Tarnq) *see* Han, Qing Long, 91b:93121
- Zak, Stanislaw H. On the stabilization and observation of nonlinear/uncertain dynamic systems. 91d:93058
- Zehet, Ezra Necessary and sufficient conditions for robust stability of a continuous system—the continuous dependency case illustrated via multilinear dependency. 91d:93059
- Zhu, Guoming *see* Corless, M.; et al., 91k:93066
- Items with secondary classifications in 93D09
- Amillo, José M. (with Mata Hernández, F. Agueda) Robust stabilization for certain types of linear systems. (Spanish. English summary) 91m:93112
- Bar-Kana, Ishak Almost-passivity and simple adaptive control of nonstationary continuous linear systems. 91f:93088
- Barmish, B. Ross (with Tempo, Roberto) The robust root locus. 91f:93045
- Chen, Ye-Hwa *see* Gu, Keqin; et al., 91m:93100
- Chou, Jyh Horng Pole-assignment robustness in a specified disk. 91m:93064
- Chu, Y. T. *see* Wu, Wen T'eng; et al., (Not in MR)
- Chuang, Yao T'ang (with Yu, Tsai Chung) Robust pole-assignment for structured perturbation systems. 91i:93055
- Coron, Jean-Michel *see* Pomet, J.-B.; et al., 91m:93079
- Doyle, John C. *see* Fan, Michael K. H.; et al., 91m:93061
- Fan, Michael K. H. (with Tits, André L.; Doyle, John C.) Robustness in the presence of mixed parametric uncertainty and unmodeled dynamics. 91m:93061
- Georgiou, Tryphon T. (with Smith, Malcolm C.) Optimal robustness in the gap metric. 91c:93076
- Gu, Keqin (with Chen, Ye-Hwa; Zohdy, M. A.; Loh, Nan K.) Quadratic stabilizability of uncertain systems: a two level optimization setup. 91m:93100
- Gutman, Shaul \star Root clustering in parameter space. 91k:93081
- Hinrichsen, D. (with Pritchard, A. J.) An application of state space methods to obtain explicit formulae for robustness measures of polynomials. 91d:30009
- Hsiao, Feng Hsiang *see* Hsieh, Jer-Guang, 91g:93018
- Hsieh, Jer-Guang (with Hsiao, Feng Hsiang) Multi-objective controller design for discrete stochastic optimal systems with nonlinear time-varying unmodelled dynamics and noise spectral uncertainties. 91g:93018
- Hu, H. X. (with Loh, Nan K.) Robust optimal parametric LQ control with a guaranteed cost bound and applications. 91g:93019
- Huang, Qing² (with Ma, Zhi En) On stability of some transcendental equations. 91f:34100
- Huseyin, Koncay *see* Yu, Pei, 91h:58080
- Ioannou, Petros A. *see* Tao, Gang, 91m:93077 and (Not in MR)
- Jang, Yu Jen *see* Wu, Wen T'eng; et al., (Not in MR)
- Karimzhanov, A. *see* Martynuk, A. A., 91f:34065
- Kharitonov, V. L. Stability of a family of difference systems. 91f:39002
- Kim, Yu. V. An approach to suboptimal filtering in applied problems of information processing. 91m:93130
- K'ung, Fan Ch'ü *see* Shen, Chin Chung, 91k:93041
- Kuznetsova, V. I. Discrete linear systems with slowly changing parameters. 91e:93048
- Lethend, W. E. (with O'Reilly, John) Performance issues in the individual channel design of 2-input 2-output systems. I. Structural issues. (Not in MR)
- Lim, T. C. *see* Soh, C. B.; et al., 91f:93068
- Lim, Y. H. *see* Soh, C. B.; et al., 91f:93068
- Loh, Nan K. *see* Hu, H. X., 91g:93019 and Gu, Keqin; et al., 91m:93100
- Lucas, T. N. Finding roots by deflated polynomial approximation. 91h:65077
- Ma, Zhi En *see* Huang, Qing², 91f:34100
- Martynuk, A. A. (with Karimzhanov, A.) Stability of large-scale systems with weakly interacting subsystems. 91f:34065
- Mata Hernández, F. Agueda *see* Amillo, José M., 91m:93112
- Nwokah, Osita D. I. Strong robustness in uncertain multivariable systems. 91m:93049
- O'Reilly, John *see* Lethend, W. E., (Not in MR)
- Pomet, J.-B. (with Coron, Jean-Michel; Praly, L.) On periodic solutions of adaptive systems in the presence of periodic forcing terms. 91m:93079
- Praly, L. *see* Pomet, J.-B.; et al., 91m:93079
- Pritchard, A. J. *see* Hinrichsen, D., 91d:30009
- Rapport, L. B. Absolute stability bound for nonlinear time-dependent systems and its connection with the construction of invariant functions. 91j:93073
- Shen, Chin Chung (with K'ung, Fan Ch'ü) Designing robust discrete-time systems by pole assignment. 91k:93041
- Smith, Malcolm C. *see* Georgiou, Tryphon T., 91c:93076
- Soh, C. B. (with Lim, Y. H.; Lim, T. C.) Damping ratio of linear uncertain discrete-time systems. 91f:93068
- Tao, Gang (with Ioannou, Petros A.) Robust adaptive control of plants with unknown order and high frequency gain. 91m:93077
- (with Ioannou, Petros A.) Robust adaptive control—a modified scheme. (Not in MR)
- Tempo, Roberto *see* Barmish, B. Ross, 91f:93045
- Tits, André L. *see* Fan, Michael K. H.; et al., 91m:93061
- Tomizuka, Masayoshi *see* Yang, Wei-Chi, 91f:93069
- Wu, Wen T'eng (with Jang, Yu Jen; Chu, Y. T.) On-line stability index for robust control. (Not in MR)
- Yang, Wei-Chi (with Tomizuka, Masayoshi) Discrete time robust control via state feedback for single input systems. 91f:93069
- Yu, Pei (with Huseyin, Koncay) On generic dynamics related to a 3-fold zero eigenvalue. 91h:58080
- Yu, Tsai Chung *see* Chuang, Yao T'ang, 91i:93055
- Zohdy, M. A. *see* Gu, Keqin; et al., 91m:93100

93D10 Popov-type stability of feedback systems

- Alpasov, Sh. A. A frequency criterion for the stability of control systems with two nonstationary nonlinearities. (Russian) 91c:93064
- Barabanov, N. E. New criteria for absolute stability and instability of automatic control systems with a differentiable nonlinearity. (Russian) 91b:93132
- da Cruz, J. J. (with Geromel, J. C.) Frequency-domain approach to the absolute stability analysis of discrete-time linear-quadratic regulators. 91f:93086
- Gerassimov, O. I. (with Shif, K. V.; Yungler, I. B.) A method of numerical analysis of the stability of automatic systems with scalar nonlinearities. (Not in MR)
- Geromel, J. C. *see* da Cruz, J. J., 91f:93086
- Ögüler, A. Bilel Almost disturbance decoupling with internal stability: frequency domain conditions. (Not in MR)
- Rapport, L. B. Positive definiteness of a quadratic form under quadratic constraints and absolute stability of nonlinear control systems. 91j:93083
- Risvan, Vladimir New results and applications of the frequency domain criteria to absolute stability of nonlinear systems. 91j:93084

Reynolds, Reid G. Robust estimation of covariance matrices. 91f:93087

Shiff, K. V. *see* Gerasimov, O. I.; et al. (Not in MR)

Ye, Bai Ying Necessary and sufficient conditions for absolute stability of two classes of direct control systems. (Chinese) 91f:93085

Yunger, I. B. Criteria for the absolute stability of automatic systems with vector nonlinear blocks. 91c:93065

— *see also* Gerasimov, O. I.; et al. (Not in MR)

Zhang, Wei² The criteria for absolute stability of direct control systems of Lurie type. 91b:93133

Items with secondary classifications in 93D10

Feng, Bin Lu A basic theorem on stability with respect to part of the variables. (Chinese. English summary) (Not in MR)

Ikeda, Masao (with Šiljak, Dragoslav D.) Optimality and robustness of linear quadratic control for nonlinear systems. 91d:93038

Rimskii, G. V. (with Shirinskii, V. P.) A computer-oriented method for analyzing the absolute stability of automatic control systems with two nonlinearities. (Russian) (Not in MR)

Shirinskii, V. P. *see* Rimskii, G. V. (Not in MR)

Šiljak, Dragoslav D. *see* Ikeda, Masao, 91d:93038

Wu, Wei Hua *see* Zhang, Wei², 91c:93059

Yakubovich, V. A. Methods of the theory of absolute stability in invariance problems. (Russian) 91c:93062

Zhang, Wei² (with Wu, Wei Hua) Global asymptotic stability of higher-order nonlinear autonomous differential equations. (Chinese. English summary) 91c:93059

93D15 Stabilization of systems by feedback

Aeyels, Dirk Remarks on the stabilizability of nonlinear systems by smooth feedback. 91a:93047

Ahmed, N. U. (with Li, Peng) Feedback stabilization for perturbed linear systems. 91j:93086

Anan'evskii, I. M. (with Kolmanovskii, V. B.) Stabilization of some controllable systems with aftereffect. 91a:93048

Antschik, V. S. Stabilization of linear control systems. 91m:93096

Bacciotti, Andrea (with Boieri, P.) A characterization of single-input planar bilinear systems which admit a smooth stabilizer. 91m:93097

Baghdadi, Lamia (with Rabah, Rabah) A note on the stabilization of linear systems in Hilbert spaces. 91b:93134

Balramov, F. D. Stabilization of systems with distributed and lumped parameters. (Russian. English summary) (Not in MR)

Balchen, Jens G. The stability of 2×2 multivariable control systems. (Not in MR)

— *see also* Di Ruscio, David, (Not in MR)

Bar-Kana, Ishak Almost-passivity and simple adaptive control of nonstationary continuous linear systems. 91f:93088

Barkit, V. E. Formation of terminal control systems that are stable in a finite time interval. (Not in MR)

Basile, Giuseppe (with Marro, Giovanni; Piazzi, A.) Stability without eigenspaces in the geometric approach: the regulator problem. 91d:93060

Bentama, Joseph (with Hong, Keum S.) Vibrational stabilization and transient behavior analysis of nonlinear parabolic systems with Neumann boundary conditions. 91a:93049

— (with Hong, Keum S.) Vibrational stabilization of nonlinear parabolic systems with Neumann boundary conditions. 91m:93098

Bernhardsson, Bo *see* Hagander, Per, (Not in MR)

Berrahmoune, Larbi Stabilisation de structures flexibles faiblement amorties. (English summary) [Stabilization of weakly damped flexible structures] 91g:93027

Bhattacharyya, Shankar Prasad *see* Keel, L. H., 91c:93066 and 91c:93069

Bloch, Anthony M. (with Marsden, Jerrold E.) Control and stabilization of systems with homoclinic orbits. 91a:93050

Boieri, P. *see* Bacciotti, Andrea, 91m:93097

Boothby, William M. (with Marino, Riccardo) Feedback stabilization of planar nonlinear systems. II. 91b:93135

Bounabat, Abdellah (with Gauthier, Jean-Paul) Weak stabilizability of infinite-dimensional nonlinear systems. 91j:93087

Brave, Y. (with Heymann, M.) Stabilization of discrete-event processes. (Not in MR)

Byrnes, Christopher I. (with Hu, Xiao Ming; Isidori, Alberto) Robust feedback stabilization of nonlinear systems. 91b:93136

— (with Isidori, Alberto) Régulation asymptotique des systèmes nonlinéaires. (English summary) [Asymptotic output regulation of general nonlinear systems] (Not in MR)

— (with Isidori, Alberto) Uniform bounded input-bounded output stabilization of nonlinear systems. 91b:93058

Chang, Fan Jen *see* Chu, Chia Chi, (Not in MR)

Chang, Jun Hsu Robust finite settling time stabilization of discrete time system with structured uncertainty. 91k:93072

Ch'en, Po Hsien *see* Shen, Chin Chung; et al., (Not in MR)

Chen, Ye-Hwa *see* Gu, Keqin; et al., 91m:93100

Ch'in, Chin Hsien *see* Wang, Wen Chin, (Not in MR)

Chojnowski, Fabien *see* Gutman, Shaul, 91m:93101

Chu, Chia Chi (with Chang, Fan Jen) Some results on the problems of decentralized reliable stabilization. (Not in MR)

Conrad, Francis Stabilization of beams by pointwise feedback control. 91b:93137

Coron, Jean-Michel A necessary condition for feedback stabilization. (Not in MR)

Darkhovskii, B. S. (with Magaril-Ilyayev, G. G.) Design of stabilization systems. 91m:93099

Datka, R. Even some internally damped vibrating control systems lose stability when small delays occur in their feedbacks. 91b:93138

Delchamps, David F. Stabilizing a linear system with quantized state feedback. 91c:93068

Deodhare, Girish (with Vidyasagar, M.) l_1 -optimality of feedback control systems: the SISO discrete-time case. (Not in MR)

Di Ruscio, David (with Balchen, Jens G.) An algorithm for design of decentralized suboptimal controllers with a specified structure. (Not in MR)

Drăgan, Vasile (with Halanay, Aristide) Exponential stability of a hybrid system arising in discrete control stabilization. (see 91b:00051)

Emel'yanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Output

stabilization of uncertain systems by discontinuous control. 91b:93059

— (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Stabilization of multidimensional indeterminate objects with respect to output. 91b:93060

Engwerda, Jacob Chr. Stabilizability and detectability of discrete-time time-varying systems. (Not in MR)

Espinosa, Gerardo *see* Ortega, Romeo; et al., (Not in MR)

Feintuch, Abraham Stabilization and sensitivity for eventually time-invariant systems. 91a:93051

Flagbedel, Y. A. (with Pearson, A. E.) Output feedback stabilization of delay systems via generalization of the transformation method. 91b:93139

(Fisher, Ronald Aylmer) *see* O'Donald, Peter, (Not in MR)

Formalskii, A. M. *see* Lavrovskii, E. K., 91k:93074

Gabelaya, A. G. An approach to solving a problem of stabilizing linear autonomous systems with incomplete information. (Russian. English and Georgian summaries) 91i:93087

— α -stabilizability of linear autonomous control systems. (Russian. English and Georgian summaries) 91i:93088

— On a problem of determining minimal fields for the control of dynamical systems. (Russian. English and Georgian summaries) (Not in MR)

Gauthier, Jean-Paul *see* Bounabat, Abdellah, 91j:93087

Glover, Keith *see* Moore, John Barratt; et al., 91b:93144

Gorinevskii, D. M. Stabilization of an infinite-dimensional linear object by means of finite-dimensional state controllers. 91b:93089

Grishin, S. A. On the question of realizability of a control law in a stabilization problem. (Not in MR)

Gu, Guoxiang Stabilizability conditions of multivariable uncertain systems via output feedback control. 91g:93028

Gu, Keqin (with Chen, Ye-Hwa; Zohdy, M. A.; Loh, Nan K.) Quadratic stabilizability of uncertain systems: a two level optimization setup. 91m:93100

Gutman, Shaul (with Chojnowski, Fabien) Fixed and minimal order compensators. 91m:93101

Hagander, Per (with Bernhardsson, Bo) On the notion of strong stabilizability. (Not in MR)

Halanay, Aristide (with Răsan, Vladimir) Addendum to a theorem of Yakubovich. 91b:93140

— *see also* Drăgan, Vasile, (91b:00051)

Hannagan, Kenneth B. Stabilization of the viscoelastic Timoshenko beam. 91b:93141

Harn, Yuh-Pyng (with Polak, Elijah) On the design of finite-dimensional stabilizing compensators for infinite-dimensional feedback-systems via semi-infinite optimization. 91f:93089

— (with Polak, Elijah) Proportional-plus-multiintegral stabilizing compensators for a class of MIMO feedback systems with infinite-dimensional plants. 91k:93073

Heymann, M. *see* Brave, Y., (Not in MR)

Hierichsen, D. (with Pritchard, A. J.; Townley, S. B.) Riccati equation approach to maximizing the complex stability radius by state feedback. 91j:93088

Hong, Keum S. *see* Bentama, Joseph, 91a:93049 and 91m:93098

Hsieh, Jer-Guang *see* Su, Juhng Perng; et al., (Not in MR)

Hu, Xiao Ming *see* Byrnes, Christopher I.; et al., 91b:93136

Ikeda, Masao *see* Tan, Xiang-Ling, (Not in MR)

Ichmann, Achim (with Owens, David H.) Exponential stabilization using nondifferential gain adaptation. 91m:93102

— (with Owens, David H.) Adaptive stabilization with exponential decay. 91d:93061

Isidori, Alberto *see* Byrnes, Christopher I.; et al., 91b:93136; 91b:93058 and (Not in MR)

Iwazumi, Tetsuo *see* Ukal, Hiroaki, 91d:93063

Kalouptsidis, N. *see* Tsiniias, John, 91m:93111 and (Not in MR)

Kan, Yu. S. (with Kibzun, A. I.) Stabilization of a dynamical system subject to indeterminate and random perturbations. (Not in MR)

Kao, Chien Chung *see* Wang, Wen Chin, 91f:93092

Keel, L. H. (with Bhattacharyya, Shankar Prasad) State-space design of low-order stabilizers. 91c:93069

— (with Bhattacharyya, Shankar Prasad) A matrix equation approach to the design of low-order regulators. 91c:93066

Keis, I. A. Asymptotic and exponential stabilization of a nonlinear Hamiltonian system. (Russian. English and Estonian summaries) 91j:93089

Kibzun, A. I. *see* Kan, Yu. S., (Not in MR)

Kienitz, Karl Heinz Guaranteed cost control approach to the stabilization of uncertain linear discrete-time systems. (Not in MR)

Klimova, E. V. Stabilization of a periodic system with a large parameter. (Russian) 91m:93103

Kokotović, P. V. *see* Saberi, Ali; et al., 91m:93107

Kolmanovskii, V. B. *see* Anan'evskii, I. M., 91a:93048

Kolosov, V. A. Stabilization of weakly bilinear systems. 91b:93142

Komornik, Vilmos Stabilisation frontière rapide de l'équation des ondes. (English summary) [Rapid boundary stabilization of the wave equation] 91d:93062

Korovin, S. K. *see* Emel'yanov, S. V.; et al., 91b:93059 and 91b:93060

Kouvaritakis, B. (with Rossiter, J. A.; Wang, J.) Generalized Nyquist bands for structured and highly structured uncertainty. (Not in MR)

K'ung, Fan Ch'ü *see* Shen, Chin Chung; et al., (Not in MR)

Kurbator, V. G. The effect of rapidly oscillating feedbacks on stability. 91m:93104

Lagnese, John E. Uniform stabilization of a thin elastic plate by nonlinear boundary feedback. 91b:93143

Lavrovskii, E. K. (with Formal'skii, A. M.) Stabilization of the angular position of an elastic rod. 91k:93074

Lee, Soodong (with Meerkov, Semyon M.) Vibrational feedback control in the problem of absolute stability. 91a:93052

Leugering, Günter On boundary feedback stabilizability of a viscoelastic beam. 91i:93090

- Li, Peng *see* Ahmed, N. U., 91j:93086
- Li, Yuan Chun (with Wu, Yao Hua²; Yang, Di; Wang, Xue Xiao) A new method for achieving diagonal dominance with the use of a constant compensator. (Chinese. English summary) (Not in MR)
- Lin, Ming Hui *see* Su, Juhng Perng; et al., (Not in MR)
- Logemann, Hartmut Adaptive exponential stabilization for a class of nonlinear retarded processes. (Not in MR)
- Loh, Nan K. *see* Gu, Keqin; et al., 91m:93100
- Magaril-Ilyayev, G. G. *see* Darkhovskii, B. S., 91m:93099
- Marino, Riccardo *see* Boothby, William M., 91h:93135
- Marro, Giovanni *see* Basile, Giuseppe; et al., 91d:93060
- Marsden, Jerrold E. *see* Bloch, Anthony M., 91a:93050
- Mayne, David Q. *see* Michalska, Hannah, 91m:93105
- McClamroch, N. Harris Feedback stabilization of control systems described by a class of nonlinear differential-algebraic equations. 91e:93070
- Meerkov, Semyon M. *see* Lee, Soodong, 91a:93052
- Melikhin, A. M. A nonmodal approach to the problem of the stabilization of nonlinear controllable systems. (Not in MR)
- Michalska, Hannah (with Mayne, David Q.) Receding horizon control of nonlinear systems without differentiability of the optimal value function. 91m:93105
- Moore, John Barrett (with Glover, Keith; Telford, Andrew) All stabilizing controllers as frequency-shaped state estimate feedback. 91h:93144
- Nersisyan, A. L. *see* Emel'yanov, S. V.; et al., 91h:93059 and 91h:93060
- Nisenanz, Yu. E. *see* Emel'yanov, S. V.; et al., 91h:93059 and 91h:93060
- O'Donald, Peter Fisher's contributions to the theory of sexual selection as the basis of recent research. (Not in MR)
- Ortega, Romeo (with Tang, Yu; Espinosa, Gerardo) Fast adaptive stabilization of first order plants with unknown sign of the high frequency gain. (Not in MR)
- Passivity properties for stabilization of cascaded nonlinear systems. (Not in MR)
- Owens, David H. *see* Ichmann, Achim, 91d:93061 and 91m:93102
- Pearson, A. E. *see* Flagbedzi, Y. A., 91b:93139
- Pham Tran Nhu Optimal stabilization of stochastic continuous-time systems. 91m:93106
- Piazzi, A. *see* Basile, Giuseppe; et al., 91d:93060
- Polak, Elijah *see* Harn, Ywh-Pyng, 91f:93089 and 91h:93073
- Pritchard, A. J. *see* Hinrichsen, D.; et al., 91j:93088
- Rabah, Rabah *see* Baghdadi, Lania, 91h:93134
- Räsänen, Vladimir *see* Halanay, Aristide, 91h:93140
- Rebarber, Richard Necessary conditions for exponential stabilizability of distributed parameter systems with infinite-dimensional unbounded feedback. 91b:93145
- Semigroup generation and stabilization by A^p -bounded feedback perturbations. 91e:93091
- Rossiter, J. A. *see* Kouvaritakis, B.; et al., (Not in MR)
- Saberi, Ali (with Kokotović, P. V.; Sussmann, Héctor J.) Global stabilization of partially linear composite systems. 91m:93107
- Seibert, Peter (with Suárez, Rodolfo) Global stabilization of nonlinear cascade systems. 91h:93146
- (with Suárez, Rodolfo) Global stabilization of a certain class of nonlinear systems. 91m:93108
- Serovskii, S. Ya. Stabilizability of a system that can be described by a nonlinear singular equation of hyperbolic type. (Russian. Kazakh summary) 91j:93090
- Shchennikov, V. N. On the solution of a problem of programmed control. (Russian) 91f:93090
- Shen, Chin Chung (with Ch'en, Po Hsien; K'ung, Fan Chü) Memoryless stabilization of uncertain dynamic delay systems: Riccati equation approach. (Not in MR)
- Shabladze, A. M. Procedure for computing optimal stability proportional controls. I. 91m:93109
- Smirnov, E. Ya. Stabilization of programmed motions of systems of variable structure. 91m:93110
- Smith, Malcolm C. Stabilization by reduced-order controllers. (Not in MR)
- Sokolov, Andrei Arianovich Minimax control of a linear object with a quality functional that depends on controlling actions. (Not in MR)
- Sokolov, B. N. On the minimal dimension of a control vector in a linear dynamic problem of stabilization. (Russian) (Not in MR)
- Sontag, Eduardo D. Further facts about input to state stabilization. 91h:93147
- Spanski, R. A. On the design of a stable invariant control system with a nonstatic index. (Russian) 91b:93148
- Su, Juhng Perng (with Hsieh, Jer-Guang; Lin, Ming Hui) Checking the parity interlacing property via the Sturm algorithm. (Not in MR)
- Suárez, Rodolfo *see* Seibert, Peter, 91h:93146 and 91m:93108
- Sussmann, Héctor J. Limitations on the stabilizability of globally minimum phase systems. 91c:93067
- *see also* Saberi, Ali; et al., 91m:93107
- Tan, Xiang-Ling (with Ikeda, Masao) Decentralized stabilization for expanding construction of large-scale systems. (Not in MR)
- Tang, Yu *see* Ortega, Romeo; et al., (Not in MR)
- Telford, Andrew *see* Moore, John Barrett; et al., 91h:93144
- Tokarzewski, Jerzy Stabilizability of linear systems using discrete feedback. (Not in MR)
- Townley, S. B. Stability radius optimization: a geometric approach. (Not in MR)
- *see also* Hinrichsen, D.; et al., 91j:93088
- Triggiani, Roberto Finite rank, relatively bounded perturbations of semi-groups generators. III. A sharp result on the lack of uniform stabilization. 91f:93091
- Tsinias, John (with Kalouptsidis, N.) Output feedback stabilization. (Not in MR)
- (with Kalouptsidis, N.) Output feedback stabilization of discrete-time control systems. 91m:93111
- Ukai, Hiroyuki (with Iwazumi, Tetsuo) Design of servo systems for distributed parameter systems by finite-dimensional dynamic compensator. 91d:93063
- Ulanov, B. V. Stabilization of nonstationary dynamic objects with unknown parameters without measuring the derivatives of the controlled coordinate. 91h:93061
- On the problem of continuous stabilization of nonstationary objects. (Not in MR)
- Vidyasagar, M. *see* Deodhare, Girish, (Not in MR)
- Vorotnikov, V. I. Optimal stabilization of motion with respect to some of the variables. (Russian) 91k:93075
- Wang, J. *see* Kouvaritakis, B.; et al., (Not in MR)
- Wang, Wen Chun (with Kao, Chien Chung) Two simple stabilization criteria for interconnected systems. (Chinese summary) 91f:93092
- (with Ch'iu, Chün Hsien) A new decentralized stabilization design for large-scale systems. (Chinese summary) (Not in MR)
- Wang, Xue Xiao *see* Li, Yuan Chun; et al., (Not in MR)
- Wei, Ke Hui Robust stabilization of linear time-invariant systems via linear control. 91a:93053
- Stabilization of a linear plant via a stable compensator having no real unstable zeros. 91j:93091
- Wu, Han Sheng (with Zhang, Su Yu) Procedure for simultaneously stabilizing a collection of nonlinear systems using linear state feedback control. (Not in MR)
- Wu, Yao Hua² *see* Li, Yuan Chun; et al., (Not in MR)
- Yakovlev, O. S. Parametric investigation of nonlinear laws of feedback. (Russian) (Not in MR)
- Yang, Di *see* Li, Yuan Chun; et al., (Not in MR)
- Yaz, Engin A simple way to stabilize discrete systems with jump Markov parameters. 91j:93071
- On the stabilizing control of a class of nonlinear stochastic systems. (Not in MR)
- Yon, Yun Cheng Pointwise stabilizability of coupled elastic beam systems. 91h:93092
- Zaslavskii, B. G. Positive stabilizability of control processes. 91h:93149
- Zhang, Meng Qiu A necessary and sufficient condition for absolute stability of some classes of direct control systems. (Chinese. English summary) 91h:93150
- Zhang, Su Yu *see* Wu, Han Sheng, (Not in MR)
- Zhao, Su Xia On absolute stability of control system with several executive elements. 91h:93151
- Zhu, Si Quan Graph topology and gap topology for unstable systems. 91b:93152
- Zohdy, M. A. *see* Gu, Keqin; et al., 91m:93100
- Zozana, Enrike Sur l'optimalité des feedbacks de stabilisation. (English summary) [On the optimality of stabilization feedbacks] 91e:93072

Items with secondary classifications in 93D15

- Antsaklis, Panos J. *see* González, O. R., 91m:93029
- Badr, R. I. (with Hassan, M. F.; Bernussou, Jacques; Bilal, A. Y.) Stability and performance robustness for multivariable linear systems. 91d:93050
- Balchen, Jens G. *see* Di Ruscio, David, 91f:93047
- Ball, Joseph A. (with Gohberg, Israel; Rodman, Leiba) Sensitivity minimization and bitangential Nevanlinna-Pick interpolation in contour integral form. 91e:93053
- *see also* Luse, D. William, 91c:93033
- Barabanov, N. E. Stability criteria for a class of systems of differential equations. 91b:34080
- Bernussou, Jacques (with Dias Peres, Pedro Luis; Geromel, J. C.) A linear programming oriented procedure for quadratic stabilization of uncertain systems. 91h:93118
- *see also* Badr, R. I.; et al., 91d:93050
- Bilal, A. Y. *see* Badr, R. I.; et al., 91d:93050
- Bisacco, Mauro (with Fornasini, Ettore) Optimal control of two-dimensional systems. (Not in MR)
- Bittanti, Sergio (with Colaneri, Patrizio; De Nicolao, Giuseppe) A note on the maximal solution of the periodic Riccati equation. 91d:49031
- Bloch, Anthony M. (with McClamroch, N. Harris) Control of mechanical systems with classical nonholonomic constraints. 91a:93039
- (with Marsden, Jerrold E.) Stabilization of rigid body dynamics by the energy-Casimir method. 91b:70012
- Brown, David P. Overflow stability of N -order state space digital filters. 91h:93067
- Brü, Rafael *see* Coll, C.; et al., (91j:00015)
- Burev, D. D. Optimal stabilization of discrete nonlinear objects of higher order. 91a:65166
- Byrnes, Christopher I. (with Isidori, Alberto) Steady state response, separation principle and the output regulation of nonlinear systems. 91h:93083
- Carvalho Minhoto Teixeira, Marcelo Control of uncertain dynamical systems using strictly positive real systems. 91j:93038
- Champetier, Calixte (with Magni, Jean-François) Analysis and synthesis of modal control laws. 91d:93031
- Chao, Chien Hsiang (with Stalford, H. L.) On the robustness of linear stabilizing feedback control for linear uncertain systems: multi-input case. 91a:93021
- Chen, Shu Ping The structure of solutions to algebraic Riccati equations and the positive real lemma. (Chinese) 91m:93113
- Colaneri, Patrizio *see* Bittanti, Sergio; et al., 91d:49031
- Coll, C. (with Brü, Rafael; Hernández, Vicente G.) Nonnegative stabilizability of discrete dynamical linear systems. (Spanish) (see 91j:00015)
- Commault, C. (with Dion, Jean Michel; Torres, J. A.) Minimal structure in the block decoupling problem with stability. 91m:93008
- Dalang, Robert C. Randomization in the two-armed bandit problem. 91g:60053
- Das, Arijit (with Singh, Sahjendra N.) Dual mode control of an elastic robotic arm: nonlinear inversion and stabilization by pole assignment. (Not in MR)
- De Nicolao, Giuseppe *see* Bittanti, Sergio; et al., 91d:49031
- Dessou, C. A. (with Gündes, A. N.) Algebraic theory of feedback systems with two-input two-output plant and compensator. 91h:93035
- Dias Peres, Pedro Luis *see* Bernussou, Jacques; et al., 91h:93118
- Dion, Jean Michel *see* Commault, C.; et al., 91m:93008
- Di Ruscio, David (with Balchen, Jens G.) A Schur method for designing LQ-optimal systems with prescribed eigenvalues. 91f:93047
- Engwerda, Jacob Chr. The solution of the infinite horizon tracking problem for discrete time systems possessing an exogenous component. 91g:90043
- Flagbedzi, Y. A. (with Pearson, A. E.) Exponential state observer for time-lag systems. 91b:93020
- Fornasini, A. M. *see* Lavrovskii, E. K., 91a:73030
- Fornasini, Ettore *see* Bisacco, Mauro, (Not in MR)
- Ganesan, Sekar (with Shieh, Leang San; Mehio, Mohamad M.) Sequential design of linear quadratic state regulators with prescribed eigenvalues and specified relative stability.

- 91i:93052
 Gerome, J. C. *see* Bernusson, Jacques; et al., 91b:93118
 Gohberg, Israel *see* Ball, Joseph A.; et al., 91e:93053
 González, O. R. (with Antsaklis, Panos J.) Internal models in regulation, stabilization, and tracking. 91m:93029
 Gündes, A. N. *see* Desoer, C. A., 91b:93035
 Gusev, S. V. (with Makarov, I. A.) Stabilization of the programmed motion of a transport robot with a track-laying chassis. 91b:70047
 Hassan, M. F. *see* Badr, R. I.; et al., 91d:93050
 Hernández, Vicente G. *see* Coll, C.; et al., 91j:00015
 Huang, Jie (with Rugh, Wilson J.) Approximate noninteracting control with stability for nonlinear systems. 91k:93061
 Hwang, Yea Cheng *see* Wang, Te Shing; et al., (Not in MR)
 Isidori, Alberto *see* Byrnes, Christopher I., 91b:93083
 Ito, Kazufumi Finite-dimensional compensators for infinite-dimensional systems via Galerkin-type approximation. 91b:93054
 Kabanba, Pierre T. Switching control of sampled data systems. 91a:93037
 Kalenova, V. I. (with Morozov, V. M.; Salmina, M. A.) On the stabilization of steady motions of systems with cyclic coordinates. 91b:70026
 Kokotović, P. V. *see* Saberi, Ali; et al., 91j:93049
 Kolchin, V. A. Calculation of Lyapunov exponents by means of feedback kernels that are found on a computer. (Russian) 91k:34120
 Krut'ko, P. D. Conversion of Lyapunov's direct method in problems of dynamical system control. 91m:93084
 Lagnese, John E. ★ Boundary stabilization of thin plates. 91k:73001
 Larrovskii, E. K. (with Formal'skii, A. M.) Stabilization of a given position of an elastic rod. 91a:73030
 Lebeas, Gilles Contrôle et stabilisation hyperboliques. [Hyperbolic control and stabilization] 91c:93028
 Lja, Z.-L. *see* Saberi, Ali, 91m:93114
 Luse, D. William (with Ball, Joseph A.) Frequency-scale decomposition of H^∞ -disk problems. 91c:93033
 Magni, Jean-François *see* Champetier, Calixte, 91d:93031
 Makarov, I. A. *see* Gusev, S. V., 91b:70047
 Marsden, Jerrold E. *see* Bloch, Anthony M., 91b:70012
 McClamroch, N. Harris *see* Bloch, Anthony M., 91a:93039
 Mehie, Mohamed M. *see* Ganesan, Sekar; et al., 91j:93052
 Michel, Anthony N. *see* Miller, Richard K., 91f:93062
 Miller, Richard K. (with Michel, Anthony N.) An invariance theorem with applications to adaptive control. 91f:93062
 Morozov, V. M. *see* Kalenova, V. I.; et al., 91b:70026
 Morse, A. Stephen Towards a unified theory of parameter adaptive control: tunability. 91h:93040
 Namba, Takao A geometric structure of the Ljapunov equation related to stabilization of parabolic systems. 91b:70086
 Newmann, M. M. *see* Roberts, A. P., 91j:93125
 Novitskii, V. V. Feedback and the Lyapunov function in linear systems. (Russian) 91d:93049
 Oustaloup, A. CRONE control: principle, synthesis, performances with nonlinearities and robustness-input immunity dilemma. (see 91f:93062)
 Özgüler, A. Bülent Decentralized control: a stable proper fractional approach. 91h:93004
 Pearson, A. E. *see* Flagbedzi, Y. A., 91b:93020
 Piazzi, A. Geometric aspects of reduced-order compensators for disturbance rejection. 91j:93030
 Potapenko, E. M. Minimizing compensator dimensionality in oscillatory system control. 91j:93039
 Roberts, A. P. (with Newmann, M. M.) Polynomial optimization of stochastic continuous-time control for unstable plants. 91i:93125
 Rodman, Leiba *see* Ball, Joseph A.; et al., 91e:93053
 Rugh, Wilson J. *see* Huang, Jie, 91k:93061
 Saberi, Ali (with Lin, Z.-L.) Adaptive high-gain stabilization of "minimum-phase" nonlinear systems. 91m:93114
 — (with Kokotović, P. V.; Sussmann, Héctor J.) Global stabilization of partially linear composite systems. 91j:93049
 Salmina, M. A. *see* Kalenova, V. I.; et al., 91b:70026
 Shieh, Leang San *see* Ganesan, Sekar; et al., 91j:93052
 Singh, Sahjendra N. *see* Das, Arjit; (Not in MR)
 Slemrod, M. Weak asymptotic decay via a "relaxed invariance principle" for a wave equation with nonlinear, nonmonotone damping. 91c:35025
 Sontag, Eduardo D. Some connections between stabilization and factorization. 91a:93019
 Stallford, H. L. *see* Chao, Chien Hsiang, 91a:93021
 Stépán, G. ★ Retarded dynamical systems: stability and characteristic functions. 91b:34123
 Stoorvogel, Antonie Arj (with Trentelman, H. L.) The quadratic matrix inequality in singular H_∞ control with state feedback. 91h:93028
 Sugaya, Jyunichi (with Takeda, Hiroshi) Ultimate boundedness of uncertain linear systems under some control laws. 91h:93082
 Sussmann, Héctor J. *see* Saberi, Ali; et al., 91j:93049
 Takeda, Hiroshi *see* Sugaya, Jyunichi, 91h:93082
 Teramachi, Antonio A feedback control law for nonlinear time lag systems. 91j:93044
 Torres, J. A. *see* Commaul, C.; et al., 91m:93088
 Trentelman, H. L. *see* Stoorvogel, Antonie Arj, 91h:93028
 Tsai, Te Ping *see* Wang, Te Shing; et al., (Not in MR)
 Udawadia, Firdaus E. Noncollocated point control of nondispersive distributed-parameter systems using time delays. 91m:93071
 Wang, P. K. C. Stabilization and control of distributed systems with time-dependent spatial domains. 91h:93087
 Wang, Te Shing (with Hwang, Yea Cheng; Tsai, Te Ping) Synthesis of feedback control systems with large plant uncertainty and time-varying gain. (Not in MR)
 Wei, Ke Hui Quadratic stabilizability of linear systems with structural independent time-varying uncertainties. 91h:93131
 Xiao, Jian Simultaneous stabilization with fixed closed-loop poles. (Chinese. English summary) (Not in MR)
 You, Yun Cheng Pointwise boundary stabilizability: two-dimensional hybrid elastic systems. 91a:73048
 — Nonlinear exponential stabilization of Boussinesq equations. 91f:35260
 Zolezzi, Tullio Variable structure control of semilinear evolution equations. 91b:93090
- ## 93D20 Asymptotic stability
- Aeyels, Dirk *see* Willems, Jacques L., 91j:93093
 Dayawansa, W. P. (with Martin, Clyde Franklin; Knowles, Gareth J.) Asymptotic stabilization of a class of smooth two-dimensional systems. 91b:93092
 Eslam, Mansour Computer-aided determination of stability robustness measure of linear discrete-time systems. (Not in MR)
 (Garg, Devendra P.) *see* Willems, Jacques L., 91j:93093
 Hached, Mehrez *see* Madani-Esfahani, S. Mehdi; et al., (Not in MR)
 Halevi, Yoram *see* Palmor, Z. J., (Not in MR)
 Keis, I. A. A semi-inverse method for the optimal stabilization of the motion of a Hamiltonian system. (Russian. English and Estonian summaries) 91e:93073
 Knowles, Gareth J. *see* Dayawansa, W. P.; et al., 91j:93092
 Krajewski, Wiesław (with Lepschy, Antonio; Mian, Gian Antonio; Viaro, Umberto) A unifying frame for stability-test algorithms for continuous-time systems. 91b:93153
 Kuznetsov, C. S. Strong stability does not imply similarity to a contraction. 91e:93074
 Lepschy, Antonio *see* Krajewski, Wiesław; et al., 91b:93153
 Madani-Esfahani, S. Mehdi (with Hached, Mehrez; Zak, Stanislaw H.) Estimation of sliding mode domains of uncertain variable structure systems with bounded controllers. (Not in MR)
 Martin, Clyde Franklin *see* Dayawansa, W. P.; et al., 91j:93092
 Mian, Gian Antonio *see* Krajewski, Wiesław; et al., 91b:93153
 Palmor, Z. J. (with Halevi, Yoram) Robustness properties of sampled-data systems with dead time compensators. (Not in MR)
 (Rondelli, Ewald G.) *see* Willems, Jacques L., 91j:93093
 (Shanidze, Z. G.) *see* Willems, Jacques L., 91j:93093
 Singh, Vimal A generalized approach for the absolute stability of discrete-time systems utilizing the saturation nonlinearity, based on passivity properties. (Not in MR)
 Viaro, Umberto *see* Krajewski, Wiesław; et al., 91b:93153
 Willems, Jacques L. (with Aeyels, Dirk) Comments on: "Global stability of solutions of nonlinear control systems" [Internat. J. Systems Sci. 20 (1989), no. 10, 1909–1924; MR 90i:93101] by D. P. Garg, Z. G. Shanidze and E. G. Rondelli. 91j:93093
 Zak, Stanislaw H. *see* Madani-Esfahani, S. Mehdi; et al., (Not in MR)
 Zhang, Meng Qiu Stability of some classes of nonlinear control systems. (Chinese. English summary) 91f:93093
- ## Items with secondary classifications in 93D20
- Al-Fuhaid, A. S. *see* Bahnasawi, Ahmed A.; et al., 91b:93116
 Bahnasawi, Ahmed A. (with Al-Fuhaid, A. S.; Mahmoud, Magdi S.) A new hierarchical control structure for a class of uncertain discrete systems. 91b:93116
 Cai, Wei Xuan Exponential stability problems for time-delay systems. (Chinese. English summary) 91c:34079
 Damborg, M. J. *see* Sznaler, M., (Not in MR)
 Danilov, N. N. Cooperative multistage games without side payments. (Russian) 91b:90191
 Hilarichsen, D. (with Nguyễn Khoa So'n) The complex stability radius of discrete-time systems and symplectic pencils. 91c:39005
 Mahmoud, Magdi S. *see* Bahnasawi, Ahmed A.; et al., 91b:93116
 Nguyễn Khoa So'n *see* Hilarichsen, D., 91c:39005
 Potapenko, E. M. Stability of controllable elastic distributed systems. 91c:73064
 Seibert, Peter (with Suárez, Rodolfo) Global stabilization of nonlinear cascade systems. 91b:93146
 — (with Suárez, Rodolfo) Global stabilization of a certain class of nonlinear systems. 91m:93108
 Suárez, Rodolfo *see* Seibert, Peter, 91b:93146 and 91m:93108
 Sznaler, M. (with Damborg, M. J.) Heuristically enhanced feedback control of constrained discrete-time linear systems. (Not in MR)
 Xie, Sheng Li Unconditional stability of linear, constant open-loop neutral control systems with time delays. (Chinese. English summary) 91b:93080
 Ye, Bai Ying Necessary and sufficient conditions for absolute stability of two classes of direct control systems. (Chinese) 91j:93085
- ## 93D21 Adaptive and robust stabilization
- Amillo, José M. (with Mata Hernández, F. Agueda) Robust stabilization for certain types of linear systems. (Spanish. English summary) 91m:93112
 Banda, Siva S. *see* Sobel, Kenneth M.; et al., 91d:93064
 Ch'ua, Po Hsien *see* Lin, Chun Liang; et al., 91e:93078 and Weng, Kuo Wên; et al., (Not in MR)
 Chen, Sha Ping The structure of solutions to algebraic Riccati equations and the positive real lemma. (Chinese) 91m:93113
 Chen, Wen Liang *see* Weng, Kuo Wên; et al., (Not in MR)
 Curtain, Ruth F. Robust stabilizability of normalized coprime factors: the infinite-dimensional case. 91c:93075
 Emet'yanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.) Stabilization of undetermined neutral objects by a regulator of variable structure. 91h:93062
 Fu, Li Ch'ang *see* Liao, Teh Lu; et al., (Not in MR)
 Georgiou, Tryphon T. (with Smith, Malcolm C.) Optimal robustness in the gap metric. 91c:93076
 Hejda, Ivan *see* Murgal, Ján, (Not in MR)
 Hsiao, Fei Bin *see* Lin, Chun Liang; et al., 91e:93078
 Hsü, Chên Fa *see* Liao, Teh Lu; et al., (Not in MR)
 Khargonekar, Pramod P. (with Petersen, Ian R.; Zhou, Kemin) Robust stabilization of uncertain linear systems: quadratic stabilizability and H^∞ control theory. 91e:93077

- Korovin, S. K. *see* Emel'yanov, S. V.; et al., 91h:93062
- Liao, Teh La (with Fu, Li Ch'eng; Hsu, Chen Fa) Adaptive robust tracking of nonlinear systems and with an application to a robotic manipulator. (Not in MR)
- Lin, Chun Liang (with Hsiao, Fei Bin; Ch'en, Po Hsien) Stabilization of large structural systems under mode truncation, parameter perturbations and actuator saturations. 91c:93078
- Lin, Wei² (with Wang, Yin Ping; Yong, Jiong Min) Unified adaptive control of non-minimum-phase systems. II. Target tracking and dynamic compensation. 91c:93079
- Liu, Z.-L. *see* Saberi, Ali, 91m:93114
- Mata Hernández, F. Agueda *see* Amillo, José M., 91m:93112
- Murgaš, Ján (with Hejda, Ivan) Decentralized adaptive stabilization with state regulators. (Not in MR)
- Nersisyan, A. L. *see* Emel'yanov, S. V.; et al., 91h:93062
- Petersen, Ian R. *see* Khargonekar, Pramod P.; et al., 91c:93077
- Rhee, Inseok (with Speyer, Jason L.) A game theoretic controller and its relationship to H_{∞} and linear-exponential-Gaussian synthesis. 91c:93068
- Saberi, Ali (with Lin, Z.-L.) Adaptive high-gain stabilization of "minimum-phase" nonlinear systems. 91m:93114
- Smith, Malcolm C. *see* Georgiou, Tryphon T., 91c:93076
- Sobel, Kenneth M. (with Banda, Siva S.; Yeh, Hsi-Han) Robust control for linear systems with structured state space uncertainty. 91d:93064
- Speyer, Jason L. *see* Rhee, Inseok, 91c:93068
- Ts'ai, Tung Wen (with Weng, Kuo Wen; et al., (Not in MR)
- Wang, Yin Ping *see* Lin, Wei²; et al., 91c:93079
- Weng, Kuo Wen (with Ts'ai, Tung Wen; Ch'en, Po Hsien; Chen, Wen Liang) On robust adaptive regulation. (Chinese summary) (Not in MR)
- Yao, Yu A variable structure model reference adaptive control. (Not in MR)
- Yeh, Hsi-Han *see* Sobel, Kenneth M.; et al., 91d:93064
- Yong, Jiong Min *see* Lin, Wei²; et al., 91c:93079
- Zhou, Kemin *see* Khargonekar, Pramod P.; et al., 91c:93077
- Items with secondary classifications in 93D21
- Dai, Guan Zhong *see* Huang, Zhan, 91f:93006
- Dion, Jean Michel *see* Giri, Fouad; et al., 91d:93051
- Dugard, Luc *see* Giri, Fouad; et al., 91d:93051
- Emel'yanov, S. V. (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Output stabilization of uncertain systems by discontinuous control. 91h:93059
- (with Korovin, S. K.; Nersisyan, A. L.; Nisenzon, Yu. E.) Stabilization of multidimensional indeterminate objects with respect to output. 91h:93060
- Giri, Fouad (with Dion, Jean Michel; Dugard, Luc; M'Saad, Mohamed) Quelques résultats de stabilité robuste en commande adaptative. (English summary) [Some robust stability results in adaptive control] 91d:93051
- Huang, Chih Liang (with Lai, Kuang Chê) Minimax model reference adaptive control for a plant subject to unmodeled dynamics. (Chinese summary) (Not in MR)
- Huang, Zhan (with Dai, Guan Zhong) Robust decentralized control of uncertain multivariable linear systems. (Chinese. English summary) 91f:93006
- Il'ichev, V. G. Adaptation of parameters in models of ecological systems. (Not in MR)
- Korovin, S. K. *see* Emel'yanov, S. V.; et al., 91h:93059 and 91h:93060
- Lai, Kuang Chê *see* Huang, Chih Liang, (Not in MR)
- M'Saad, Mohamed *see* Giri, Fouad; et al., 91d:93051
- Nersisyan, A. L. *see* Emel'yanov, S. V.; et al., 91h:93059 and 91h:93060
- Nisenzon, Yu. E. *see* Emel'yanov, S. V.; et al., 91h:93059 and 91h:93060
- Pan, Sheng Qiang Robustness and sensitivity of a linear quadratic state feedback regulator with perturbations. (Chinese. English summary) 91j:93080
- Wang, Pei Zhuang (with Zhang, Hong Min; Xu, Wei) Pad-analysis of fuzzy control stability. 91j:93060
- Xu, Wei *see* Wang, Pei Zhuang; et al., 91j:93060
- Zhang, Hong Min *see* Wang, Pei Zhuang; et al., 91j:93060

93D22 Interrelations between stability problems and optimization problems

- Bernussou, Jacques *see* Garcia, Germán, 91m:93115
- Garcia, Germán (with Bernussou, Jacques) Stabilité et détectabilité quadratiques: lien avec l'approche LQG. (English summary) [Quadratic stabilizability and detectability: relations with the LQG approach] 91m:93115
- Shubladze, A. M. Design methods for m -dimensional control laws that are optimal with respect to the degree of stability. III. 91m:93116
- Teinias, John Optimal controllers and output feedback stabilization. 91i:93093
- Items with secondary classifications in 93D22
- Aleksandrov, E. E. Parametric optimization of linear dynamical systems taking into account the requirement of structural stability. (Russian) 91k:34076
- Chen, Ye-Hwa *see* Gu, Keqin; et al., 91m:93100
- Gu, Keqin (with Chen, Ye-Hwa; Zohdy, M. A.; Loh, Nan K.) Quadratic stabilizability of uncertain systems: a two level optimization setup. 91m:93100
- Loh, Nan K. *see* Gu, Keqin; et al., 91m:93100
- Pastovtsov, N. A. An algorithm matrix criterion for stability. (Russian) 91g:65096
- Zohdy, M. A. *see* Gu, Keqin; et al., 91m:93100
- Zubov, V. I. Asymptotic self-oscillations. 91k:34061

93D25 Input-output approaches

- Anderson, Brian D. O. *see* Er, Meng-Joo, 91m:93117
- Bar-on, Jonathan R. (with Jonckheere, Edmond A.) Phase margins for multivariable control systems. (Not in MR)
- Bouthellier, P. R. (with Ghosh, Bijoy Kumar) A new class of stable time-varying systems and the coefficient assignment problem. 91a:93054
- Chen, Guan Rong (with de Figueiredo, Rui J. P.) Construction of the left coprime fractional representation for a class of nonlinear control systems. (Not in MR)

- Chen, Tongwen (with Francis, Bruce A.) Input-output stability of sampled-data systems. 91j:93094
- Crouch, Peter E. (with van der Schaft, A. J.) Characterization of Hamiltonian input-output systems. 91c:93080
- Er, Meng-Joo (with Anderson, Brian D. O.) Practical issues in multirate output controllers. 91m:93117
- Evans, M. E. BIBO stability of 2-powers. 91d:93065
- de Figueiredo, Rui J. P. *see* Chen, Guan Rong, (Not in MR)
- Francis, Bruce A. *see* Chen, Tongwen, 91j:93094
- Ghosh, Bijoy Kumar *see* Bouthellier, P. R., 91a:93054
- Jonckheere, Edmond A. *see* Bar-on, Jonathan R., (Not in MR)
- Lawrence, Douglas A. (with Rugh, Wilson J.) On a stability theorem for nonlinear systems with slowly varying inputs. 91h:93154
- Owens, David H. *see* Rogers, E. L., 91i:93094
- Pujara, L. R. On the parametrization of stabilizing controllers for SISO control systems with applications to aircraft flying qualities. (Not in MR)
- Rogers, E. L. (with Owens, David H.) Stability analysis for discrete linear multipass processes with nonunit memory. 91i:93094
- Roytman, Leonid M. *see* Swamy, M. N. S., (Not in MR)
- Rugh, Wilson J. *see* Lawrence, Douglas A., 91h:93154
- van der Schaft, A. J. *see* Crouch, Peter E., 91a:93054
- Swamy, M. N. S. (with Roytman, Leonid M.) General results concerning the BIBO stability of inverse 2-D digital filters. (Not in MR)
- Wang, Shun Hsiang Regular architectures of a two-input one-output digital controller. (Not in MR)
- You, Yun Cheng Linear optimal output feedback control. (Chinese) 91d:93066

Items with secondary classifications in 93D25

- Bhattacharyya, Shankar Prasad *see* Chapellat, Hervé; et al., 91j:93075
- Chaparro, L. F. *see* Lu, Hong-Qian, 91h:93027
- Chapellat, Hervé (with Dahleh, Mohammed A.; Bhattacharyya, Shankar Prasad) Robust stability under structured and unstructured perturbations. 91j:93075
- Chen, Zeng Qiang *see* Yuan, Zhu Zhi, 91m:93151
- Dahleh, Mohammed A. *see* Chapellat, Hervé; et al., 91j:93075
- Duan, Guang Ren (with Wu, Guang Yu) Robustness analysis of pole assignment controllers for continuous systems. (Chinese. English summary) 91h:93075
- Friedman, Avner (with Honig, Michael L.) On the spread of continuous-time linear systems. 91c:93038
- Gu, Xing Yuan (with Shao, Cheng) Self-tuning controllers which update parameters conditionally. (Chinese. English summary) 91a:93034
- Honig, Michael L. *see* Friedman, Avner, 91c:93038
- Hunt, L. R. (with Verma, Madanpal S.) Linear dynamics hidden by input-output linearization. 91m:93038
- Limic, N. A class of nonlinear compartmental models. 91m:92037
- Lu, Hong-Qian (with Chaparro, L. F.) Recursive solution and stability conditions for 2-D least-squares modeling and stabilization problems. 91h:93027
- Shao, Cheng *see* Gu, Xing Yuan, 91a:93034
- Sontag, Eduardo D. Further facts about input to state stabilization. 91h:93147
- Verma, Madanpal S. *see* Hunt, L. R., 91m:93038
- Weiss, George Weakly l^p -stable linear operators are power stable. 91h:93046
- Wu, Guang Yu *see* Duan, Guang Ren, 91h:93075
- Yakubovich, V. A. Methods of the theory of absolute stability in invariance problems. (Russian) 91k:93062
- Yuan, Zhu Zhi (with Chen, Zeng Qiang) Stability and stochastic convergence of synthetic generalized predictive self-tuning controller. 91m:93151

93D30 Scalar and vector Lyapunov functions

- Borne, Pierre (with Richard, J.-P.; Tahiri, M.) Estimation of attractive domains for locally stable or unstable systems. 91i:93095
- Chiang, Hsiao-Dong (with Fekih-Ahmed, Lazhar) A constructive methodology for estimating the stability regions of interconnected nonlinear systems. 91d:93067
- Fekih-Ahmed, Lazhar *see* Chiang, Hsiao-Dong, 91d:93067
- Richard, J.-P. *see* Borne, Pierre; et al., 91i:93095
- Shchennikov, V. N. Stability of almost periodic regimes in complex nonlinear control systems. (Russian) (see 91i:65003)
- Sumenkov, E. A. An algorithm for constructing a minimal set of fundamental conditions in the comparison method. (Russian) 91j:93095
- Sun, Yu Zhi The Lyapunov function and the comparison principle for discrete systems. (Chinese. English summary) 91j:93096
- Tahiri, M. *see* Borne, Pierre; et al., 91i:93095
- Wu, Yong Xian (with Zhao, Su Xia) Necessary and sufficient conditions for the existence of a Lyapunov function of Lur'e form with $\dot{V} \leq 0$. 91j:93097
- Zhao, Su Xia *see* Wu, Yong Xian, 91j:93097

Items with secondary classifications in 93D30

- Grujić, Ljubomir T. On large-scale systems stability. 91f:93073

93D99 None of the above, but in this section

- Ahmedi, M. *see* Ramachandran, Venkat, (Not in MR)
- Bai, Er Wei (with Dasgupta, Soura) Robust control design of sampled systems. (Not in MR)
- Barmish, B. Ross (with Khargonekar, Pramod P.) Robust stability of feedback control systems with uncertain parameters and unmodeled dynamics. (Not in MR)
- Bartlett, Andrew C. *see* Hollos, Christopher V.; et al., (Not in MR)
- Bucolowicz, Mikolaj Comments on: "Stability analysis of interval matrices: improved bounds" [Internat. J. Control 48 (1988), no. 6, 2265-2273; MR 89m:93075] by Dj. B. Petkovići. 91d:93068

- Cobb, J. Daniel The minimal dimension of stable faces required to guarantee stability of a matrix polytope: *D*-stability. (Not in MR)
- Dasgupta, Soura see Bai, Er Wei, (Not in MR)
- Davison, Edward J. see Qiu, Li, 91d:93069
- Eslami, Mansour Robust nonlinear dynamic systems—the old question with a new answer. (Not in MR)
- Feng, I Kang see Ts'al, Shu Ch'uan; et al., 91g:93029
- Foo, Y. K. (with Soh, Y. C.) Damping margins of interval polynomials. (Not in MR)
- see also Soh, Y. C., (Not in MR)
- Gibson, J. S. see Leal, M. A., (Not in MR)
- Glover, Keith see Partington, Jonathan R., (Not in MR)
- Gu, Keqin (with Zohdy, M. A.; Loh, Nan K.) Necessary and sufficient conditions of quadratic stability of uncertain linear systems. (Not in MR)
- Hollot, Christopher V. (with Xu, Zhong Ling) When is the image of a multilinear function a polytope? A conjecture. 91a:93055
- (with Looze, Douglas P.; Bartlett, Andrew C.) Parametric uncertainty and unmodeled dynamics: analysis via parameter space methods. (Not in MR)
- Hu, Xi Heng (with Ng, T. S.) 2-D filter stability tests using polynomial array. (Not in MR)
- Jury, E. L. see Kathab, A., (Not in MR)
- Kathab, A. (with Jury, E. L.) Robust Schur-stability of control systems with interval plants. (Not in MR)
- Khargonekar, Pramod P. see Barmish, B. Ross, (Not in MR)
- Kuo, Tè Shéng see Ts'al, Shu Ch'uan; et al., 91g:93029
- Leal, M. A. (with Gibson, J. S.) A first-order Lyapunov robustness method for linear systems with uncertain parameters. (Not in MR)
- Loh, Nan K. see Gu, Keqin; et al., (Not in MR)
- Looze, Douglas P. see Hollot, Christopher V.; et al., (Not in MR)
- Moore, John Barratt see Paice, A. D. B., (Not in MR)
- Ng, T. S. see Hu, Xi Heng, (Not in MR)
- Paice, A. D. B. (with Moore, John Barratt) Robust stabilisation of nonlinear plants via left coprime factorizations. (Not in MR)
- Partington, Jonathan R. (with Glover, Keith) Robust stabilization of delay systems by approximation of coprime factors. (Not in MR)
- (Petkovski, Djordjija B.) see Basilewicz, Mikolaj, 91d:93068
- Pajars, L. R. On the stability of uncertain polynomials with dependent coefficients. (Not in MR)
- Qiu, Li (with Davison, Edward J.) A unified approach for the stability robustness of polynomials in a convex set. 91d:93069
- Que, Tai Lin see Zhou, Chao Shun, (Not in MR)
- Ramachandran, Venkat (with Ahmadi, M.) Some properties of multivariable mirror-image and anti-mirror-image polynomials obtained by the bilinear transformations of Hurwitz polynomials. (Not in MR)
- Šiljak, Dragoslav D. A positive realness test for interval plants. 91a:93056
- Soh, Y. C. (with Foo, Y. K.) A note on the edge theorem. (Not in MR)
- see also Foo, Y. K., (Not in MR)
- Tempo, Roberto A simple test for Schur stability of a diamond of complex polynomials. 91a:93057
- Ts'al, Shu Ch'uan (with Feng, I Kang; Kuo, Tè Shéng) D-stability analysis for discrete optimal regulator. 91g:93029
- Walker, Daniel James Robust stabilizability of discrete-time systems with normalized stable factor perturbation. (Not in MR)
- Xu, Zhong Ling see Hollot, Christopher V., 91a:93055
- Zhou, Chao Shun (with Que, Tai Lin) Sufficient conditions for stability of interconnected grey dynamical systems. (Chinese. English summary) (Not in MR)
- Zohdy, M. A. see Gu, Keqin; et al., (Not in MR)

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- Barmish, B. Ross (with Khargonekar, Pramod P.; Shi, Zhi Cheng; Tempo, Roberto) A pitfall in some of the robust stability literature. 91a:93044
- Bhattacharyya, Shankar Prasad see Chapellat, Hervé; et al., 91a:93045
- Chapellat, Hervé (with Bhattacharyya, Shankar Prasad; Dahleh, Mohammed A.) Robust stability against structured and unstructured perturbations. 91a:93045
- Dahleh, Mohammed A. see Chapellat, Hervé; et al., 91a:93045
- Gu, Keqin (with Zohdy, M. A.; Loh, Nan K.) Necessary and sufficient conditions of quadratic stability of uncertain linear systems. 91d:93050
- Gutman, Shaul see Paldi, Hedi Taub, 91h:93078
- Ioannou, Petros A. Reply to: "Comments on the robust stability analysis of adaptive controllers using normalizations" [IEEE Trans. Automat. Control 34 (1989), no. 4, 478–479; MR 90c:93059] by P. P. Khargonekar and R. Ortega. (Not in MR)
- Khargonekar, Pramod P. see Barmish, B. Ross; et al., 91a:93044 and Ioannou, Petros A., (Not in MR)
- Kokame, H. see Mori, Takehiro, (Not in MR)
- Lepchy, Antonio (with Mian, Gian Antonio; Viaro, Umberto) Efficient split algorithms for continuous-time and discrete-time systems. 91f:93047
- Loh, Nan K. see Gu, Keqin; et al., 91d:93050
- Mian, Gian Antonio see Lepchy, Antonio; et al., 91f:93047
- Mori, Takehiro (with Kokame, H.) Aperiodicity conditions for polynomials with uncertain coefficient parameters. (Not in MR)
- (Ortega, Romeo) see Ioannou, Petros A., (Not in MR)
- Paldi, Hedi Taub (with Gutman, Shaul) A symmetric matrix criterion for polynomial root clustering. 91h:93078
- Shi, Zhi Cheng see Barmish, B. Ross; et al., 91a:93044
- Tempo, Roberto see Barmish, B. Ross; et al., 91a:93044
- Viaro, Umberto see Lepchy, Antonio; et al., 91f:93047
- Wang, Le Yi (with Zames, George) Local-global double algebras for slow H^∞ adaptation. 91h:93042
- Wei, Ke Hui Robust stabilization of linear time-invariant systems via linear control. 91a:93053
- Xiao, Shu Xian An application of a generalized Lasalle inequality. (Chinese. English summary) 91a:15016

- Yang, Cheng Wu (with Zou, Yun) Weak stability of generalized systems with slowly varying parameters. (Chinese. English summary) 91e:93052
- Zames, George see Wang, Le Yi, 91h:93042
- Zohdy, M. A. see Gu, Keqin; et al., 91d:93050
- Zou, Yun see Yang, Cheng Wu, 91e:93052

93Exx Stochastic systems and control

- Nwankpa, C. O. (with Shahidepour, S. M.) Colored noise modelling in the reliability evaluation of electric power systems. (Not in MR)
- Shahidepour, S. M. see Nwankpa, C. O., (Not in MR)

Items with secondary classifications in 93Exx

- (Davis, Mark H. A.) see Applied stochastic analysis, 91m:93003
- (Elliott, Robert James) see Applied stochastic analysis, 91m:93003

Items listed otherwise than by author

- Applied stochastic analysis ★ Applied stochastic analysis. 91m:93003
- London ★ Applied stochastic analysis. 91m:93003
- Workshop:
Applied Stochastic Analysis ★ Applied stochastic analysis. 91m:93003

93E03 Stochastic systems, general

- Acar, William see Booth, David E.; et al., (Not in MR)
- Adomian, George A. ★ Nonlinear stochastic systems theory and applications to physics. 91e:93081
- Ahkam, Sharif see Booth, David E.; et al., (Not in MR)
- Ahlbehrendt, N. (with Sperling, L.) Biorthogonale Entwicklungen der Verteilungsdichte und ihre Anwendung zur Analyse stochastischer Systeme. II. Beispiele. (English and Russian summaries) [Biorthogonal expansions of the distribution density and their application in the analysis of stochastic systems. II. Examples] 91h:93076
- Andersland, Mark S. Decoupling nonsequential stochastic control problems. 91j:93098
- Beauchamp, G. see Lewis, F. L.; et al., 91h:93077
- Bir, Atilla see Güren, Leyla, (Not in MR)
- Booth, David E. (with Acar, William; Isenhour, Thomas; Ahkam, Sharif) Robust time series models and statistical process control. (Not in MR)
- Can, Xi-Ren Estimates of performance sensitivity of a stochastic system. 91a:93058
- Frishling, Volf Multiple discrete semigroups of operations. 91b:93155
- Gatarek, Dariusz Ergodic impulsive control of Feller processes with costly information. 91h:93063
- Güren, Leyla (with Bir, Atilla) A new spectral factorization method. (Russian and Polish summaries) (Not in MR)
- Grunberg, Daniel see Looze, Douglas P.; et al., (Not in MR)
- (Gubarev, V. V.) see Statistical analysis of experimental data, 91e:93082
- (Hazewinkel, Michiel) see Adomian, George A., 91e:93081
- Hernández-Lerma, Onésimo (with Laserre, Jean Bernard) Error bounds for rolling horizon policies in discrete-time Markov control processes. 91f:93094
- Hsu, John Y. see Looze, Douglas P.; et al., (Not in MR)
- Isenhour, Thomas see Booth, David E.; et al., (Not in MR)
- Junare, Gey Analysis of moment stability and sensitivity of nonlinear stochastic distributed systems: a practical approach via a distributed Fokker-Planck equation. 91h:93156
- Kazakov, I. E. Stochastic systems with random change of structure (a survey). (Not in MR)
- Kim, Seungnam (with Meerkov, Semyon M.; Runolfsson, T.) Residence probability control. 91j:93099
- Klafzky, Emil (with Mayer, János; Teriaky, Tamás) Linearly constrained estimation by mathematical programming. 91h:93064
- Kolmogorov, A. V. Estimates of the minimax risk in stationary media. (Not in MR)
- Kukhtenko, V. I. (with Orlov, E. V.; Timoshchenko, V. I.) A unified approach to control of linear stochastic systems with random parameters. II. 91d:93070
- Laserre, Jean Bernard see Hernández-Lerma, Onésimo, 91f:93094
- Lewis, F. L. (with Beauchamp, G.; Özçaldiran, K.; Malhamé, Roland) Large-scale dynamical interconnections of stochastic singular systems. 91h:93077
- Liu, Sheng see Zhao, Xi Ren, (Not in MR)
- Looze, Douglas P. (with Hsu, John Y.; Grunberg, Daniel) Investigation of the use of acceleration estimates by endgame guidance laws. (Not in MR)
- Malhamé, Roland see Lewis, F. L.; et al., 91h:93077
- Mayer, János see Klafzky, Emil; et al., 91h:93064
- Meerkov, Semyon M. see Kim, Seungnam; et al., 91j:93099
- Orlov, E. V. see Kukhtenko, V. I.; et al., 91d:93070
- Özçaldiran, K. see Lewis, F. L.; et al., 91h:93077
- Picci, Giorgio Stochastic aggregation. 91c:93069
- Stochastic aggregation. 91f:93096
- Pukhov, G. E. (with Voltenkov, I. N.) Differential transformations of random functions. (Not in MR)
- Runolfsson, T. see Kim, Seungnam; et al., 91j:93099
- Safonov, Michael G. see Wang, Wei Zhen, (Not in MR)
- Serfer, D. A. Stochastic synthesis of a guaranteed control for a wave equation. (Russian) 91e:93095
- Söderström, Torsten On zero locations for sampled stochastic systems. 91f:93096
- Sperling, L. see Ahlbehrendt, N., 91h:93076
- Spreij, P. J. C. Self-exciting counting process systems with finite state space. 91h:93157
- Minimality and reducibility of conditionally Poisson systems with finite state space. 91f:93100
- Teriaky, Tamás see Klafzky, Emil; et al., 91h:93064
- Timoshchenko, V. I. see Kukhtenko, V. I.; et al., 91d:93070
- Tzafestas, Spyros G. see Watanabe, Keigo, (Not in MR)
- Váran, Constantin Approximation and existence of periodic solutions for controlled diffusion equations. 91i:93097

- Voltenkov, I. N. *see* Pakhov, G. E., (Not in MR)
 Wang, En Ping Suboptimal estimates for discrete decentralized systems. (Chinese. English summary) (Not in MR)
 Wang, Wei Zhen (with Safonov, Michael G.) A tighter relative-error bound for balanced stochastic truncation. (Not in MR)
 Watanabe, Keigo (with Tzafestas, Spyros G.) Observations-weighted controllers for single-input single-output stochastic systems using a perturbed-type dual criterion. (Not in MR)
 Yaz, Engin A generalization of the uncertainty threshold principle. (Not in MR)
 Zabczyk, Jerzy Some interplays between control theory and stochastic systems. 91b:93158
 Zhao, Xi Ren (with Liu, Sheng²) A spectral method for the simulation of a stationary stochastic process with nonrational energy spectrum. (Chinese. English summary) (Not in MR)

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Statistical analysis of experimental data ★ Статистический анализ экспериментальных данных. (Russian) [Statistical analysis of experimental data] 91e:93082

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- Bally, Vlad Approximation for the solutions of stochastic differential equations. I. L^p -convergence. 91b:60045
 Behn, Ulrich (with Schiele, Konrad) Stratonovich model driven by dichotomous noise: mean first passage time. 91a:34040
 Belavkin, V. P. A stochastic calculus of quantum input-output processes and quantum nondemolition filtering. (Russian) 91f:81074
 Bendat, Julius S. ★ Nonlinear system analysis and identification from random data. 91b:93168
 Bokor, J. *see* Keviczky, L., 91b:93015
 Breeden, Joseph L. (with Dinkelacker, Friedrich; Hübler, Alfred) Noise in the modeling and control of dynamical systems. 91g:58257
 Cao, Xi-Ren Realization probability and throughput sensitivity in a closed Jackson network. 91d:60229
 Cocan, Moise Über die Bellmansche Funktionalgleichung für die stochastische dynamische Prozessen. (Romanian summary) [On Bellman's functional equation for stochastic dynamical processes] 91a:90172
 Cohen de Lara, M. (with Levine, Jean) Deterministic feedback linearization, Girsanov transformations and finite-dimensional filters. 91b:93033
 Comon, Pierre (with Pham Dinh Tuan) Estimating the order of a FIR filter for noise cancellation. (Not in MR)
 Desai, Uday B. (with Skelton, Robert E.) Partially nested q -Markov covariance equivalent realizations. 91b:93025
 Dinkelacker, Friedrich *see* Breeden, Joseph L.; et al., 91g:58257
 Florchinger, Patrick (with Le Gland, François) Time-discretization of the Zakai equation for diffusion processes observed in correlated noise. 91j:65154
 Gombani, Andrea Consistent approximations of linear stochastic models. 91b:93026
 Guglielmi, M. On-line detection of minimal order for linear piecewise stationary systems. (see 91f:93002)
 Hooghiemstra, G. *see* Resing, J. A. C.; et al., 91m:90068
 Hübler, Alfred *see* Breeden, Joseph L.; et al., 91g:58257
 Kapitaniak, Tomasz ★ Chaos in systems with noise. 91b:58086
 Keane, Michael *see* Resing, J. A. C.; et al., 91m:90068
 Keviczky, L. (with Bokor, J.) Stochastic realization of stationary processes: state-space, matrix fraction and ARMA forms. 91b:93015
 Kolmanovskii, V. B. (with Shaikhet, L. E.) States estimate of hereditary stochastic systems. 91b:93162
 Kondratenko, O. S. *see* Zadivaka, V. K.; et al., 91g:65101
 Kubyshkina, N. N. (with Molchanov, A. A.; Sharadkin, A. M.) Uniform discretization and noise immunity. (Russian) (Not in MR)
 Le Gland, François *see* Florchinger, Patrick, 91j:65154
 Levine, Jean *see* Cohen de Lara, M., 91b:93033
 Marcus, Moshe (with Mizel, Victor J.) Stochastic functional differential equations modelling materials with selective recall. 91g:60075
 Melnikova, S. S. *see* Zadivaka, V. K.; et al., 91g:65101
 Mizel, Victor J. *see* Marcus, Moshe, 91g:60075
 Molchanov, A. A. *see* Kubyshkina, N. N.; et al., (Not in MR)
 Nieuwenhuis, J. W. From simple to complicated: noncausal bounded input, bounded output stability in linear discrete time models in the deterministic and stochastic cases. 91i:93082
 Nikodem, Kazimierz On some properties of quadratic stochastic processes. 91d:60122
 Olsder, G. J. *see* Resing, J. A. C.; et al., 91m:90068
 Pardoux, Étienne (with Peng, Shi Ge) Adapted solution of a backward stochastic differential equation. 91e:60171
 Peng, Shi Ge *see* Pardoux, Étienne, 91e:60171
 Pham Dinh Tuan *see* Comon, Pierre, (Not in MR)
 Popov, Yu. D. (with Vinokurov, Yu. O.) Modeling of a homogeneous and isotropic random field in space. (Russian) 91a:60133
 Resing, J. A. C. (with de Vries, R. E.; Hooghiemstra, G.; Keane, Michael; Olsder, G. J.) Asymptotic behavior of random discrete event systems. 91m:90068
 Schiele, Konrad *see* Behn, Ulrich, 91a:34040
 Shaikhet, L. E. *see* Kolmanovskii, V. B., 91b:93162
 Sharadkin, A. M. *see* Kubyshkina, N. N.; et al., (Not in MR)
 Skelton, Robert E. *see* Desai, Uday B., 91b:93025
 Siettnet, Lakasz On some stopping and impulsive control problems with a general discount rate criterion. 91j:60083
 Vinokurov, Yu. O. *see* Popov, Yu. D., 91a:60133
 de Vries, R. E. *see* Resing, J. A. C.; et al., 91m:90068
 Wanssch, Gerhard Verallgemeinerung des Fundamentalsatzes von Kolmogoroff. [Generalization of Kolmogorov's fundamental theorem] 91a:60098
 Yaz, Engin On the almost sure and mean-square exponential convergence of some stochastic observers. (Not in MR)

Zadivaka, V. K. (with Kondratenko, O. S.; Melnikova, S. S.) Analysis of the accuracy of algorithms for calculating some estimates for correlation functions using the fast Fourier transform. 91g:65101

Zhang, Xue Jun ★ Auxiliary signal design in fault detection and diagnosis. 91b:94001

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* Zhang, Xue Jun, 91b:94001

93E05 Stochastic games, stochastic differential games [see also 90D15]

- Chikrii, A. A. *see* Klimenko, E. V.; et al., 91b:93159
 Gao, Wei Bing *see* Xia, Xiao Hua, (Not in MR)
 Gatun, A. P. Control of a linear stochastic system with an uneven component on a random time interval. (Russian) (see 91j:60061)
 Haurie, Alain (with Tolwinski, Boleslaw) Cooperative equilibria in discounted stochastic sequential games. 91b:93078
 Klimenko, E. V. (with Skopetski, V. V.; Chikrii, A. A.) A game problem of group pursuit of an object. 91b:93159
 Skopetski, V. V. *see* Klimenko, E. V.; et al., 91b:93159
 Tolwinski, Boleslaw *see* Haurie, Alain, 91b:93078
 de Villiers, R. *see* Yavin, Y., 91f:93098 and 91b:93079
 Xia, Xiao Hua (with Gao, Wei Bing) Exponential stabilization and the problem of designing exponential observers for nonlinear control systems. (Chinese) (Not in MR)
 Yavin, Y. (with de Villiers, R.) Game of two cars: case of variable speed. 91f:93098
 — (with de Villiers, R.) Application of stochastic differential games to medium-range air-to-air missiles. 91b:93079

Items with secondary classifications in 93E05

- Breton, Michèle (with L'Ecuier, Pierre) Noncooperative stochastic games under an N -stage local contraction assumption. 91g:90199
 Dirven, C. A. J. M. *see* Vrieze, O. J.; et al., 91j:90106
 Duncan, Tyrone E. (with Mandl, Petr; Pasik-Duncan, Bozenna) On exponentially discounted adaptive control. 91m:93152
 Gaidor, Svetoslav D. Objection and counter-objection equilibria in many-player stochastic differential games. 91b:90238
 L'Ecuier, Pierre *see* Breton, Michèle, 91g:90199
 Leland, Robert Patton Simulation of continuous sample paths of random fields using trigonometric series. (Not in MR)
 Mandl, Petr *see* Duncan, Tyrone E.; et al., 91m:93152
 Papavasiliopoulos, George Cooperative outcomes of dynamic stochastic Nash games. 91a:90194
 Parthasarathy, T. *see* Vrieze, O. J.; et al., 91j:90106
 Pasik-Duncan, Bozenna *see* Duncan, Tyrone E.; et al., 91m:93152
 Ponosov, A. V. Stochastic equations of neutral type. (Russian) 91b:34092
 Tijs, Stef H. *see* Vrieze, O. J.; et al., 91j:90106
 Vrieze, O. J. (with Tijs, Stef H.; Parthasarathy, T.; Dirven, C. A. J. M.) A class of stochastic games with ordered field property. 91j:90106

93E10 Estimation and detection [see also 60G35]

- Abdurakhmanov, I. Yu. On a problem of regular identification of dynamical systems. (Russian) (see 91m:00013)
 Abe, Ken-ichi *see* Usui, Shiro; et al., (Not in MR)
 Alousani, A. T. Distributed estimators for nonlinear systems. 91m:93118
 Anderson, Brian D. O. *see* Williamson, Geoffrey A.; et al., (Not in MR)
 Banks, H. T. (with Reich, Simeon; Rosen, I. G.) Estimation of nonlinear damping in second order distributed parameter systems. 91j:93101
 Bar-Shalom, Yaakov *see* Campo, L.; et al., (Not in MR)
 Belforte, G. (with Bona, B.; Cerone, V.) Identification, structure selection and validation of uncertain models with set-membership error description. (Not in MR)
 Belzer, Mitchell R. *see* Bierman, Gerald J.; et al., 91f:93099
 Bierman, Gerald J. (with Belzer, Mitchell R.; Vandergaert, James S.; Porter, David W.) Maximum likelihood estimation using square root information filters. 91f:93099
 Billings, S. A. (with Tao, Q. H.) Model validity tests for nonlinear signal processing applications. (Not in MR)
 Bona, B. *see* Belforte, G.; et al., (Not in MR)
 Bunch, David S. Estimability in the multinomial probit model. (Not in MR)
 Campo, L. (with Mookerjee, P.; Bar-Shalom, Yaakov) State estimation for systems with sojourn-time-dependent Markov model switching. (Not in MR)
 Candy, J. V. (with Sullivan, E. J.) Wave estimation: a model-based identification approach. (Not in MR)
 Cerone, V. *see* Belforte, G.; et al., (Not in MR)
 Chang, Hsiang *see* Chen, Rong Ming, (Not in MR)
 Chen, Han Fu (with Guo, Lei) Continuous-time stochastic adaptive tracking—robustness and asymptotic properties. 91d:93071
 Chen, John Horng *see* Lee, An Chen, (Not in MR)
 Chen, Rong Ming (with Chang, Hsiang) State and parameter estimation for dynamic systems with colored noise: an accuracy approach based on the minimum discrepancy measure. (Not in MR)
 Chen, Ting *see* Wang, Shu Ning, (Not in MR)
 Chen, Ye-Hwa State estimation for nonlinear uncertain systems: a design based on properties related to the uncertainty bound. (Not in MR)
 Chooibineh, F. (with Lee, C. H.) Split distribution method for constructing confidence intervals for simulation output analyses. (Not in MR)
 Clement, Thierry (with Gentil, Sylviane) Recursive membership set estimation for output-error models. 91m:93119
 Da, Qing Li *see* He, Jian Min, (Not in MR)
 Dąbrowski, Jacek Asymptotic normality of a certain estimator in partially observed linear systems. 91m:93120

- Dasgupta, Soura *see* Rao, Ashok K.; et al., (Not in MR)
- Davis, Mark H. A. *see* Hemery, E. M., 91c:93070
- Demirbas, Kerim Nonlinear state smoothing for discrete dynamic systems with past histories. (Not in MR)
- Demoment, Guy Équations de Chandrasekhar et algorithmes rapides pour le traitement du signal et des images. (English summary) [Chandrasekhar equations and fast algorithms in signal and image processing] 91c:93100
- De Moor, Bart L. (with Vandewalle, Joos) A unifying theorem for linear and total linear least squares. (Not in MR)
- Ding, Wen Jing *see* Wu, Xue Sen, (Not in MR)
- Dion, Jean Michel *see* Giri, Fouad; et al., 91c:93080
- Dumbrovskii, V. V. Synthesis of a reduced-order discrete extrapolator. (Not in MR)
- Dubois, Didier *see* Farier, G., 91c:93121
- Dugard, Luc *see* Giri, Fouad; et al., 91c:93080
- Farier, G. (with Dubois, Didier) A review of k -step-ahead predictors. 91m:93121
- Fu, Lei *see* Li, Rui Sheng, (Not in MR)
- Fuchs, Jean-Jacques Structure and order estimation of multivariable stochastic processes. 91c:93065
- Gaishun, P. V. *see* Kirillova, F. M., (Not in MR)
- Gardner, William A. Two alternative philosophies for estimation of the parameters of time-series. (Not in MR)
- Gentil, Sylviane *see* Clement, Thierry, 91m:93119
- Giri, Fouad (with Dion, Jean Michel; Dugard, Luc; M'Saad, Mohamed) Parameter estimation aspects in adaptive control. 91c:93080
- Glasserman, Paul (with Gong, Wei Bo) Smoothed perturbation analysis for a class of discrete-event systems. 91c:93101
- Gong, Wei Bo *see* Glasserman, Paul, 91c:93101
- Goodwin, Graham C. *see* Vijayan, Rajiv; et al., 91m:93124 and Salgado, Mario E.; et al., (Not in MR)
- Gao, Lei *see* Niedzwiecki, Maciej, 91c:93165; Chen, Han Fu, 91c:93071 and Huang, Da Wei, 91c:93102
- He, Jian Min (with Da, Qing Li) An objective compensated algorithm for least squares estimation of nonlinear systems. (Chinese. English summary) (Not in MR)
- He, Zhen Ya *see* You, Xiao Hu, 91c:93066
- Hemery, E. M. (with Davis, Mark H. A.) Recursive order estimation of stochastic control systems. 91c:93070
- Hsiao, Ch'Y Huang Adaptive estimation of maneuvering targets. (Not in MR)
- Hu, Xi Long (with Qiang, Jin Long; Yu, Er Keng; Liu, Guang Yi) A fast orthogonal transformation algorithm for power system state estimation. (Chinese. English summary) (Not in MR)
- Hua, Yingbo (with Sarkar, Tapan K.) Matrix pencil method for estimating parameters of exponentially damped/undamped sinusoids in noise. 91c:93160
- Huang, Da Wei (with Guo, Lei) Estimation of nonstationary ARMAX models based on the Hannan-Rissanen method. 91c:93102
- Huang, Yih-Fang *see* Rao, Ashok K.; et al., (Not in MR) and (Not in MR)
- Ishii, Naohiro *see* Yoshino, Katsumi, (Not in MR)
- Johnson, C. Richard, Jr. *see* Williamson, Geoffrey A.; et al., (Not in MR)
- Kalaba, Robert (with Tseftas, L.) An organizing principle for dynamic estimation. 91c:93161
- Kárný, Miroslav Estimation of the control period for self-tuners. (Not in MR)
- Karilla, Seppo (with Westerlund, Tapio) An elementary derivation of the maximum likelihood estimator of the covariance matrix, and an illustrative determinant inequality. (Not in MR)
- Keesman, Karel Membership-set estimation using random scanning and principal component analysis. (Not in MR)
- Kirillova, F. M. (with Gaishun, P. V.) An optimal estimator of a dynamical system. (Russian. English summary) (Not in MR)
- Kolmanovskii, V. B. (with Shaikhet, L. E.) States estimate of hereditary stochastic systems. 91c:93162
- Konev, V. V. *see* Vasilev, V. A., 91c:93086
- Korobochkin, Yu. B. *see* Kurkin, O. M.; et al., 91c:93102
- Krzyżak, Adam On estimation of a class of nonlinear systems by the kernel regression estimate. 91c:93083
- Kuang, Yong Zhu (with Li, Yao Chang) Optimal estimation of the states of a class of randomly distributed parameter systems. (Chinese. English summary) 91b:93163
- Kurkin, O. M. (with Korobochkin, Yu. B.; Shatalov, S. A.) ★ Минимаксная обработка информации. (Russian) [Minimax processing of information] 91j:93102
- Lee, An Chen (with Chen, Juhn Horng) Optimal extraction of structural characteristics from response measurements. (Not in MR)
- Lee, C. H. *see* Choobineh, F., (Not in MR)
- Li, Fu *see* Vaccaro, Richard J., 91c:93085
- Li, Rui Sheng (with Fu, Lei) Tracking analysis of parameter identification for time-varying ARMAX systems. (Chinese summary) (Not in MR)
- Li, Yao Chang *see* Kuang, Yong Zhu, 91b:93163
- Liberof, B. D. (with Rudenko, O. G.) Properties of projection algorithms for estimating the parameters of nonstationary objects. (Russian. English summary) (Not in MR)
- Liu, Guang Yi *see* Hu, Xi Long; et al., (Not in MR)
- Lyubimov, A. V. (with Postnikov, E. V.) Optimal estimation of the state of a discrete stochastic system with controllable observations. 91b:93164
- Mandal, Sanjay Kumar *see* Saha, Dines Chandra, (Not in MR)
- Mendel, Jerry M. *see* Swami, Ananthram, 91d:93072
- Milanese, M. (with Vicino, A.) Estimation theory for nonlinear models and set membership uncertainty. 91c:93081
- Mo, S. H. *see* Norton, J. P., (Not in MR)
- Moore, P. *see* Campo, L.; et al., (Not in MR)
- Moore, John Barratt *see* Vijayan, Rajiv; et al., 91m:93124
- M'Saad, Mohamed *see* Giri, Fouad; et al., 91c:93080
- Mukhopadhyay, S. (with Patra, Amit; Prasad Rao, Ganti) Irreducible model estimation for MIMO systems. (Not in MR)
- Nakano, Kazushi (with Tsurumi, Ichiro; Sagara, Setsuo) Finite-dimensional approach to estimation of functional parameters in a parabolic system. 91m:93122
- Nehorai, Arye *see* Stoica, Petre, 91c:93071
- Niedzwiecki, Maciej (with Guo, Lei) Nonasymptotic results for finite-memory WLS filters. 91b:93165
- Norton, J. P. (with Mo, S. H.) Parameter bounding for time-varying systems. (Not in MR)
- Osborne, M. R. (with Prvan, Tania) A direct derivation of the interpolation smoother. (Not in MR)
- Patra, Amit *see* Mukhopadhyay, S.; et al., (Not in MR)
- Phillips, Y. A. Optimal estimation and control of discrete multiplicative systems with unknown second-order statistics. 91c:93084
- Piet-Lahanier, Hélène (with Walter, Eric) Exact recursive characterization of feasible parameter sets in the linear case. 91m:93123
- (with Walter, Eric) Characterization of nonconnected parameter uncertainty regions. (Not in MR)
- *see also* Walter, Eric, 91m:93125
- Poor, H. Vincent *see* Vijayan, Rajiv; et al., 91m:93124
- Porter, David W. *see* Bierman, Gerald J.; et al., 91c:93099
- Postnikov, E. V. *see* Lyubimov, A. V., 91b:93164
- Poznyak, A. S. (with Tikhonov, S. N.) Strong consistency of recursive nonlinear algorithms for estimating parameters of linear difference equations. 91c:93097
- Prasad Rao, Ganti *see* Mukhopadhyay, S.; et al., (Not in MR)
- Prtan, Tania *see* Osborne, M. R., (Not in MR)
- Qiang, Jin Long *see* Hu, Xi Long; et al., (Not in MR)
- Qin, Zhong-Qi *see* Usul, Shiro; et al., (Not in MR)
- Rabin, Uri H. *see* Trankle, Thomas L., (Not in MR)
- Ramm, Alexander G. Random fields estimation theory. 91j:93103
- Rao, Ashok K. (with Huang, Yih-Fang; Dasgupta, Soura) ARMA parameter estimation using a novel recursive estimation algorithm with selective updating. (Not in MR)
- (with Huang, Yih-Fang) Recent developments in optimal bounding ellipsoidal parameter estimation. (Not in MR)
- Reich, Simeon *see* Banks, H. T.; et al., 91j:93101
- Rosen, I. G. *see* Banks, H. T.; et al., 91j:93101
- Rudenko, O. G. *see* Liberof, B. D., (Not in MR)
- Sagara, Setsuo *see* Nakano, Kazushi; et al., 91m:93122
- Saha, Dines Chandra (with Mandal, Sanjay Kumar) Recursive least-squares parameter estimation in SISO systems via Poisson moment functionals. I. Open-loop systems. (Not in MR)
- (with Subramanyam, R. V.) Recursive least-squares parameter estimation in SISO systems via Poisson moment functionals. II. Closed-loop systems. (Not in MR)
- Salgado, Mario E. (with de Souza, Carlos E.; Goodwin, Graham C.) Qualitative aspects of the distribution of errors in least squares estimation. (Not in MR)
- Sarkar, Tapan K. *see* Hua, Yingbo, 91b:93160
- Shaikhet, L. E. *see* Kolmanovskii, V. B., 91b:93162
- Shaked, U. H_∞ -minimum error state estimation of linear stationary processes. (Not in MR)
- Shatalov, S. A. *see* Kurkin, O. M.; et al., 91c:93102
- Smit, M. K. (with Verhoof, J. W.) A bounded-error approach to accuracy analysis in ellipsometry. (Not in MR)
- de Souza, Carlos E. *see* Salgado, Mario E.; et al., (Not in MR)
- Stoica, Petre (with Nehorai, Arye) Statistical analysis of two nonlinear least-squares estimators of sine-wave parameters in the colored-noise case. 91c:93071
- Subramanyam, R. V. *see* Saha, Dines Chandra, (Not in MR)
- Sullivan, E. J. *see* Candy, J. V., (Not in MR)
- Swami, Ananthram (with Mendel, Jerry M.) ARMA parameter estimation using only output cumulants. 91d:93072
- Tao, Q. H. *see* Billings, S. A., (Not in MR)
- Tseftas, L. *see* Kalaba, Robert, 91c:93161
- Tikhonov, S. N. *see* Poznyak, A. S., 91c:93097
- Tran Hung Thao Optimal state estimation for a stochastic dynamical system from point process observations. 91j:93104
- Trankle, Thomas L. (with Rabin, Uri H.) Maximum likelihood tuning of a vehicle motion filter. (Not in MR)
- Tsurumi, Ichiro *see* Nakano, Kazushi; et al., 91m:93122
- Usul, Shiro (with Abe, Ken-ichi; Qiu, Zhong-Qi) An adaptive LMS algorithm with a quick tracking property for time-varying parameter estimation. (Not in MR)
- Vaccaro, Richard J. (with Li, Fu) Signal estimation over short data records: a data-dependent time-invariant algorithm. 91c:93085
- Vandergraft, James S. *see* Bierman, Gerald J.; et al., 91c:93099
- Vandewalle, Joos *see* De Moor, Bart L., (Not in MR)
- Vasilev, V. A. (with Konev, V. V.) On sequential parameter estimation of continuous dynamic systems by discrete time observations. (Russian summary) 91c:93086
- Verhoof, J. W. *see* Smit, M. K., (Not in MR)
- Vicino, A. *see* Milanese, M., 91c:93081
- Vijayan, Rajiv (with Poor, H. Vincent; Moore, John Barratt; Goodwin, Graham C.) A Levinson-type algorithm for modeling fast-sampled data. 91m:93124
- Walter, Eric (with Piet-Lahanier, Hélène) Estimation of parameter bounds from bounded-error data: a survey. 91m:93125
- *see also* Piet-Lahanier, Hélène, 91m:93123 and (Not in MR)
- Wang, Shu Ning (with Chen, Ting) Parameter estimator suitable for some bad samples. (Not in MR)
- Weinert, Howard L. A note on efficient smoothing for boundary value models. (Not in MR)
- Westerlund, Tapio *see* Karilla, Seppo, (Not in MR)
- Williamson, Geoffrey A. (with Anderson, Brian D. O.; Johnson, C. Richard, Jr.) On the local stability properties of adaptive parameter estimators with composite errors and split algorithms. (Not in MR)
- Wu, Xue Sen (with Ding, Wen Jing) An error-correction algorithm for estimating parameters of transfer functions. (Chinese. English summary) (Not in MR)
- Yagle, Andrew E. Analogues of split Levinson, Schur, and lattice algorithms for three-dimensional random field estimation problems. 91c:93103

- Yakovlev, R. T. Optimum estimation of the states of stochastic discrete linear dynamic systems with time delays when there are unknown parameters. 91e:93087
- Yaz, Engin Estimation and control of stochastic bilinear systems with prescribed degree of stability. (Not in MR)
- Yoshine, Katsumi (with Ishii, Naohiro) Estimation of kernel function of nonlinear system by Gaussian nonwhite noise. (Not in MR)
- You, Xiao Hu (with He, Zhen Ya) The relationship between the Gram-Schmidt orthogonalization process and linear prediction, and its application. (Chinese) 91h:93066
- Yu, Er Keng see Hu, Xi Long; et al. (Not in MR)
- Zhang, Qing² Controlled partially observed diffusions with correlated noise. 91i:93104

Items with secondary classifications in 93E10

- Alpay, Daniel (with Dewilde, Patrick M.; Dym, Harry) On the existence and construction of solutions to the partial lossless inverse scattering problem with applications to estimation theory. 91k:4003
- Basawa, I. V. see Kim, Won Kyung; et al. 91i:62113
- Bernstein, Dennis S. see Haddad, Wassim M. 91i:93069
- Bhansali, R. J. On a relationship between the inverse of a stationary covariance matrix and the linear interpolator. 91f:62145
- Billard, Lynne see Kim, Won Kyung; et al. 91i:62113
- (Bryant, Greyham F.) see Grimbé, Michael J. 91e:93001a and 91e:93001b
- Cabuk, Serafettin Testing system availability hypotheses. (Not in MR)
- Cao, Xin see Sheng, Zhao Han; et al. (Not in MR)
- Capitani, Gloria see Tibaldi, Marco. (Not in MR)
- Chen, Han Fu (with Kumar, P. R.; van Schuppen, J. H.) On Kalman filtering for conditionally Gaussian systems with random matrices. 91g:93031
- Dahlhaus, Rainer (with Pötscher, B. M.) Convergence results for maximum likelihood type estimators in multivariable ARMA models. II. 91b:62176
- Del Re, Giuseppe (with Liegener, Christoph-M.) Second-order expression of Born probabilities by partitioning and Laplace transform methods. (Not in MR)
- Delsarte, Philippe (with Genin, Y.) The multichannel split Levinson algorithm. 91h:94020
- Dewilde, Patrick M. see Alpay, Daniel; et al. 91h:94003
- Dombrovskii, V. A. (with Kolomiets, V. G.) A study of random oscillations in systems with distributed parameters and slowly changing coefficients. (Russian) 91f:35279
- Dym, Harry see Alpay, Daniel; et al. 91h:94003
- Feng, Chun Bo see Zheng, Wei Xia. 91i:93102
- Genin, Y. see Delsarte, Philippe. 91h:94020
- Grimbe, Michael J. (with Johnson, Michael A.) ★ Optimal control and stochastic estimation: theory and applications. Vol. 1. 91e:93001a
- (with Johnson, Michael A.) ★ Optimal control and stochastic estimation: theory and applications. Vol. 2. 91e:93001b
- Guo, Lei Estimating time-varying parameters by the Kalman filter based algorithm: stability and convergence. 91a:93060
- Haddad, Wassim M. (with Bernstein, Dennis S.) Optimal reduced-order observer-estimators. 91i:93069
- Halevi, Yoram Optimal observers for systems with colored noises. (Not in MR)
- Hantler, Sidney L. (with Rosberg, Zvi) Optimal estimation for an $M/M/c$ queue with time varying parameters. 91c:62087
- Johnson, Michael A. see Grimbé, Michael J. 91e:93001a and 91e:93001b
- Jonsson, Gudmundur ★ Parameter estimation in models of heat exchangers and geothermal reservoirs. 91k:86010
- Katsyuba, O. A. see Zhdanov, A. I. 91i:93131
- Kim, Won Kyung (with Billard, Lynne; Basawa, I. V.) Estimation for the first-order diagonal bilinear time series model. 91i:62113
- Kinnert, Michel (with Peng, You Bin) Discrete-time LQG/LTR technique for systems with time delays. 91k:93053
- Kliokys, Edvardas see Nemura, Antanas. 91i:93002
- Kolomiets, V. G. see Dombrovskii, V. A. 91f:35279
- Kostomova, E. K. Approximation of the problem of choosing an optimal composition of measurements in a parabolic system. (Russian) 91j:93032
- Kulhar, Rudolf Recursive Bayesian estimation under memory limitation. 91b:62057
- Kumar, P. R. see Chen, Han Fu; et al. 91g:93031
- Kunisch, Karl Contributions to nonlinear inverse problems arising in parameter estimation for elliptic systems. 91e:35215
- Lehtinen, Markku S. (with Piivärinta, Lassi; Somersalo, Erkki) Linear inverse problems for generalised random variables. 91g:65129
- Liegener, Christoph-M. see Del Re, Giuseppe. (Not in MR)
- Lii, Keh Shia Identification and estimation of non-Gaussian ARMA processes. 91f:62151
- Makhoul, John Volume of the space of positive definite sequences. 91e:40001
- Mal'tsev, Arkadii Anatolevich (with Silaev, A. M.) Optimum estimates of the times of random irregular variations in signal parameters. 91g:94002
- Meleshko, V. I. (with Tkachenko, T. V.) Dynamic identification by factorized recursion methods. (Not in MR)
- Nemura, Antanas (with Kliokys, Edvardas) ★ Оценки параметров и состояния систем. (Russian) [Estimation of the parameters and the state of systems] 91i:93002
- Niedzwiecki, Maciej Recursive functional series modeling estimators for identification of time-varying plants—more bad news than good? 91h:93170
- Paesmans, Marianne Une méthode d'identification pour un modèle de fonctions de transfert. (English summary) [An identification method for a transfer function model] 91a:62245
- Piivärinta, Lassi see Lehtinen, Markku S.; et al. 91g:65129
- Peng, You Bin see Kinnert, Michel. 91k:93053
- Poskitt, D. S. Estimation and structure determination of multivariate input output systems. 91j:62135
- Pötscher, B. M. see Dahlhaus, Rainer. 91b:62176
- Poznyak, A. S. (with Tikhonov, S. N.) Extension of a class of nonlinear residual transformations in recursion algorithms for parametric estimation. 91j:93130
- Pupelis, Rimantas Optimal recurrent identification methods. III. Improving the efficiency of algorithms for simultaneous estimation of parameters and delays in the object. (Russian. Lithuanian summary) 91e:93078

- Optimal recurrent identification methods. IV. Adaptive stabilization of algorithms in the case of outliers. (Russian. Lithuanian summary) 91e:93079
- Rosberg, Zvi see Hantler, Sidney L.; et al. 91c:62087
- van Schuppen, J. H. see Chen, Han Fu; et al. 91g:93031
- Sheng, Zhao Han (with Cao, Xin; Xu, Nan Rong) Modelling for a class of unstable generalized ARMA series. (Chinese. English summary) (Not in MR)
- Silaev, A. M. see Mal'tsev, Arkadii Anatolevich. 91k:94002
- Somersalo, Erkki see Lehtinen, Markku S.; et al. 91g:65129
- Tibaldi, Marco (with Capitani, Gloria) Duality between frequency-shaped LQ regulation and coloured noise estimation. (Not in MR)
- Tikhonov, S. N. see Poznyak, A. S. 91j:93130
- Tkachenko, T. V. see Meleshko, V. I. (Not in MR)
- Trần Hùng Thao Optimal state estimation for a stochastic dynamical system from point process observations. 91i:60113
- Tuileken, Herbert J. A. F. Generalized binary noise test-signal concept for improved identification-experiment design. (Not in MR)
- Varsh, James M. On the conditioning of parameter estimation problems. 91m:65228
- Xu, Nan Rong see Sheng, Zhao Han; et al. (Not in MR)
- Yagle, Andrew E. Generalized split Levinson, Schur, and lattice algorithms for estimation and inverse scattering. 91d:65212
- Yastrebov, A. I. Control when estimating parameters of multiply connected stochastic systems. (Russian) 91g:93036
- Zhdanov, A. I. (with Katsyuba, O. A.) Strong consistency of estimates made by the method of orthogonal projections. 91i:93131
- Zheng, Wei Xia (with Feng, Chun Bo) Identification of stochastic time lag systems in the presence of colored noise. 91f:93102
- Zinchuk, N. A. Conversion of minimax parameter estimation problems to a system of algebraic equations. 91j:49010

93E11 Filtering [see also 60G35]

- Afanasyev, N. F. (with Blinov, V. A.) A method of constructing recursive algorithms of filtering random fields. (Not in MR)
- Ageev, V. M. see Petrov, V. V. 91j:93109
- Ahmed, N. U. see Dabbous, T. E.; et al. (Not in MR)
- Arimatsu, Naganori see Tamae, Hiroshi; et al. 91i:93110
- Bensaouan, Alain On the integrated formulation of Zakai and Kushner equations. 91e:93059
- Bien, Zeungnam see Moon, Bong-Chae. (Not in MR)
- Biryukov, V. F. (with Voronov, E. M.; Karpenko, A. P.) Guaranteed estimate of the efficiency of a multidimensional linear filter with one section and prototype filter specified. 91i:93105
- Blazhenova-Mikulich, L. Yu. Stability of a modification of a Ho-Kalman algorithm for multiple input and multiple output systems. (Russian) (see 91k:00016)
- Blinov, V. A. see Afanasyev, N. F. (Not in MR)
- Bobrovsky, B. Z. see Yash, I.; et al. 91i:93115
- Bose, Tamal (with Brown, David P.) On limit cycles in N -order direct-form digital filters. (Not in MR)
- Brown, David P. Overflow stability of N -order state space digital filters. 91h:93067
- see also Bose, Tamal. (Not in MR)
- Bullock, Thomas E. see Sangsuk-Iam, Sawanchai. 91j:93110
- Bulychev, Yu. G. The method of first integrals in nonlinear filtering problems. (Not in MR)
- Burton, Robert M., Jr. see Yang, Xue Shan; et al. 91h:93069
- Byrnes, Christopher L. (with Lindquist, Anders) Geometry of the Kimura-Georgiou parametrization of modelling filters. 91g:93030
- Byvalkov, M. E. (with Romashchev, A. A.) Linear difference equations for predicting filters. 91h:93166
- Carotenuto, L. (with Muraca, P.; Raiconi, G.) On the optimal design of the output transformation for discrete-time linear systems. 91k:93082
- Chaleyat-Maurel, Mireille (with Michel, Dominique) The support of the density of a filter in the uncorrelated case. 91m:93126
- Chen, Guan Rong (with Yu, Yao Qi; de Figueiredo, Rui J. P.) A Kalman filtering technique for certain Markov chains. 91k:93083
- Chen, Han Fu (with Kumar, P. R.; van Schuppen, J. H.) On Kalman filtering for conditionally Gaussian systems with random matrices. 91g:93031
- Chen, Jian Guo (with Shi, Zi Qiang; Wang, Pei De) A generalization of the theory of Kalman filtering. (Chinese. English summary) 91m:93127
- Christensen, G. S. (with Soliman, S. A.) Optimal filtering of linear discrete dynamic systems based on least absolute value approximations. 91e:93072
- (with Soliman, S. A.) Optimal filtering for continuous linear dynamic systems based on WLAV approximations. 91c:93073
- Coyle, Edward J. see Gabboud, Moncef. 91i:93107
- Dabbous, T. E. (with Lim, S. S.; Ahmed, N. U.) Linear filtering for a class of jump processes arising in navigation systems. (Not in MR)
- Darowach, Mohamed (with Zasadzinski, Michel) Data reconciliation in generalized linear dynamic systems. (Not in MR)
- Deng, Tian-Bo (with Kawamata, Masayuki) Design of separable-denominator two-dimensional digital filters based on the reduced-dimensional decomposition of frequency domain specifications. (Not in MR)
- Di Masi, Giovanni B. (with Runggaldier, Wolfgang J.) An adaptive linear approach to nonlinear filtering. 91j:93105
- Duda, Zdzisław see Gessing, Ryszard. 91i:93108
- Elmou, E. V. (with Kazakov, I. E.) Optimal filtering in random-structure dynamic systems with a meter controlled by an indicator. 91m:93128
- Elliott, Robert James Filtering with a small nonlinear term in the signal. 91e:93088
- Elsayed, Ahmed see Grimbé, Michael J. 91e:93090
- Enacheanu, Denis M. Variational computation method in nonlinear filtering. 91m:93129
- Felachi, Ali Decentralized filtering for interconnected systems. 91h:93068
- Ferrante, Marco (with Runggaldier, Wolfgang J.) On necessary conditions for the existence of finite-dimensional filters in discrete time. 91e:93089

- de Figueiredo, Rui J. P. *see* Chen, Guan Rong; et al., 91k:93083
- Florchinger, Patrick. Nonlinear filtering with dependent noises. The case of unbounded coefficients. 91i:93106
- Frolov, A. V. *see* Kolmanovskii, V. B.; et al., (Not in MR)
- Gabbouj, Moncef (with Coyle, Edward J.). Minimum mean absolute error stack filtering with structural constraints and goals. 91i:93107
- Gessing, Ryszard (with Duda, Zdzisław). Two-level stochastic LQ control problem for a dynamic system. 91i:93108
- Grewal, Mohinder S. (with Henderson, Vinson D.; Miyasako, Randy S.). Application of Kalman filtering to the calibration and alignment of inertial navigation systems. (Not in MR)
- Grimble, Michael J. (with Elsayed, Ahmed). Solution of the H_∞ optimal linear filtering problem for discrete-time systems. 91c:93090
- Gudadhe, Alka *see* Tiwari, A. K., (Not in MR)
- Guo, Lei. Estimating time-varying parameters by the Kalman filter based algorithm: stability and convergence. 91a:93060
- *see also* Niedzwiecki, Maciej, 91k:93084
- Hamada, Noriomi *see* Taguchi, Akira; et al., (Not in MR)
- Hashimoto, Shusuke *see* Tamas, Hiroshi; et al., 91i:93110
- Hazewinkel, Michiel. Lie algebraic methods in filtering and identification. (see 91j:60003)
- Non-Gaussian linear filtering, identification of linear systems, and the symplectic group. 91g:93032
- Henderson, Vinson D. *see* Grewal, Mohinder S.; et al., (Not in MR)
- Herr, Alfred O., III. Timing estimation for a filtered Poisson process in Gaussian noise. (Not in MR)
- Heunis, A. J. On the stochastic differential equations of filtering theory. 91i:93098
- On the stochastic differential equations of filtering theory. 91i:93109
- Hirano, Yasuhiro (with Takebe, Tsuyoshi). Systolic array implementation of 2-D digital filters using 2-D block processing. (Not in MR)
- Hucke, Hans-Peter. Nonlinear filtering of reflecting diffusion processes. 91c:93091
- Jabbari, Faryar. Lattice filters for RLS estimation of a delta operator-based model. (Not in MR)
- Janardhanan, P. (with Neelakantan, M. N.). A fast perturbation method for the design of linear phase FIR digital filters of finite wordlength using single-frequency filters. (Not in MR)
- Kalaba, Robert (with Tefatsion, L.). A further note on flexible least squares and Kalman filtering. 91i:93112
- Kalson, Seth Z. (with Yao, Kung). A class of least-squares filtering and identification algorithms with systolic array architectures. (Not in MR)
- Karpenko, A. P. *see* Biryukov, V. F.; et al., 91i:93105
- Karpinski, F. G. (with Martynenko, O. V.). An estimate for the physical and geometric characteristics of point sources of energy. (Russian. English summary) (Not in MR)
- Kas'yanov, V. A. Conditional filtering of discrete random processes. (Not in MR)
- Katayama, Tetsu (with Washikita, Yoshiro). Solutions to Wiener filtering and stationary LQG problems via H_2 control theory. I. Continuous-time system. (Not in MR)
- Kawamata, Masayuki *see* Deng, Tian-Bu, (Not in MR)
- Kazakov, I. E. *see* Efimov, E. V., 91m:93128
- Khargonekar, Pramod P. (with Nagpal, Krishan M.). Filtering and smoothing in an H^∞ setting. 91c:93092
- Kim, Yu. V. An approach to suboptimal filtering in applied problems of information processing. 91m:93130
- Kiloyas, Edvardas. Filtering in systems of random structure with application to data processing in electrical power systems. (Not in MR)
- Kolesnikova, O. N. (with Lyashenko, N. N.). Use and automatic design of differential correctors. (Russian) (see 91h:00024)
- Kolesa, A. E. Exact formulas for optimal filtering in a nonstationary piecewise-linear problem of parameter estimation. 91i:93113
- Kolmanovskii, V. B. (with Frolov, A. V.; Shaikh, L. E.). An estimation problem for linear stochastic equations with aftereffect. (Not in MR)
- Kormyle, John. Kalman smoothing via auxiliary outputs. 91m:93131
- Kumar, P. R. *see* Chen, Han Fu; et al., 91g:93031
- Kummert, Anton. Derivation of an adaptive algorithm for IIR digital systems realized by powerwave digital filters. 91i:93114
- Kwon, O. K. *see* Kwon, Wook Hyun; et al., 91j:93106
- Kwon, Wook Hyun (with Lee, Kyu Seung; Kwon, O. K.). Optimal FIR filters for time-varying state-space models. 91j:93106
- Lee, Kyu Seung *see* Kwon, Wook Hyun; et al., 91j:93106
- Li, Long Suo *see* Zhu, Ying Shan, 91i:93116
- Lim, S. S. *see* Dabbous, T. E.; et al., (Not in MR)
- Lindquist, Anders *see* Byrnes, Christopher I., 91g:93030
- Liu, Shi Zhong. Pseudo-least squares algorithms for adaptive filters and their applications. (Chinese. English summary) 91j:93107
- Lyashenko, N. N. *see* Kolesnikova, O. N., (91h:00024)
- Martynenko, O. V. *see* Karpinski, F. G., (Not in MR)
- Matsuo, A. I. Estimation of the sensitivity of the Kalman-Bucy filter to a priori values of covariance matrices. (Not in MR)
- Me'nikov, B. G. (with Musaev, A. A.). Optimal finite-memory filtering. (Not in MR)
- (with Murav'ev, A. V.; Musaev, A. A.; Stepanov, M. G.). Methods and algorithms for optimal linear filtering with finite memory. (Russian) (Not in MR)
- Michel, Dominique *see* Chaleyat-Maurel, Mireille, 91m:93126
- Milheiro de Oliveira, Paula. Filtrage approché pour un problème de filtrage non linéaire discret avec petit bruit d'observation. (English summary) [Approximate filters for a discrete nonlinear filtering problem with small observation noise] (see 91f:93002)
- Miyamura, Yumiko *see* Taguchi, Akira; et al., (Not in MR)
- Miyasako, Randy S. *see* Grewal, Mohinder S.; et al., (Not in MR)
- Mohler, R. R. *see* Yang, Xue Shan; et al., 91h:93069
- Moon, Bong-Chae (with Bien, Zeungnam). Failure detection, identification and accommodation based on a new accommodation filter. (Not in MR)
- Morrell, Darryl R. (with Stirling, Wynn C.). Set-valued filtering and smoothing. 91j:93108
- Muraca, P. *see* Carotenuto, L.; et al., 91k:93082
- Murav'ev, A. V. *see* Me'nikov, B. G.; et al., (Not in MR)
- Musaev, A. A. *see* Me'nikov, B. G.; et al., (Not in MR) and (Not in MR)
- Nagpal, Krishan M. *see* Khargonekar, Pramod P., 91c:93092
- Neelakantan, M. N. *see* Janardhanan, P., (Not in MR)
- Nehorai, Arye *see* Stoica, Petre, (Not in MR)
- Niedzwiecki, Maciej (with Guo, Lei). Nonasymptotic results for finite-memory WLS filters. 91k:93084
- Novitski, V. V. An inverse problem in linear filtering. (Russian) 91c:93074
- Okutani, Iwao. The Kalman filtering approaches in some transportation and traffic problems. (see 91i:90029)
- Petrov, V. V. (with Ageev, V. M.). On the choice of regularizing functionals, and optimal time discretization. 91j:93109
- Pontier, Monique. Filtrage approché et calcul stochastique non causal. [Approximated filtering and noncausal stochastic calculus] 91m:93132
- Raiconi, G. *see* Carotenuto, L.; et al., 91k:93082
- Romashchikov, A. A. *see* Byalkov, M. E., 91b:93166
- Runggaldier, Wolfgang J. *see* Ferrante, Marco, 91c:93089 and Di Masi, Giovanni B., 91k:93105
- Sanguk-Iam, Suwanchai (with Bullock, Thomas E.). Analysis of discrete-time Kalman filtering under incorrect noise covariances. 91j:93110
- van Schuppen, J. H. *see* Chen, Han Fu; et al., 91g:93031
- Schuss, Z. *see* Yaesh, I.; et al., 91i:93115
- Shafir, M. L. *see* Shaikh, L. E., 91c:93075
- Shaikh, L. E. (with Shafir, M. L.). Linear filtering of solutions of stochastic integral equations in non-Gaussian case. (Russian summary) 91c:93075
- *see also* Kolmanovskii, V. B.; et al., (Not in MR)
- Shaked, U. *see* Shats, S., (Not in MR)
- Shats, S. (with Shaked, U.). Discrete-time filtering of noise correlated continuous-time processes: modeling and derivation of the sampling period sensitivities. (Not in MR)
- Shi, Zi Qiang *see* Chen, Jian Guo; et al., 91m:93127
- Shorikov, A. F. Minimax filters for nonlinear discrete systems. 91m:93133
- Sikiba, Yu. N. * Алгоритм последовательного усвоения данных наблюдений в задачах фильтрации Калмана. (Russian) [An algorithm for sequential assimilation of observation data in problems of Kalman filtering] 91k:93085
- Smyshlyaeva, L. G. A discrete filter with finite memory for an inhomogeneous system state model. (Not in MR)
- Soliman, S. A. *see* Christensen, G. S., 91c:93072 and 91c:93073
- Song, Qiang. A new method for snowmelt runoff forecasting in real-time. (Chinese summary) (Not in MR)
- de Souza, Carlos E. Periodic strong solution for the optimal filtering problem of linear discrete-time periodic systems. 91k:93086
- Stepanov, M. G. *see* Me'nikov, B. G.; et al., (Not in MR)
- Sternad, Mikael. Use of disturbance measurement feedforward in LQG self-tuners. (Not in MR)
- Stirling, Wynn C. *see* Morrell, Darryl R., 91j:93108
- Stoica, Petre (with Nehorai, Arye). Convergence analysis of an adaptive pseudolinear-regression notch filtering algorithm. (Not in MR)
- Taguchi, Akira (with Hamada, Noriomi; Miyamura, Yumiko). A proposal of mean filter with adaptive window length. (Not in MR)
- Takebe, Tsuyoshi *see* Hirano, Yasuhiro, (Not in MR)
- Tam, Loen-Fai (with Wong, Wing Shing; Yau, Stephen S.-T.). On a necessary and sufficient condition for finite dimensionality of estimation algebras. 91b:93167
- Tamas, Hiroshi (with Hashimoto, Shusuke; Arimatsu, Naganori). Optimal state estimation problem for a dimensional increasing system using Kalman filter. (Japanese. English summary) 91i:93110
- Tefatsion, L. *see* Kalaba, Robert, 91i:93112
- Tigelaar, Harry H. Informative sampling for multivariate ARMAX systems. (Not in MR)
- Tiwari, A. K. (with Gudadhe, Alka). The 2-dimensional distributional Mellin transform and form invariant linear filtering. (Not in MR)
- Tucci, Marco P. A note on flexible least squares. 91i:93111
- Voronov, E. M. *see* Biryukov, V. F.; et al., 91i:93105
- Wang, En Ping. Suboptimal filtering for a singular discrete-time stochastic linear system. 91c:93093
- Wang, Pei De *see* Chen, Jian Guo; et al., 91m:93127
- Washikita, Yoshiro *see* Katayama, Tetsu, (Not in MR)
- Whalley, R. Two-dimensional digital filters. (Not in MR)
- Wojcik, Piotr J. On-line estimation of signal and noise parameters with application to adaptive Kalman filtering. (Not in MR)
- Wong, Wing Shing *see* Tam, Loen-Fai; et al., 91b:93167
- Xie, Cheng Di. A filtering theory of biased noise. (Chinese. English summary) (Not in MR)
- Xu, Ding Ce. Analysis and design of Chebyshev type I digital filters. (Chinese. English summary) (Not in MR)
- Yaesh, I. (with Bobrovsky, B. Z.; Schuss, Z.). Asymptotic analysis of the optimal filtering problem for two-dimensional diffusions measured in a low noise channel. 91i:93115
- Yang, Xue Shan (with Mohler, R. R.; Burton, Robert M., Jr.). Adaptive suboptimal filtering of bilinear systems. 91h:93069
- Yao, Kung *see* Kalson, Seth Z., (Not in MR)
- Yau, Stephen S.-T. *see* Tam, Loen-Fai; et al., 91b:93167
- Yu, Yao Qi *see* Chen, Guan Rong; et al., 91k:93083
- Zasadzinski, Michel *see* Darouach, Mohamed, (Not in MR)
- Zhu, Ying Shan (with Li, Long Suo). On filtering problem of multiple stationary sequences with stationary disturbance for a linear system. 91i:93116
- Zhu, Yun Min. The strong convergence rate of adaptive filters. (Chinese. English summary) 91j:93111

Items with secondary classifications in 93E11

- Afanasyev, Yu. V. *see* Presnyakov, I. N., (Not in MR)
- Akhmetzhanova, Z. Zh. (with Bakan, G. M.). A finitely converging algorithm for solving a combined system of linear equations and inequalities. 91g:65092
- Bakan, G. M. *see* Akhmetzhanova, Z. Zh., 91g:65092

- Baldessari, Bruno (with Vitale, Cosimo) Asymmetric filters in correlated ARIMA components. (Italian summary) **91d:62148**
- Banks, H. T. (with Kojima, Fumio) Filtering problem for the stochastic vibration of flexible beams with tip bodies. **91c:73060**
- Barabanov, A. E. Optimal minimax control of linear dynamical objects. (Russian) **91d:93030**
- Barton, Richard J. (with Poor, H. Vincent) An RKHS approach to robust L^2 estimation and signal detection. **91b:94013**
- Bensoussan, Alain (with Glowinski, Roland; Răşcanu, A.) Approximation of the Zakai equation by the splitting up method. **91m:65243**
- Chevalier, P. (with Duvaut, Patrick; Picinbono, Bernard) Le filtrage de Volterra transverse réel et complexe en traitement du signal. (English summary) [Real and complex transversal Volterra filtering in signal processing] (Not in MR)
- Cipra, Tomáš Some recursive methods in time series. **91c:62080**
- Note on approximate non-Gaussian filtering with nonlinear observation relation. **91j:60077**
- Drakunov, S. V. (with Izosimov, D. B.; Luk'yanov, A. G.; Utkin, V. A.; Utkin, Vadim I.) The block control design principle. II. **91m:93028**
- Duvaut, Patrick see Chevalier, P.; et al., (Not in MR)
- Elliott, Robert James Filtering for a logistic equation. **91b:94012**
- Florhinger, Patrick Malliavin calculus with time dependent coefficients and application to nonlinear filtering. **91g:60067**
- Fukuda, Toshio see Watanabe, Keigo; et al., (Not in MR)
- Gao, Ai Jun see Zhu, Yun Min, **91j:93055**
- Gionti, O. A. Nonlinear filtering of random processes and optimal signal transmission over a channel with "noisy" feedback. (Russian) **91f:94002**
- Glowinski, Roland see Bensoussan, Alain; et al., **91m:65243**
- Hou, Ming On a decoupled multitarget tracking algorithm. (Not in MR)
- Houdré, Christian Factorization algorithms and nonstationary Wiener filtering. **91m:62171**
- Hřebíček, Jiří (with Šik, František; Veselý, Vítězslav) Discrete smoothing splines and digital filtration. Theory and applications. (Russian and Czech summaries) **91c:65024**
- Izosimov, D. B. see Drakunov, S. V.; et al., **91m:93028**
- Katayama, Tohru Solutions to Wiener filtering and stationary LQG problem via H_2 control theory. II. Discrete-time system. (Not in MR)
- Kajima, Fumio see Banks, H. T., **91c:73060**
- Krieger, Abraham (with Masry, Elias) Constrained adaptive filtering algorithms: asymptotic convergence properties for dependent data. **91h:94004**
- Kuang, Yong Zhu Analysis of a stochastic economic system. (Chinese. English summary) **91m:90035**
- Kuntsevich, V. M. Matrix models of two-dimensional discrete fields and their application in digital signal processing systems. (Russian) (Not in MR)
- Luk'yanov, A. G. see Drakunov, S. V.; et al., **91m:93028**
- Margaritis, Dimitris A time-varying model of rational learning. **91g:90045**
- Masry, Elias see Krieger, Abraham, **91h:94004**
- Nakamori, Seichi New design of linear least-squares fixed-point smoother using covariance information in continuous systems. **91k:93090**
- Newton, Nigel J. An efficient approximation for stochastic differential equations on the partition of symmetrical first passage times. **91a:60152**
- Ocone, Daniel (with Pardoux, Étienne) A Lie algebraic criterion for nonexistence of finite-dimensionally computable filters. **91a:60166**
- Pardoux, Étienne see Ocone, Daniel, **91a:60166**
- Pavlović, Gordana see Tekalp, A. Murat, (Not in MR)
- Picinbono, Bernard see Chevalier, P.; et al., (Not in MR)
- Poor, H. Vincent see Barton, Richard J., **91b:94013**
- Presnyakov, I. N. (with Afanas'ev, Yu. V.) A generalized algorithm for indirect nonlinear filtering of Markov processes. (Russian) (Not in MR)
- Răşcanu, A. see Bensoussan, Alain; et al., **91m:65243**
- Sedukhin, S. G. (with Tishchenko, T. P.) Проектирование высокопараллельных вычислительных структур для алгоритма Гаусса-Жордана в применении к задачам фильтрации. (Russian) [Design of highly parallel numerical structures for the Gauss-Jordan algorithm in an application to filtering problems] (Not in MR)
- Shaked, U. H_∞ -minimum error state estimation of linear stationary processes. (Not in MR)
- see also Shats, S., **91b:93108**
- Shats, S. (with Shaked, U.) Use of approximate discrete-time models in filtering and regulation of continuous-time processes. **91b:93108**
- Šik, František see Hřebíček, Jiří; et al., **91c:65024**
- Tekalp, A. Murat (with Pavlović, Gordana) Multichannel image modeling and Kalman filtering for multispectral image restoration. (French and German summaries) (Not in MR)
- Tishchenko, T. P. see Sedukhin, S. G., (Not in MR)
- Tzafestas, Spyros G. see Watanabe, Keigo; et al., (Not in MR)
- Utkin, V. A. see Drakunov, S. V.; et al., **91m:93028**
- Utkin, Vadim I. see Drakunov, S. V.; et al., **91m:93028**
- Vesely, Vitezslav see Hřebíček, Jiří; et al., **91c:65024**
- Vitale, Cosimo see Baldessari, Bruno, **91d:62148**
- Watanabe, Keigo (with Fukuda, Toshio; Tzafestas, Spyros G.) Learning algorithms of layered neural networks via extended Kalman filters. (Not in MR)
- Wilson, David A. Extended optimality properties of the linear quadratic regulator and stationary Kalman filter. (Not in MR)
- Yin, Gang George Asymptotic properties of an adaptive beam former algorithm. **91h:93080**
- Yur'ev, A. N. Synthesis of stochastic signal detection algorithms for signals represented in the state space. **91b:94018**
- Zhu, Yun Min (with Gao, Ai Jun) Necessary and sufficient conditions and robustness for convergence of adaptive filtering algorithms. **91j:93055**
- Aksenova, T. I. Sufficient convergence conditions for external criteria for model selection. **91f:93099**
- Arapostathis, Aristotle (with Marcus, Steven I.) Analysis of an identification algorithm arising in the adaptive estimation of Markov chains. **91a:93061**
- Asfar, K. see Moustafa, K. A.; et al., (Not in MR)
- Bagchi, Arunabha see Luesink, Rob, **91j:93116**
- Baird, C. Robert see Xu, Hong Yue, **91g:93033**
- Baltrūnas, Jonas Identification of nonlinear processes with an additive trend. I. Formulation of the problem, parametric mathematical models. (Russian. English and Lithuanian summaries) **91m:93134**
- (with Nakutis, Evaldas) Identification of nonlinear processes with an additive trend. II. Algorithms and results of calculations. (Russian. English and Lithuanian summaries) **91m:93135**
- Identification of nonlinear processes with an additive trend. III. Statistical properties of estimates. (Russian. English and Lithuanian summaries) **91m:93136**
- (with Valteris, Rita; Čeponytė, D.) Identification of nonlinear processes with an additive trend. IV. Nonparametric estimation. (Russian. English and Lithuanian summaries) **91m:93137**
- Beghelli, S. (with Guidorzi, R. P.; Soverini, U.) Dynamical system identification from noisy data. **91j:93112**
- Bendat, Julius S. ★ Nonlinear system analysis and identification from random data. **91b:93168**
- Billings, S. A. see Chen, Sheng; et al., (Not in MR)
- Bittanti, Sergio (with Bolzern, Paolo; Campi, Marco) Recursive least-squares identification algorithms with incomplete excitation: convergence analysis and application to adaptive control. **91h:93070**
- Boguslavskii, I. A. (with Pyatenko, T. V.) Identification of perturbations of a dynamical system. **91c:93094**
- Bolzern, Paolo see Bittanti, Sergio; et al., **91h:93070**
- Campi, Marco see Bittanti, Sergio; et al., **91h:93070**
- Čeponytė, D. see Baltrūnas, Jonas; et al., **91m:93137**
- Chen, Han Fu (with Zhang, Ji Feng) Identification of linear systems without assuming stability and minimum phase. **91j:93113**
- Chen, Sheng (with Billings, S. A.; Grant, P. M.) Nonlinear system identification using neural networks. (Not in MR)
- Chiang, Shu Min see Mao, Dar Hsi, (Not in MR)
- Da, Qing Li see He, Jian Min, **91c:93096**
- Datta, K. B. see Mohan, B. M., **91j:93117**
- Davidson, Edward J. see Zhang, Hong Yi, (Not in MR)
- Deng, Zi Li An explicit Clarke-Gawthrop self-tuning controller. (Chinese. English summary) (Not in MR)
- Ding, Xianchun (with Frank, Paul M.) Fault detection via factorization approach. **91c:93076**
- Dries, F. see Moustafa, K. A.; et al., (Not in MR)
- Fan, Hong (with Nayeri, Majid) On reduced order identification; revisiting "On some system identification techniques for adaptive filtering". **91h:93071**
- Feng, Chun Bo see Zheng, Wei Xin, **91f:93102** and (Not in MR)
- Florin, M. A. On-line identification of time-varying processes at various signal-to-noise ratios. (Not in MR)
- Identification of dynamic processes at various system time constants. (Not in MR)
- Frank, Paul M. see Ding, Xianchun, **91c:93076**
- Friedlander, Benjamin see Söderström, Torsten; et al., (Not in MR)
- Geraniotis, Evangelos see Sander, Douglas, (Not in MR)
- Gerencsér, László On the martingale approximation of the estimation error of ARMA parameters. **91j:93114**
- Glannakis, Georgios B. On the identifiability of non-Gaussian ARMA models using cumulants. **91d:93073**
- Goh, C. J. (with Lee, T. H.) Adaptive modal parameters identification for collocated position feedback vibration control. (Not in MR)
- Grant, P. M. see Chen, Sheng; et al., (Not in MR)
- Greblicki, Włodzisław (with Pawlak, Mirosław) Nonparametric identification of Hammerstein systems. **91c:93095**
- Gu, Qi Tai A new method for identification of systems with colored noise. (Chinese. English summary) (Not in MR)
- Guglielmi, M. On-line detection of minimal order for linear piecewise stationary systems. (see **91f:93002**)
- Guidorzi, R. P. see Beghelli, S.; et al., **91j:93112**
- He, Jian Min (with Da, Qing Li) A hierarchical identification algorithm for extended exponential models. (Chinese. English summary) **91c:93096**
- Helmicki, Arthur J. (with Jacobson, Clas A.; Nett, Carl N.) Control-oriented modeling and identification of distributed parameter systems. (see **91m:93004**)
- Hirai, Takashi see Katayama, Tohru, (Not in MR)
- Hou, Daqing see Hsu, Chieh Su, (Not in MR)
- Hsu, Chieh Su (with Hou, Daqing) Model identification of linear systems with pure integrations. (Not in MR)
- Jacobson, Clas A. see Helmicki, Arthur J.; et al., (see **91m:93004**)
- Jeyendran, B. (with Reddy, V. U.) Recursive system identification in the presence of burst disturbance. (French and German summaries) **91j:93115**
- Kaminskiene, Janina J. (with Kliokys, Edvardas) Identification of abruptly changing parameters and the variance in linear stochastic models. (Russian. Lithuanian summary) (Not in MR)
- Katayama, Tohru (with Hirai, Takashi) Parameter identification for noisy image via the EM algorithm. (French and German summaries) (Not in MR)
- Katsikas, S. K. (with Likothanassis, S. D.; Lainiotis, D. G.) AR model identification with unknown process order. (Not in MR)
- Kishida, Kuniharu Contraction of information in systems far from equilibrium. **91m:93138**
- Kliokys, Edvardas see Kaminskiene, Janina J., (Not in MR)
- Klompsstra, Martin H. see Zhu, Yu Cai, (Not in MR)
- Kogan, M. M. (with Neimark, Yu. L.) Identifiability of locally optimal adaptive control laws with indirect observations. **91c:93077**

93E12 System identification

- Abbasova, L. I. Application of sliding modes in problems of the identification of the parameters of oscillatory distributed systems. (Not in MR)

- Korbicz, József. *see* Uciński, Dariusz. (Not in MR)
- Kováčević, Branko D. Decision theoretic approach to real-time robust identification. (Not in MR)
- Kučichitskii, O. Yu. (with Skrobotov, S. V.) Identification of linear dynamical stochastic systems with continuous time. 91b:93117
- Lainiotis, D. G. *see* Katsikas, S. K.; et al. (Not in MR)
- Lebak, Vyacheslav. *see* Nemura, Antanas; et al. (Not in MR)
- Lee, T. H. *see* Goh, C. J. (Not in MR)
- Leithhead, W. E. *see* Reardon, D. 91b:93073
- Likothanassis, S. D. *see* Katsikas, S. K.; et al. (Not in MR)
- Lü, Yong Zai. *see* Zhao, Ming Wang. (Not in MR)
- Lesiak, Rob. (with Bagchi, Arunabha) Krein factorization of covariance operators of 2-parameter random fields and application to the likelihood ratio. 91j:93116
- Makarov, L. V. Interpolation method for solving the identification problem for a multidimensional functional system described by a Uryson operator. (Russian) 91k:93087
- Man, Dar Hsi. (with Chiang, Shu Min) State matrix identification via Poisson moment functionals. (Not in MR)
- Man, Ning. (with Zhang, Liang Qi) Adaptive estimation of the parameters of a vector moving average (MA) model. (Chinese. English summary) (Not in MR)
- Marcus, Steven I. *see* Arapostathis, Aristotle. 91a:93061
- Mitchell, Charles A. Optimal sampling design for parameter estimation and p -widths under stochastic and deterministic noise. 91b:93169
- Miyana, Yoshikazu. (with Tochinal, Koji; Nagai, Nobuo; Nagata, Kunichi) Adaptive identification of a modified ARMA lattice model. (Not in MR)
- Mohan, B. M. (with Datta, K. B.) Identification of nonlinear distributed parameter systems via orthogonal functions. 91j:93117
- Morita, Hiroshi. *see* Uosaki, Katsuji. 91f:93101
- Moustafa, K. A. (with Asfar, K.; Dries, F.) Addendum: "Modelling and identification of offshore towers with general damping" [Internat. J. Systems Sci. 19 (1988), no. 11, 2367-2379; MR 89i:93114]. (Not in MR)
- Nagai, Nobuo. *see* Miyana, Yoshikazu; et al. (Not in MR)
- Nagata, Kunichi. *see* Miyana, Yoshikazu; et al. (Not in MR)
- Nakutis, Evaldas. Identification of nonlinear stationary stochastic processes in a class of models $L \otimes H, H \otimes L$ (results of experiments). (Russian. English and Lithuanian summaries) 91h:93072
- *see also* Baltrūnas, Jonas. 91m:93135
- Nayeri, Majid. *see* Fan, Hong. 91h:93071
- Neimark, Ya. I. *see* Kogan, M. M. 91c:93077
- Nemura, Antanas. Estimation of systematic measurement errors in a nonlinear static system. (Russian. English and Lithuanian summaries) (Not in MR)
- (with Plukaitė, Danute; Lebak, Vyacheslav; Ovsyannikov, R. N.) Identification of a wind tunnel with application of a discrete Hammerstein model. (Russian. English and Lithuanian summaries) (Not in MR)
- Nett, Carl N. *see* Helmicki, Arthur J.; et al. (91m:93004)
- Niedzwiecki, Maciej. Recursive functional series modeling estimators for identification of time-varying plants—more bad news than good? 91b:93170
- Identification of time-varying systems using combined parameter estimation and filtering. (Not in MR)
- Ovsyannikov, R. N. *see* Nemura, Antanas; et al. (Not in MR)
- Papoulis, Athanasios. Bispectra and system identification. (see 91g:42001)
- Paulauskas, Celestinas. *see* Yusas, Mychailos; et al. (Not in MR)
- Pawlak, Mirosław. *see* Greblich, Włodzisław. 91c:93095
- Petrov, A. I. (with Stetsko, G. O.) Synthesis of self-organizing stochastic control systems that adapt to changing perturbations characteristics. 91i:93118
- Plukaitė, Danute. *see* Nemura, Antanas; et al. (Not in MR)
- Postaire, J.-G. *see* Touzani, A. (Not in MR)
- Poznyak, A. S. *see* Tsypkin, Ya. Z. 91c:93088
- Popek, Rimantas. Optimal recurrent identification methods. V. Recurrent M -estimation for parameters and for pure lag in linear discrete systems. (Russian. English and Lithuanian summaries) (Not in MR)
- Optimal recurrent identification methods. III. Improving the efficiency of algorithms for simultaneous estimation of parameters and delays in the object. (Russian. Lithuanian summary) 91c:93078
- Optimal recurrent identification methods. IV. Adaptive stabilization of algorithms in the case of outliers. (Russian. Lithuanian summary) 91c:93079
- Puthenpura, S. (with Sinha, N. K.) A robust recursive identification method. (Not in MR)
- Pystenka, T. V. *see* Boguslavskii, I. A. 91c:93094
- Reardon, D. (with Leithhead, W. E.) Statistical linearization: a comparative study. 91h:93073
- Reddy, V. U. *see* Jayendran, B. 91j:93115
- Rutkowski, Leszek. Identification of MISO nonlinear regressions in the presence of a wide class of disturbances. (Not in MR)
- Saunders, Douglas. (with Geraniotis, Evangelos) Optimal and robust memoryless discrimination from dependent observations. (Not in MR)
- Shalamov, A. S. Analysis of the accuracy of stochastic discontinuous systems with random time quantization. 91f:93100
- Sinha, N. K. *see* Puthenpura, S. (Not in MR)
- Skrobotov, S. V. *see* Kučichitskii, O. Yu. 91b:93117
- Söderström, Torsten. (with Stoica, Petre; Friedlander, Benjamin) An indirect prediction error method for system identification. (Not in MR)
- *see also* Stoica, Petre. (Not in MR)
- Soverini, U. *see* Beghell, S.; et al. 91j:93112
- Stepashko, V. S. Asymptotic properties of external criteria for model selection. 91h:93074
- Stetsko, G. O. *see* Petrov, A. I. 91c:93118
- Stoica, Petre. (with Söderström, Torsten) High-order Yule-Walker equations for estimating sinusoidal frequencies: the complete set of solutions. (French and German summaries) (Not in MR)
- *see also* Söderström, Torsten; et al. (Not in MR)
- Strohach, Peter. ★ Linear prediction theory. 91b:93171
- Tochinal, Koji. *see* Miyana, Yoshikazu; et al. (Not in MR)
- Touzañi, A. (with Postaire, J.-G.) La notion de contour des fonctions de densité de probabilité en classification automatique. III. Classification paramétrique par identification des mélanges gaussiens. (English summary) [The notion of boundary of probability density functions in automatic classification. III. Parametric classification by normal mixture identification] (Not in MR)
- Tsypkin, Ya. Z. (with Poznyak, A. S.) A generalized method of instrumental variables in problems of the identification of linear objects. 91k:93088
- Tugnait, Jitendra K. Consistent order selection for noncausal autoregressive models via higher-order statistics. 91k:93089
- Uciński, Dariusz. (with Korbicz, József) Parameter identification of two-dimensional distributed systems. (Not in MR)
- Uosaki, Katsuji. (with Morita, Hiroshi) Discrete variable stochastic approximation procedures and recursive autoregressive model identification. 91f:93101
- Vaľteris, Rita. Identification of nonlinear autoregression processes in a class of nonparametric models (a quadratic metric). (Russian. English and Lithuanian summaries) (Not in MR)
- Identification of nonlinear autoregression processes in a class of nonparametric models (robust estimation). (Russian. English and Lithuanian summaries) (Not in MR)
- *see also* Baltrūnas, Jonas; et al. 91m:93137
- Varfolomeev, A. G. A biased estimate for the state of a dynamical system that is optimal according to the minimax criterion. (Russian. English summary) 91b:93172
- Wahnon, Elias. A min-max testing approach to failure detection and identification. (see 91f:93002)
- Xu, Hong Yue. (with Baird, C. Robert) An identification technique for adaptive systems in the case of poor excitation. 91g:93033
- Yusas, Mychailos. (with Paulauskas, Celestinas) Determining the parameters of an inverse dynamical system. (Russian. English and Lithuanian summaries) (Not in MR)
- Zhang, Hong Yi. (with Davison, Edward J.) Applications of the condition number to numerical analysis in the identification of large-scale systems. (Chinese. English summary) (Not in MR)
- Zhang, Ji Feng. *see* Chen, Han Fu. 91j:93113
- Zhang, Liang Qi. *see* Man, Ning. (Not in MR)
- Zhang, Weijian. The spectral density of the nonlinear damping model: single DOF case. 91j:93118
- Zhao, Ming Wang. (with Lü, Yong Zai) Parameter identification and convergence analysis based on the least-squares method for a class of nonlinear systems. I. SISO case. (Not in MR)
- Zheng, Wei Xin. (with Feng, Chun Bo) Identification of stochastic time lag systems in the presence of colored noise. 91f:93102
- (with Feng, Chun Bo) Optimizing search-based identification of stochastic time-delay systems. (Not in MR)
- Zhu, Yu Cai. (with Klompstra, Martin H.) Spectral analysis in linear process identification—a new look at an old problem. (Not in MR)

Items with secondary classifications in 93E12

- Anderson, Brian D. O. *see* Parker, Philip J.; et al. 91b:93051
- Banks, H. T. (with Fabiano, R. H.; Wang, Yun) Inverse problem techniques for beams with tip body and time hysteresis damping. (Portuguese summary) 91c:93000
- Boulontas, A. (with Hart, George W.; Schwartz, Mischa) Two extensions of the Viterbi algorithm. (Not in MR)
- Braiek, Ennaceur Benhadj. (with Rotella, Frédéric) Identification of nonstationary continuous systems using modulating functions. 91h:93022
- Chen, Ya Ling. A complementary variational method for system identification. (Chinese. English summary) 91h:93048
- Fabiano, R. H. *see* Banks, H. T.; et al. 91c:93000
- Galsin, O. A. *see* Vorchik, B. G. 91j:93054
- Gevers, Michel. (with Goodwin, Graham C.; Wertz, Vincent) Continuous-time stochastic adaptive control. 91m:93153
- Goodwin, Graham C. *see* Gevers, Michel; et al. 91m:93153
- Gunnarsson, Svante. Frequency domain accuracy of recursively identified ARX models. (Not in MR)
- Gao, Lei. *see* Meyn, Sean P. 91c:93051
- Han, Chong Zhao. *see* Lin, Jie; et al. 91b:93180
- Hanzon, B. ★ Identifiability, recursive identification and spaces of linear dynamical systems. Part I. 91j:93039a
- ★ Identifiability, recursive identification and spaces of linear dynamical systems. Part II. 91j:93039b
- Hart, George W. *see* Boulontas, A.; et al. (Not in MR)
- Kondratenko, N. R. (with Mizernyi, V. N.; Mokin, B. I.) One way of solving the heat-flow equation in identification and control problems. 91f:93044
- Lin, Jie. (with Han, Chong Zhao; Roberts, P. D.; Wan, Bai Wu) New approach to stochastic optimizing control of steady-state systems using dynamic information. 91b:93180
- Meyn, Sean P. (with Guo, Lei) Stability, convergence and performance of an adaptive control algorithm applied to a randomly varying system. 91c:93051
- Mizernyi, V. N. *see* Kondratenko, N. R.; et al. 91f:93044
- Mokin, B. I. *see* Kondratenko, N. R.; et al. 91f:93044
- Nakagiri, Shio-ichi. (with Yamamoto, Masahiro) Identification problems for partial differential equations. 91g:35238
- Parker, Philip J. (with Anderson, Brian D. O.) Hilbert transforms from interpolation data. 91b:93051
- Roberts, P. D. *see* Lin, Jie; et al. 91b:93180
- Rotella, Frédéric. *see* Braiek, Ennaceur Benhadj. 91h:93022
- Sarychev, A. P. Solution of the GMDH partitioning problem when calculating the regularity criterion in an active experiment. (Not in MR)
- Schwartz, Mischa. *see* Boulontas, A.; et al. (Not in MR)
- Shorikov, A. F. Minimax identification for nonlinear multistage systems with incomplete information. (Russian) 91m:93047
- Vorchik, B. G. (with Galsin, O. A.) Limit properties of an adaptive control system with identification (application of identifiability equations). II. A multiconnected control object. 91j:93054

- Wan, Bai Wu *see* Lin, Jie; et al., 91b:93180
 Wang, Yun *see* Banks, H. T.; et al., 91c:73080
 Wertz, Vincent *see* Gevers, Michel; et al., 91m:93153
 (Willems, Jan C.) *see* From data to model, 91c:93031
 Yamamoto, Masahiro *see* Nakagiri, Shin-ichi, 91g:35238

Items listed otherwise than by author

From data to model ★ From data to model. 91c:93031

93E14 Data smoothing

- Deng, Zi Li Self-tuning deconvolution smoothers for ARMA signals. (Chinese. English summary) (Not in MR)
 Loubaton, Philippe Non-full-rank causal approximations of full-rank multivariate stationary processes with rational spectrum. 91b:93119
 McReynolds, Stephen Ralph Fixed interval smoothing: revisited. 91b:93120
 Nakamori, Seichi New design of linear least-squares fixed-point smoother using covariance information in continuous systems. 91b:93090
 Piccioni, Mauro A generalization of Wahba's theorem on the equivalence between spline smoothing and Bayesian estimation. 91b:93173
 Tzafestas, Spyros G. *see* Watanabe, Keigo, (Not in MR)
 Watanabe, Keigo (with Tzafestas, Spyros G.) Decentralized estimation for a backward pass fixed-interval smoother. (Not in MR)

Items with secondary classifications in 93E14

- Izmailov, R. N. The "peak" effect in the Luenberger observer for systems with multidimensional inputs and outputs. 91b:93012
 Kuang, Yong Zhu (with Li, Yao Chang) Optimal estimation of the states of a class of randomly distributed parameter systems. (Chinese. English summary) 91b:93163
 Li, Yao Chang *see* Kuang, Yong Zhu, 91b:93163

93E15 Stochastic stability

- Ahmed, N. U. *see* Li, Peng, 91b:93174
 Arnold, Ludwig Stabilization by noise revisited. (German and Russian summaries) 91j:93119
 Chai, Tian You A self-tuning feed-forward controller and its global convergence analysis—applications to stochastic multivariable systems with arbitrary interaction matrices. (Chinese. English summary) (Not in MR)
 De Nicola, Giuseppe On a fallacious conjecture about the stabilizability properties of solutions of the Riccati difference equation. (Not in MR)
 El-Ansary, Mohamed Stabilizing control of a singularly perturbed system driven by wide-band noises. 91g:93034
 Gorindan, T. E. *see* Joshi, Mohan C., 91m:93139
 Granichin, O. N. Construction of a suboptimal controller of a linear object with limited noise. (Not in MR)
 Gur'yanov, A. E. Stabilization of a linear time-dependent control system with random coefficients. (Russian) (see 91c:00013)
 Joshi, Mohan C. (with Gorindan, T. E.) Local stability properties of a feedback system—deterministic and random. 91m:93139
 Korenevskii, D. G. Absolute (with respect to nonlinearity and delay) mean-square stability of stochastic differential-difference automatic control systems. (Russian) 91b:93121
 Laddé, Gangaram S. (with Šiljak, Dragoslav D.) Convergence and stability of distributed stochastic iterative processes. 91d:93074
 Lam, N. K. The mean p -th-order Lyapunov exponent of a regular system with white noise. (Russian) (Not in MR)
 Leizarowitz, Arle Exact results for the Lyapunov exponents of certain linear Ito systems. 91j:93120
 Li, Peng (with Ahmed, N. U.) A note on stability of stochastic systems with unbounded perturbations. 91b:93174
 Meyn, Sean P. Ergodic theorems for discrete time stochastic systems using a stochastic Lyapunov function. 91d:93075
 Šiljak, Dragoslav D. *see* Laddé, Gangaram S., 91d:93074
 Sverdan, M. L. (with Tsarkova, V. N.) Stability of solutions of difference equations with random parameters. (Russian) 91f:93103
 Tsarkova, V. N. *see* Sverdan, M. L., 91f:93103
 Yakovleva, L. M. A method for the optimization of the parameters of a nonlinear controller for platform-free inertial navigational systems under constantly acting perturbations. (Russian) (Not in MR)
 — Analytic construction of a set of controllers for platform-free inertial navigational systems with constantly acting disturbances. (Russian) (Not in MR)

Items with secondary classifications in 93E15

- Bobtík, R. V. A property of stable systems of linear stochastic equations. 91b:60154
 Borovikov, I. A. An approach to almost controllability in the theory of nonlinear dynamical systems. (Russian) 91a:93002
 Chizeck, Howard Jay *see* Ji, Yuandong, 91j:93122
 Fan, Zu Yao *see* Shen, Xiao Feng; et al., 91c:70047
 Feng, Xiangbo (with Loparo, Kenneth A.) Almost sure instability of the random harmonic oscillator. 91b:34085
 Gatsevak, Darinaz Ergodic impulsive control of Feller processes with costly information. 91b:93063
 Gorelov, Ya. I. *see* Vasil'ev, V. I.; et al., (Not in MR)
 Gyöngy, I. The stability of stochastic partial differential equations and applications. Theorems on supports. 91a:60164
 — (with Pröhle, T.) On the approximation of stochastic differential equation and on Stroock-Varadhan's support theorem. 91d:60136
 Ji, Yuandong (with Chizeck, Howard Jay) Jump linear quadratic Gaussian control: steady-state solution and testable conditions. 91j:93122

- Khusainov, D. Ya. (with Kozhmetov, A. T.) Estimates for the stability of linear stochastic systems. 91c:60074
 Kozhmetov, A. T. *see* Khusainov, D. Ya., 91c:60074
 Kukhtenko, V. I. (with Orlov, E. V.; Timoshchenko, V. I.) A unified approach to control of linear stochastic systems with random parameters. II. 91d:93070
 Loparo, Kenneth A. *see* Feng, Xiangbo, 91b:34085
 Orlov, E. V. *see* Kukhtenko, V. I.; et al., 91d:93070
 Pham Tran Nhu Optimal stabilization of stochastic continuous-time systems. 91m:93106
 Pröhle, T. *see* Gyöngy, I., 91d:60136
 Shen, Xiao Feng (with Zhang, Hui Qiao; Fan, Zu Yao) Stability analysis of systems with excitations arising from randomly varying parameters. (Chinese. English summary) 91c:70047
 Sidorenko, E. A. Semantic construction of propositional relevant logic. (Russian) (see 91b:03003)
 Taniguchi, Takeshi Stability theorems of stochastic difference equations. 91b:39009
 Timoshchenko, V. I. *see* Kukhtenko, V. I.; et al., 91d:93070
 Usmanov, Z. D. *see* Vasil'ev, V. I.; et al., (Not in MR)
 Vasil'ev, V. I. (with Gorelov, Yu. I.; Usmanov, Z. D.) Synthesis of a suboptimal simulation control under noise conditions. (Russian) (Not in MR)
 Wang, En Ping Suboptimal estimates for discrete decentralized systems. (Chinese. English summary) (Not in MR)
 Zhang, Hui Qiao *see* Shen, Xiao Feng; et al., 91c:70047

93E20 Optimal stochastic control

- Alisherov, S. A. *see* Ushakov, A. V.; et al., 91b:93079
 Anan'ev, B. I. (with Baisakalov, I. B.) A minimax optimal control problem for statistically uncertain systems. (Russian) 91b:93091
 — Minimax regulators for statistical indeterminate controlled systems. 91b:93075
 Asariev, A. V. (with Rotar', V. I.) On asymptotic optimality in probability and almost surely in dynamic control. 91b:93122
 Averbakh, I. L. An additive method for optimization of two-stage stochastic systems with discrete variables. 91b:93092
 Baisakalov, I. B. *see* Anan'ev, B. I., 91b:93091
 Banov, A. M. (with Mikheev, Yu. V.; Temkin, L. S.) A quasi-optimal controller for an object with distributed parameters. 91g:93035
 Barabanov, A. E. (with Ivanova, A. V.) Minimax control of a nonminimal-phase object under combined perturbations. 91m:93140
 Barkhatova, I. V. A problem of the control of a random process that has a second-order moment. (Russian) 91m:93141
 Benoussan, Alain (with Nagai, Hideo) An ergodic control problem arising from the principal eigenfunction of an elliptic operator. 91m:93142
 Borkar, Vivek S. (with Ghosh, Mrinal K.) Controlled diffusions with constraints. 91j:93121
 Cavazos-Cadena, Rolando Nonparametric adaptive control of discounted stochastic systems with compact state space. 91b:93175
 Chernov, D. E. *see* Malyshev, V. V., (Not in MR)
 Chizeck, Howard Jay *see* Ji, Yuandong, 91j:93122
 Di Maai, Giovanni B. (with Runggaldier, Wolfgang J.) On approximations for dynamic programs. (see 91f:90007)
 Drumheller, David Mark (with Ricker, Dennis W.) Receiver-transmitter optimization for detection in doubly spread channels. (Not in MR)
 Duncan, Tyrone E. Some solvable stochastic control problems in compact symmetric spaces of rank one. 91b:93176
 — (with Pasik-Duncan, Boženna) Some aspects of the adaptive control of stochastic evolution systems. 91b:93177
 Drumdza, A. I. The probability of large deviations in a stochastic variational problem. (Russian) (see 91b:60003)
 Flandoli, Franco Boundary control of a stochastic parabolic equation with nonsmooth final cost. 91b:93076
 Fomin, V. N. *see* Kazarinov, Yu. F., 91m:93146
 Frangos, C. *see* Yavin, Y., (Not in MR)
 Ghosh, Mrinal K. *see* Borkar, Vivek S., 91j:93121
 Graf, Peter L. (with Shoureshi, Rahmat) Gain-sensitivity augmentation for near-optimal control of linear parameter-dependent plants. (Not in MR)
 Han, Chong Zhao *see* Lin, Jie; et al., 91b:93180
 Hijah, Omar Partially observed control of Markov processes. III. 91m:93143
 Hu, Ying (with Peng, Shi Ge) Maximum principle for semilinear stochastic evolution control systems. 91m:93144
 Huang, Hui ★ Optimal control of piecewise continuous stochastic processes. 91b:93123
 Hunt, K. J. (with Šebek, M.) Implied polynomial matrix equations in multivariable stochastic optimal control. 91m:93145
 Islamov, I. M. An asymptotically optimal method of solving an ill-posed problem of identifying a linear system. (Not in MR)
 Ivanova, A. V. *see* Barabanov, A. E., 91m:93140
 Ji, Yuandong (with Chizeck, Howard Jay) Jump linear quadratic Gaussian control: steady-state solution and testable conditions. 91j:93122
 Kapriel, Raymond *see* Wu, Xiao-Guang, (Not in MR)
 Karlov, V. I. (with Krasi'ishchikov, M. N.; Malyshev, V. V.) Controlling observational process under conditions of statistical uncertainty (survey). II. 91b:93178
 — (with Krasi'ishchikov, M. N.; Malyshev, V. V.) Control of the observation process in stochastic systems. 91c:93080
 Kazarinov, Yu. F. (with Fomin, V. N.) A linear-quadratic problem of stochastic control. I. Optimal control synthesis. 91m:93146
 Khrustalev, M. M. (with Savast'uk, S. V.) Conditions for the optimality of stochastic systems of diffusion type in problems with constraints on the control-observation process. 91j:93123
 Kolmanovskii, V. B. (with Kolosov, G. E.) Approximate and numerical methods for synthesis of optimal control of stochastic systems. 91m:93147
 Kolosov, G. E. *see* Kolmanovskii, V. B., 91m:93147
 Krasi'ishchikov, M. N. *see* Karlov, V. I.; et al., 91b:93178 and 91c:93080

- Kukhtenko, V. I. (with Orlov, E. V.; Timoshchenko, V. I.) A unified approach to control of linear stochastic systems with random parameters. I. (Not in MR)
- Larin, V. B. Frequency methods of synthesizing optimal linear control systems. 91j:93124
- Lasinanová, Monika On asymptotic inequalities in discrete time controlled linear systems. 91h:93179
- Le Breton, Alain Régulateur linéaire avec critère hôteien. (English summary) [Linear regulator with Hölder criterion] 91d:93076
- Lefebvre, Mario Minimisation d'une fonction de coût quadratique pour des intégrales gaussiennes. (English summary) [Minimization of a quadratic cost function for Gauss integrals] 91j:93125
- Lia, Jie (with Han, Chong Zhao; Roberts, P. D.; Wan, Bai Wu) New approach to stochastic optimizing control of steady-state systems using dynamic information. 91b:93180
- (with Wang, Mian Sen; Roberts, P. D.) Improvements in the formulation and solution approach for stochastic optimizing control of steady state industrial processes. 91h:93077
- Lia, Xiao Hua Following minimum variance control for an MIMO system with a deviation. (Chinese. English summary) 91a:93062
- Lysenko, A. I. Stochastic optimization of the branching trajectory of the motion of a composite dynamical system. (Russian) (see 91b:00037)
- Malyshev, V. V. (with Chernov, D. E.) Dynamic control problems with probabilistic criteria. (Not in MR)
- see also Karlov, V. I. et al., 91b:93178 and 91c:93080
- Marichenko, T. A. A finite-difference approach to solving a stochastic problem of optimal control. (Russian) 91h:93181
- Meerkov, Semyon M. (with Runolfsson, T.) Theory of residence time control by output feedback. 91h:93182
- Meřnik, S. A. Linearization of controllable evolution stochastic systems in a Hilbert space. 91d:93077
- Mikheev, Yu. V. see Banov, A. M.; et al., 91g:93035
- Mikulevičius, Remigijus (with Pragarauskas, H.) Optimal Markov strategies for controllable Itô processes. 91c:93097
- Nagel, Hideo see Bensoussan, Alain, 91m:93142
- Nagase, Noriaki (with Nisio, Makiko) Optimal controls for stochastic partial differential equations. 91c:93098
- Newmann, M. M. see Roberts, A. P., 91j:93125
- Nisio, Makiko see Nagase, Noriaki, 91c:93098
- Omorov, R. O. see Ushakov, A. V.; et al., 91h:93079
- Orlov, E. V. see Kukhtenko, V. I.; et al., (Not in MR)
- Pasik-Duncan, Božena see Duncan, Tyrone E., 91h:93177
- Peng, Shi Ge see Hu, Ying, 91m:93144
- Pham Tran Nhu Suboptimal linear feedback for a class of stochastic discrete-time systems. 91i:93124
- Pianovskii, A. B. Controlled partially observable model with periodic characteristics. 91h:93183
- Pragarauskas, H. see Mikulevičius, Remigijus, 91c:93097
- Ramachandran, K. M. Nearly optimal control of queues in heavy traffic with heterogeneous servers. 91a:93063
- Ricker, Dennis W. see Drumheller, David Mark, (Not in MR)
- Roberts, A. P. (with Newmann, M. M.) Polynomial optimization of stochastic continuous-time control for unstable plants. 91i:93125
- Roberts, P. D. see Lia, Jie; et al., 91b:93180 and 91h:93077
- Rotar, V. I. see Asriev, A. V., 91i:93122
- Runggaldier, Wolfgang J. see Di Masi, Giovanni B., (91f:90007)
- Runolfsson, T. Residence time control of systems subject to measurement noise. 91h:93184
- see also Meerkov, Semyon M., 91h:93182
- Savast'uk, S. V. see Khramov, M. M., 91j:93123
- Šebek, M. see Hunt, K. J., 91m:93145
- Sethi, Suresh P. (with Takkar, M. I.) Deterministic equivalent for a continuous-time linear-convex stochastic control problem. 91h:93185
- Shoureshi, Rahmat see Graf, Peter L., (Not in MR)
- Spivak, A. K. Approximate synthesis of some stochastic systems with a small parameter. (Russian. Tajiki summary) 91i:93126
- Sragovich, V. G. On decomposition in problem of Markov chain optimal control calculation by means of linear programming. 91h:93078
- Stoica, A. Optimization methods for stochastic control problems with constant controllers. (Romanian. English summary) (Not in MR)
- Stolarczyk, Maria On the existence of optimal control for general stochastic equations. 91f:93104
- Takkar, M. I. see Sethi, Suresh P., 91h:93185
- Temkin, L. S. see Banov, A. M.; et al., 91g:93035
- Timoshchenko, V. I. see Kukhtenko, V. I.; et al., (Not in MR)
- Truong Chi Tin On the existence of an optimal control for a stochastic optimization problem with constraints. 91i:93127
- Tudor, Constantin ϵ -optimal and optimal controls for the stochastic linear-quadratic problem. 91k:93093
- Ushakov, A. V. (with Omorov, R. O.; Alisherov, S. A.) Analytic solution of a stochastic modal control problem. (Russian) 91h:93079
- Voronin, A. N. A stochastic multicriterial problem of the design of ergative control systems. (Russian) 91c:93081
- Yu, Ky Minh Discrete optimal stochastic controller and its forms. 91c:93099
- Wan, Bai Wu see Lia, Jie; et al., 91b:93180
- Wang, Mian Sen see Lia, Jie; et al., 91h:93077
- Weiner, Howard J. An asymmetric bang-bang partially observed stochastic control problem. 91m:93148
- Whittle, P. A risk-sensitive maximum principle. 91j:93126
- Wu, Xiao-Guang (with Kapral, Raymond) Chemical turbulence and phase resetting dynamics. (Not in MR)
- Yakovleva, L. M. Nonlinear control and filtering in a platform-free inertial navigation system. (Russian) (Not in MR)
- Yavin, Y. An optimal control problem for a system with small noise. 91m:93149
- (with Frangos, C.) Application of stochastic optimal control to the design of an electromagnetic actuator. (Not in MR)
- Optimal launch conditions: an optimal stochastic control problem. (Not in MR)
- Yin, Gang George Asymptotic properties of an adaptive beam former algorithm. 91h:93080
- Zhou, Xun Yu The connection between the maximum principle and dynamic programming in stochastic control. 91i:93128

Items with secondary classifications in 93E20

- Anki, Masanao ★ Optimization of stochastic systems. 91b:90003
- Arapostathis, Aristotle (with Marcus, Steven I.) Analysis of an identification algorithm arising in the adaptive estimation of Markov chains. 91a:93061
- Bean, James C. see Higlie, Julia L.; et al., 91h:49027
- Belbas, S. A. (with Mayergoyz, I. D.) Iterative schemes for certain time-dependent problems of stochastic optimal control. 91c:93082
- Bielecki, Tomasz R. (with Filar, Jerzy A.) Singularly perturbed Markov control problem: limiting average cost. 91h:90206
- Borkar, Vivek S. Mimicking finite-dimensional marginals of a controlled diffusion by simpler controls. 91a:60197
- The Kumar-Becker-Lin scheme revisited. 91f:93061
- Boukas, El-Kebir (with Haurie, Alain) Manufacturing flow control and preventive maintenance: a stochastic control approach. (Not in MR)
- Chen, Han Fu see Guo, Lei, 91h:93096
- Chizeck, Howard Jay see Ji, Yuandong, 91h:49037
- Damra, F. M. see Hsieh, Chen; et al., 91d:49036
- Da Prato, Giuseppe Some results on parabolic equations in Hilbert spaces. 91b:35106
- (with Ichikawa, Akira) Quadratic control for linear time-varying systems. 91b:49045
- Davis, Mark H. A. Necessary conditions for optimality in the control of piecewise-deterministic Markov processes. 91a:49029
- Anticipative LQG control. 91c:49057
- (with Spathopoulos, M. P.) On the minimum principle for controlled diffusions on manifolds. 91b:49025
- Dempster, M. A. H. (with Solel, E.) Stochastic scheduling via stochastic control. (see 91j:60003)
- Doncher, D. S. On the two-arm bandit problem with continuous time in the presence of gradual and impulse controls. 91i:90089
- El Karoui, Nicole (with Karatzas, Ioannis) Integration of the optimal risk in a stopping problem with absorption. 91h:60046
- Emel'yanov, S. V. (with Korovin, S. K.; Mamedov, I. G.; Nosov, A. P.) Asymptotic invariance in problems of the control of indeterminate objects. 91h:93025
- Fedotkin, M. A. Optimal control of conflicting flows and marked point processes with an isolated discrete component. II. (Russian. English and Lithuanian summaries) 91c:90053
- Filar, Jerzy A. see Bielecki, Tomasz R., 91h:90206
- Fragoso, Marcelo D. see de Souza, Carlos E., 91g:93012
- Gabrielyan, M. S. (with Stepanyan, V. K.) On stochastic program synthesis. (Russian. English and Armenian summaries) 91m:90217
- Gaidov, Svetoslav D. On the Nash-bargaining solution in stochastic differential games. 91f:90159
- Glizer, V. Ya. Singular perturbations in a stochastic linear-quadratic optimal control problem. 91c:49044
- Grimble, Michael J. Design procedure for combined H_∞ and LQG cost problem. 91h:93058
- Guo, Lei (with Chen, Han Fu) Robust stochastic adaptive control for nonminimum phase systems. 91h:93096
- Haurie, Alain see Boukas, El-Kebir, (Not in MR)
- Hausmann, U. G. (with Lepeltier, J.-P.) On the existence of optimal controls. 91c:49028
- Hernández-Lerma, Onésimo (with Lasserre, Jean Bernard) Average cost optimal policies for Markov control processes with Borel state space and unbounded costs. 91h:49039
- Higlie, Julia L. (with Bean, James C.; Smith, Robert L.) Deterministic equivalence in stochastic infinite horizon problems. 91h:49027
- Hsiao, Feng Hsiang see Hsieh, Jer-Guang, 91g:93018
- Hsiao, Man-tung T. (with Lazar, Aurel A.) Optimal flow control of multiclass queueing networks with partial information. 91g:90071
- Hsieh, Chen (with Skelton, Robert E.; Damra, F. M.) Minimum energy controllers with inequality constraints on output variances. 91d:49036
- Hsieh, Jer-Guang (with Hsiao, Feng Hsiang) Multi-objective controller design for discrete stochastic optimal systems with nonlinear time-varying unmodelled dynamics and noise spectral uncertainties. 91g:93018
- Ichikawa, Akira see Da Prato, Giuseppe, 91b:49045
- Ji, Yuandong (with Chizeck, Howard Jay) Controllability, stabilizability, and continuous-time Markovian jump linear quadratic control. 91h:49037
- Kabbaj, F. (with Menaldi, José-Luis; Rofman, E.) Variational approach to serial multilevel production/inventory systems. 91j:90025
- Kan, Yu. S. (with Kibzun, A. I.) Optimal control of a linear system according to a quantile criterion. (Not in MR)
- Karatzas, Ioannis (with Lehoczky, John P.; Shreve, Steven E.; Xu, Gan-Lin) Optimality conditions for utility maximization in an incomplete market. 91h:90031
- see also El Karoui, Nicole, 91h:60046
- Kibzun, A. I. (with Malyshev, V. V.) Probabilistic optimization problems. 91m:49024
- see also Kan, Yu. S., (Not in MR)
- Korovin, S. K. see Emel'yanov, S. V.; et al., 91h:93025
- Kuang, Yong Zhu Analysis of a stochastic economic system. (Chinese. English summary) 91m:90035
- Kushner, Harold J. (with Ramachandran, K. M.) Optimal and approximately optimal control policies for queues in heavy traffic. 91g:93008
- see also Martins, Luiz Felipe, 91k:60102
- Larin, V. B. Decomposition of the matrix algebraic Riccati equation and the optimality of simple control laws. (Russian) 91f:93027
- Lasserre, Jean Bernard see Hernández-Lerma, Onésimo, 91h:49039
- Lazar, Aurel A. see Hsiao, Man-tung T., 91g:90071

- Lefebvre, Mario First-passage densities of controlled Gaussian processes. (French summary) 91a:60106
- Lehoczky, John P. *see* Karatzas, Ioannis; et al., 91h:90031
- Lepeltier, J.-P. *see* Haussmann, U. G., 91c:49028
- Lerner, V. S. (with Roikhef, B. Z.) Construction of the dynamical macromodel of a random object and solution of control problems. (Russian) 91g:93003
- Lions, Pierre-Louis Viscosity solutions of fully nonlinear second-order equations and optimal stochastic control in infinite dimensions. III. Uniqueness of viscosity solutions for general second-order equations. 91b:35011
- Lyubimov, A. V. (with Postnikov, E. V.) Optimal estimation of the state of a discrete stochastic system with controllable observations. 91b:93164
- Maitra, A. (with Purves, R.; Sudderth, W.) Leavable gambling problems with unbounded utilities. 91g:60054
- Makhmudov, N. I. General necessary optimality conditions for stochastic systems with controllable diffusion. (Russian) 91k:49040
- Malyshev, V. V. *see* Kibzun, A. I., 91m:49024
- Mamedov, I. G. *see* Emel'yanov, S. V.; et al., 91h:93025
- Mandelbaum, Avi (with Shepp, Larry A.; Vanderbei, Robert J.) Optimal switching between a pair of Brownian motions. 91b:60208
- Marcus, Steven I. *see* Arapostathis, Aristotle, 91a:93061
- Martins, Luiz Felipe (with Kushner, Harold J.) Routing and singular control for queueing networks in heavy traffic. 91k:60102
- Matson, Charles L. (with Maybeck, Peter S.) On an assumed convergence result in the LQG/LTR technique. 91j:93079
- Maybeck, Peter S. *see* Matson, Charles L., 91j:93079
- Mayergoyz, I. D. *see* Belbas, S. A., 91c:93082
- Mazliak, Laurent Probleme de contrôle stochastique mixte avec sauts. (English summary) [Mixed stochastic control problem with jumps] 91b:49026
- Menaldi, José-Luis (with Robin, Maurice) On the optimal reward function of the continuous time multiarmed bandit problem. 91c:90116
- *see also* Kabbaj, F.; et al., 91j:90025
- Nagase, Noriaki On the existence of optimal control for controlled stochastic partial differential equations. 91b:49027
- Newmann, M. M. (with Roberts, A. P.) Polynomial optimization of stochastic discrete-time control for unstable plants. 91c:93019
- Nosov, A. P. *see* Emel'yanov, S. V.; et al., 91h:93025
- Øksendal, Bernt The high contact principle in optimal stopping and stochastic waves. 91h:60048
- Peng, Shi Ge Maximum principle for stochastic optimal control with nonconvex control domain. 91j:49039
- A general stochastic maximum principle for optimal control problems. 91g:49013
- Pervezichikov, A. G. *see* Zavriv, S. K., 91j:90057
- Perry, David (with Posner, M. J. M.) Analysis of production/inventory systems with several production rates. 91d:90050
- Petrov, A. I. (with Stetsko, G. O.) A self-organizing stochastic control system that adapts to changing characteristics of disturbances. 91h:93082
- Posner, M. J. M. *see* Perry, David, 91d:90050
- Postnikov, E. V. *see* Lyubimov, A. V., 91b:93164
- Purves, R. *see* Maitra, A.; et al., 91g:60054
- Ramachandran, K. M. *see* Kushner, Harold J., 91g:93008
- Ritter, Klaus Approximation and optimization on the Wiener space. 91k:90135
- Roberts, A. P. *see* Newmann, M. M., 91c:93019
- Robin, Maurice *see* Menaldi, José-Luis, 91c:90116
- Rofman, E. *see* Kabbaj, F.; et al., 91j:90025
- Roikhef, B. Z. *see* Lerner, V. S., 91c:93003
- Romanli, P. G. Goal-oriented formation of solutions of inconsistent models as a system optimization problem. 91g:00026
- Shepp, Larry A. *see* Mandelbaum, Avi; et al., 91b:60208
- Shreve, Steven E. *see* Karatzas, Ioannis; et al., 91h:90031
- Skelton, Robert E. *see* Hsieh, Chen; et al., 91d:49036
- Smirnov, I. P. Control of the probability of a system entering a given region. 91j:49045
- Smith, Robert L. *see* Higle, Julia L.; et al., 91b:49027
- Solel, E. *see* Dempster, M. A. H., (91j:60003)
- de Souza, Carlos E. (with Frago, Marcelo D.) On the existence of maximal solution for generalized algebraic Riccati equations arising in stochastic control. 91g:93012
- Spathopoulos, M. P. *see* Davis, Mark H. A., 91b:49025
- Stepanyan, V. K. *see* Gabrielyan, M. S., 91m:90217
- Stetsko, G. O. *see* Petrov, A. I., 91h:93082
- Stockbridge, Richard H. Time-average control of martingale problems: existence of a stationary solution. 91b:49028
- Time-average control of martingale problems: a linear programming formulation. 91b:49029
- Sudderth, W. *see* Maitra, A.; et al., 91g:60054
- Tasler, Bente Unvollständig beobachtbare stochastische Entscheidungsmodelle mit nichtadditiven Ertragsfunktionalen. (English and Russian summaries) [Partially observable stochastic decision models with nonadditive reward functionals] 91b:90210
- Teugels, Josef L. Renewal theory and applications in engineering. 91g:90077
- Tudor, Constantin Optimal control for semilinear stochastic evolution equations. 91a:60167
- Vanderbei, Robert J. *see* Mandelbaum, Avi; et al., 91b:60208
- Wein, Lawrence M. Optimal control of a two-station Brownian network. 91c:90049
- Xu, Gan-Lin *see* Karatzas, Ioannis; et al., 91h:90031
- Yaz, Engin Robustness of stochastic-parameter control and estimation schemes. (Not in MR)
- Yashkevich, A. A. Letter to the editors: "Verification theorems for Markov decision processes with controllable deterministic drift, gradual and impulse controls" [Teor. Veroyatnost. i Primenen. 34 (1989), no. 3, 528–551]. 91a:90176
- Zavriv, S. K. (with Pervezichikov, A. G.) A stochastic quasigradient method for optimization of the parameters of dynamical systems. 91j:90057
- Zhang, Weijian Transition density of one-dimensional diffusion with discontinuous drift. 91j:60127

93E24 Least squares and related methods

- Cheng, S. J. *see* Malik, O. P.; et al., (Not in MR)
- Dahls, H. S. (with Moir, T. J.) Least mean squares as a control system. (Not in MR)
- Duchrau, Petra (with Frischmuth, Kurt) A numerical search algorithm for experimental design. (Not in MR)
- Frischmuth, Kurt *see* Duchrau, Petra, (Not in MR)
- He, Zhen Ya *see* You, Xiao Hu, (Not in MR)
- Hope, G. S. *see* Malik, O. P.; et al., (Not in MR)
- Jia, Pei Zhang L_p deconvolution for the nonminimum phase AR system. (Chinese. English summary) (Not in MR)
- Malik, O. P. (with Hope, G. S.; Cheng, S. J.) Some issues on the practical use of recursive least squares identification in self-tuning control. (Not in MR)
- Mariton, Michel *see* Yang, Chun, (Not in MR)
- Miki, Nobuhiro *see* Ohkama, Hiroshi; et al., (Not in MR)
- Moir, T. J. *see* Dahls, H. S., (Not in MR)
- Nagai, Nobuo *see* Ohkama, Hiroshi; et al., (Not in MR)
- Ohkama, Hiroshi (with Miki, Nobuhiro; Nagai, Nobuo) A parallel processing for recursive least-squares using one-dimensional systolic arrays. (Not in MR)
- Orang, B. Tark (with Phillips, Charles L.) On the accuracy of the stochastic simulation of infinite-horizon LQG control systems. (Not in MR)
- Phillips, Charles L. *see* Orang, B. Tark, (Not in MR)
- Poznyak, A. S. (with Tikhonov, S. N.) Strong consistency of the extended least squares method with nonlinear residue transformation. 91i:93129
- Sagara, Setsuo *see* Zhao, Zhen-Yu; et al., (Not in MR)
- Skelton, Robert E. *see* Zhu, Guoming, 91m:93150
- Tikhonov, S. N. *see* Poznyak, A. S., 91i:93129
- Vu, Ky Minh Determination of the penalty constant for discrete constrained linear quadratic Gaussian controller design. (Not in MR)
- Wada, Kiyoshi *see* Zhao, Zhen-Yu; et al., (Not in MR)
- Yang, Chun (with Mariton, Michel) New approximation for the partially observed jump linear quadratic problem. (Not in MR)
- Yastrebou, A. I. Control when estimating parameters of multiply connected stochastic systems. (Russian) 91g:93036
- You, Xiao Hu (with He, Zhen Ya) New efficient order-recursive least-squares algorithms. (Not in MR)
- Yuen, Stanley M. Exact least squares adaptive beamforming using an orthogonalization network. (Not in MR)
- Zhao, Zhen-Yu (with Sagara, Setsuo; Wada, Kiyoshi) Bias-compensating least squares method for identification of continuous-time systems from sampled data. (Not in MR)
- Zhu, Guoming (with Skelton, Robert E.) Mixed L_2 and L_∞ problems by weight selection in quadratic optimal control. 91m:93150
- Items with secondary classifications in 93E24
- Bell, Michael G. H. The estimation of origin-destination matrices by constrained generalized least squares. (Not in MR)
- Da, Qing Li *see* He, Jian Min, 91c:93096
- Diamond, Phil Least squares fitting of compact set-valued data. 91m:65180
- Dubois, Didier *see* Farier, G., 91m:93121
- Farier, G. (with Dubois, Didier) A review of k -step-ahead predictors. 91m:93121
- Guo, Lei *see* Niedzwiecki, Maciej, 91k:93084
- He, Jian Min (with Da, Qing Li) A hierarchical identification algorithm for extended exponential models. (Chinese. English summary) 91c:93096
- Kalson, Seth Z. (with Yao, Kung) A class of least-squares filtering and identification algorithms with systolic array architectures. (Not in MR)
- Morita, Hiroshi *see* Uosaki, Katsuji, 91f:93101
- Niedzwiecki, Maciej (with Guo, Lei) Nonasymptotic results for finite-memory WLS filters. 91k:93084
- Pan, Ching-Tsuan (with Plemmons, Robert J.) Least squares modifications with inverse factorizations: parallel implications. 91h:65059
- Plemmons, Robert J. *see* Pan, Ching-Tsuan, 91h:65059
- Uosaki, Katsuji (with Morita, Hiroshi) Discrete variable stochastic approximation procedures and recursive autoregressive model identification. 91f:93101
- Yagle, Andrew E. Analogues of split Levinson, Schur, and lattice algorithms for three-dimensional random field estimation problems. 91i:93103
- Yao, Kung *see* Kalson, Seth Z., (Not in MR)

93E25 Other computational methods

- Belbas, S. A. (with Mayergoyz, I. D.) Iterative schemes for certain time-dependent problems of stochastic optimal control. 91c:93082
- Chen, Zeng Qiang *see* Yuan, Zhu Zhi, 91m:93151
- Fu, Michael C. Convergence of a stochastic approximation algorithm for the $GI/G/1$ queue using infinitesimal perturbation analysis. 91f:93105
- Katsyuba, O. A. *see* Zhdanov, A. I., 91i:93131
- Kushner, Harold J. Numerical methods for stochastic control problems in continuous time. 91j:93130
- Mayergoyz, I. D. *see* Belbas, S. A., 91c:93082
- Sun, Min Numerical solutions of singular stochastic control problems in bounded intervals. 91j:93127
- Yan, Ping Fan Generalized adaptive algorithms: theoretical analysis and applications. (Chinese. English summary) 91b:93106
- Yin, Gang George *see* Zhu, Yun Min, 91b:93188
- Yuan, Zhu Zhi (with Chen, Zeng Qiang) Stability and stochastic convergence of synthetic generalized predictive self-tuning controller. 91m:93151
- Zhdanov, A. I. Recursive estimation of minimum eigenvalues of information matrices. 91h:93187

- (with Katsyuba, O. A.) Strong consistency of estimates made by the method of orthogonal projections. 91j:93131
- Zhu, Yun Min (with Yin, Gang George) Corrigendum: "Optimal quasi-convex combinations for stochastic approximation algorithms with parallel observers" [Internat. J. Control 49 (1989), no. 6, 1947–1964; MR 90c:93116]. 91h:93188
- Items with secondary classifications in 93E25
- Dupuis, Paul (with Kushner, Harold J.) Stochastic approximation and large deviations: upper bounds and w.p.1 convergence. 91a:60077
- Fattorini, H. O. Convergence of suboptimal controls: the point target case. 91c:49039
- Ferguson, Michael see Jalali, Ahmad, 91c:93050
- He, Zhen Ya see You, Xiao Hu, 91h:93066
- Jalali, Ahmad (with Ferguson, Michael) Adaptive control of Markov chains with local updates. 91c:93050
- Kalharv, Rudolf Recursive Bayesian estimation under memory limitation. 91b:62057
- Kushner, Harold J. see Dupuis, Paul, 91a:60077
- Marti, Kurt Optimal semistochastic approximation. 91d:90070
- Menaldi, José-Luis Probabilistic view of estimates for finite difference methods. 91h:49043
- Strobach, Peter ★ Linear prediction theory. 91h:93171
- Yin, Gang George (with Zhu, Yun Min) On robustness of the Robbins-Monro method for parallel processing. 91a:65257
- You, Xiao Hu (with He, Zhen Ya) The relationship between the Gram-Schmidt orthogonalization process and linear prediction, and its application. (Chinese) 91h:93066
- Zhu, Yun Min The strong convergence rate of adaptive filters. (Chinese. English summary) 91j:93111
- see also Yin, Gang George, 91a:65257

93E30 Computer simulations of stochastic systems

- Cherednichenko, A. A. see Pugachev, V. S.; et al., (Not in MR)
- Chu, Xue Dao (with Gao, Feng¹) Weighted one-step-ahead model reference adaptive control of stochastic systems. (Chinese. English summary) (Not in MR)
- Gao, Feng¹ see Chu, Xue Dao, (Not in MR)
- Pugachev, V. S. (with Sinitsyn, I. N.; Cherednichenko, A. A.; Shin, V. I.; Sinitsyn, V. I.) Software for the analysis of multidimensional nonlinear stochastic systems. (Not in MR)
- Shin, V. I. see Pugachev, V. S.; et al., (Not in MR)
- Sinitsyn, I. N. see Pugachev, V. S.; et al., (Not in MR)
- Sinitsyn, V. I. see Pugachev, V. S.; et al., (Not in MR)

Items with secondary classifications in 93E30

- Clement, Thierry (with Gentil, Sylviane) Recursive membership set estimation for output-error models. 91m:93119
- Demetriu, S. see Popescu, Th. D., 91d:86011
- Gentil, Sylviane see Clement, Thierry, 91m:93119
- Lee, Chih-Ping (with McClamroch, N. Harris) A control problem for processing discrete parts with random arrivals. (see 91h:93001)
- McClamroch, N. Harris see Lee, Chih-Ping, (91h:93001)
- Popescu, Th. D. (with Demetriu, S.) Analysis and simulation of strong earthquake ground motions using ARMA models. 91d:86011

93E35 Stochastic learning and adaptive control

- Agrawal, Rajeev (with Teneketzis, Demosthenis; Anantharam, Venkatesh) Asymptotically efficient adaptive allocation schemes for controlled Markov chains: finite parameter space. 91c:93100
- Anantharam, Venkatesh see Agrawal, Rajeev; et al., 91c:93100
- Baranik, V. G. An adaptive estimate for control parameters of linear stochastic systems with incomplete description. (Russian) 91k:93094
- Bielecki, Tomasz R. Adaptive control of continuous-time linear stochastic systems with discounted cost criterion. (Not in MR)
- Cavazos-Cadena, Rolando see Hernández-Lerma, Onésimo, 91k:93132
- Duncan, Tyrone E. (with Mandl, Petr; Pasik-Duncan, Boženna) On exponentially discounted adaptive control. 91m:93152
- Fu, Li Ch'eng New approach to robust model reference adaptive control for a class of plants. (Not in MR)
- Gervers, Michel (with Goodwin, Graham C.; Wertz, Vincent) Continuous-time stochastic adaptive control. 91m:93153
- Goodwin, Graham C. see Gervers, Michel; et al., 91m:93153
- Hausmann, U. G. (with Zhang, Qing¹) Stochastic adaptive control with small observation noise. 91j:93128
- Hernández-Lerma, Onésimo (with Cavazos-Cadena, Rolando) Density estimation and adaptive control of Markov processes: average and discounted criteria. 91k:93132
- Ilin, G. G. Adaptive strategies for random control processes. (Russian) 91h:93081
- Lemos, J. M. (with Mendonça, T. F.; Mosca, E.) Long-range adaptive control with input constraints. (Not in MR)
- Mandl, Petr see Duncan, Tyrone E.; et al., 91m:93152
- Meleshko, V. I. (with Tkachenko, T. V.) Dynamic identification by factorized recursion methods. (Not in MR)
- Mendonça, T. F. see Lemos, J. M.; et al., (Not in MR)
- Mitrach, Bruce Nonconvexities in a stochastic control problem with learning. (Not in MR)
- Mohamed, S. S. see Porter, Brian, 91j:93129 and 91k:93095
- Mosca, E. see Lemos, J. M.; et al., (Not in MR)
- Pasik-Duncan, Boženna see Duncan, Tyrone E.; et al., 91m:93152
- Petrov, A. I. (with Stetsko, G. O.) A self-organizing stochastic control system that adapts to changing characteristics of disturbances. 91h:93082
- Porter, Brian (with Mohamed, S. S.) Iterative learning control of partially irregular multivariable plants with initial state shifting. 91j:93129
- (with Mohamed, S. S.) Iterative learning control of partially irregular multivariable plants with initial impulsive action. 91k:93095

- Poznyak, A. S. (with Tikhonov, S. N.) Extension of a class of nonlinear residual transformations in recursion algorithms for parametric estimation. 91j:93130
- Stetsko, G. O. see Petrov, A. I., 91h:93082
- Teneketzis, Demosthenis see Agrawal, Rajeev; et al., 91c:93100
- Tikhonov, S. N. see Poznyak, A. S., 91j:93130
- Tkachenko, T. V. see Meleshko, V. I., (Not in MR)
- Wertz, Vincent see Gervers, Michel; et al., 91m:93153
- Zhang, Qing¹ see Hausmann, U. G., 91j:93128

Items with secondary classifications in 93E35

- Borkar, Vivek S. Self-tuning control of diffusions without the identifiability condition. 91m:93046
- Kolobov, M. G. Adaptive estimation of the state of a dynamic system under uncertainty conditions. 91k:93047

93E99 None of the above, but in this section

- Polychronopoulos, George (with Tsitsiklis, John N.) Explicit solutions for some simple decentralized detection problems. 91h:93189
- Tsitsiklis, John N. see Polychronopoulos, George, 91h:93189
- Items with secondary classifications in 93E99
- Lepsky, Antonio (with Mian, Gian Antonio; Viaro, Umberto) Split forms of z -domain algorithms for linear prediction and stability analysis. 91g:93011
- Mian, Gian Antonio see Lepsky, Antonio; et al., 91g:93011
- Viaro, Umberto see Lepsky, Antonio; et al., 91g:93011

94-XX Information and communication, circuits

94-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 94-00

- Devivier, Michel (with Léonard, Corinne) ★ Dictionnaire d'informatique et techniques associées. (French) [Dictionary of data processing and associated technologies] 91k:00003
- Léonard, Corinne see Devivier, Michel, 91k:00003

Items listed otherwise than by author

- Dictionary:
Data processing and associated technologies see Devivier, Michel, 91k:00003

94-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Ash, Robert B. ★ Information theory. 91k:94001
- Salomaa, Arto ★ Public-key cryptography. 91j:94001

Items with secondary classifications in 94-01

- Cerasoli, Mauro (with Eugeni, Franco; Protasi, Marco) ★ Elementi di matematica discreta. (Italian) [Elements of discrete mathematics] 91m:05001
- Eugeni, Franco see Cerasoli, Mauro; et al., 91m:05001
- Protasi, Marco see Cerasoli, Mauro; et al., 91m:05001
- (Rota, Gian-Carlo) see Cerasoli, Mauro; et al., 91m:05001

94-02 Research exposition (monographs, survey articles)

- Zaimanov, L. A. ★ Преобразования Фурье, Уолша, Хаара и их применение в управлении, связи и других областях. (Russian) [Fourier, Walsh and Haar transforms and their application to control, communication and other fields] 91k:94001
- Zhang, Xue Jun ★ Auxiliary signal design in fault detection and diagnosis. 91b:94001
- Zlotnik, B. M. ★ Помехоустойчивые коды в системах связи. (Russian) [Error-correcting codes in communications systems] 91h:94001

Items listed otherwise than by author

- Lecture Notes in Control and Information Sciences see Zhang, Xue Jun, 91b:94001

Items with secondary classifications in 94-02

- Duhamel, Pierre Raymond (with Vetterli, M.) Fast Fourier transforms: a tutorial review and a state of the art. (French and German summaries) 91a:94004
- van der Geer, Gerard see van Lint, Jacobus H., 91c:94023
- Goepa, V. D. ★ Geometry and codes. 91a:14013
- (Haken, Hermann) see Jumarie, Guy, 91h:94012
- Jumarie, Guy ★ Relative information. 91h:94012
- (Kilg, G. J.) see Jumarie, Guy, 91h:94012
- Korobochkin, Yu. B. see Kurkin, O. M.; et al., 91j:93102
- Kurkin, O. M. (with Korobochkin, Yu. B.; Shatalov, S. A.) ★ Минимаксная обработка информации. (Russian) [Minimax processing of information] 91j:93102
- Lee, E. Bruce see La, Wu Sheng, 91a:94003
- Levin, Boris R. ★ Теоретические основы статистической радиотехники. (Russian) [Theoretical foundations for statistical radio engineering] 91a:94002
- van Lint, Jacobus H. (with van der Geer, Gerard) ★ Introduction to coding theory and algebraic geometry. 91a:94023
- Algebraic geometric codes. 91d:14008

- La, Wu Sheng (with Lee, E. Bruce) Structure simplification of 2-D digital filters: an overview. 91a:94003
 (Shartse, N. G.) see Goppa, V. D., 91a:14013
 Shatalov, S. A. see Kurkin, O. M.; et al., 91j:93102
 Skarokhod, A. V. Probability. Applied aspects. (Russian) (see 91b:60003)
 Vetterli, M. see Duhamel, Pierre Raymond, 91a:94004
 Wiggert, Djimiri ★ Codes for error control and synchronization. 91k:94032

94-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 94-03

- (Leibniz, Gottfried Wilhelm) see Strasser, Gerhard F., 91c:01025
 Strasser, Gerhard F. Lingua realis, lingua universalis and lingua cryptologica: Analogiebildungen bei den Universalisprachen des 16. und 17. Jahrhunderts. (English summary) [Lingua realis, lingua universalis and lingua cryptologica. The formations by analogy of universal languages of the 16th and 17th centuries] 91c:01025

Items listed otherwise than by author

- Colloquium:
 Soviet Finite Mathematics ★ Colloquium on Soviet Finite Mathematics. 91e:01019
 Discussion:
 Large-scale finite mathematics ★ Colloquium on Soviet Finite Mathematics. 91e:01019

94-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 94-04

- Majorana, James A. A classification of the cosets of the Reed-Muller code $\mathcal{R}(1, 6)$. 91j:94023

94-06 Proceedings, conferences, collections, etc.

- (Brassard, Gilles) see Advances in cryptology—CRYPTO '89, 91b:94002
 (Nemirovskii, R. F.) see Methods and means of transforming information, 91b:94004
 (Pieprzyk, József P.) see Advances in cryptology—AUSCRYPT '90, 91h:94002
 (Quisquater, Jean-Jacques) see Advances in cryptology—EUROCRYPT '89, 91h:94003
 (Seberry, Jennifer R.) see Advances in cryptology—AUSCRYPT '90, 91h:94002
 (Vandewalle, Joos) see Advances in cryptology—EUROCRYPT '89, 91h:94003

Items listed otherwise than by author

- Advances in cryptology—AUSCRYPT '90 ★ Advances in cryptology—AUSCRYPT '90. 91h:94002
 Advances in cryptology—CRYPTO '89 ★ Advances in cryptology—CRYPTO '89. 91h:94002
 Advances in cryptology—EUROCRYPT '89 ★ Advances in cryptology—EUROCRYPT '89. 91h:94003

Conference:

- Signal Processing ★ Latvian Signal Processing International Conference. Vol. 1. 91i:94002
 — ★ Latvian Signal Processing International Conference. Vol. 2. 91i:94003
 Theory and Applications of Cryptology ★ Advances in cryptology—CRYPTO '89. 91h:94002
 Houthalen ★ Advances in cryptology—EUROCRYPT '89. 91h:94003
 Lecture Notes in Computer Science ★ Advances in cryptology—CRYPTO '89. 91h:94002
 — ★ Advances in cryptology—AUSCRYPT '90. 91h:94002
 — ★ Advances in cryptology—EUROCRYPT '89. 91h:94003
 Methods and means of transforming information ★ Методы и средства преобразования информации. Вып. 10. (Russian) [Methods and means of transforming information. No. 10] 91i:94004

Riga ★ Latvian Signal Processing International Conference. Vol. 1. 91i:94002

— ★ Latvian Signal Processing International Conference. Vol. 2. 91i:94003

Santa Barbara, CA ★ Advances in cryptology—CRYPTO '89. 91h:94002

Sydney ★ Advances in cryptology—AUSCRYPT '90. 91h:94002

Workshop:

- Theory and Application of Cryptographic Techniques ★ Advances in cryptology—AUSCRYPT '90. 91h:94002
 — ★ Advances in cryptology—EUROCRYPT '89. 91h:94003

Items with secondary classifications in 94-06

- (Bank, Randolph E.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035
 (Bellirsch, R.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035
 (Combes, J. M.) see Wavelets, 91h:42026
 (Grossmann, A.) see Wavelets, 91h:42026
 (Merten, K.) see Mathematical modelling and simulation of electrical circuits and semiconductor devices, 91m:00035
 (Pomerance, Carl) see Cryptology and computational number theory, 91k:11113
 (Ray-Chandhuri, D. K.) see Coding theory and design theory, 91a:95001
 (Tchamitchian, Philippe) see Wavelets, 91h:42026

Items listed otherwise than by author

- Boulder, CO ★ Cryptology and computational number theory. 91k:11113
 Coding theory and design theory ★ Coding theory and design theory. Part II. 91a:95001

Conference:

- Mathematical Modelling and Simulation of Electrical Circuits and Semiconductor Devices ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035
 Wavelets ★ Wavelets. 91h:42026
 Cryptology and computational number theory ★ Cryptology and computational number theory. 91k:11113
 Marseille ★ Wavelets. 91h:42026
 Mathematical modelling and simulation of electrical circuits and semiconductor devices ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035
 Oberwolfach ★ Mathematical modelling and simulation of electrical circuits and semiconductor devices. 91m:00035
 Proceedings of Symposia in Applied Mathematics ★ Cryptology and computational number theory. 91k:11113
 Wavelets ★ Wavelets. 91h:42026

94Axx Communication, information

94A05 Communication theory [see also 60G35, 90B12]

- Abramovich, Yu. I. (with Kachur, V. G.; Mikhailukov, V. N.) The convergence of directivity and its stabilization in fast spatial filter adaptive tuning procedures. 91b:94003
 — (with Kachur, V. G.) Analysis of the convergence of a tunable vector in adaptive techniques employing inversion of the maximum likelihood estimates of correlation matrices. 91c:94001
 Afanas'ev, Yu. V. see Presnyakov, I. N., (Not in MR)
 Anderson, Brian D. O. see Parker, Philip J., (Not in MR)
 Aranson, I. S. (with Reiman, A. M.; Shekhov, V. G.) Measurement methods for correlation dimensions. (see 91e:00017)
 Arkhangelskii, S. V. Information analysis of digital signals. (Not in MR)
 Aslanis, James T. see Kasturia, Sanjay; et al., 91i:94005
 Basu, Sankar (with Tan, Alfredo C.) On a generalized factorization problem for structurally passive synthesis of digital filters. 91b:94004
 Beider, A. B. The statistics of phased antenna arrays taking into account the mutual effect of the radiators. (Not in MR)
 Bellini, Sandro (with Rocca, Fabio) Asymptotically efficient blind deconvolution. (French and German summaries) (Not in MR)
 Buzo, André see He, Ning; et al., (Not in MR)
 Cai, Chang Nian see Lin, Xu Duan, 91b:94007
 Chan, Agnes Hui (with Goresky, R. Mark; Klapper, Andrew) On the linear complexity of feedback registers. (Not in MR)
 Chan, Chun Leung see Kwan, Hon Keung, (Not in MR)
 Ching, P. C. see Ho, K. C., (Not in MR)
 Choi, Changseok see Nishikawa, Kiyoshi², (Not in MR)
 Cioffi, John M. see Kasturia, Sanjay; et al., 91i:94005
 Comon, Pierre (with Pham Dinh Tuan) Estimating the order of a FIR filter for noise cancellation. (Not in MR)
 Coyle, Edward J. see Lin, Jean-Huang; et al., 91b:94006 and Yu, Pao Ta, (Not in MR)
 Deng, Zi Li (with Xie, San Ming) An adaptive recursive deconvolution filter. (Chinese. English summary) (Not in MR)
 Dennis, Neville E. see Morris, Joel M., 91b:94009
 van Dijk, Nico M. Simple performance estimates and error bounds for slotted ALOHA loss systems. (Not in MR)
 Dodunekova, Rositna On the problem of minimax estimation of linear functionals. (Russian summary) 91c:94002
 — On estimating a signal passing through a linear filter. 91c:94003
 Dyka, Andrzej Chebyshev minimax deconvolution filtering for a pair of discrete pulses. (Not in MR)
 Fahmy, Mustafa M. see Wan, Yongbing, 91m:94001
 Foias, Ciprian (with Frazho, Arthur; Sherman, P. J.) A new approach for determining the spectral data of multichannel harmonic signals in noise. 91f:94001
 Frazho, Arthur see Foias, Ciprian; et al., 91f:94001
 Geraniotis, Evangelos Robust matched filters for noise uncertainty within two alternating capacity classes. (Not in MR)
 Gerlach, Karl The effects of IF bandpass mismatch errors on adaptive cancellation. (Not in MR)
 Gesztelyi, Ernő A deterministic mathematical model of the transmission of information. I. (Not in MR)
 — A deterministic mathematical model of the transmission of information. II. (Not in MR)
 Giombi, O. A. Nonlinear filtering of random processes and optimal signal transmission over a channel with "noisy" feedback. (Russian) 91f:94002
 Gondran, M. Introduction à une théorie formelle de la communication. (English summary) [Introduction to a formal theory of communication] (Not in MR)
 Goresky, R. Mark see Chan, Agnes Hui; et al., (Not in MR)
 Gray, Robert M. see Longo, Maurizio; et al., 91b:94008
 Grzech, Adam Performance comparison of single and integrated local area networks. (Russian and Polish summaries) (Not in MR)
 Hamada, Nozomu see Watanabe, Tutomu; et al., (Not in MR)
 He, Ning (with Kuhlmann, Federico; Buzo, André) Double-loop sigma-delta modulation with dc input. (Not in MR)
 Higuchi, Tatsuo see Ohki, Makoto; et al., (Not in MR)
 Ho, K. C. (with Ching, P. C.) A new constrained least mean square time-delay estimation system. (Not in MR)
 Husay, John Hakon (with Ramstad, Tor A.) Application of an efficient parallel IIR filter bank to image subband coding. (French and German summaries) (Not in MR)
 Ikeharu, Masaaki see Toyoshima, Hisamichi; et al., (Not in MR)
 Jin, Qu see Wong, Kon Max, (Not in MR)

- Kachur, V. G. *see* Abramovich, Yu. I.; et al., 91b:94003 and 91c:94001
- Kamada, Masaru (with Toraiichi, Kazuo; Mori, Ryoichi) Sampling bases for the signal space composed of spline functions. 91f:94003
- Kastoria, Sanjay (with Aslanis, James T.; Cioffi, John M.) Vector coding for partial response channels. 91f:94005
- Kawamata, Masayuki *see* Ohki, Makoto; et al., (Not in MR)
- Kent, T. J. *see* Soltis, J. J.; et al., (Not in MR)
- Khasin, L. S. Conflict resolution in a random access channel. 91b:94005
- Klapper, Andrew *see* Chan, Agnes Hui; et al., (Not in MR)
- Ko, C. C. *see* Lim, Y. C., 91c:94004
- Krieger, Abraham (with Masry, Elias) Constrained adaptive filtering algorithms: asymptotic convergence properties for dependent data. 91b:94004
- Kuhlmann, Federico *see* He, Ning; et al., (Not in MR)
- Kuleshov, V. L. *see* Zamula, A. A., (Not in MR)
- Kumar, P. Vijay (with Liu, Chao-Ming) On lower bounds to the maximum correlation of complex roots-of-unity sequences. 91a:94001
- Kuntsevich, V. M. Matrix models of two-dimensional discrete fields and their application in digital signal processing systems. (Russian) (Not in MR)
- Kwan, Hon Keung (with Chan, Chun Leung) Design of multidimensional spherically symmetric and constant group delay recursive digital filters with sum of powers-of-two coefficients. (Not in MR)
- Lee, E. Bruce *see* Lu, Wu Sheng, 91a:94003
- Levin, Boris R. ★ Теоретические основы статистической радиотехники. (Russian) [Theoretical foundations for statistical radio engineering] 91a:94002
- Likhanov, N. B. *see* Tsybakov, B. S., 91b:94010
- Lim, Y. C. (with Ko, C. C.) Forward-backward LMS adaptive line enhancer. 91c:94004
- Lin, Jean-Huang (with Selke, Thomas M.; Coyle, Edward J.) Adaptive stack filtering under the mean absolute error criterion. 91b:94006
- Liu, Xu Duan (with Cai, Chang Nian) Classes of GFSP sequences and their fast generation. 91b:94007
- Liu, Chao-Ming *see* Kumar, P. Vijay, 91a:94001
- Longo, Maurizio (with Lookabaugh, Tom D.; Gray, Robert M.) Quantization for decentralized hypothesis testing under communication constraints. 91b:94008
- Lookabaugh, Tom D. *see* Longo, Maurizio; et al., 91b:94008
- Lu, Wu Sheng (with Lee, E. Bruce) Structure simplification of 2-D digital filters: an overview. 91a:94003
- Maharaj, Nader Random-access communication with multiple reception. (Not in MR)
- Mainagashv, S. M. (with Popkov, V. K.) A problem on the maximal flow in nonstationary communication networks. (Russian) 91b:94005
- Mal'tsev, Arkadii Anatolevich (with Silaev, A. M.) Optimum estimates of the times of random irregular variations in signal parameters. 91b:94002
- Masry, Elias *see* Krieger, Abraham, 91b:94004
- Matrosov, V. V. (with Ponomarenko, V. P.) Investigation of the dynamic behavior regimes of a two-loop system for synchronization of a complex signal. 91c:94005
- Mikhailovskiy, V. N. *see* Abramovich, Yu. I.; et al., 91b:94003
- Minagawa, Kenji *see* Watanabe, Eiji; et al., (Not in MR)
- Mori, Ryoichi *see* Kamada, Masaru; et al., 91f:94003
- Morris, Joel M. (with Dennis, Neville E.) A random-threshold decision rule for known signals with additive amplitude-bounded nonstationary random interference. 91b:94009
- Nakassako, Noboru *see* Ohta, Mitsuo, (Not in MR)
- Nehorai, Arye *see* Zeira, Ariela, 91b:94011
- Nishihara, Akinori *see* Watanabe, Eiji; et al., (Not in MR)
- Nishikawa, Kiyoshi (with Choi, Changseok) Equiripple magnitude approximation for low-pass IIR digital filters with prescribed group delay. (Not in MR)
- Ohki, Makoto (with Kawamata, Masayuki; Higuchi, Tatsuo) Design of three-dimensional digital filters based on the outer product expansion of impulse response specifications. (Not in MR)
- Ohta, Mitsuo (with Nakassako, Noboru) Spatial correlation and probabilistic evaluation of fluctuations at two observation points in a diffuse sound field. (Not in MR)
- Orlitsky, Alon Worst-case interactive communication. I. Two messages are almost optimal. 91b:94006
- Parker, Philip J. (with Anderson, Brian D. O.) Frequency tracking of nonsinusoidal periodic signals in noise. (French and German summaries) (Not in MR)
- Petrovskii, A. A. (with Sidorenko, V. I.) Organization of computations on a digital signal processor for problems in spectral analysis. (Russian) (Not in MR)
- Pham Dinh Tuan *see* Comon, Pierre, (Not in MR)
- Plotkin, Eugene I. *see* Wulich, Dor; et al., (Not in MR)
- Ponomarenko, V. P. *see* Matrosov, V. V., 91c:94005
- Ponomarev, V. A. *see* Shatalov, A. A.; et al., (Not in MR)
- Popkov, V. K. *see* Mainagashv, S. M., 91b:94005
- Presnyakov, I. N. (with Afanas'ev, Yu. V.) A generalized algorithm for indirect nonlinear filtering of Markov processes. (Russian) (Not in MR)
- Ramstad, Tor A. *see* Husey, John Hakon, (Not in MR)
- Reiman, A. M. *see* Aranson, I. S.; et al., (91c:00017)
- Rocca, Fabio *see* Bellini, Sandro, (Not in MR)
- Roy, Richard Invariance techniques in spectral estimation and signal processing. (see 91g:42001)
- Ruderman, A. L. *see* Vishnevskii, B. L., (Not in MR)
- Saito, Hiroshi Optimal control of variable rate coding in integrated voice/data packet networks. 91b:94007
- Schwartz, Ira B. Derivation and analysis of a least mean square filter. (Not in MR)
- Sedukhin, S. G. (with Tishchenko, T. P.) ★ Проектирование высокопараллельных вычислительных структур для алгоритма Гаусса-Жордана в применении к задачам фильтрации. (Russian) [Design of highly parallel numerical structures for the Gauss-Jordan algorithm in an application to filtering problems] (Not in MR)
- Sekiguchi, Takashi (with Takahashi, Shin-ichi) Design of two-dimensional IIR digital filters with complex coefficients using spectral transformations. (Not in MR)
- Selke, Thomas M. *see* Lin, Jean-Huang; et al., 91b:94006
- Shafrenskii, Ya. M. An estimate for the reliability of a network for communicating a control signal. (Russian. English summary) 91j:94002
- Shagulin, I. V. *see* Shatalov, A. A.; et al., (Not in MR)
- Shatalov, A. A. (with Ponomarev, V. A.; Shagulin, I. V.) Adaptive algorithm of spatial Wiener filtering. (Not in MR)
- Shekhov, V. G. *see* Aranson, I. S.; et al., (91c:00017)
- Sherman, P. J. *see* Fofas, Ciprian; et al., 91f:94001
- Sid-Ahmed, M. A. *see* Soltis, J. J.; et al., (Not in MR)
- Sidorenko, V. I. *see* Petrovskii, A. A., (Not in MR)
- Silaev, A. M. *see* Mal'tsev, Arkadii Anatolevich, 91b:94002
- Sim, Puay K. Design of orthogonal biquad digital filters. (Not in MR)
- Solo, Victor The limiting behavior of LMS. (Not in MR)
- Soltis, J. J. (with Kent, T. J.; Sid-Ahmed, M. A.) A direct design approach for two-dimensional low-pass and high-pass filters. (Not in MR)
- Song, Ai Jun *see* Wang, Hong Yu, 91d:94001
- Stipakho, I. I. Transmission of symbols by groups. (Russian) 91j:94003
- Swamy, M. N. S. *see* Wulich, Dor; et al., (Not in MR)
- Taguchi, Akira *see* Watanabe, Tsutomu; et al., (Not in MR)
- Takahashi, Shin-ichi *see* Sekiguchi, Takashi, (Not in MR) and Toyoshima, Hisamichi; et al., (Not in MR)
- Tan, Alfredo C. *see* Basu, Sankar, 91b:94004
- Tishchenko, T. P. *see* Sedukhin, S. G., (Not in MR)
- Toraiichi, Kazuo *see* Kamada, Masaru; et al., 91f:94003
- Toyoshima, Hisamichi (with Ikehara, Masaaki; Takahashi, Shin-ichi) A new class of 2-D digital filters composed of all-pass subfilters. (Not in MR)
- Tsybakov, B. S. (with Likhanov, N. B.) An upper bound for the capacity of a system of random multiple access to a channel with errors. 91b:94010
- Venetsanopoulos, Anastasios N. *see* Zervakis, Michael E., (Not in MR)
- Vishnevskii, B. L. (with Ruderman, A. L.) Recursive estimation of a polynomial regression line. (Not in MR)
- Wan, Yongbing (with Fahmy, Moustafa M.) *N*-dimensional symmetries and their applications in digital filters. (French and German summaries) 91m:94001
- Wang, Hong Yu (with Song, Ai Jun) Investigation of the spectra of L_p autocorrelation functions. (Chinese. English summary) 91d:94001
- Watanabe, Eiji (with Minagawa, Kenji; Nishihara, Akinori) A synthesis of low-sensitivity digital filters using *T*-cascade connections. Extraction of wave digital lattice filter sections. (Not in MR)
- Watanabe, Tsutomu (with Taguchi, Akira; Hamada, Nozomu) Modified two-dimensional AR lattice filter and its application to spectral analysis. (Not in MR)
- Wong, Ken Max (with Jin, Qu) Estimation of the time-varying frequency of a signal: the Cramer-Rao bound and the application of Wigner distribution. (Not in MR)
- Wong, Ping Wah Quantization noise, fixed-point multiplicative roundoff noise, and dithering. 91c:94006
- Wulich, Dor (with Plotkin, Eugene I.; Swamy, M. N. S.) Synthesis of discrete time-varying null filters for frequency-varying signals using the time-warping technique. (Not in MR)
- Xie, San Ming *see* Deng, Zi Li, (Not in MR)
- Yarman-Vural, Fatih T. Enhancement of speech in additive, locally stationary and colored noise, using linear prediction. (French and German summaries) (Not in MR)
- Yu, Pao Ta (with Coyle, Edward J.) Convergence behavior and *N*-roots of stack filters. (Not in MR)
- Zamula, A. A. (with Kuleshov, V. L.) A fast algorithm for studying intercorrelated properties of characteristic discrete signals. (Russian) (Not in MR)
- Zeira, Ariela (with Nehorai, Arye) Frequency domain Cramer-Rao bound for Gaussian processes. 91b:94011
- Zervakis, Michael E. (with Venetsanopoulos, Anastasios N.) Three-dimensional rotated digital filters: design, stability, and applications. (Not in MR)

Items with secondary classifications in 94A05

- Alpay, Daniel (with Dewilde, Patrick M.; Dym, Harry) On the existence and construction of solutions to the partial lossless inverse scattering problem with applications to estimation theory. 91b:94003
- Arvas, Ercument *see* Ponnappalli, Salla; et al., 91j:65062
- Basu, Sankar On the synthesis of a class of 2-D acausal lossless digital filters. 91b:93067
- Briljal, K. (with Sharma, Bhu Dev) Regularizing the augmented cost matrix arising from the performance function of a DMC. (Not in MR)
- Butz, Arthur R. Autoregressive equivalents of rank order processors. (Not in MR)
- Colbourn, Charles J. *see* Nel, Louis Daniel, 91b:90097
- Demoment, Guy Équations de Chandrasekhar et algorithmes rapides pour le traitement du signal et des images. (English summary) [Chandrasekhar equations and fast algorithms in signal and image processing] 91j:93100
- Dewilde, Patrick M. *see* Alpay, Daniel; et al., 91b:94003
- Dupuis, Paul *see* Kushner, Harold J., (91j:60003)
- Duvaut, Patrick *see* Picinbono, Bernard, 91d:94005
- Dym, Harry *see* Alpay, Daniel; et al., 91b:94003
- El Gamal, Abbas *see* Orlitsky, Alon, 91b:68039
- Fischer, Thomas Robert *see* Marcellini, Michael W., 91b:94011
- Gallias, Zbigniew (with Ogorzałek, Maciej J.) Bifurcation phenomena in second-order digital filter with saturation-type adder overflow characteristic. (Not in MR)
- Golubev, G. K. Quasilinear estimates for signals in L_2 . 91b:62051
- Györfi, László (with Masry, Elias) The L_1 and L_2 strong consistency of recursive kernel density estimation from dependent samples. 91b:62073
- Hajela, Dan On faster than Nyquist signaling: computing the minimum distance. 91b:41024
- Hidaka, Toshimitsu Analysis of parallel redundant system with dependent failures. (Not in MR)
- Ito, Mitsuru (with Saito, Akira; Nishizeki, Takao) Secret sharing scheme realizing general access structure. 91e:94018
- Kida, Takuro Conditions of convergence with respect to extended forms of interpolatory approximation for multidimensional waves. 91b:41027b
- Kobayashi, Shoji (with Takahara, Mikio; Kubota, Hajime) A general method of deriving a discrete normalized system of orthogonal functions and its application to adaptive digital filters. (Not in MR)

- Korobochkin, Yu. B. *see* Kurkin, O. M.; et al., 91j:93102
- Kubota, Hajime *see* Kobayashi, Shōji; et al., (Not in MR)
- Kulagin, M. V. *see* Zelenyi, A. I., 91m:92055
- Kurkin, O. M. (with Korobochkin, Yu. B.; Shatalov, S. A.) ★ Минимаксная обработка информации. (Russian) [Minimax processing of information] 91j:93102
- Kushner, Harold J. (with Dupuis, Paul) Large deviations estimates for systems with small (wideband) noise effects and applications to stochastic systems and communication theory. (see 91j:60003)
- Lenz, Reiner ★ Group theoretical methods in image processing. 91j:68131
- Lin, Mao Chao (with Lin, Shu) Codes with multi-level error-correcting capabilities. 91h:94031
- Lin, Shu *see* Lin, Mao Chao, 91h:94031
- Lo, Y. V. Unified field theory for space-time systems. 91a:94014
- Geometrical channel models for space-time systems. 91a:94015
- Loubaton, Philippe Non-full-rank causal approximations of full-rank multivariate stationary processes with rational spectrum. 91j:93119
- Madhoo, Upamanyu (with Pursley, Michael B.) A parallel systems approach to universal receivers. 91m:94019
- Marcellin, Michael W. (with Fischer, Thomas Robert) Trellis coded quantization of memoryless and Gauss-Markov sources. 91e:94011
- Masry, Elias *see* Györfi, László, 91b:62073
- Matrosov, V. V. (with Ponomarenko, V. P.) The dynamics of a two-loop system of simultaneous phase synchronization and of tracking of lag with a small delay in the control of the lag. (Russian) 91i:34095
- Nel, Louis Daniel² (with Colbourn, Charles J.) Combining Monte Carlo estimates and bounds for network reliability. 91h:90097
- Nishizeki, Takao *see* Ito, Mitsuru; et al., 91e:94018
- Ogorzałek, Maciej J. *see* Gallas, Zbigniew, (Not in MR)
- Orlitzky, Alon (with El Gamal, Abbas) Average and randomized communication complexity. 91j:68039
- Peleg, David (with Schäffer, Alejandro A.) Time bounds on fault-tolerant broadcasting. 91h:68018
- Picinbono, Bernard (with Duvaut, Patrick) Geometrical properties of optimal Volterra filters for signal detection. 91d:94005
- Pinsker, M. S. *see* Vvedenskaya, N. D., 91h:68021
- Ponnappalli, Salla (with Sarkar, Tapan K.; Arvas, Erçument) Application of conjugate gradient method and FFT to electromagnetics and signal processing problems. 91j:65062
- Ponomarenko, V. P. *see* Matrosov, V. V., 91i:34095 and Zaulin, I. A., (Not in MR)
- Pursley, Michael B. *see* Madhoo, Upamanyu, 91m:94019
- Saito, Akira *see* Ito, Mitsuru; et al., 91e:94018
- Sarkar, Tapan K. *see* Ponnappalli, Salla; et al., 91j:65062
- Schäffer, Alejandro A. *see* Peleg, David, 91h:68018
- Sharma, Bhu Dev *see* Brilpaal, K., (Not in MR)
- Shatalov, S. A. *see* Kurkin, O. M.; et al., 91j:93102
- Takahara, Mikio *see* Kobayashi, Shōji; et al., (Not in MR)
- Vvedenskaya, N. D. (with Pinsker, M. S.) A throughput estimate for FCFS multiple access algorithms. 91h:68021
- Zaulin, I. A. (with Ponomarenko, V. P.) Analysis of dynamic processes in static synchronization systems. (Not in MR)
- Zelenyi, A. I. (with Kulagin, M. V.) ★ Интерпретация проблемы распознавания слуховых образов на основе понятия алгоритмической теории информации. (Russian) [Interpretation of the problem of auditory pattern recognition on the basis of concepts in algorithmic information theory] 91m:92055
- Zlotnik, B. M. ★ Помехоустойчивые коды в системах связи. (Russian) [Error-correcting codes in communications systems] 91h:94001
- ### 94A11 Application of orthogonal functions in communication
- Był, Włodzimierz High-resolution spectrum estimator orthogonal sum decomposition approach. (Not in MR)
- Chitprasert, B. (with Rao, Kamisetty Ramamohan) Discrete cosine transform filtering. (French and German summaries) (Not in MR)
- Duhamel, Pierre Raymond (with Vetterli, M.) Fast Fourier transforms: a tutorial review and a state of the art. (French and German summaries) 91a:94004
- Efimov, Aleksandr Vasil'evich Multiplicative function systems and their application in discrete information processing. 91m:94002
- Fahmy, Moustafa M. *see* Wan, Yongbing, (Not in MR)
- Golikov, V. S. *see* Shelomov, E. A., (Not in MR)
- Gu, Guoxiang *see* Wu, Neng Eva, (Not in MR)
- Hocort, Ralph T. *see* Ji, Chauny; et al., (Not in MR)
- Hua, Mao Fen An application of the Fourier transform in dealing with the problem of the frequency spectrum. (Chinese. English summary) (Not in MR)
- Ji, Chauny (with Kassam, Saleem A.; Hocort, Ralph T.) Aperture synthesis for imaging systems using rectangular boundary arrays. (Not in MR)
- Kamada, Masaru *see* Torachi, Kazuo; et al., (Not in MR)
- Karpovsky, Mark G. *see* Roziner, Tatyana D.; et al., 91c:94007
- Kassam, Saleem A. *see* Ji, Chauny; et al., (Not in MR)
- Kobayashi, Shōji² (with Takahara, Mikio; Kubota, Hajime) A general method of deriving a discrete normalized system of orthogonal functions and its application to adaptive digital filters. (Not in MR)
- Koga, Keiichi *see* Matsunaga, Akira; et al., (Not in MR)
- Kubota, Hajime *see* Kobayashi, Shōji; et al., (Not in MR)
- Levanenko, V. G. *see* Yanushkevich, S. N.; et al., 91c:94005
- Lin, Teng Pin *see* Liu, Jie Chong, 91g:94001
- Liu, Chuande *see* Marvasti, Farokh A., (Not in MR)
- Liu, Jie Chong (with Lin, Teng Pin) Hartley series and notch Hartley transform. 91g:94001
- Lookadoo, James A. *see* Overman, Kelly C.; et al., 91f:94004
- Marvasti, Farokh A. (with Liu, Chuande) Parseval relationship of nonuniform samples of one- and two-dimensional signals. (Not in MR)
- Matsunaga, Akira (with Ohkawa, Michihisa; Koga, Keiichi; Sakurai, Keiichi) A full-duplex analog speech scrambler using the FFT technique and its performance. (Not in MR)
- Merchant, S. N. (with Rao, B. V.) COSHAR transform. 91i:94006
- Mix, Dwight F. *see* Overman, Kelly C.; et al., 91f:94004
- Mori, Ryoichi *see* Torachi, Kazuo; et al., (Not in MR)
- Munch, Niels Juul A twisted sampling theorem. 91i:94007
- Narayanan, S. B. *see* Prabhu, K. M. M., 91a:94005
- Ohkawa, Michihisa *see* Matsunaga, Akira; et al., (Not in MR)
- Overman, Kelly C. (with Mix, Dwight F.; Lookadoo, James A.) The pulse sorting transform. 91f:94004
- Prabhu, K. M. M. (with Narayanan, S. B.) Fixed-point error analysis of fast Hartley transform. (French and German summaries) 91a:94005
- Rao, B. V. *see* Merchant, S. N., 91i:94006
- Rao, Kamisetty Ramamohan *see* Chitprasert, B., (Not in MR)
- Reddy, G. R. (with Sathyanarayana, P.; Swamy, M. N. S.) CAS-CAS transform for 2-D signals: a few applications. 91m:94003
- Roziner, Tatyana D. (with Karpovsky, Mark G.; Trachtenberg, Lazar A.) Fast Fourier transforms over finite groups by multiprocessor systems. 91c:94007
- Sakurai, Keiichi *see* Matsunaga, Akira; et al., (Not in MR)
- Sathyanarayana, P. *see* Reddy, G. R.; et al., 91m:94003
- Shelomov, E. A. (with Golikov, V. S.) On the correlation functions and spectra of random signals in a basis of Walsh functions. (Not in MR)
- Sher, A. P. Algorithms for expansion in a system of discrete arbitrarily ordered Haar functions. (Russian) 91h:94008
- Shmerko, V. P. *see* Yanushkevich, S. N.; et al., 91f:94005
- Smith, Kennan T. The uncertainty principle on groups. 91i:94008
- Swamy, M. N. S. *see* Reddy, G. R.; et al., 91m:94003
- Takahara, Mikio *see* Kobayashi, Shōji; et al., (Not in MR)
- Torachi, Kazuo (with Mori, Ryoichi; Kamada, Masaru) Design of window function using spline functions. (Not in MR)
- Trachtenberg, Lazar A. *see* Roziner, Tatyana D.; et al., 91c:94007
- (Trzeciak, Jerry) *see* Efimov, Aleksandr Vasil'evich, 91m:94002
- Tsal, Dwen-Ren (with Vullis, Michael) Computing discrete Fourier transform on a rectangular data array. 91a:94006
- Tyler, J. E. M. Real time signal processing using prime number Fourier transforms. (see 91h:68018)
- Vetterli, M. *see* Duhamel, Pierre Raymond, 91a:94004
- Vullis, Michael The weighted redundancy transform. 91a:94007
- *see also* Tsal, Dwen-Ren, 91a:94006
- Walter, Gilbert G. Recent extension of the sampling theorem. 91i:94009
- Wan, Yongbing (with Fahmy, Moustafa M.) Optimal McClellan transformation and its application to 2-D FIR digital filter design. (French and German summaries) (Not in MR)
- Wang, Tian Xi Three-dimensional filtering using Hilbert transform. (Not in MR)
- Wilson, D. Keith Use of wave-number-domain windows in fast field programs. (Not in MR)
- Wu, Neng Eva (with Gu, Guoxiang) Discrete Fourier transform and H_∞ approximation. (Not in MR)
- Yanushkevich, S. N. (with Levanenko, V. G.; Shmerko, V. P.) A matrix algorithm for solving Boolean differential equations on the basis of the discrete Fourier transform. (Russian) 91f:94005
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- Akagawa, Keiichi *see* Kida, Takuro, 91i:94014
- Chan, S. C. (with Ho, K. L.) Direct methods for computing discrete sinusoidal transforms. (Not in MR)
- Clausen, Michael Fast generalized Fourier transforms. 91f:68081
- Daubechies, Ingrid The wavelet transform, time-frequency localization and signal analysis. 91e:42038
- Forré, Réjane The strict avalanche criterion: spectral properties of Boolean functions and an extended definition. 91f:94015
- Fuller, Roy J. Formal derivation of interconnection schema for parallel computation. 91a:68039
- Grünbaum, F. Alberto Soliton mathematics in signal processing. 91g:78015
- Hall, Peter Gavin Optimal convergence rates in signal recovery. 91e:60134
- Hell, Christopher E. (with Walnut, David F.) Gabor and wavelet expansions. 91j:42024
- Wavelets and frames. 91b:42050
- Ho, K. L. *see* Chan, S. C., (Not in MR)
- Kida, Takuro (with Akagawa, Keiichi) Sampling theorems using nonuniform sample points and interpolation functions with band-limited continuous spectra. 91i:94014
- Kondratenko, O. S. *see* Zadira, V. K.; et al., 91g:65101
- Me'n'nikova, S. S. *see* Zadira, V. K.; et al., 91g:65101
- Meyer, Yves Orthonormal wavelets. 91a:42027
- Steidl, Gabriele (with Tasche, Manfred) A polynomial approach to fast algorithms for discrete Fourier-cosine and Fourier-sine transforms. 91h:65225
- Suetin, P. K. Solution of discrete convolution equations in connection with some problems in radio engineering. 91d:39003
- Tasche, Manfred *see* Steidl, Gabriele, 91h:65225
- Vlahnevetaki, A. L. A fast group-theoretic transform. 91c:94008
- Walnut, David F. *see* Hell, Christopher E., 91j:42024
- Xiang, Zhao Hong A problem on the discrete Fourier transform over Gaussian integral domains. (Chinese. English summary) 91j:11110
- Zadira, V. K. (with Kondratenko, O. S.; Me'n'nikova, S. S.) Analysis of the accuracy of algorithms for calculating some estimates for correlation functions using the fast Fourier transform. 91g:65101
- Zalmanov, L. A. ★ Преобразования Фурье, Уолша, Хаара и их применение в управлении, связи и других областях. (Russian) [Fourier, Walsh and Haar transforms and their application to control, communication and other fields] 91i:94001

94A12 Signal theory (characterization, reconstruction, etc.)

- Ahmadi, M. *see* Erfani, S.; et al., (Not in MR)
- Akagawa, Keiichi *see* Kida, Takuro, 91i:94014
- Alpay, Daniel (with Dewilde, Patrick M.; Dym, Harry) On the existence and construction of solutions to the partial lossless inverse scattering problem with applications to estimation theory. 91i:94003
- Alshebeili, Saleh A. (with Venetsanopoulos, Anastasios N.) Parameter estimation and spectral analysis of the discrete nonlinear second-order Wiener filter (NSWF). 91i:94004
- Barsov, V. I. *see* Gorbenko, I. D.; et al., (Not in MR)
- Beatty, M. G. (with Dodson, M. M.) Derivative sampling for multiband signals. 91i:94005
- Benedetto, John J. Uncertainty principle inequalities and spectrum estimation. 91i:94010
- Bondon, P. (with Picinbono, Bernard) De la blancheur et de ses transformations. (English summary) [Whiteness and its transformations] (Not in MR)
- Brest, Richard P. (with Zhou, Bing Bing) A stabilized parallel algorithm for direct-form recursive filters. (Not in MR)
- Brzozowski, J. A. (with Gahlinger, T.; Mavaddat, F.) Consistency and satisfiability of waveform timing specifications. 91i:94004
- Calvelli, Carlos A. The error in least square shaping filter. (Not in MR)
- Chang, Tong *see* Wu, Zhong Ze; et al., 91i:94017
- Cheng, Fulin (with Koga, Tosihiro) Multichannel linear prediction models and their convergence property. 91i:94011
- Chevalier, P. (with Duvaut, Patrick; Picinbono, Bernard) Le filtrage de Volterra transverse réel et complexe en traitement du signal. (English summary) [Real and complex transversal Volterra filtering in signal processing] (Not in MR)
- Dewilde, Patrick M. *see* Alpay, Daniel; et al., 91i:94003
- Dodson, M. M. *see* Beatty, M. G., 91i:94005
- Drumheller, David Mark (with Titlebaum, Edward L.) Cross-correlation properties of algebraically constructed Costas arrays. 91i:94006
- Duvaut, Patrick Principes des méthodes de séparation fondées sur les moments d'ordre supérieur. (English summary) [Principles of source-separation methods based on higher-order statistics] (Not in MR)
- *see also* Chevalier, P.; et al., (Not in MR)
- Dym, Harry *see* Alpay, Daniel; et al., 91i:94003
- Dzhamburiya, L. G. *see* Ghesli, O. A., 91i:94005
- Elstratidis, Serafim N. *see* Katsaggelos, Aggelos K., 91i:94006
- Elliott, Robert James Filtering for a logistic equation. 91i:94012
- Erfani, S. (with Ahmadi, M.; Ramachandran, Venkat) Comments on: "The general recurrence relation for arbitrary rational transformation of polynomials" [IEEE Trans. Circuits and Systems 36 (1989), no. 6, 917-919]. (Not in MR)
- Fesaveau, Jean-Christophe Filtrage miroirs conjugués: une théorie pour les filtres miroirs en quadrature et l'analyse multirésolution par ondelettes. (English summary) [Conjugate mirror filters: a framework for quadrature mirror filters and wavelet multiresolution analysis] (Not in MR)
- Findling, Andreas *see* Oppel, Ulrich G.; et al., (Not in MR)
- Friedlander, Benjamin *see* Weiss, Anthony J., 91i:94004
- Gaeta, Michel (with Lacoume, J. L.) Estimateurs du maximum de vraisemblance étendus à la séparation de sources non gaussiennes. (English summary) [Maximum-likelihood estimators applied to non-Gaussian source separation] (Not in MR)
- Gahlinger, T. *see* Brzozowski, J. A.; et al., 91i:94004
- Garay de Pablo, José Some mathematical aspects of digital simulation. (Spanish) (*see* 91i:90014)
- Găvruta, Pasc Bounds for truncation error in sampling theorem of band-limited signals. (Romanian summary) (*see* 91i:90034)
- Ghesli, O. A. (with Dzhamburiya, L. G.) Optimal transmission of "television type" Gaussian signals through a noiseless feedback channel. 91i:94005
- Golomb, Solomon W. *see* Zhang, Ning, (Not in MR)
- Gorbenko, I. D. (with Barsov, V. I.; Lysak, R. P.) An improved algorithm for representing integers in a p -adic code. (Russian) (Not in MR)
- Gray, Donald L. *see* Michel, Anthony N., 91i:94005
- Green, D. H. Product sequences with good correlation properties. 91i:94009
- Gröchenig, Karlheinz A new approach to irregular sampling of band-limited functions. 91i:94013
- Hajela, Dan On computing the minimum distance for faster than Nyquist signaling. (Not in MR)
- Hu, Fengdo *see* Hua, Yingbo; et al., (91g:42001)
- Hua, Yingbo (with Sarkar, Tapan K.; Hu, Fengdo) The generalized pencil-of-function (GPOF) method for extracting poles from transient responses. (*see* 91g:42001)
- Ikuta, Akira *see* Ohta, Mitsuo; et al., (Not in MR)
- Ishii, Rokuya *see* Maeda, Masao, (Not in MR)
- Jing, Zhao Shou (with Liu, Sheng²; Yang, Wen Chun) A study of simulators of stochastic sea wave signals. (Chinese) (Not in MR)
- Jourdain, Geneviève *see* Millet, Joël, (Not in MR)
- Karayiannis, Nikolaos B. (with Venetsanopoulos, Anastasios N.) Regularization theory in image restoration—the stabilizing functional approach. 91i:94001
- Karklin'sh, V. G. Determination of the phase of a sinusoidal signal with changing amplitude in the presence of interfering signals. (Russian) (*see* 91i:94004)
- Katsaggelos, Aggelos K. (with Elstratidis, Serafim N.) A class of iterative signal restoration algorithms. 91i:94006
- Kida, Takuro (with Akagawa, Keiichi) Sampling theorems using nonuniform sample points and interpolation functions with band-limited continuous spectra. 91i:94014
- Kishi, Genya *see* Ueyamatsu, Tomohiko; et al., (Not in MR)
- Koga, Tosihiro *see* Cheng, Fulin, 91i:94011
- Kravchenko, V. F. (with Shcherbak, V. I.) A method for the structural analysis of optimal algorithms. (Not in MR)
- Krichbaum, Wilhelm *see* Oppel, Ulrich G.; et al., (Not in MR)
- Kriegelmeier, Sigrid *see* Oppel, Ulrich G.; et al., (Not in MR)
- Krumin'sh, K. Ya. (with Zieme, Yu. G.) Effectiveness of methods of filtering signals of subsurface sounding. (Russian) (*see* 91i:94004)
- Kummert, Anton A parametric representation for k -variable Schur polynomials. 91i:94002
- Labunets, V. G. ★ Алгебраическая теория сигналов и систем. (Russian) [Algebraic theory of signals and systems] 91i:94002
- Lacoume, J. L. *see* Gaeta, Michel, (Not in MR)
- Le, Hung T. (with Wegman, Edward J.) Generalized function estimation of underwater transient signals. (Not in MR)
- Lee, Chung-Yee *see* Lah, John Z., (Not in MR)
- Lee, David² Detection, classification, and measurement of discontinuities. 91i:94004
- Lee, Yong Hoon (with Park, Soon Young) A study of convex/concave edges and edge-enhancing operators based on the Laplacian. (Not in MR)
- Li, Yan Da *see* Wu, Zhong Ze; et al., 91i:94017
- Liu, Sheng³ *see* Jing, Zhao Shou; et al., (Not in MR)
- Lah, John Z. (with Lee, Chung-Yee) Stop probability and delay estimations at low volumes for semi-actuated traffic signals. (Not in MR)
- Lysak, R. P. *see* Gorbenko, I. D.; et al., (Not in MR)
- Maeda, Masao (with Ishii, Rokuya) A method of designing a window function with an arbitrary sidelobe decrease characteristic. (Not in MR)
- Mavaddat, F. *see* Brzozowski, J. A.; et al., 91i:94004
- Mednieks, I. B. (with Mikelson, A. K.) Peculiarities of estimating signal parameters on the basis of nonorthogonal transformations. (Russian) (*see* 91i:94004)
- Michel, Anthony N. (with Gray, Donald L.) Analysis and synthesis of neural networks with lower block triangular interconnecting structure. 91i:94005
- Mikelson, A. K. *see* Mednieks, I. B., (91i:94004)
- Millet, Joël (with Jourdain, Geneviève) Signaux à fort pouvoir de résolution temps-fréquence. Comparaison entre les signaux de Costas et les signaux à modulation binaire de phase (BPSK). (English summary) [Signals exhibiting "optimal" ambiguity properties. Comparison of Costas and BPSK signals] (Not in MR)
- Mugler, Dale H. Computationally efficient linear prediction from past samples of a band-limited signal and its derivative. (Not in MR)
- Niland, R. A. Optimum oversampling. 91i:94002
- Noormohammadian, Masoud *see* Oppel, Ulrich G.; et al., (Not in MR)
- Ogawa, Hideomitsu A generalized sampling theorem. 91i:94003
- Ohta, Mitsuo (with Xiao, Yegui; Ikuta, Akira) A theory of estimating the whole from the partial information on the probability distribution of amplitude fluctuation and its application to noise environment. (Not in MR)
- Olman, Victor Optimal quantization for a density power function. (Russian summary) (Not in MR)
- Oppel, Ulrich G. (with Findling, Andreas; Krichbaum, Wilhelm; Kriegelmeier, Sigrid; Noormohammadian, Masoud) ★ A stochastic model for the calculation of multiply scattered LIDAR returns. (Not in MR)
- Park, Soon Young *see* Lee, Yong Hoon, (Not in MR)
- Pavlović, Gordana *see* Tekalp, A. Murat, (Not in MR)
- Peleg, Shimon (with Porat, Boaz) Estimation and classification of polynomial-phase signals. (Not in MR)
- Picinbono, Bernard *see* Bondon, P., (Not in MR) and Chevalier, P.; et al., (Not in MR)
- Porat, Boaz *see* Peleg, Shimon, (Not in MR)
- Ramachandran, Venkat *see* Erfani, S.; et al., (Not in MR)
- Raz, S. Synthesis of signals from Wigner distributions: representation on biorthogonal bases. (French and German summaries) (Not in MR)
- Rieder, Andreas Approximationseigenschaften der kontinuierlichen Wavelet-Transformation. [Approximation properties of the continuous wavelet transform] 91i:94015
- Riém, R. An algorithm for the approximate restoration of signals distorted by a linear smoothing filter. (Russian. English and Estonian summaries) (Not in MR)
- Sakaguchi, Naoya *see* Shimamura, Tetsuya; et al., (Not in MR)
- Sakai, Hideaki Spectral analysis and lattice filter for periodic autoregressive processes. (Not in MR)
- Sakaniwa, Kohichi *see* Ueyamatsu, Tomohiko; et al., (Not in MR)
- Sarkar, Tapan K. *see* Hua, Yingbo; et al., (91g:42001)
- Shcherbak, V. I. *see* Kravchenko, V. F., (Not in MR)
- Sher, A. P. The Walsh transform with an arbitrary order of transforms. (Russian) 91i:94006
- Shimamura, Tetsuya (with Takahashi, Shin-ichi; Sakaguchi, Naoya) Spectral line estimation using complex coefficient prefilters. (Not in MR)
- Stanomir, D. Mapping the analogous [analog] signals into discrete ones. I. General results and the Poisson transformation. 91i:94003
- Takahashi, Shin-ichi *see* Shimamura, Tetsuya; et al., (Not in MR)
- Tazaki, Saburo *see* Yamada, Yoshio, (Not in MR)
- Tekalp, A. Murat (with Pavlović, Gordana) Multichannel image modeling and Kalman filtering for multispectral image restoration. (French and German summaries) (Not in MR)
- Titlebaum, Edward L. *see* Drumheller, David Mark, 91i:94006
- Ueyamatsu, Tomohiko (with Sakaniwa, Kohichi; Kishi, Genya) An error analysis of an approximation method for band-limited signals using minimum energy signal—existence of the optimum number of sampling points and its estimation. (Not in MR)
- Valenzuela, Hector M. A two-dimensional recursive model for bilinear systems with applications to image reconstruction. 91i:94012
- Venetsanopoulos, Anastasios N. *see* Karayiannis, Nikolaos B., 91i:94001 and Alshebeili, Saleh A., 91i:94004
- Vishnevetskii, A. L. A fast group-theoretic transform. 91i:94008
- Signals with two-level autocorrelation. 91i:94016
- Vourdas, A. Gaussian bases for radar signal analysis. (French and German summaries) 91i:94004
- Wegman, Edward J. *see* Le, Hung T., (Not in MR)
- Weiss, Anthony J. (with Friedlander, Benjamin) Eigenstructure methods for direction finding with sensor gain and phase uncertainties. 91i:94004
- Werner, M. J. A new decomposition of discrete-time periodic signals. 91i:94008
- Wu, Zhong Ze (with Li, Yan Da; Chang, Tong) Uniqueness theorems and algorithm for discrete signal reconstruction from its autocorrelation function and one sample. 91i:94017
- Xia, Xiang Gen *see* Zhou, Xing Wei, 91i:94003 and 91i:94004
- Xiao, Yegui *see* Ohta, Mitsuo; et al., (Not in MR)

- Yamada, Yoshio (with Tazaki, Saburo) Variable rate sampling technique for images based on successive approximation vector quantization. (Not in MR)
- Yang, Wen Chun see Jing, Zhao Shou; et al., (Not in MR)
- Zhang, Ning (with Golomb, Solomon W.) On the crosscorrelation of generalized Barker sequences. (Not in MR)
- Zhou, Bing Bing see Brent, Richard P., (Not in MR)
- Zhou, Xing Wei (with Xia, Xiang Gen) Higher-dimensional band-limited signal extrapolation. (Chinese. English summary) 91d:94004
- (with Xia, Xiang Gen) The extrapolation of band-limited signals in L^2 with sampling errors. 91d:94003
- Ziema, Yu. G. see Krumin'sh, K. Ya., (91i:94004)
- Zwaan, M. Error estimates for nonuniform sampling. 91m:94007

Items with secondary classifications in 94A12

- Abe, Ken-ichi see Usui, Shiro; et al., (Not in MR)
- (Combes, J. M.) see Wavelets, 91h:42026
- Coyle, Edward J. see Gabbouj, Moncef, 91i:93107
- Demeure, Cédric J. Fast least squares estimation of amplitude and phase of damped cosines. (French and German summaries) 91h:65224
- Dodunekova, Rositsa On estimating a signal passing through a linear filter. 91c:94003
- Feichtinger, Hans G. (with Gröchenig, Karlheinz) Multidimensional irregular sampling of band-limited functions in L^p -spaces. 91a:42016
- Coherent frames and irregular sampling. 91k:42039
- Gabbouj, Moncef (with Coyle, Edward J.) Minimum mean absolute error stack filtering with structural constraints and goals. 91i:93107
- Gröchenig, Karlheinz see Feichtinger, Hans G., 91a:42016
- (Grossmann, A.) see Wavelets, 91h:42026
- Grinbaum, F. Alberto Trying to beat Heisenberg. 91k:78002
- Hall, Peter Gavin Optimal convergence rates in signal recovery. 91c:60134
- Hua, Yingbo (with Sarkar, Tapan K.) Matrix pencil method for estimating parameters of exponentially damped/undamped sinusoids in noise. 91b:93160
- Jeng, Fure-Ching (with Woods, John W.) Simulated annealing in compound Gaussian random fields. 91b:68120
- Johnston, J. A. Wigner distribution and FM radar signal design. (Not in MR)
- Kida, Takuro Sampling theorems for multidimensional waves with causal [causal] interpolation functions. 91b:41027a
- Kolesnikova, O. N. (with Lyashenko, N. N.) Use and automatic design of differential correctors. (Russian) (see 91h:00024)
- Kosarev, E. L. Shannon's superresolution limit for signal recovery. 91c:65087a
- Corrigenda: "Shannon's superresolution limit for signal recovery". 91c:65087b
- Kummert, Anton Derivation of an adaptive algorithm for IIR digital systems realized by powerwave digital filters. 91i:93114
- Lepsky, Antonio (with Mian, Gian Antonio; Viaro, Umberto) Efficient split algorithms for continuous-time and discrete-time systems. 91i:93047
- Lev-Ari, Hanoch Extension problems under the displacement structure regime. 91b:15028
- Liu, Chuande see Marvasti, Farokh A., (Not in MR)
- Luo, Ping Composition and decomposition of some random signal sequences. (Chinese) (Not in MR)
- Lyashenko, N. N. see Kolesnikova, O. N., (91h:00024)
- Makarov, O. M. On the synthesis of fast algorithms for signal processing. (Not in MR)
- Marvasti, Farokh A. (with Liu, Chuande) Parseval relationship of nonuniform samples of one- and two-dimensional signals. (Not in MR)
- Men'shikov, G. G. Accuracy of an analogue calculation of a moving average by integration of a second-order linear equation. (Russian) (see 91k:00019)
- Mian, Gian Antonio see Lepsky, Antonio; et al., 91i:93047
- Moonen, Marc (with Vandewalle, Joos) Recursive least squares with stabilized inverse factorization. (French and German summaries) 91h:65067
- Muskhelishvili, Nils J. A twisted sampling theorem. 91i:94007
- Pogány, Tibor K. An approach to the sampling theorem for continuous time processes. 91f:62155
- Qiu, Zhong-Qi see Usui, Shiro; et al., (Not in MR)
- Rouss, Christian Order-configuration functions: mathematical characterizations and applications to digital signal and image processing. 91f:04002
- Sarkar, Tapan K. see Hua, Yingbo, 91b:93160
- (Tchamitchian, Philippe) see Wavelets, 91h:42026
- Tiwari, A. K. Banach space valued distributional Mellin transform and form invariant linear filtering. 91f:46057
- Usui, Shiro (with Abe, Ken-ichi; Qiu, Zhong-Qi) An adaptive LMS algorithm with a quick tracking property for time-varying parameter estimation. (Not in MR)
- Vandewalle, Joos see Moonen, Marc, 91h:65067
- Viaro, Umberto see Lepsky, Antonio; et al., 91i:93047
- Walter, Gilbert G. Recent extension of the sampling theorem. 91i:94009
- Wojcik, Piotr J. On-line estimation of signal and noise parameters with application to adaptive Kalman filtering. (Not in MR)
- Woods, John W. see Jeng, Fure-Ching, 91b:68120

Items listed otherwise than by author

- Conference:
Wavelets ★ Wavelets. 91h:42026
Marseille ★ Wavelets. 91h:42026
Wavelets ★ Wavelets. 91h:42026

94A13 Detection theory

- Ahlswede, Rudolf Extremal properties of rate-distortion functions. 91f:94007
- Aspison, I. Ya. see Valeev, V. G., (Not in MR)
- Bahr, Randall K. Asymptotic analysis of error probabilities for the nonzero-mean Gaussian hypothesis testing problem. 91c:94005
- Barton, Richard J. (with Poor, H. Vincent) An RKHS approach to robust L^2 estimation and signal detection. 91b:94013

- Benitz, Gerald R. (with Bucklew, James A.) Large deviation rate calculations for nonlinear detectors in Gaussian noise. 91b:94014
- Blum, Rick S. (with Kassam, Saleem A.) Approximate analysis of the convergence of relative efficiency to ARE for known signal detection. (Not in MR)
- Brunner, J. S. A recursive method for calculating binary integration detection probabilities. (Not in MR)
- Bucklew, James A. see Benitz, Gerald R., 91b:94014 and Sadowky, John S., 91b:94017
- Chawla, Kapil K. (with Sarwate, Dilip V.) Upper bounds on the probability of error for M -ary orthogonal signaling in white Gaussian noise. 91b:94015
- Cheng, Qian Sheng Minimum entropy deconvolution of one- and multi-dimensional non-Gaussian linear random processes. 91i:94018
- Chua, Leon O. see Matsumoto, Takashi; et al., (Not in MR)
- Duvaut, Patrick see Picinbono, Bernard, 91d:94005
- Fawcett, John A. (with Maranda, Brian H.) The optimal power law for the detection of a Gaussian burst in a background of Gaussian noise. (Not in MR)
- Gerlach, Karl see Kretschmer, Frank F., Jr., 91k:94007
- Hari, K. V. S. see Rao, B. D., (Not in MR)
- Holm, John R. (with Ritcey, James A.) The optimality of the censored mean-level detector. (Not in MR)
- Hughes, Brian L. On the error probability of signals in additive white Gaussian noise. (Not in MR)
- Kadota, T. T. A nonlinear optimum-detection problem. I. Theory. 91b:94016
- An optimum strategy for detection in the presence of random transient disturbance and white Gaussian noise. (Not in MR)
- Kassam, Saleem A. see Blum, Rick S., (Not in MR)
- Korshikov, A. P. Detection of a random signal on a background of non-Gaussian interference with nonideal learning interference samples. (Not in MR)
- Kretschmer, Frank F., Jr. (with Gerlach, Karl) Low sidelobe radar waveforms derived from orthogonal matrices. 91k:94007
- Lee, David? Discontinuity detection from band-limited signals. 91c:94006
- Maranda, Brian H. see Fawcett, John A., (Not in MR)
- Matsumoto, Takashi (with Chua, Leon O.; Suzuki, Hideo?) CNN cloning template: shadow detector. (Not in MR)
- Picinbono, Bernard (with Duvaut, Patrick) Geometrical properties of optimal Volterra filters for signal detection. 91d:94005
- Poor, H. Vincent see Barton, Richard J., 91b:94013
- Rao, B. D. (with Hari, K. V. S.) Effect of spatial smoothing on the performance of MUSIC and the minimum-norm method. (Not in MR)
- Ritcey, James A. see Holm, John R., (Not in MR)
- Sadowky, John S. (with Bucklew, James A.) On large deviations theory and asymptotically efficient Monte Carlo estimation. 91b:94017
- Sarwate, Dilip V. see Chawla, Kapil K., 91b:94015
- Senica, Petre Performance evaluation of some methods for off-line detection of changes in autoregressive signals. (French and German summaries) 91c:94009
- Suzuki, Hideo? see Matsumoto, Takashi; et al., (Not in MR)
- Tartakovsky, G. P. Detection of the source of noise moving with respect to the receiver, with estimation of the parameters of this motion. 91b:94019
- Detection of a radiation source moving relative to the receiver, with an estimate for the speed and time of determining the minimum distance. (Not in MR)
- Valeev, V. G. (with Aspison, I. Yu.) Asymptotically effective nonparametric algorithms for detecting signals in non-Gaussian interference. (Not in MR)
- Verdú, Sergio Computational complexity of optimum multiuser detection. 91a:94009
- Yur'ev, A. N. Synthesis of stochastic signal detection algorithms for signals represented in the state space. 91b:94018
- Zakharov, S. I. Maximum likelihood detection of a quasideterministic signal against a background of Gaussian autoregression interference with unknown parameters. 91a:94010

Items with secondary classifications in 94A13

- Barniv, Yair Dynamic programming algorithm for detecting dim moving targets. (see 91c:90054)
- Bar-Shalom, Yaakov see Pattipati, Krishna R.; et al., (91c:90054)
- Basenille, Michèle Distance measures for signal processing and pattern recognition. (French and German summaries) 91b:68099
- Deb, Somnath see Pattipati, Krishna R.; et al., (91c:90054)
- Findling, Andreas see Oppel, Ulrich G.; et al., (Not in MR)
- Katsikas, S. K. (with Likothanassis, S. D.; Lainiotis, D. G.) AR model identification with unknown process order. (Not in MR)
- Krichbaum, Wilhelm see Oppel, Ulrich G.; et al., (Not in MR)
- Kriegelmeier, Sigrid see Oppel, Ulrich G.; et al., (Not in MR)
- Lainiotis, D. G. see Katsikas, S. K.; et al., (Not in MR)
- Lee, David? Detection, classification, and measurement of discontinuities. 91m:94004
- Likothanassis, S. D. see Katsikas, S. K.; et al., (Not in MR)
- Noormohammadian, Masoud see Oppel, Ulrich G.; et al., (Not in MR)
- Oppel, Ulrich G. (with Findling, Andreas; Krichbaum, Wilhelm; Kriegelmeier, Sigrid; Noormohammadian, Masoud) ★ A stochastic model for the calculation of multiply scattered LIDAR returns. (Not in MR)
- Pattipati, Krishna R. (with Deb, Somnath; Bar-Shalom, Yaakov; Washburn, Robert B.) Passive multisensor data association using a new relaxation algorithm. (see 91c:90054)
- Polychronopoulos, George (with Tsitsiklis, John N.) Explicit solutions for some simple decentralized detection problems. 91b:93189
- Schwartz, Ira B. Derivation and analysis of a least mean square filter. (Not in MR)
- Tsitsiklis, John N. see Polychronopoulos, George, 91b:93189
- Washburn, Robert B. see Pattipati, Krishna R.; et al., (91c:90054)

94A14 Modulation and demodulation

- Aazhang, Behnaam see Varanasi, Mahesh K., (Not in MR)
- Abdel-Ghaffar, Khaled A. S. (with Weber, Jos H.) Bounds and constructions for runlength-limited error-control block codes. (Not in MR)

- Calderbank, A. R. (with Ozarow, Lawrence H.) Nonequiprobable signaling on the Gaussian channel. 91m:94008
- Fujiwara, Toru see Kasami, Tadao; et al., (Not in MR)
- Hizlan, Murad see Hughes, Brian L., 91e:94007
- Hughes, Brian L. (with Hizlan, Murad) An asymptotically optimal random modem and detector for robust communication. 91e:94007
- Ingemarsson, Ingemar Optimized permutation modulation. (Not in MR)
- Kasami, Tadao (with Takata, Toyoo; Fujiwara, Toru; Lin, Shu) On linear structure and phase rotation invariant properties of block M -PSK modulation codes. (Not in MR)
- Koski, Timo On delta modulators for Gauss-Markov-processes: a normal approximation. 91j:94006
- Lin, Shu see Kasami, Tadao; et al., (Not in MR)
- Naraghi-Pour, Morteza (with Neuhoff, David L.) Convergence of the projection method for an autoregressive process and a matched DPCM code. 91h:94010
- (with Neuhoff, David L.) On the continuity of the stationary state distribution of DPCM. 91j:94007
- Neuhoff, David L. see Naraghi-Pour, Morteza, 91h:94010 and 91j:94007
- Ozarow, Lawrence H. see Calderbank, A. R., 91m:94008
- Takata, Toyoo see Kasami, Tadao; et al., (Not in MR)
- Varanasi, Mahesh K. (with Aazhang, Behnaam) Optimally near-far resistant multiuser detection in differentially coherent synchronous channels. (Not in MR)
- Wasilkowski, G. W. Note on quantization for signals with bounded $(r+1)$ st derivative. 91k:94008
- Weber, Jos H. see Abdel-Ghaffar, Khaled A. S., (Not in MR)

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- Er, M. H. Quadratic optimization problems in robust beamforming. 91i:90046
- Fischer, Thomas Robert see Marcellin, Michael W., 91e:94011
- Marcellin, Michael W. (with Fischer, Thomas Robert) Trellis coded quantization of memoryless and Gauss-Markov sources. 91e:94011
- Verdú, Sergio Computational complexity of optimum multiuser detection. 91e:94009

94A15 Information theory, general [see also 62B10]

- Agrawal, Prabha see Singh, H. R., (Not in MR)
- Allaga, Jorge (with Cerdeira, Hilda A.) Josephson tunneling and information theory. 91c:94010
- Bhatia, P. K. see Taneja, H. C., 91m:94010
- Butzer, Paul L. see Zayed, Ahmed I., et al., 91c:94011
- Cerdeira, Hilda A. see Allaga, Jorge, 91c:94010
- Chang, Chien-L. A minimax approach to computing channel capacity. 91k:94009
- Critchfield, J. P. Information and its metric. 91m:94009
- Dembo, Amir see Ephraim, Yair; et al., 91h:94011
- Ephraim, Yair (with Dembo, Amir; Rabiner, Lawrence R.) A minimum discrimination information approach for hidden Markov modeling. 91h:94011
- Gao, Jian-Ming (with Nakamura, Akira) Logical treatment of nondeterministic information theory. 91d:94006
- Gulati, K. K. (with Rakheja, T. D.) A theorem on symmetry and extreme-zero symmetry in information theory. 91h:94019
- (Haken, Hermann) see Jumarie, Guy, 91h:94012
- Hinsen, Guido see Zayed, Ahmed I., et al., 91c:94011
- Ihara, Shunsuke Capacity of mismatched Gaussian channels with and without feedback. 91a:94011
- Jumarie, Guy ★ Relative information. 91h:94012
- (Klir, G. J.) see Jumarie, Guy, 91h:94012
- Nakamura, Akira see Gao, Jian-Ming, 91d:94006
- Ozarow, Lawrence H. (with Shepp, Larry A.) The exact information complexity of Indian poker. 91f:94008
- Papageorgiou, Anagyrus (with Wasilkowski, G. W.) On the average complexity of multivariate problems. 91h:94020
- Rabiner, Lawrence R. see Ephraim, Yair; et al., 91h:94011
- Rakheja, T. D. see Gulati, K. K., 91h:94019
- Schlaue, M. Lo From generalized entropies to image processing. (Italian summary) 91k:94010
- Shepp, Larry A. see Ozarow, Lawrence H., 91f:94008
- Singh, H. R. (with Agrawal, Prabha) Information theoretic approach for optimum redundancy. (Not in MR)
- Taneja, H. C. (with Bhatia, P. K.) On a generalized mean codeword length for the best 1:1 code. 91m:94010
- Wasilkowski, G. W. see Papageorgiou, Anagyrus, 91h:94020
- Ye, Si Cong The universal information source, universal division, and semantic recognition information. (Chinese. English summary) (Not in MR)
- Zayed, Ahmed I. (with Hinsen, Guido; Butzer, Paul L.) On Lagrange interpolation and Kramer-type sampling theorems associated with Sturm-Liouville problems. 91c:94011

Items with secondary classifications in 94A15

- (Abu-Mostafa, Yaser S.) see Complexity in information theory, 91g:68088
- Ash, Robert B. ★ Information theory. 91k:94001
- Caves, Carlton M. Quantitative limits on the ability of a Maxwell demon to extract work from heat. 91d:82030
- Chios, Paul (with Georgiakis, F. A.) On the choice of a Dirichlet prior distribution for multinomial distribution. (Not in MR)
- Cover, Thomas M. (with Gács, Péter; Gray, Robert M.) Kolmogorov's contributions to information theory and algorithmic complexity. 91h:68085
- Eriksson, Karl-Erik (with Lindgren, Kristian; Månsson, Bengt Å.) ★ Structure, context, complexity, organization. 91c:82031
- Gács, Péter see Cover, Thomas M.; et al., 91h:68085
- Georgiakis, F. A. see Chios, Paul, (Not in MR)
- Gondran, M. Introduction à une théorie formelle de la communication. (English summary) [Introduction to a formal theory of communication] (Not in MR)

- Gray, Robert M. see Longo, Maurizio; et al., 91h:94008 and Cover, Thomas M.; et al., 91h:68085
- (Gubarev, V. V.) see Harmuth, Henning F., 91h:81003
- Harmuth, Henning F. ★ Применение методов теории информации в физике. (Russian) [Application of the methods of information theory in physics] 91h:81003
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- Hizlan, Murad see Hughes, Brian L., 91e:94007
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- Kleyle, Robert M. see de Korvin, André, 91i:90033
- (Kolmogorov, A. N.) see Cover, Thomas M.; et al., 91h:68085
- de Korvin, André (with Kleyle, Robert M.) Goal uncertainty and the supermartingale property in an information feedback loop. 91i:90033
- Li, Lie Zhong (with Liang, Yue) A matrix method for channel capacity and information rate-distortion functions. (Chinese. English summary) 91e:94015
- Liang, Yue see Li, Lie Zhong, 91e:94015
- Lindgren, Kristian see Eriksson, Karl-Erik; et al., 91c:82031
- Longo, Maurizio (with Lookabaugh, Tom D.; Gray, Robert M.) Quantization for decentralized hypothesis testing under communication constraints. 91h:94008
- Lookabaugh, Tom D. see Longo, Maurizio; et al., 91h:94008
- Månsson, Bengt Å. see Eriksson, Karl-Erik; et al., 91c:82031
- Miyamoto, Sadaaki ★ Fuzzy sets in information retrieval and cluster analysis. 91g:04005
- Nicolis, C. see Nicolis, G., 91h:82024
- Nicolis, G. (with Nicolis, C.) Chaotic dynamics, Markovian coarse-graining and information. 91h:82024
- (Noyes, H. Pierre) see Phipps, Thomas E., Jr., 91c:00004
- (Patahinski, A. Z.) see Harmuth, Henning F., 91h:81003
- Phipps, Thomas E., Jr. ★ Heretical verities: mathematical themes in physical description. 91c:00004
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- Staiger, Ludwig Kolmogorov complexity and Hausdorff dimension. 91h:68052
- Tennekes, H. see Wiegierick, W., 91c:58086
- Vincze, István see Puri, Madan Lal, 91g:62007
- Wiegierick, W. (with Tennekes, H.) On the information flow for one-dimensional maps. 91c:58086
- Willems, F. M. J. The maximal-error and average-error capacity region of the broadcast channel are identical: a direct proof. (Russian summary) 91m:94014
- Williams, Susan Notes on renewal systems. 91d:54047

Items listed otherwise than by author

- Complexity in information theory ★ Complexity in information theory. 91g:68088

94A17 Measures of information, entropy

- Ahmad, Haseen On generalized coding theorem for personal probability codes. (Not in MR)
- Berger, Toby (with Ye, Zhong Xing) Entropic aspects of random fields on trees. 91g:94005
- Bhardwaj, J. D. see Singh, Ram Pal, 91j:94011
- Bhatia, P. K. (with Taneja, H. C.) Characterization of a quantitative-qualitative measure of information improvement. (Not in MR)
- Bouches, Bernadette Entropic models: a general framework for measures of uncertainty and information. 91h:94021
- Brown, Donald E. (with Smith, Robert L.) A correspondence principle for relative entropy minimization. 91c:94012
- Bucklew, James A. A note on the absolute epsilon entropy. (Not in MR)
- Byrne, Charles L. see Jones, Lee Kenneth, (Not in MR)
- Cai, Chang Nian see Lin, Xu Duan, 91c:94015
- Chakrabarti, C. G. (with Mukhopadhyay, Violet) On maximum-entropy and related principles in statistical equilibrium. (Not in MR)
- Chen, Shuang see Wong, Kon Max, 91c:94014
- Dacunha-Castelle, D. Some uses of maximum-entropy methods for ill-posed problems in signal and crystallography theories. (see 91j:60004)
- Feldman, Dorian (with Osterreicher, F.) A note on f -divergences. 91g:94006
- Forté, B. (with Hughes, W. P.; Páles, Zs.) Maximum entropy estimators and the problem of moments. (Italian summary) 91f:94009
- Goyal, A. N. see Vyas, R. L., 91d:94023
- Guerre, Emmanuel Estimations non paramétriques de l'entropie d'un processus stationnaire. (English summary) [Nonparametric estimations of the entropy of a stationary process] (Not in MR)
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- Hintz, K. J. (with McVey, E. S.) Multi-process constrained estimation. 91k:94012
- Hughes, W. P. see Forté, B.; et al., 91f:94009
- Jones, Lee Kenneth (with Byrne, Charles L.) Correction to: "General entropy criteria for inverse problems, with applications to data compression, pattern classification and cluster analysis" [IEEE Trans. Inform. Theory 36 (1990), no. 1, 23–30]. (Not in MR)
- Jumarie, Guy Systems, catastrophe, chaos, synergetics. A unified approach via information of deterministic functions. 91d:94007
- Structural entropies of order s and of order (r, s) for deterministic functions with an application of fuzzy set theory. 91j:94009
- An approach to the thermodynamic entropy and temperature of dynamic systems. 91j:94008
- Kallath, Thomas see Lev-Ari, Hanoeh; et al., 91h:94014
- Kapoor, J. N. Maximum-entropy probability distributions when there are inequality constraints on probabilities and equality constraints on moments. 91k:94013
- Kapur, Jagat N. On the range of validity of certain measures of inaccuracy. 91h:94020
- On the basis for relationship between measures of entropy and directed divergences. 91a:94012
- Monkeys and entropies. 91f:94010

- Some new measures of information improvement and total information improvement. (Not in MR)
- Some measures of dispersion for m probability distributions. 91h:94021
- (with Tripathi, G. P.) On trigonometric measures of information. 91h:94022
- see also Kesavan, H. K., 91h:94022 and Seth, Anand K., (Not in MR)
- Katětov, Miroslav On entropy-like functionals and codes for metrized probability spaces. I. 91h:94013
- Kesavan, H. K. (with Kapur, Jagat N.) The generalized maximum entropy principle. 91h:94022
- Lausmaa, T. Information functions on partition systems. (Russian. English and Estonian summaries) 91h:94023
- Lev-Ari, Hanoch (with Parker, Sydney R.; Kailath, Thomas) Multidimensional maximum-entropy covariance extension. 91h:94014
- Lin, Jianhua Divergence measures based on the Shannon entropy. (Not in MR)
- Lin, Xu Duan (with Cai, Chang Nian) Sequences with controllable linear complexity profile. 91h:94015
- Liu, Wen Some properties of the relative entropy density of random information sources. (Chinese) 91h:94024
- Lloyd, Seth Physical measures of complexity. (see 91m:00034)
- Maksa, Gyula The role of boundedness and nonnegativity in characterizing entropies of degree α . 91h:94025
- McVey, E. S. see Hintz, K. J., 91h:94012
- Milhoc, Ion Some properties of the amount of information in the Daróczy sense. 91h:94026
- Mukhopadhyay, Violet see Chakrabarti, C. G., (Not in MR)
- Ohya, Masanori Some aspects of quantum information theory and their applications to irreversible processes. 91c:94008
- Österreicher, F. see Feldman, Dorlan, 91g:94006
- Páles, Zs. see Forte, B.; et al., 91f:94009
- Parker, Sydney R. see Lev-Ari, Hanoch; et al., 91h:94014
- Rathie, K. see Rathie, Pushpa N., (Not in MR)
- Rathie, Pushpa N. (with Rathie, K.) Characterization of entropies. (Not in MR)
- (with Taneja, Inder Jeet) Unified (r, s) -entropy and its bivariate measures. 91h:94014
- Robert, Claudine An entropy concentration theorem: applications in artificial intelligence and descriptive statistics. 91j:94010
- Robert, Raoul Concentration et entropie pour les mesures d'Young. (English summary) [Concentration and entropy for Young measures] 91c:94013
- Sallera, Miquel Entropy measures associated with J -divergences. 91m:94011
- Seth, Anand K. Prof. J. N. Kapur's views on entropy optimization principles. (Not in MR)
- Singh, Ram Pal² (with Bhardwaj, J. D.) On axiomatic characterisation of generalized qualitative measure of variation of information through generating function. 91j:94011
- Smith, Robert L. see Brown, Donald E., 91c:94012
- Taneja, H. C. see Bhatia, P. K., (Not in MR)
- Taneja, Inder Jeet Bounds on the probability of error in terms of generalized information radii. 91c:94009
- see also Rathie, Pushpa N., 91h:94014
- Tripathi, G. P. see Kapur, Jagat N., 91h:94022
- Tyrrgila, I. Ya. Possibilities of the differential impulse-code modulation method, and e -entropy of the classes H_g . (Russian) 91g:94007
- Vyas, R. L. (with Goyal, A. N.) On new measures of entropy satisfying generalized additivity. 91h:94023
- Wan, S. J. see Wong, S. K. M., 91c:94010
- Wong, Kon Max (with Chen, Shuang) The entropy of ordered sequences and order statistics. 91c:94014
- Wong, S. K. M. (with Wan, S. J.) A relationship between mutual information and entropy. 91c:94010
- Ye, Zhong Xing see Berger, Toby, 91g:94005
- Items with secondary classifications in 94A17
- Aazhang, Behnaam see Orsak, Geoffrey C., 91m:65012
- Barbalini, Franco Martingales and information processes. (Italian. English summary) 91d:60121
- Bekenstein, Jacob D. (with Schiffer, Marcelo) Quantum limitations on the storage and transmission of information. 91m:81028
- Berger, Toby (with Ye, Zhong Xing) e -entropy and critical distortion of random fields. 91f:82013
- Caracciolo, Sergio (with Radicati di Brozolo, Luigi A.) Entropy ultrametric for dynamical and disordered systems. (French summary) 91d:58131
- Dinh Dung The Whittaker-Kotelnikov-Shannon theorem, s -entropy and s -dimensionality. 91j:41035
- Ehanks, B. R. Branching inset entropies on open domains. 91c:39009
- Ebeling, Werner (with Schimansky-Geiger, Lutz; Zúlicke, Ch.) Dynamics of networks and pattern processing. 91c:82048
- Ferentinos, K. K. see Zografos, K.; et al., 91c:62006
- Firrao, Sisto On Boltzmann's statistical entropy. 91c:82036
- Frieden, B. Roy Fisher information, disorder, and the equilibrium distributions of physics. 91g:82001
- Fujii, Junichi (with Fujii, Masatoshi; Seo, Yüki) An extension of the Kubo-Ando theory: solidarities. 91d:47016
- (with Nakamura, Masahiro) Operator entropy and fuzziness in noncommutative information theory. 91g:46074
- On informations for fuzzy events by the relative operator entropy. 91g:46075
- Fujii, Masatoshi see Fujii, Junichi; et al., 91d:47016
- Góra, Paweł Differential entropy: continuity properties and applications to nonsingular endomorphisms. 91m:46037
- Janković, Slobodan Ergodic decomposition of entropy. (Serbo-Croatian summary) 91c:28016
- Jones, Lee Kenneth (with Trutzel, V.) On extending the orthogonality property of minimum norm solutions in Hilbert space to general methods for linear inverse problems. 91h:65095
- Kachurovskii, A. G. A metric invariant of entropy type. (Russian) 91c:28021
- Kapur, Jagat N. Noiseless coding theorems corresponding to different measures of entropy. 91f:94025
- Some inequalities involving $\ln x$ and their applications to information theory. 91c:26028
- Levchenkov, V. S. Entropy analysis of majority rule. 91h:94008
- Li, Tien-Yien Entropy. (Chinese. English summary) 91h:00002
- Li, Xing Si Applications of entropy of information in optimization problems. (Chinese) (Not in MR)
- Liu, Wen Relative entropy densities and a class of limit theorems of the sequence of m -valued random variables. 91h:60088
- Losonczi, László On a functional equation of sum form. 91d:39005
- Martens, Haas (with de Muynck, Willem M.) The inaccuracy principle. 91h:81020
- de Muynck, Willem M. see Martens, Haas, 91h:81020
- Nakamura, Masahiro see Fujii, Junichi, 91g:46074
- Orsak, Geoffrey C. (with Aazhang, Behnaam) Constrained solutions in importance sampling via robust statistics. 91m:65012
- Papaioannou, Takis see Zografos, K.; et al., 91c:62006
- Perez, Albert To what extent a Markovian approximation of a process is justified knowing only its first-order transition probabilities. 91j:62009
- Radicati di Brozolo, Luigi A. see Caracciolo, Sergio, 91d:58131
- Resnikoff, Howard L. ★ The illusion of reality. 91m:92001
- Schiffer, Marcelo see Bekenstein, Jacob D., 91m:81028
- Schimansky-Geiger, Lutz see Ebeling, Werner; et al., 91c:82048
- Sengupta, Jati K. Mixed strategy and information theory in optimal portfolio choice. 91m:90018
- Seo, Yüki see Fujii, Junichi; et al., 91d:47016
- Staiger, Ludwig Combinatorial properties of the Hausdorff dimension. 91f:11056
- Tapp, M. C. The Boltzmann function as an embedded property of Liouville's equation. 91g:82029
- Trutzel, V. see Jones, Lee Kenneth, 91h:65095
- Ye, Zhong Xing see Berger, Toby, 91f:82013
- Zografos, K. (with Ferentinos, K. K.; Papaioannou, Takis) Order preserving property of measures of information. 91c:62006
- Zúlicke, Ch. see Ebeling, Werner; et al., 91c:82048
- Zurek, Wojciech Hubert Algorithmic randomness and physical entropy. 91h:82003
- ### 94A24 Coding theorems (Shannon theory)
- Antar, Ram (with Khan, Abul Basar) On generalized coding theorems. 91m:94012
- Baker, Charles R. Coding capacity for a class of additive channels. 91m:94013
- Chen, Ting-Chung A lattice vector quantization using a geometric decomposition. 91h:94027
- Chernysheva, V. A. An estimate for program realization of coding and decoding methods. (Russian. English and Estonian summaries) (Not in MR)
- Cover, Thomas M. On the competitive optimality of Huffman codes. (Not in MR)
- Fuchs, Peter Rudolf (with Hofer, Gerhard; Pilz, Günter) Codes from planar near rings. 91h:94028
- Golomb, Solomon W. see Zhang, Ning, (Not in MR)
- Hofer, Gerhard see Fuchs, Peter Rudolf; et al., 91h:94028
- Khan, Abul Basar see Antar, Ram, 91m:94012
- Lempel, Abraham see Shelwald, Dafna; et al., 91h:94030
- Marutyan, R. Sh. Rates for the multiple description of a source with given exponents and quality levels. 91h:94016
- Ozarow, Lawrence H. Random coding for additive Gaussian channels with feedback. 91h:94029
- Pilz, Günter see Fuchs, Peter Rudolf; et al., 91h:94028
- Propp, Jim A Shannon-McMillan theorem for motley names. 91j:94012
- Shelwald, Dafna (with Lempel, Abraham; Ziv, Jacob) Two-dimensional encoding by finite-state encoders. 91h:94030
- Shields, P. C. Universal almost sure data compression using Markov types. (Russian summary) 91j:94013
- Solov'eva, F. I. Factorization of code-forming DNFs. (Russian) 91a:94013
- Willems, F. M. J. The maximal-error and average-error capacity region of the broadcast channel are identical: a direct proof. (Russian summary) 91m:94014
- Yamamoto, Hiroeoka Coding theorem for secret sharing communication systems with two noisy channels. 91h:94017
- Zhang, Ning (with Golomb, Solomon W.) Uniqueness of the generalized Barker sequence of length 6. (Not in MR)
- Ziv, Jacob see Shelwald, Dafna; et al., 91h:94030
- Items with secondary classifications in 94A24
- Béal, Marie-Pierre The method of poles: a coding method for constrained channels. 91c:94016
- Husøy, John Håkon (with Ramstad, Tor A.) Application of an efficient parallel IIR filter bank to image subband coding. (French and German summaries) (Not in MR)
- Körner, János (with Marton, Katalin) On the capacity of uniform hypergraphs. 91h:05139
- Marton, Katalin see Körner, János, 91h:05139
- Ramstad, Tor A. see Husøy, John Håkon, (Not in MR)
- Shen, Zhong Qi On the CRT over a residue class ring. (Chinese. English summary) 91j:11152
- Stinson, Douglas R. The combinatorics of authentication and secrecy codes. 91d:94015
- ### 94A29 Source coding
- Anantharam, Venkateshram A large deviations approach to error exponents in source coding and hypothesis testing. 91c:94015
- Arutyunyan, E. A. (with Marutyan, R. Sh.) The E -optimal coding rates of a randomly varying source when the decoder has additional information. 91h:94015
- Azenkot, Yehuda see Hertz, David, (Not in MR)
- Berger, Toby (with Yeung, Raymond W.) Multiterminal source encoding with one distortion criterion. 91h:94031

- Chang, Wen Wei (with Gibson, Jerry D.) Path map symbol release rules and the exponential metric tree. 91d:94008
- Cygan, Daniel (with Offer, Elke) Short linear incremental redundancy codes having optimal weight structure profile. (Not in MR)
- Farvardin, Nariman (with Vaishampayan, Vinay) On the performance and complexity of channel-optimized vector quantizers. (Not in MR)
- Fischer, Thomas Robert see Marcellin, Michael W., 91e:94011
- Gibson, Jerry D. see Chang, Wen Wei, 91d:94008
- Gutman, Michael see Merhav, Neri; et al., 91h:94018
- Hertz, David (with Azenkot, Yehuda) On a class of multilevel universal source coding schemes. (Not in MR)
- Kleffer, John C. Comparison of two optimum rates for noiseless encoding of a nonstationary information source. 91k:94016
- Lempel, Abraham see Sheinwald, Dafna; et al., 91k:94017
- Marcellin, Michael W. (with Fischer, Thomas Robert) Trellis coded quantization of memoryless and Gauss-Markov sources. 91e:94011
- Marutyan, R. Sh. see Arutyunyan, E. A., 91k:94015
- Merhav, Neri (with Gutman, Michael; Ziv, Jacob) On the estimation of the order of a Markov chain and universal data compression. 91h:94018
- Offer, Elke see Cygan, Daniel, (Not in MR)
- Pearlman, William A. see Rao, R. Padmanabha, 91m:94015
- Rao, R. Padmanabha (with Pearlman, William A.) On entropy of pyramid structures. 91m:94015
- Sheinwald, Dafna (with Lempel, Abraham; Ziv, Jacob) Compression of pictures by finite state encoders. 91k:94017
- Vaishampayan, Vinay see Farvardin, Nariman, (Not in MR)
- Wu, Xiaolin Optimal bi-level quantization and its application to multilevel quantization. (Not in MR)
- Wyner, Aaron D. (with Ziv, Jacob) Some asymptotic properties of the entropy of a stationary ergodic data source with applications to data compression. 91k:94018
- Yeung, Raymond W. see Berger, Toby, 91h:94031
- Ziv, Jacob Compression, tests for randomness and estimating the statistical model of an individual sequence. 91h:94019
- see also Merhav, Neri; et al., 91h:94018; Sheinwald, Dafna; et al., 91k:94017 and Wyner, Aaron D., 91k:94018

Items with secondary classifications in 94A29

- Ahlsvede, Rudolf (with Burnashev, M. V.) On minimax estimation in the presence of side information about remote data. 91d:62024
- Burnashev, M. V. see Ahlsvede, Rudolf, 91d:62024
- Crutchfield, J. P. Information and its metric. 91m:94009
- Fischer, Thomas Robert see Marcellin, Michael W., 91h:11079
- Fukunaga, Tetsuya (with Murata, Masashi; Kasahara, Masao) Fundamental studies on combined coding for information source and channel. 91m:94017
- Guilloup, Laurent Mesures invariantes sur des ensembles autosimilaires. [Invariant measures on self-similar sets] 91k:60071
- Kasahara, Masao see Fukunaga, Tetsuya; et al., 91m:94017
- Marcellin, Michael W. (with Fischer, Thomas Robert) Encoding algorithms for complex approximations in Z^{2n} . 91h:11079
- Merhav, Neri (with Ziv, Jacob) On universally efficient estimation of the first-order autoregressive parameter and universal data compression. 91h:62124
- Murata, Masashi see Fukunaga, Tetsuya; et al., 91m:94017
- Ohya, Masanori Some aspects of quantum information theory and their applications to irreversible processes. 91e:94008
- Shields, P. C. Universal almost sure data compression using Markov types. (Russian summary) 91j:94013
- Ziv, Jacob see Merhav, Neri, 91h:62124

94A34 Rate-distortion theory

- Abramovich, Yu. I. (with Kachur, V. G.; Mikhailuykov, V. N.) The effectiveness of spatial interference compensation in systems with nonidentical reception channels. (Not in MR)
- Cover, Thomas M. see Equitz, William H. R., 91a:94016
- Equitz, William H. R. (with Cover, Thomas M.) Successive refinement of information. 91m:94016
- Fukunaga, Tetsuya (with Murata, Masashi; Kasahara, Masao) Fundamental studies on combined coding for information source and channel. 91m:94017
- Harrison, Daniel D. (with Modestino, James W.) Analysis and further results on adaptive entropy-coded quantization. (Not in MR)
- Kachur, V. G. see Abramovich, Yu. I.; et al., (Not in MR)
- Kasahara, Masao see Fukunaga, Tetsuya; et al., 91m:94017
- Mikhailuykov, V. N. see Abramovich, Yu. I.; et al., (Not in MR)
- Modestino, James W. see Harrison, Daniel D., (Not in MR)
- Murata, Masashi see Fukunaga, Tetsuya; et al., 91m:94017
- Naraghi-Pour, Morteza (with Neuhoff, David L.) Mismatched DPCM encoding of autoregressive processes. 91h:94032
- Neuhoff, David L. see Naraghi-Pour, Morteza, 91h:94032
- Rajha, S. see Rajha, T., (Not in MR)
- Rajha, T. (with Rajha, S.) The performance of a digital FSK system with actual discriminator: time distortions effects. (Not in MR)

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- Arutyunyan, E. A. (with Marutyan, R. Sh.) The E-optimal coding rates of a randomly varying source when the decoder has additional information. 91k:94015
- Berger, Toby (with Yeung, Raymond W.) Multiterminal source encoding with one distortion criterion. 91h:94031
- (with Ye, Zhong Xing) s-entropy and critical distortion of random fields. 91f:82013
- Chang, Wen Wei (with Gibson, Jerry D.) Path map symbol release rules and the exponential metric tree. 91d:94008
- Gibson, Jerry D. see Chang, Wen Wei, 91d:94008

- Li, Lie Zhong (with Liang, Yue) A matrix method for channel capacity and information rate-distortion functions. (Chinese. English summary) 91e:94015
- Liang, Yue see Li, Lie Zhong, 91e:94015
- Marutyan, R. Sh. see Arutyunyan, E. A., 91k:94015
- Pearlman, William A. see Rao, R. Padmanabha, 91m:94015
- Rao, R. Padmanabha (with Pearlman, William A.) On entropy of pyramid structures. 91m:94015
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- Soma, Mani see You, Hong, (Not in MR)
- Ye, Zhong Xing see Berger, Toby, 91h:94031
- Yeung, Raymond W. see Berger, Toby, 91h:94031
- You, Hong (with Soma, Mani) Crosstalk analysis of interconnection lines and packages in high-speed integrated circuits. (Not in MR)

94A40 Channel models

- Ahlén, Anders see Sternad, Mikael, 91f:94011
- Arapostathis, Aristotle see Hardwicke, Keith, 91e:94017
- Arutyunyan, M. E. E-capacity of an arbitrarily changing channel with information coder. 91k:94019
- Basar, Tamer see Basar, Tangül Ü., 91g:94008
- Basar, Tangül Ü. (with Basar, Tamer) Minimax causal transmission of Gaussian stochastic processes over channels subject to correlated jamming. 91g:94008
- Béal, Marie-Pierre The method of poles: a coding method for constrained channels. 91c:94016
- Belokopytov, A. Ya. Adaptive conflict resolution algorithms in a multiple access channel. 91j:94014
- Beloyarov, A. N. see Tsybakov, B. S., 91f:94024
- Bocharova, L. E. (with Taubin, F. A.) A generalized correlation metric for decoding in a multiple access channel. 91g:94009
- Boyd, Stephen P. see Honig, Michael L.; et al., 91e:94014
- Brilpaal, K. (with Sharma, Bhu Dev) Direct methods for computing the performance of discrete memoryless communication channels. (Not in MR)
- (with Sharma, Bhu Dev) The performance function of a discrete memoryless communication channel. 91g:94010
- (with Sharma, Bhu Dev) Regularizing the augmented cost matrix arising from the performance function of a DMC. (Not in MR)
- Bui Van Thanh On the capacity of arbitrarily varying channels under general state constraints. (Russian summary) 91e:94012
- Chang, Chien-L. (with Fan, Simon C.; Davison, Lee D.) On numerical methods of calculating the capacity of continuous-input discrete-output memoryless channels. 91h:94033
- Csiszár, Imre (with Narayan, Prakash) Capacity of the Gaussian arbitrarily varying channel. 91k:94020
- Davison, Lee D. see Chang, Chien-L.; et al., 91h:94033
- Delsarte, Philippe (with Genin, Y.) The multichannel split Levinson algorithm. 91h:94020
- Dembo, Amir (with Salz, Jack) On the least squares tap adjustment algorithm in adaptive digital echo cancellers. 91e:94013
- Dolgoplov, A. S. Capacity bounds for a channel with synchronization errors. 91g:94011
- Fan, Simon C. see Chang, Chien-L.; et al., 91h:94033
- Farvardin, Nariman A study of vector quantization for noisy channels. (Not in MR)
- Fayolle, Guy Ergodicity and asymptotic behaviour of multi-type branching processes arising in random-access communication systems. (see 91j:60003)
- Genin, Y. see Delsarte, Philippe, 91h:94020
- Gopinath, B. see Honig, Michael L.; et al., 91e:94014
- Gubner, John A. State constraints for the multiple-access arbitrarily varying channel. 91j:94015
- Hajela, Dan (with Honig, Michael L.) Bounds on ϵ -rate for linear, time-invariant, multiinput/multioutput channels. (Not in MR)
- Hardwicke, Keith (with Arapostathis, Aristotle) A minimax approach to the nonlinear equalizability problem. 91e:94017
- Ho, Kelvin K. Y. (with Rao, Ramesh R.; Wolf, Jack Keil) Random-access systems with a time-varying channel. (Not in MR)
- Honig, Michael L. (with Steiglitz, Kenneth; Gopinath, B.; Boyd, Stephen P.) Bounds on maximum throughput for digital communications with finite-precision and amplitude constraints. 91e:94014
- see also Hajela, Dan, (Not in MR)
- Hughes, Brian L. Interleaving and the arbitrarily varying channel. 91m:94018
- Hwang, F. K. see Yao, Yi-Ching, (Not in MR)
- Li, Ch'eng Hui Throughput performance of a set of continuous ARQ strategies for Markov channels. (Chinese summary) (Not in MR)
- Li, Lie Zhong (with Liang, Yue) A matrix method for channel capacity and information rate-distortion functions. (Chinese. English summary) 91e:94015
- Liang, Yue see Li, Lie Zhong, 91e:94015
- Lo, Y. V. Unified field theory for space-time systems. 91a:94014
- Geometrical channel models for space-time systems. 91a:94015
- Madhoo, Upamanyu (with Pursley, Michael B.) Limiting performance of frequency-hop random access. 91k:94021a
- (with Pursley, Michael B.) Correction to: "Limiting performance of frequency-hop random access". 91k:94021b
- (with Pursley, Michael B.) A parallel systems approach to universal receivers. 91m:94019
- Mathys, Peter A class of codes for T active users out of N multiple-access communication system. (Not in MR)
- Morozov, A. K. Reception of recurrent signals in a multipath channel by means of the Viterbi algorithm. 91c:94018
- Narayan, Prakash see Csiszár, Imre, 91k:94020
- Ostrow, Lawrence H. (with Wyner, Aaron D.) On the capacity of the Gaussian channel with a finite number of input levels. (Not in MR)
- Poor, H. Vincent see Zabin, Serena M., 91f:94012

- Pursley, Michael B. *see* Madhow, Upamanyu, 91k:94021a; 91k:94021b and 91m:94019
- Rao, Ramesh R. *see* Ho, Kelvin K. Y.; et al., (Not in MR)
- Salz, Jack *see* Dembo, Amir, 91e:94013
- Sharma, Bhu Dev *see* Brijpaul, K., 91g:94010; (Not in MR) and (Not in MR)
- Sharov, N. N. Upper bounds for the capacity of discrete communication channels. (Russian) (Not in MR)
- Steiglitz, Kenneth *see* Honig, Michael L.; et al., 91e:94014
- Sternad, Mikael (with Ahlén, Anders) The structure and design of realizable decision feedback equalizers for IIR channels with colored noise. 91f:94011
- Taubin, F. A. *see* Bocharova, I. E., 91g:94009
- Tsybakov, B. S. (with Belyarov, A. N.) Random multiple access to a channel with binary "success-failure"-type feedback. 91i:94024
- Verdi, Sergio Multiple-access channels with memory with and without frame synchronism. 91d:94009
- On channel capacity per unit cost. 91d:94010
- Wolf, Jack Keil *see* Ho, Kelvin K. Y.; et al., (Not in MR)
- Wyner, Aaron D. *see* Ozarow, Lawrence H., (Not in MR)
- Yao, Yi-Ching (with Hwang, F. K.) On the cutoff point for pairwise enabling for infinite users in a multiaccess system. (Not in MR)
- Zabin, Serena M. (with Poor, H. Vincent) Recursive algorithms for identification of impulsive noise channels. 91f:94012

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- Arutyunyan, E. A. (with Marutyan, R. Sh.) The E -optimal coding rates of a randomly varying source when the decoder has additional information. 91k:94015
- Aslanis, James T. *see* Kasturia, Sanjay; et al., 91i:94005
- Baker, Charles R. Coding capacity for a class of additive channels. 91m:94013
- Bekenstein, Jacob D. (with Schiffer, Marcelo) Quantum limitations on the storage and transmission of information. 91m:81028
- Biglieri, Ezio *see* Liu, Yow-Jong; et al., (Not in MR)
- Cioffi, John M. *see* Kasturia, Sanjay; et al., 91i:94005
- Colquhoun, D. *see* Hawkes, A. G.; et al., (Not in MR)
- Desmedt, Yvo G. Abuses in cryptography and how to fight them (extended abstract). 91e:94017
- Dragalin, V. P. Asymptotic solution of a signal search problem in a multichannel system. (Russian) 91e:62202
- Drumheller, David Mark (with Ricker, Dennis W.) Receiver-transmitter optimization for detection in doubly spread channels. (Not in MR)
- Falin, G. I. (with Sukharev, Yu. I.) Singularly perturbed equations and an asymptotic study of the stationary characteristics of systems with repeated calls. (Russian) 91f:60162
- Gray, Robert M. *see* Longo, Maurizio; et al., 91b:94008
- Hawkes, A. G. (with Jalali, A.; Colquhoun, D.) The distributions of the apparent open times and shut times in a single channel record when brief events cannot be detected. (Not in MR)
- Ihara, Shunsuke Capacity of mismatched Gaussian channels with and without feedback. 91a:94011
- Jalali, A. *see* Hawkes, A. G.; et al., (Not in MR)
- Kasturia, Sanjay (with Aslanis, James T.; Cioffi, John M.) Vector coding for partial response channels. 91i:94005
- Lin, Mao Chao (with Lin, Shu) Codes with multi-level error-correcting capabilities. 91h:94031
- Liu, Shu *see* Lin, Mao Chao, 91h:94031
- Liu, Yow-Jong (with Oka, Ikuro; Biglieri, Ezio) Error probability for digital transmission over nonlinear channels with application to TCM. (Not in MR)
- Longo, Maurizio (with Lookabaugh, Tom D.; Gray, Robert M.) Quantization for decentralized hypothesis testing under communication constraints. 91b:94008
- Lookabaugh, Tom D. *see* Longo, Maurizio; et al., 91b:94008
- Marutyan, R. Sh. *see* Arutyunyan, E. A., 91k:94015
- Ohya, Masanori Some aspects of quantum information theory and their applications to irreversible processes. 91e:94008
- Oka, Ikuro *see* Liu, Yow-Jong; et al., (Not in MR)
- Ozarow, Lawrence H. Random coding for additive Gaussian channels with feedback. 91h:94029
- Pinsker, M. S. *see* Vvedenskaya, N. D., 91h:68021
- Ricker, Dennis W. *see* Drumheller, David Mark, (Not in MR)
- Schiffer, Marcelo *see* Bekenstein, Jacob D., 91m:81028
- Sukharev, Yu. I. *see* Falin, G. I., 91f:60162
- Vvedenskaya, N. D. (with Pinsker, M. S.) A throughput estimate for FCFS multiple access algorithms. 91h:68021
- Wan, S. J. *see* Wong, S. K. M., 91e:94010
- Willems, F. M. J. The maximal-error and average-error capacity region of the broadcast channel are identical: a direct proof. (Russian summary) 91m:94014
- Wong, S. K. M. (with Wan, S. J.) A relationship between mutual information and entropy. 91e:94010

94A45 Prefix, length-variable, comma-free codes [see also 20M35, 68Q45]

- Berger, Toby (with Yeung, Raymond W.) Optimum "1"-ended binary prefix codes. 91i:94025
- Bernard, Margaret Ann (with Sharma, Bhu Dev) A lower bound on average codeword length of variable length error-correcting codes. (Not in MR)
- Brayère, Véronique (with Wang, Li Min¹; Zhang, Liang) On completion of codes with finite deciphering delay. 91k:94022
- Capocelli, Renato M. (with Gargano, Luisa; Vaccaro, Ugo) Immutability codes. 91a:94016
- Flag encodings related to the Zeckendorf representation of integers. 91a:94017
- (with De Santis, Alfredo) A note on D -ary Huffman codes. (Not in MR)
- De Santis, Alfredo *see* Capocelli, Renato M., (Not in MR)
- Gargano, Luisa *see* Capocelli, Renato M.; et al., 91a:94016
- Gu, Chang Kang *see* Zhang, Liang, 91m:94020

- Hirschberg, Daniel S. *see* Larmore, Lawrence L., 91k:94023
- Larmore, Lawrence L. (with Hirschberg, Daniel S.) A fast algorithm for optimal length-limited Huffman codes. 91k:94023
- Long, Dong Yang k -prefix codes and k -infix codes. (Chinese) 91i:94026
- Markov, Aleksandr Aleksandrovich Systems of equations of the antiprefix property in words. (Russian) 91g:94012
- Restivo, Antonio Codes and automata. 91k:94024
- Sharma, Bhu Dev *see* Bernard, Margaret Ann, (Not in MR)
- Vaccaro, Ugo *see* Capocelli, Renato M.; et al., 91a:94016
- Wang, Li Min¹ *see* Brayère, Véronique; et al., 91k:94022
- Yeung, Raymond W. *see* Berger, Toby, 91i:94025
- Zhang, Liang (with Gu, Chang Kang) Necessary and sufficient conditions of commutatively prefix codes and every-layer-extensible codes. 91m:94020
- *see also* Brayère, Véronique; et al., 91k:94022

Items with secondary classifications in 94A45

- Anily, S. (with Hassin, Refael) Ranking the best binary trees. 91d:68098
- Anselmo, M. Sur les codes zigzag et leur décidabilité. (English summary) [On zigzag codes and their decidability] 91h:68102
- Blanchard, F. Codes engendrant certains systèmes sofiques. (English summary) [Codes generating certain sofic systems] 91c:68067
- Brayère, Véronique Completion of finite codes with finite deciphering delay. 91c:68068
- Hassin, Refael *see* Anily, S., 91d:68098
- Tanaka, Genjiro Alternating product of prefix codes. 91e:68093

94A50 Theory of questionnaires

Items with secondary classifications in 94A50

- Therens, Peter Predicting an optimal threshold in Boolean analysis of questionnaires. 91g:92032

94A55 Shift register sequences

- Boeckx, Dick E. *see* Jansen, Cees J. A., 91f:94013 and (91h:94002)
- Cai, Chang Nian *see* Lin, Xu Duan, (Not in MR)
- Chan, Agnes Hui (with Goresky, R. Mark; Klapper, Andrew) On the linear complexity of feedback registers (extended abstract). (see 91h:94003)
- Dai, Zong Duo (with Zeng, Ken Cheng) Continued fractions and the Berlekamp-Massey algorithm. 91k:94025
- (with Zeng, Ken Cheng) Feedforward functions defined by de Bruijn sequences. (see 91h:94003)
- Dawson, Ed (with Goldburg, Bruce) Universal logic sequences. (see 91h:94002)
- Fabris, Francesco A lower bound on the expected complexity in the set of n -tuples of given weight. 91h:94021
- Feng, Gui Liang (with Tzeng, Kenneth K.) A generalized Euclidean algorithm for multisequence shift-register synthesis. 91g:94013
- Fredericksen, Harold (with Krahn, Gary) A property of linear feedback shift register sequences. 91h:94022
- Goldburg, Bruce *see* Dawson, Ed, (91h:94002)
- Golić, Jovan Dj. *see* Mihaljević, Miodrag J., (91h:94002)
- Gong, Guang Nonlinear generators of binary sequences with controllable complexity and double key. (see 91h:94002)
- Goresky, R. Mark *see* Chan, Agnes Hui; et al., (91h:94003)
- Günther, Christoph G. Parallel generation of recurring sequences. (see 91h:94003)
- Huang, Min Qiang *see* Zeng, Ken Cheng, 91j:94017
- Jansen, Cees J. A. (with Boeckx, Dick E.) The shortest feedback shift register that can generate a given sequence. 91f:94013
- (with Boeckx, Dick E.) A binary sequence generator based on Ziv-Lempel source coding. (see 91h:94002)
- Klapper, Andrew *see* Chan, Agnes Hui; et al., (91h:94003)
- Krahn, Gary *see* Fredericksen, Harold, 91h:94022
- Lin, Xu Duan (with Cai, Chang Nian) Extensions of m sequences and fast generation of a class of M sequences. (Chinese) (Not in MR)
- Mihaljević, Miodrag J. (with Golić, Jovan Dj.) A fast iterative algorithm for a shift register initial state reconstruction given the noisy output sequence. (see 91h:94002)
- Niederreiter, Harald Keystream sequences with a good linear complexity profile for every starting point. (see 91h:94003)
- Rao, T. R. N. *see* Zeng, Ken Cheng; et al., 91j:94016
- Safari-Naini, Reihaneh Parallel generation of pseudo-random sequences. (see 91h:94002)
- Smuster, J. (with Żurawiecki, J.) An equivalence of controlled shift-registers. (Russian summary) 91e:94016
- Tzeng, Kenneth K. *see* Feng, Gui Liang, 91g:94013
- Wang, Muzhong Linear complexity profiles and continued fractions. (see 91h:94003)
- Yang, Chao Hui *see* Zeng, Ken Cheng; et al., 91j:94016
- Zeng, Ken Cheng (with Yang, Chao Hui; Rao, T. R. N.) Large primes in stream cipher cryptography. 91j:94016
- (with Huang, Min Qiang) Solving equations in sequences. 91j:94017
- *see also* Dai, Zong Duo, 91k:94025 and (91h:94003)
- Żurawiecki, J. *see* Smuster, J., 91e:94016

Items with secondary classifications in 94A55

- Chan, Agnes Hui (with Games, Richard A.) On the quadratic spans of de Bruijn sequences. 91i:11014
- Desk, István Uniform random number generators for parallel computers. (Not in MR)
- Games, Richard A. *see* Chan, Agnes Hui, 91i:11014
- Martin, Clyde Franklin (with Stamp, Mark) Constructing polynomials over finite fields. 91e:94020
- Mullen, Gary L. Permutation polynomials and nonsingular feedback shift registers over finite fields. 91f:11085

Sakata, Shojiro. Extension of the Berlekamp-Massey algorithm to N dimensions. 91g:68063
Stamp, Mark. *see* Martin, Clyde Franklin, 91c:94020

94A60 Cryptography [see also 11T71, 68P25]

- Adams, Carlisle M. (with Tavares, Stafford E.) The structured design of cryptographically good S-boxes. 91j:94018
- Alagar, V. S. Range equations and range matrices: a study in statistical database security. (see 91h:94002)
- Anthony, Martin H. G. (with Martin, Keith M.; Seberry, Jennifer R.; Wild, P. R.) Some remarks on authentication systems. 91j:94019
- Apolloni, Bruno (with Cesa-Bianchi, N.; Ronchini, G.) Training neural networks to break the knapsack cryptosystem. (see 91k:68016)
- Beaver, Donald. Multiparty protocols tolerating half faulty processors. 91c:94019
- Bellare, Mihir (with Micali, Silvio) How to sign given any trapdoor function (extended abstract). 91a:94018
- (with Micali, Silvio) Noninteractive oblivious transfer and applications. (see 91b:94002)
- (with Coven, Lenore; Goldwasser, Shafi) On the structure of secret key exchange protocols. (see 91b:94002)
- Ben-Or, Michael (with Goldwasser, Shafi; Kilian, Joe; Wigderson, Avi) Efficient identification schemes using two prover interactive proofs. 91h:94023
- Berardi, Luigi (with Di Fonso, Mario; Eugeni, Franco) Threshold schemes based on criss-cross block designs. 91k:94026
- Some remarks about an electronic signature derived from a generalized RSA-code. (Not in MR)
- Bertelson, Michael (with Brickell, Ernest F.; Ingemarsson, Ingemar) Cryptanalysis of video encryption based on space-filling curves. (see 91h:94003)
- Beutelspacher, Albrecht How to say "no". (see 91h:94003)
- (with Tallini, Giuseppe; Zanella, Corrado) Examples of essentially s -fold secure geometric authentication systems with large s . (Italian summary) 91g:94014
- Blum, Manuel (with Feldman, Paul; Micali, Silvio) Proving security against chosen ciphertext attacks. 91h:94034
- Bostelaers, Antoon. *see* Preneel, Bart; et al., 91c:94024
- Boyar, Joan F. (with Friedl, Katalin; Lund, Carsten) Practical zero-knowledge proofs: giving hints and using deficiencies. (see 91h:94003)
- Brickell, Ernest F. (with Stinson, Douglas R.) The detection of cheaters in threshold schemes. 91a:94019
- (with Davenport, Daniel M.) On the classification of ideal secret sharing schemes (extended abstract). 91h:94024
- Some ideal secret sharing schemes. (see 91h:94003)
- *see also* Bertelson, Michael; et al., (91h:94003)
- Buchmann, Johannes A. (with Williams, Hugh Cowie) A key exchange system based on real quadratic fields (extended abstract). 91f:94014
- Burmester, Mike V. D. (with Piper, F. C.; Desmedt, Yvo G.; Walker, Michael) A general zero-knowledge scheme. (see 91h:94003)
- Cesa-Bianchi, N. *see* Apolloni, Bruno; et al., (91k:68016)
- Chan, Agnes Hui (with Games, Richard A.) On the quadratic spans of periodic sequences. (see 91b:94002)
- Chan, Yung Kit (with Lidl, Rudolf) On implementing elliptic curve cryptosystems. 91k:94027
- Chor, Benny (with Kushilevitz, Eyal) Secret sharing over infinite domains (extended abstract). (see 91b:94002)
- Cleve, Richard. Controlled gradual disclosure schemes for random bits and their applications. (see 91b:94002)
- Cohen Benaloh, Josh (with Leichter, Jerry) Generalized secret sharing and monotone functions. 91a:94020
- Coven, Lenore. *see* Bellare, Mihir; et al., (91b:94002)
- Damgård, Ivan Bjerre. On the existence of bit commitment schemes and zero-knowledge proofs. 91h:94027
- A design principle for hash functions. (see 91b:94002)
- Davenport, Daniel M. *see* Brickell, Ernest F., 91h:94024
- Dawson, Ed. Linear feedback shift registers and stream ciphers. 91c:94020
- Deaurs, C. A. Solution of C-35 texts with partial key overlaps. (Not in MR)
- Dénes, József (with Keedwell, A. D.) On Golomb-Posner codes and a remark of W. W. Wu about secret-sharing systems. 91k:94028
- De Santis, Alfredo (with Micali, Silvio; Persiano, Giuseppe) Noninteractive zero-knowledge with preprocessing. 91a:94021
- Desmedt, Yvo G. Abuses in cryptography and how to fight them (extended abstract). 91c:94017
- Making conditionally secure cryptosystems unconditionally abuse-free in a general context (extended abstract). (see 91b:94002)
- *see also* Burmester, Mike V. D.; et al., (91h:94003)
- De Soete, Marijke (with Quisquater, Jean-Jacques; Vedder, Klaus) A signature with shared verification scheme. (see 91b:94002)
- (with Vedder, Klaus; Walker, Michael) Cartesian authentication schemes. (see 91h:94003)
- Di Fonso, Mario. *see* Berardi, Luigi; et al., 91h:94026
- Ding, Can Sheng. Lower bounds on the weight complexities of cascaded binary sequences. (see 91h:94002)
- Du, Ding Zhu. Lower bounds for weak Byzantine agreement. 91a:94022
- Eugeni, Franco. *see* Berardi, Luigi; et al., 91h:94026
- Even, Shimon (with Goldreich, Oded; Micali, Silvio) On-line/off-line digital signatures. (see 91b:94002)
- Fabris, Francesco. Stream ciphering techniques based on n -tuples juxtaposition sequences. 91h:94035
- Feldman, Frank A. A new spectral test for nonrandomness and the DES. 91d:94011
- Feldman, Paul. *see* Blum, Manuel; et al., 91h:94034
- Feldmeier, David C. (with Karn, Philip R.) UNIX password security—ten years later. (see 91h:94002)
- Fiat, Amos. Batch RSA. (see 91b:94002)
- Findlay, P. A. (with Johnson, B. A.) Modular exponentiation using recursive sums of residues. (see 91b:94002)
- Ferré, Réjane. The strict avalanche criterion: spectral properties of Boolean functions and an extended definition. 91f:94015
- Friedl, Katalin. *see* Boyar, Joan F.; et al., (91h:94003)
- Fuji-Hara, Ryoh. *see* Jimbo, Masakazu, 91h:94038
- Games, Richard A. *see* Chan, Agnes Hui, (91b:94002)
- Goldreich, Oded (with Krawczyk, Hugo) Sparse pseudorandom distributions (extended abstract). 91g:94015
- *see also* Even, Shimon; et al., (91h:94002)
- Goldwasser, Shafi. *see* Ben-Or, Michael; et al., 91h:94023 and Bellare, Mihir; et al., (91h:94002)
- Gong, Li (with Wheeler, David J.) A matrix key-distribution scheme. 91c:94021
- Gotoh, Yasuko (with Takaragi, Kazuo; Sasaki, Ryoichi) A method for rapid RSA key generation. 91j:94020
- Govaerts, René. *see* Preneel, Bart; et al., 91c:94024
- Greenough, H. Paul. Cryptanalysis of the uncaged Hagelin. 91a:94023
- Grodzki, Zdzisław. Deterministic controlled shift-registers. 91b:94036
- Harn, Lein (with Huang, D.; Lai, Chi Sung) Password authentication using public-key cryptography. 91h:94037
- (with Kiesler, Thomas) An efficient probabilistic encryption scheme. 91h:94025
- *see also* Lai, Chi Sung; et al., 91c:94022
- Huang, D. *see* Harn, Lein; et al., 91h:94037
- Huang, Ming-Deh A. (with Teng, Shang-Hua) A universal problem in secure and verifiable distributed computation. 91k:94029
- Hule, Harald (with Müller, Winfried B.) On the RSA-cryptosystem with wrong keys. 91h:94026
- Hwang, Tzonelih (with Rao, T. R. N.) Secret error-correcting codes (SECC). 91k:94030
- *see also* Lai, Chi Sung; et al., 91c:94022
- Imai, Hideki. *see* Zheng, Yuliang; et al., 91c:94025
- Impagliazzo, Russell (with Rudich, Steven) Limits on the provable consequences of one-way permutations. 91h:94028
- Ingemarsson, Ingemar. *see* Bertelson, Michael; et al., (91h:94003)
- Ito, Mitsuru (with Saito, Akira; Nishizeki, Takao) Secret sharing scheme realizing general access structure. 91a:94018
- Itoh, Toshiya. *see* Shiraya, Hiroki; et al., 91h:94029
- Jendal, Hakon N. (with Kuhn, Yves J. B.; Massey, James L.) An information-theoretic treatment of homophonic substitution. (see 91h:94003)
- Jimbo, Masakazu (with Fuji-Hara, Ryoh) Optimal authentication systems and combinatorial designs. 91h:94038
- Johnson, B. A. *see* Findlay, P. A., (91b:94002)
- Karn, Philip R. *see* Feldmeier, David C., (91h:94002)
- Keedwell, A. D. *see* Dénes, József, 91k:94028
- Kiele, William A. A tensor-theoretic enhancement to the Hill cipher system. 91d:94012
- Kiesler, Thomas. *see* Harn, Lein, 91h:94025
- Kilian, Joe. *see* Ben-Or, Michael; et al., 91h:94023
- Koyama, Kenji. *see* Shiraya, Hiroki; et al., 91h:94029
- Krawczyk, Hugo. How to predict congruential generators. 91g:94016
- *see also* Goldreich, Oded, 91g:94015
- Kuhn, Yves J. B. *see* Jendal, Hakon N.; et al., (91h:94003)
- Kumar, I. J. (with Kumari, Meena) Some new mathematical tools in cryptography. 91c:94019
- Kumari, Meena. *see* Kumar, I. J., 91c:94019
- Kushilevitz, Eyal. *see* Chor, Benny, (91b:94002)
- Lai, Chi Sung (with Harn, Lein; Li, Chao Yen; Hwang, Tzonelih) Dynamic threshold scheme based on the definition of cross-product in an N -dimensional linear space. 91c:94022
- *see also* Harn, Lein; et al., 91b:94037
- Lauria, Francesco E. On neurocryptology. (see 91k:68016)
- Leichter, Jerry. *see* Cohen Benaloh, Josh, 91a:94020
- Li, Chao Yen. *see* Lai, Chi Sung; et al., 91h:94022
- Li, Da Xing (with Zhang, Ze Zeng) An attack on a class of public key cryptosystems based on the Euclidean algorithm. (Chinese) (Not in MR)
- Lidl, Rudolf. Some mathematical aspects of recent advances in cryptography. 91b:94039
- *see also* Chan, Yung Kit, 91k:94027
- Lin, Dong Dai (with Liu, Mu Lan) Linear recurring m -arrays. 91f:94016
- Liu, Mu Lan. *see* Lin, Dong Dai, 91f:94016
- Lund, Carsten. *see* Boyar, Joan F.; et al., (91h:94003)
- Magliveras, Spyros S. (with Memon, Nasir D.) The linear complexity profile of cryptosystem PGM. 91d:94013
- Martin, Clyde Franklin (with Stamp, Mark) Constructing polynomials over finite fields. 91c:94020
- (with Stamp, Mark) Classification and realization of pseudo-random number generators. 91h:94040
- Martin, Keith M. *see* Anthony, Martin H. G.; et al., 91j:94019
- Massey, James L. *see* Jendal, Hakon N.; et al., (91h:94003)
- Matsumoto, Tsutomu. *see* Zheng, Yuliang; et al., 91c:94025
- Matsuzaki, Natsumi. *see* Tatebayashi, Makoto; et al., (91b:94002)
- Meier, Willi (with Staffelbach, Othmar) Nonlinearity criteria for cryptographic functions. (see 91h:94003)
- Memon, Nasir D. *see* Magliveras, Spyros S., 91d:94013
- Menezes, Alfred (with Vanstone, Scott) The implementation of elliptic curve cryptosystems. 91j:94021
- Merkle, Ralph C. One way hash functions and DES. 91c:94023
- Micali, Silvio. *see* Bellare, Mihir, 91a:94018; De Santis, Alfredo; et al., 91a:94021; Blum, Manuel; et al., 91h:94034; Even, Shimon; et al., (91b:94002) and Bellare, Mihir, (91h:94002)
- Miyaguchi, Shoji. The FEAL-8 cryptosystem and a call for attack. (see 91h:94002)
- Morita, Hikaru. A fast modular-multiplication algorithm based on a higher radix. (see 91h:94002)
- Müller, Winfried B. *see* Hule, Harald, 91h:94026

- Murphy, Sean The cryptanalysis of FEAL-4 with 20 chosen plaintexts. 91g:94017
- Nam, Kil-Hyun *see* Rao, T. R. N., 91b:94041
- Naor, Moni Bit commitment using pseudo-randomness (extended abstract). (see 91h:94002)
- Newman, David B., Jr. *see* Tatebayashi, Makoto; et al., (91b:94002)
- Niederreiter, Harald A combinatorial approach to probabilistic results on the linear-complexity profile of random sequences. 91g:94018
- Nishizeki, Takao *see* Ito, Mitsuru; et al., 91e:94018
- Ohta, Kazuo (with Okamoto, Tatsuaki) A modification of the Fiat-Shamir scheme. 91a:94024
- *see also* Okamoto, Tatsuaki, 91e:94021 and (91h:94003)
- Okamoto, Tatsuaki (with Ohta, Kazuo) Disposable zero-knowledge authentications and their applications to untraceable electronic cash. 91e:94021
- (with Ohta, Kazuo) Divertible zero knowledge interactive proofs and commutative random self-reducibility. (see 91h:94003)
- A fast signature scheme based on congruential polynomial operations. 91k:94031
- *see also* Ohta, Kazuo, 91a:94024
- Persiano, Giuseppe *see* De Santis, Alfredo; et al., 91a:94021
- Pieprzyk, Józef P. (with Zhang, Xian Mo) Permutation generators of alternating groups. (see 91h:94002)
- Nonlinearity of exponent permutations. (see 91h:94003)
- Piper, F. C. (with Walker, Michael) Linear ciphers and spreads. 91g:94019
- *see also* Burmester, Mike V. D.; et al., (91h:94003)
- Popejntj, Fl. A survey of recent knapsack cryptosystems. (Romanian summary) 91d:94014
- Prenel, Bart (with Bosselaers, Antoon; Govaerts, René; Vandewalle, Joos) A chosen text attack on the modified cryptographic checksum algorithm of Cohen and Huang. 91c:94024
- Quisquater, Jean-Jacques *see* De Soete, Marijke; et al., (91b:94002)
- Rao, T. R. N. (with Nam, Kil-Hyun) Private-key algebraic-code encryptions. 91b:94041
- *see also* Zeng, Ken Cheng; et al., 91e:94022 and Hwang, Tzonelih, 91k:94030
- Ronchini, G. *see* Apolloni, Bruno; et al., (91k:68016)
- Roth, Alvin E. (with Vande Vate, John H.) Random paths to stability in two-sided matching. (Not in MR)
- Rudich, Steven *see* Impagliazzo, Russell, 91i:94028
- Rueppel, Rainer A. On the security of Schnorr's pseudo random generator. (see 91h:94003)
- Safari-Naini, Reihaneh (with Seberry, Jennifer R.) Error-correcting codes for authentication and subliminal channels. 91j:94022
- Saito, Akira *see* Ito, Mitsuru; et al., 91e:94018
- Salomaa, Arto From number theory to cryptography: RSA. (Finnish. English summary) (Not in MR)
- Sasaki, Ryoichi *see* Gotoh, Yasuko; et al., 91j:94020
- Seberry, Jennifer R. *see* Anthony, Martin H. G.; et al., 91j:94019 and Safari-Naini, Reihaneh, 91j:94022
- Selman, Alan L. Complexity issues in cryptography. (see 91j:68004)
- Sgarro, Andrea Are keys best chosen at random? 91f:94017
- Shizuya, Hiroki (with Koyama, Kenji; Itoh, Toshiya) Demonstrating possession without revealing factors and its application. 91i:94029
- Shmueli, Z. *see* Yacobi, Y., (91h:94002)
- Simmons, Gustavus J. Robust shared secret schemes. 91a:94025
- Prepositioned shared secret and/or shared control schemes. (see 91h:94003)
- Stallbach, Othmar *see* Meier, Willi, (91h:94003)
- Stamp, Mark *see* Martin, Clyde Franklin, 91h:94040 and 91e:94020
- Stinson, Douglas R. (with Teirlinck, Luc) A construction for authentication/secret codes from 3-homogeneous permutation groups. 91a:94026
- The combinatorics of authentication and secrecy codes. 91d:94015
- *see also* Brickell, Ernest F., 91a:94019
- Takaragi, Kazuo *see* Gotoh, Yasuko; et al., 91j:94020
- Tallini, Giuseppe *see* Beutelspacher, Albrecht; et al., 91g:94014
- Tanaka, Hatsuaki A realization scheme for the identity-based cryptosystem. (Not in MR)
- Tatebayashi, Makoto (with Matsuzaki, Natsume; Newman, David B., Jr.) Key distribution protocol for digital mobile communication systems. (see 91h:94002)
- Tavares, Stafford E. *see* Adams, Carlisle M., 91j:94018
- Teirlinck, Luc *see* Stinson, Douglas R., 91a:94026
- Teng, Shang-Hua *see* Huang, Ming-Deh A., 91k:94029
- Unterwiesing, Harald A department threshold scheme based on algebraic equations. 91h:94027
- Vande Vate, John H. *see* Roth, Alvin E., (Not in MR)
- Vandewalle, Joos *see* Prenel, Bart; et al., 91c:94024
- Vanstone, Scott *see* Menezes, Alfred, 91j:94021
- Vedder, Klaus *see* De Soete, Marijke; et al., (91b:94002) and (91h:94003)
- Walker, Michael Information-theoretic bounds for authentication schemes. 91g:94020
- *see also* Piper, F. C., 91g:94019; Burmester, Mike V. D.; et al., (91h:94003) and De Soete, Marijke; et al., (91h:94003)
- Wheeler, David J. *see* Gong, Li, 91c:94021
- Wiener, Michael J. Cryptanalysis of short RSA secret exponents. 91f:94018
- Wigderson, Avi *see* Ben-Or, Michael; et al., 91h:94023
- Wild, P. R. *see* Anthony, Martin H. G.; et al., 91j:94019
- Williams, Hugh Cowie *see* Buchmann, Johannes A., 91f:94014
- Yacobi, Y. (with Shmueli, Z.) On key distribution systems. (see 91h:94002) (Not in MR)
- Yang, Chao Hui *see* Zeng, Ken Cheng; et al., 91e:94022
- Yang, Yi Xian K-M sequence is forwardly predictable. (see 91h:94002)
- Zanella, Corrado *see* Beutelspacher, Albrecht; et al., 91g:94014
- Zeng, Ken Cheng (with Yang, Chao Hui; Rao, T. R. N.) On the linear consistency test (LCT) in cryptanalysis with applications. 91e:94022
- Zhang, Xian Mo *see* Pieprzyk, Józef P., (91h:94002)
- Zhang, Ze Zeng *see* Li, Da Xing, (Not in MR)
- Zheng, Yuliang (with Matsumoto, Tsutomu; Imai, Hideki) On the construction of block ciphers provably secure and not relying on any unproved hypotheses (extended abstract). 91c:94025
- Items with secondary classifications in 94A60
- Abadi, Martin (with Allender, Eric W.; Broder, Andrei Z.; Feigenbaum, Joan; Hemachandra, Lane A.) On generating solved instances of computational problems. 91e:68049
- (with Feigenbaum, Joan) Secure circuit evaluation. A protocol based on hiding information from an oracle. 91f:68079
- Abeles, Francine *see* Lipson, Stanley H., 91b:91044
- Akritis, Alkiviadis G. ★ Elements of computer algebra with applications. 91k:68099
- Allender, Eric W. *see* Abadi, Martin; et al., 91e:68049
- Atkinson, M. D. (with Negro, Alberto; Santoro, Nicola) Sums of lexicographically ordered sets. 91m:90136
- Bellare, Mihir (with Goldwasser, Shafi) New paradigms for digital signatures and message authentication based on noninteractive zero knowledge proofs. (see 91h:94002)
- Bender, Andreas (with Castagnoli, Guy) On the implementation of elliptic curve cryptosystems. 91d:11154
- Bernstein, Greg M. (with Lieberman, M. A.) Secure random number generation using chaotic circuits. (Not in MR)
- Beth, Thomas (with Dai, Zong Duo) On the complexity of pseudo-random sequences—or: If you can describe a sequence it can't be random. (see 91h:94003)
- Boyar, Joan F. (with Peralta, René) On the concrete complexity of zero-knowledge proofs. 91h:68060
- (with Kurtz, Stuart A.; Krentel, Mark W.) A discrete logarithm implementation of perfect zero-knowledge blobs. 91m:68073
- (Brassard, Gilles) *see* Advances in cryptography—CRYPTO '89, 91h:94002
- Broder, Andrei Z. *see* Abadi, Martin; et al., 91e:68049
- Castagnoli, Guy *see* Bender, Andreas, 91d:11154
- Chan, Agnes Hui (with Goresky, R. Mark; Klapper, Andrew) On the linear complexity of feedback registers. (Not in MR)
- Chen, Wei Min *see* Xao, Qing Da; et al., (Not in MR)
- Colbourn, Charles J. (with van Oorschot, Paul C.) Applications of combinatorial designs in computer science. 91g:68078
- Dai, Zong Duo *see* Beth, Thomas, (91h:94003)
- Damgård, Ivan Bjerre On the randomness of Legendre and Jacobi sequences. 91d:11155
- Davida, George I. (with Desmedt, Yvo G.) Cryptography based data security. 91h:68039
- De Santis, Alfredo (with Micali, Silvio; Persiano, Giuseppe) Removing interaction from zero-knowledge proofs. 91h:68036
- Desmedt, Yvo G. *see* Davida, George I., 91h:68039
- Feige, U. (with Shamir, Adi) Zero knowledge proofs of knowledge in two rounds. 91f:68062
- Feigenbaum, Joan *see* Abadi, Martin; et al., 91e:68049 and 91f:68079
- Fushimi, Masanori Random number generation with the recursion $X_i = X_{i-1} \oplus X_{i-2}$. 91f:65012
- Gaarde, Klaus (with Sneekenes, Einar) On the formal analysis of PKCS authentication protocols. 91k:68039
- Giraault, Marc (with Toffin, Philippe; Vallée, Brigitte) Computation of approximate L th roots modulo n and application to cryptography. 91d:11156
- Goldwasser, Shafi *see* Bellare, Mihir, (91h:94002)
- Goresky, R. Mark *see* Chan, Agnes Hui; et al., (Not in MR)
- Hardjono, Thomas Record encryption in distributed databases. 91j:68032
- Hemachandra, Lane A. *see* Abadi, Martin; et al., 91e:68049
- Huber, Klaus Some comments on Zech's logarithms. 91e:11148
- Imai, Hideki *see* Zheng, Yuliang; et al., (91h:94003)
- Itoh, Toshiya An efficient probabilistic algorithm for solving quadratic equation over finite fields. 91h:11190
- Jackson, T. H. ★ From number theory to secret codes. 91h:11146
- Kak, Subhash C. The Vararuchi cipher. 91b:91020
- Klapper, Andrew *see* Chan, Agnes Hui; et al., (Not in MR)
- Koblitz, Neal Three practical applications of algebraic curves over finite fields. (Chinese summary) 91d:11157
- A family of Jacobians suitable for discrete log cryptosystems. 91g:11153
- Krentel, Mark W. *see* Boyar, Joan F.; et al., 91m:68073
- Kurtz, Stuart A. *see* Boyar, Joan F.; et al., 91m:68073
- Leclerc, Matthias Chinesische Reste und moderne Kryptographie. [Chinese remainders and modern cryptography] 91d:11163
- Li, Lian Di *see* Xao, Qing Da; et al., (Not in MR)
- Lidl, Rudolf (with Müller, Winfried B.) A note on strong Fibonacci pseudoprimes. 91k:11012
- Lieberman, M. A. *see* Bernstein, Greg M., (Not in MR)
- Lipson, Stanley H. (with Abeles, Francine) The matrix cipher of C. L. Dodgson. 91b:01044
- Luby, Michael (with Rackoff, Charles) A study of password security. 91a:68053
- Magajna, Bojan Cryptography. (Slovenian. English summary) (Not in MR)
- Matsui, Kineo *see* Nakamura, Yasuhiro, 91a:68054
- Matsumoto, Tsutomu *see* Zheng, Yuliang; et al., (91h:94003)
- Micali, Silvio (with Schnorr, C.-P.) Efficient, perfect random number generators. 91d:68051
- *see also* De Santis, Alfredo; et al., 91h:68036
- Müller, Winfried B. *see* Lidl, Rudolf, 91k:11012
- Nakamura, Yasuhiro (with Matsui, Kineo) Dual reduction method of random keys for encryption by graph transformation. 91a:68054
- Negro, Alberto *see* Atkinson, M. D.; et al., 91m:90136
- Nishimura, Kazuo (with Sibuya, Masaaki) Probability to meet in the middle. 91f:68036
- van Oorschot, Paul C. *see* Colbourn, Charles J., 91g:68078
- Peralta, René *see* Boyar, Joan F., 91h:68060
- Persiano, Giuseppe *see* De Santis, Alfredo; et al., 91a:94021
- (Pieprzyk, Józef P.) *see* Advances in cryptography—AUSCRYPT '90, 91h:94002
- (Quisquater, Jean-Jacques) *see* Advances in cryptography—EUROCRYPT '89, 91h:94003
- Rackoff, Charles *see* Luby, Michael, 91a:68053
- Rao, T. R. N. *see* Zeng, Ken Cheng; et al., 91j:94016
- Salomaa, Arto ★ Public-key cryptography. 91j:94001
- Many aspects of formal languages. (Not in MR)
- Santoro, Nicola *see* Atkinson, M. D.; et al., 91m:90136

- Schaerr, C.-P. *see* Micalli, Silvio, 91d:68051
 (Seberry, Jennifer R.) *see* Advances in cryptography—AUSCRYPT '90, 91h:94002
 Shamir, Adi *see* Felge, U., 91f:68062
 Shibuya, Masaaki *see* Nishimura, Kazuo, 91f:68036
 Sneekens, Einar *see* Gaarder, Klaus, 91k:68039
 Sun, Qi (with Xiao, Rong) A kind of good elliptic curve used to set up cryptosystem. 91d:11158
 Toffin, Philippe *see* Girault, Marc; et al., 91d:11156
 Vallée, Brigitte *see* Girault, Marc; et al., 91d:11156
 (Vandewalle, Joos) *see* Advances in cryptography—EUROCRYPT '89, 91h:94003
 Xiao, Qing Da (with Li, Lian Di; Chen, Wei Min) A strongly secure cryptographic protocol. (Chinese. English summary) (Not in MR)
 Xiao, Rong *see* Sun, Qi, 91d:11158
 Yang, Chao Hui *see* Zeng, Ken Cheng; et al., 91j:94016
 Zeng, Ken Cheng (with Yang, Chao Hui; Rao, T. R. N.) Large primes in stream cipher cryptography. 91j:94016
 Zheng, Yuliang (with Matsumoto, Tautomu; Imai, Hideki) Impossibility and optimality results on constructing pseudorandom permutations (extended abstract). (see 91h:94003)

Items listed otherwise than by author

- Advances in cryptography—AUSCRYPT '90 ★ Advances in cryptography—AUSCRYPT '90. 91h:94002
 Advances in cryptography—CRYPTO '89 ★ Advances in cryptography—CRYPTO '89. 91h:94002
 Advances in cryptography—EUROCRYPT '89 ★ Advances in cryptography—EUROCRYPT '89. 91h:94003
 Conference:
 Theory and Applications of Cryptology ★ Advances in cryptography—CRYPTO '89. 91h:94002
 Houthalen ★ Advances in cryptography—EUROCRYPT '89. 91h:94003
 Lecture Notes in Computer Science ★ Advances in cryptography—CRYPTO '89. 91h:94002
 — ★ Advances in cryptography—AUSCRYPT '90. 91h:94002
 — ★ Advances in cryptography—EUROCRYPT '89. 91h:94003
 Santa Barbara, CA ★ Advances in cryptography—CRYPTO '89. 91h:94002
 Sydney ★ Advances in cryptography—AUSCRYPT '90. 91h:94002
 Workshop:
 Theory and Application of Cryptographic Techniques ★ Advances in cryptography—AUSCRYPT '90. 91h:94002
 — ★ Advances in cryptography—EUROCRYPT '89. 91h:94003

94A99 None of the above, but in this section

- Golomb, Solomon W. *see* Zhang, Ning, 91c:94026
 Zhang, Ning (with Golomb, Solomon W.) A limit theorem for n -phase Barker sequences. 91c:94026
 Items with secondary classifications in 94A99
 Barashko, A. S. On the theory of signature analyzers. 91g:68036
 Bromfield, A. J. (with Piper, F. C.) Linear recursion properties of uncorrelated binary sequences. 91f:05020
 Hall, Eric B. (with Wise, Gary L.) A curiousum concerning discrete time convolution. 91f:40004
 Piper, F. C. *see* Bromfield, A. J., 91f:05020
 Plaskota, L. On average case complexity of linear problems with noisy information. 91f:55217
 Simmons, Gustavus J. Sharply focused sets of lines on a conic in PG(2, q). 91c:51012
 Wise, Gary L. *see* Hall, Eric B., 91f:40004

94Bxx Theory of error-correcting codes

- van der Geer, Gerard *see* van Lint, Jacobus H., 91c:94023
 van Lint, Jacobus H. (with van der Geer, Gerard) ★ Introduction to coding theory and algebraic geometry. 91c:94023
 Wiggert, Djimtri ★ Codes for error control and synchronization. 91k:94032

Items with secondary classifications in 94Bxx

- Blaum, Mario *see* Bruck, Jehoshua, 91c:92002
 Bruck, Jehoshua (with Blaum, Mario) Neural networks, error-correcting codes, and polynomials over the binary n -cube. 91c:92002
 Goepa, V. D. ★ Geometry and codes. 91a:14013
 Humphreys, J. F. (with Prest, M. Y.) ★ Numbers, groups and codes. 91a:00005
 Prest, M. Y. *see* Humphreys, J. F., 91a:00005
 (Shartse, N. G.) *see* Goepa, V. D., 91a:14013

94B05 Linear codes, general

- Aaltonen, Matti A new upper bound on nonbinary block codes. 91c:94024
 Abdullaeva, N. D. Organization of chains in an n -dimensional cube by the methods of coding theory. (Russian) 91f:94019
 van den Akker, J. M. (with Koolen, J. H.; Vaessens, R. J. M.) Perfect codes with distinct protective radii. 91c:94027
 Al-Bassam, Sulaiman (with Bose, Bella) On balanced codes. 91h:94042
 Balakrishna, V. B. An asymptotic lower bound for the free distance of constant linear convolutional codes with rate $1/n_0$. 91m:94021
 Blake, Ian F. (with Kith, Khua) On the complete weight enumerator of Reed-Solomon codes. 91h:94033
 Blinovskii, V. M. Asymptotically sharp uniform estimates for coset spectra of linear codes. 91h:94043
 — On the covering of a Hamming space with translations of sets by vectors of a linear code. 91m:94022

- Blinck, Frank J. H. (with van Tilborg, Henk C. A.) Constructions and bounds for systematic EC/AUED codes. (Not in MR)
 Bose, Bella *see* Al-Bassam, Sulaiman, 91h:94042
 Browner, Andries E. (with Shearer, James B.; Sloane, N. J. A.; Smith, Warren D.) A new table of constant weight codes. 91h:94028
 Brualdi, Richard A. (with Pless, Vera S.) On the length of codes with a given covering radius. 91c:94025
 — (with Pless, Vera S.) Subcodes of Hamming codes. 91a:94027
 — (with Pless, Vera S.) Orphans of the first order Reed-Muller codes. 91h:94044
 Bruck, Jehoshua (with Naor, Moni) The hardness of decoding linear codes with preprocessing. (Not in MR)
 Bussemaker, F. C. (with Tonchev, Vladimir D.) Extremal doubly-even codes of length 40 derived from Hadamard matrices of order 20. 91d:94016
 Calderbank, A. R. (with Frankl, Peter) Binary codes and quasisymmetric designs. 91h:94029
 Chen, Wen De (with Honkala, Iiro S.) Lower bounds for q -ary covering codes. 91m:94023
 Chen, Zhi (with Fan, Ping Zhi; Jin, Fan) New results on self-orthogonal unequal error protection codes. (Not in MR)
 Cheung, Kar-Ming Identities and approximations for the weight distribution of q -ary codes. (Not in MR)
 Clark, W. Edwin (with Dunning, L. A.; Rogers, D. G.) Binary set functions and parity check matrices. 91c:94028
 Coffey, John T. (with Goodman, Rodney M.) Any code of which we cannot think is good. 91h:94034
 Conway, J. H. (with Sloane, N. J. A.) Orbit and coset analysis of the Golay and related codes. 91k:94035
 — (with Sloane, N. J. A.) A new upper bound on the minimal distance of self-dual codes. 91m:94024
 Davydov, A. A. (with Tombak, Leonid M.) Quasiperfect linear binary codes with distance 4 and complete caps in projective geometry. 91a:94028
 Deza, Michel-Marie *see* Hamada, Noboru, 91a:94030
 Dodunekov, S. M. A remark on the weight structure of generating matrices of linear codes. 91h:94030
 Drienecourt, Yves (with Stichtenoth, Henning) A criterion for self-duality of geometric codes. 91c:94029
 Dumer, I. I. Asymptotically optimal linear codes for correcting defects of linearly increasing multiplicity. 91g:94021
 Dunning, L. A. *see* Clark, W. Edwin; et al., 91c:94028
 Dyachkov, A. G. (with Rykov, V. V.; Rashad, Ahmed M.) Superimposed distance codes. (Russian summary) 91c:94026
 Fan, Ping Zhi *see* Chen, Zhi; et al., (Not in MR)
 Frankl, Peter *see* Calderbank, A. R., 91h:94029
 Goodman, Rodney M. *see* Coffey, John T., 91h:94034
 Hamada, Noboru (with Deza, Michel-Marie) A survey of recent works with respect to a characterization of an $(n, k, d; q)$ -code meeting the Griesmer bound using a min-hyper in a finite projective geometry. 91a:94030
 Helleseth, Tor *see* Ytrehus, Øyvind, 91a:94034
 Hill, Raymond (with Traynor, Karen L.) The nonexistence of certain binary linear codes. 91g:94022
 Honkala, Iiro S. *see* Chen, Wen De, 91m:94023
 Hou, Xiang Dong New lower bounds for covering codes. 91c:94029
 — Some results on the norm of codes. (Not in MR)
 — Binary linear quasi-perfect codes are normal. (Not in MR)
 Huffman, W. Cary On the equivalence of codes and codes with an automorphism having two cycles. 91h:94031
 — On extremal self-dual quaternary codes of lengths 18 to 28. I. 91g:94023
 — On 3-elements in monomial automorphism groups of quaternary codes. 91g:94024
 Iverson, D. M. *see* Venkov, B. B., (Not in MR)
 Jha, N. K. A new class of symmetric error correcting/unidirectional error detecting codes. 91h:94045
 Jin, Fan *see* Chen, Zhi; et al., (Not in MR)
 Kapralov, S. N. (with Tonchev, Vladimir D.) Extremal doubly-even codes of length 64 derived from symmetric designs. 91d:94017
 Kasahara, Masao *see* Tokiwa, Kinichiro, 91f:94021
 Khachatryan, G. G. (with Shamoyan, G. A.) Determination of the probability of correct decoding of a class of linear codes for a binary symmetric channel. (Russian. Armenian summary) 91c:94030
 Kith, Khua *see* Blake, Ian F., 91h:94033
 Klemm, Michael Selbstduale Codes über dem Ring der ganzen Zahlen modulo 4. [Self-dual codes over the ring of integers modulo 4] 91a:94031
 — Eine Invarianzgruppe für die vollständige Gewichtsfunktion selbstdualer Codes. [An invariance group for the complete weight function of self-dual codes] 91a:94032
 Knörr, Reinhard (with Willems, Wolfgang) The automorphism groups of generalized Reed-Muller codes. 91h:94030
 Koley, E. (with Manev, N. L.) The binary weight distribution of an extended $[2^m, 5]$ Reed-Solomon code and its dual. (Not in MR)
 Koolen, J. H. *see* van den Akker, J. M.; et al., 91c:94027
 Kumar, B. V. K. Vijaya *see* Montgomery, Bruce L., 91d:94018
 Kundu, Sandip (with Reddy, Sudhakar M.) On symmetric error correcting and all unidirectional error detecting codes. 91h:94032
 Lachaud, Gilles The parameters of projective Reed-Muller codes. (French summary) 91g:94025
 Lam, Clement W. H. (with Pless, Vera S.) There is no $(24, 12, 10)$ self-dual quaternary code. 91f:94033
 Lia, Mao Chao (with Lin, Shu) Codes with multi-level error-correcting capabilities. 91h:94031
 — Bounds on the undetected error probabilities of linear codes for both error correction and detection. (Not in MR)
 — A generalization of Justesen codes. (Chinese summary) 91f:94020
 Lin, Shu *see* Lin, Mao Chao, 91h:94031

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- Malyutin, A. A. Fast correlation decoding of some subsets of words of the first-order Reed-Muller code. (Russian) 91m:94025
- Manev, N. L. *see* Kolev, E., (Not in MR)
- Montgomery, Bruce L. (with Kumar, B. V. K. Vijaya) Systematic random error correcting and all unidirectional error detecting codes. 91d:94018
- Moreno, Oscar (with Rubio, Ivelisse; Velazquez, Ivan) On the number of information symbols of binary separable Goppa codes. 91a:94033
- Nasr, Moni *see* Bruck, Jehoshua, (Not in MR)
- Nikolov, Dimitris Theory and design of t -error correcting/ d -error detecting ($d > t$) and all unidirectional error detecting codes. 91m:94026
- Perry, Patrick Necessary conditions for good error detection. (Not in MR)
- Pless, Vera S. *see* Brualdi, Richard A., 91a:94027; 91b:94044; 91c:94025 and Lam, Clement W. H., 91i:94033
- Răduică, Mihaela Quasidual codes. 91c:94027
- Rashad, Ahmed M. *see* Dyachkov, A. G.; et al., 91c:94026
- Reddy, Sudhakar M. *see* Kunda, Sandip, 91i:94032
- Rogers, D. G. *see* Clark, W. Edwin; et al., 91c:94028
- Rubio, Ivelisse *see* Moreno, Oscar; et al., 91a:94033
- Ryan, Charles T. (with Ryan, Kevin M.) The minimum weight of the Grassmann codes $C(k, n)$. 91m:94027
- Ryan, Kevin M. *see* Ryan, Charles T., 91m:94027
- Rykov, V. V. *see* Dyachkov, A. G.; et al., 91c:94026
- Shamoyan, G. A. *see* Khachatryan, G. G., 91c:94030
- Shearer, James B. *see* Brouwer, Andries E.; et al., 91h:94028
- Sloane, N. J. A. *see* Brouwer, Andries E.; et al., 91h:94028; Conway, J. H., 91k:94035 and 91m:94024
- Smith, Warren D. *see* Brouwer, Andries E.; et al., 91h:94028
- Solov'eva, F. I. A class of binary densely packed codes that can be generated by q -ary codes. (Russian) (Not in MR)
- Stichtenoth, Henning *see* Driencourt, Yves, 91a:94029
- van Tilborg, Henk C. A. *see* Böhneck, Frank J. H., (Not in MR)
- Tokita, Kinichiroh (with Kasahara, Masao) Notes on nonzero-element distribution of maximum distance separable codes. 91f:94021
- Tombak, Leonid M. *see* Davydov, A. A., 91a:94028
- Tonchev, Vladimir D. *see* Bussemaker, F. C., 91d:94016 and Kapralov, S. N., 91d:94017
- Traynor, Karen L. *see* Hill, Raymond, 91g:94022
- Vaessens, R. J. M. *see* van den Akker, J. M.; et al., 91c:94027
- Velazquez, Ivan *see* Moreno, Oscar; et al., 91a:94033
- Venkov, B. B. (with Ivanov, D. M.) Combinatorial properties of extremal doubly even codes of length 48. (Russian) (Not in MR)
- Ward, Harold N. Weight polarization and divisibility. 91i:94034
- van Wee, Gerhard J. M. *see* Lobstein, Antoine-C., (Not in MR)
- Willems, Wolfgang *see* Kötter, Reinhard, 91h:94030
- Ytrehus, Øyvind (with Helleseth, Tor) There is no binary $[28, 8, 10]$ code. 91a:94034
- Binary $[18, 11]$ codes do not exist—nor do $[64, 53]$ codes. (Not in MR)
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- Akritis, Alkiviadis G. ★ Elements of computer algebra with applications. 91k:68099
- Assmus, E. F., Jr. On the theory of designs. 91c:50526
- Avis, David On the complexity of isometric embedding in the hypercube. 91k:68079
- Blaum, Mario (with Bruck, Jehoshua) Simple combinatorial decoding of the $[23, 12, 7]$ Golay code. 91k:94037
- Blokhuis, Aart (with Bruen, A. A.; Thas, Joseph A.) Arcs in $PG(n, q)$, MDS-codes and three fundamental problems of B. Segre—some extensions. 91j:51016
- Bruck, Jehoshua *see* Blaum, Mario, 91k:94037
- Bruen, A. A. *see* Blokhuis, Aart; et al., 91j:51016
- Card, Howard C. *see* Zarowski, Christopher J., 91i:11181
- Chakravarti, I. M. Families of codes with few distinct weights from singular and nonsingular Hermitian varieties and quadrics in projective geometries and Hadamard difference sets and designs associated with two-weight codes. 91c:51007
- Charpin, Pascale Codes cycliques étendus affines-invariants et antichaines d'un ensemble partiellement ordonné. (English summary) [Affine-invariant extended cyclic codes and antichains of a partially ordered set] 91c:94030
- Dénes, József (with Keedwell, A. D.) On Golomb-Posner codes and a remark of W. W. Wu about secret-sharing systems. 91k:94028
- von zur Gathen, Joachim Maximal bilinear complexity and codes. 91i:68061
- Gravano, S. Decoding the triple-error-correcting $(15, 5)$ binary BCH code by the analytic solution of the cubic error-locator polynomial over $GF(2^4)$. 91b:94049
- Hall, Marshall, Jr. Codes and existence theorems. 91j:05016
- Hirschfeld, J. W. P. Codes and curves. 91j:94025
- Kasapshitskaya, M. F. *see* Sergienko, I. V., 91a:54042
- Keedwell, A. D. *see* Dénes, József, 91k:94028
- Lachaud, Gilles Exponential sums and the Carlitz-Uchiyama bound. 91b:11144
- Lin, Mao Chao Some results on cyclic UEP codes. 91c:94031
- Nam, Kil-Hyun *see* Rao, T. R. N., 91b:94041
- Nomura, Kazumasa Distance-regular graphs of Hamming type. 91m:05159
- Rao, T. R. N. (with Nam, Kil-Hyun) Private-key algebraic-code encryptions. 91b:94041
- Retter, Charles T. Intersecting Goppa codes. 91k:94054
- Safari-Nalini, Reihaneh (with Seberry, Jennifer R.) Error-correcting codes for authentication and subliminal channels. 91i:94022
- Sakata, Shojiro Extension of the Berlekamp-Massey algorithm to N dimensions. 91g:68063

- Seberry, Jennifer R. *see* Safari-Nalini, Reihaneh, 91j:94022
- Sergienko, I. V. (with Kasapshitskaya, M. F.) A metric on a permutation set. (Russian. English summary) 91a:54042
- Skorobogatov, A. N. (with Vládut, Sergei G.) On the decoding of algebraic-geometric codes. 91i:94042
- Solé, Patrick An inversion formula for Krawtchouk polynomials with applications to coding theory. 91h:33005
- Stichtenoth, Henning *see* Voss, Conny, 91b:94048
- Thas, Joseph A. *see* Blokhuis, Aart; et al., 91j:51016
- Tonchev, Vladimir D. Self-orthogonal designs. 91i:95026
- Vládut, Sergei G. *see* Skorobogatov, A. N., 91i:94042
- van der Vliet, Marcel The true dimension of certain binary Goppa codes. 91b:94047
- Voss, Conny (with Stichtenoth, Henning) Asymptotically good families of subfield subcodes of geometric Goppa codes. 91b:94048
- Zarowski, Christopher J. (with Card, Howard C.) On addition and multiplication with Hensel codes. 91i:11181

94B10 Convolutional codes

- Balla, Mark *see* Justesen, Jørn; et al., (Not in MR)
- Bégin, Guy (with Haccoun, David) High-rate punctured convolutional codes: structure properties and construction technique. 91c:94028
- Blaum, Mario *see* Fuja, Tom; et al., 91a:94035
- Fuja, Tom (with Heegard, Chris; Blaum, Mario) Cross parity check convolutional codes. 91a:94035
- Haccoun, David *see* Bégin, Guy, 91c:94028
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- Hole, Kjell Jørgen Punctured convolutional codes for the 1-D partial-response channel. (Not in MR)
- Imai, Hideki *see* Saito, Osamu, (Not in MR)
- Justesen, Jørn (with Pasmke, Erik; Balla, Mark) Quasi-cyclic unit memory convolutional codes. (Not in MR)
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Items with secondary classifications in 94B10

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- An asymptotic lower bound for the free distance of constant linear convolutional codes with rate $1/n_0$. 91m:94021
- Kløve, Torleiv Bounds and constructions of disjoint sets of distinct difference sets. 91i:05038
- Kudryashov, B. D. *see* Balakirskii, V. B., 91a:94039

94B12 Combined modulation schemes (including trellis codes)

- Calderbank, A. R. The differential encoding of coset codes by algebraic methods. 91f:94022
- Items with secondary classifications in 94B12
- Fischer, Thomas Robert *see* Marcellin, Michael W., 91c:94011
- Marcellin, Michael W. (with Fischer, Thomas Robert) Trellis coded quantization of memoryless and Gauss-Markov sources. 91c:94011

94B15 Cyclic codes

- Antweiler, Markus *see* Bömer, Leopold, 91h:94032
- van Asperdt, Marcel *see* Bours, Patrick; et al., 91d:94019
- Bernhardt, Frank (with Landrock, Peter; Manz, Olaf) The extended Golay codes considered as ideals. 91i:94035
- Bömer, Leopold (with Antweiler, Markus) Periodic complementary binary sequences. 91h:94032
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- Brualdi, Richard A. (with Pless, Vera S.) Polyadic codes. 91c:94029
- Campello de Souza, Ricardo M. *see* da Rocha, Valdemar C., Jr.; et al., 91a:94036
- Castagnoli, Guy (with Massey, James L.; Schoeller, Philipp A.; von Seemann, Niklaus) On repeated-root cyclic codes. 91m:94028
- Charpin, Pascale Codes cycliques étendus affines-invariants et antichaines d'un ensemble partiellement ordonné. (English summary) [Affine-invariant extended cyclic codes and antichains of a partially ordered set] 91c:94030
- On a class of primitive BCH-codes. 91g:94026
- Cheng, Ying (with Sloane, N. J. A.) The automorphism group of an $[18, 9, 8]$ quaternary code. 91g:94027
- Dahl, Carsten *see* Pedersen, Jens P., (Not in MR)
- Dénes, József (with Mullen, Gary L.; Suchower, Stephan J.) Another generalized Golomb-Posner code. (Not in MR)
- Drolet, G. *see* Séguin, Gérard E., 91d:94036
- Farrell, Patrick G. *see* da Rocha, Valdemar C., Jr.; et al., 91a:94036
- Janssen, Jeannette C. M. *see* Bours, Patrick; et al., 91d:94019
- Kirfel, Christoph Golay-koden, kulepakkinger og nye simple grupper. (Norwegian. English summary) [The Golay code, sphere packings and new simple groups] (Not in MR)
- Landrock, Peter *see* Bernhardt, Frank; et al., 91i:94035
- Lin, Chi Chang *see* Lin, Mao Chao; et al., (Not in MR)
- Lin, Mao Chao Some results on cyclic UEP codes. 91c:94031
- (with Lin, Chi Chang; Lin, Shu) Computer search for binary cyclic UEP codes of odd length up to 65. (Not in MR)
- Lin, Shu *see* Lin, Mao Chao; et al., (Not in MR)
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- Manz, Olaf *see* Bernhardt, Frank; et al., 91i:94035
- Mansey, James L. *see* Castagnoli, Guy; et al., 91m:94028
- Mullen, Gary L. *see* Dénès, József; et al., (Not in MR)
- Ohkura, Yoshiteru *see* Shimada, Ryoasaku; et al., 91i:94037
- Patterson, Nick J. (with Wiedemann, Douglas H.) Correction to: "The covering radius of the $(2^{15}, 16)$ Reed-Muller code is at least 16276" [IEEE Trans. Inform. Theory 29 (1983), no. 3, 354-356; MR 85h:94031]. 91b:94046
- Pedersen, Jens P. (with Dahl, Carsten) Classification of pseudo-cyclic MDS codes. (Not in MR)
- Pless, Vera S. Binary cyclic codes. 91e:94031
- Cyclic codes and cyclic configurations. 91k:94036
- *see also* Brualdi, Richard A., 91e:94029
- Reed, Irving S. (with Yin, Xiaowei; Truong, Treu Kien) Algebraic decoding of the $(32, 16, 8)$ quadratic residue code. (Not in MR)
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- da Rocha, Valdemar C., Jr. (with Campello de Souza, Ricardo M.; Farrell, Patrick G.) Multilevel pseudocyclic codes. 91a:94036
- Schoeller, Philipp A. *see* Castagnoli, Guy; et al., 91m:94028
- von Seemann, Niklaus *see* Castagnoli, Guy; et al., 91m:94028
- Séguin, Gérard E. (with Drolet, G.) The trace description of irreducible quasicyclic codes. 91i:94036
- Shavgulidze, S. A. *see* Zyablov, V. V., 91g:94028
- Shimada, Ryoasaku (with Watanabe, Takashi; Tanaka, Takeshi; Ohkura, Yoshiteru) The minimum weight of quaternary cyclic AN codes. 91i:94037
- Sloane, N. J. A. *see* Cheng, Ying, 91g:94027
- Stichtenoth, Henning Which extended Goppa codes are cyclic? 91a:94037
- Suchower, Stephan J. *see* Dénès, József; et al., (Not in MR)
- Tanaka, Takeshi *see* Shimada, Ryoasaku; et al., 91i:94037
- van Tilborg, Henk C. A. *see* Bours, Patrick; et al., 91d:94019
- Truong, Treu Kien *see* Reed, Irving S.; et al., (Not in MR)
- Ward, Harold N. Quadratic residue codes of length 27. 91c:94032
- Watanabe, Takashi *see* Shimada, Ryoasaku; et al., 91i:94037
- Wiedemann, Douglas H. *see* Patterson, Nick J., 91b:94046
- Yin, Xiaowei *see* Reed, Irving S.; et al., (Not in MR)
- Zyablov, V. V. (with Shavgulidze, S. A.) The existence of q -ary generalized concatenated codes with optimal correcting properties. 91g:94028

Items with secondary classifications in 94B15

- Abdullaeva, N. D. Organization of chains in an n -dimensional cube by the methods of coding theory. (Russian) 91f:94019
- Ando, Kiyoshi *see* Mizuno, Hirobumi, 91a:11065
- Conway, J. H. (with Lomonaco, S. J., Jr.; Sloane, N. J. A.) A $[45, 13]$ code with minimal distance 16. 91c:94034
- Eliahou, Shalom (with Kervaire, Michel; Saffari, Bahman) A new restriction on the lengths of Golay complementary sequences. 91i:11020
- Kervaire, Michel *see* Eliahou, Shalom; et al., 91i:11020
- Krishna, Arvind (with Sarwate, Dilip V.) Pseudocyclic maximum-distance-separable codes. 91i:94051
- Lomonaco, S. J., Jr. *see* Conway, J. H.; et al., 91c:94034
- Mizuno, Hirobumi (with Ando, Kiyoshi) Algebraic-geometric codes on $X_i: x^2y + y^2z + z^2x = 0$. (Japanese. English summary) 91a:11065
- Nikolais, Dimitris t -symmetric and d -unidirectional ($d > t$) error-detecting cyclic AN arithmetic codes. 91a:94040
- Saffari, Bahman *see* Eliahou, Shalom; et al., 91i:11020
- Sarwate, Dilip V. *see* Krishna, Arvind, 91i:94051
- Sloane, N. J. A. *see* Conway, J. H.; et al., 91c:94034
- Xing, Chao Ping Quadratic function fields and hyperelliptic curve codes. (Chinese) (Not in MR)

94B20 Burst-correcting codes

- Blaum, Mario A family of efficient burst-correcting array codes. (Not in MR)
- Clark, W. Edwin (with Dial, Gur) Remarks on the Sharma-Kaushik metrics for error-correcting codes. 91f:94023
- Dial, Gur (with Sharma, Bhu Dev) Some bounds on the size of a code under SK-distances. 91f:94024
- *see also* Clark, W. Edwin, 91f:94023
- Imai, Hideki *see* Matsumoto, Tsutomu; et al., 91m:94029
- Matsumoto, Tsutomu (with Imai, Hideki; Saitoh, Yuichi; Yamaguchi, Kazuhiko) A method to construct constant weight t -error correcting codes. 91m:94029
- Nechav, A. A. Kerdoch's code in cyclic form. (Russian) 91a:94038
- Saitoh, Yuichi *see* Matsumoto, Tsutomu; et al., 91m:94029
- Sharma, Bhu Dev *see* Dial, Gur, 91f:94024
- Yamaguchi, Kazuhiko *see* Matsumoto, Tsutomu; et al., 91m:94029

94B25 Combinatorial codes

- Cummings, L. J. Sequences of Lyndon words. 91i:94038
- Delsarte, Philippe (with Piret, Philippe) Correction to: "Bounds and constructions for binary asymmetric error-correcting codes" [IEEE Trans. Inform. Theory 27 (1981), no. 1, 125-128; MR 82b:94027]. (Not in MR)
- Gao, Jie Min (with Li, Xiao Fang) Program coding and decoding of Golay codes. (Chinese. English summary) 91i:94039
- Hergert, Ferdinand B. On the Delsarte-Goethals codes and their formal duals. 91g:94029
- Li, Xiao Fang *see* Gao, Jie Min, 91i:94039
- van Lint, Jacobus H. *see* Tolhuizen, L., 91j:94024
- Piret, Philippe *see* Delsarte, Philippe, (Not in MR)
- Sold, Patrick Completely regular codes and completely transitive codes. 91d:94020

- Tolhuizen, L. (with van Lint, Jacobus H.) On the minimum distance of combinatorial codes. 91j:94024

Items with secondary classifications in 94B25

- Clayton, Richard Perfect multiple coverings in metric schemes. 91c:05050
- Deza, Michel-Marie (with Ray-Chaudhuri, D. K.; Singhi, N. M.) Positive independence and enumeration of codes with a given distance pattern. 91g:05007
- *see also* Hamada, Noboru, 91a:94030
- Greenberg, David S. (with Heath, Lenwood S.; Rosenberg, Arnold L.) Optimal embeddings of butterfly-like graphs in the hypercube. 91b:68029
- Hamada, Noboru (with Deza, Michel-Marie) A survey of recent works with respect to a characterization of an $(n, k, d; q)$ -code meeting the Griesmer bound using a min-hyper in a finite projective geometry. 91a:94030
- (with Helleseth, Tor) A characterization of some minihypers in a finite projective geometry $PG(t, q)$. 91j:51014
- Heath, Lenwood S. *see* Greenberg, David S.; et al., 91b:68029
- Helleseth, Tor *see* Hamada, Noboru, 91j:51014
- Huguet, L. *see* Rifa, Josep, 91d:05080
- Kamabe, Hiroshi Minimum scope for sliding block decoder mappings. 91f:94027
- Kratochvíl, Jan Perfect codes and two-graphs. 91a:05080
- Nomura, Kazumasa Distance-regular graphs of Hamming type. 91m:05159
- Pless, Vera S. Binary cyclic codes. 91e:94031
- Cyclic codes and cyclic configurations. 91k:94036
- Ray-Chaudhuri, D. K. *see* Deza, Michel-Marie; et al., 91g:05007
- Rifa, Josep (with Huguet, L.) Classification of a class of distance-regular graphs via completely regular codes. 91d:05080
- Rosenberg, Arnold L. *see* Greenberg, David S.; et al., 91b:68029
- Schulte, Egon On a class of abstract polytopes constructed from binary codes. 91j:52014
- Singhi, N. M. *see* Deza, Michel-Marie; et al., 91g:05007
- Sun, Shi Xin On graceful immersions of K_n in Q_n . (Chinese. English summary) 91a:05088

94B27 Geometric methods (including applications of algebraic geometry) [see also 11T71]

- Havemose, Allan *see* Justesen, Jørn; et al., 91d:94021
- Hirschfeld, J. W. P. Codes and curves. 91j:94025
- Hoholdt, Tom *see* Justesen, Jørn; et al., 91d:94021
- Jawwa, Heeralal Some optimal codes from algebraic geometry and their covering radii. 91g:94030
- Jensen, H. Elbrund *see* Justesen, Jørn; et al., 91d:94021
- Justesen, Jørn (with Larsen, Knud J.; Jensen, H. Elbrund; Havemose, Allan; Hoholdt, Tom) Construction and decoding of a class of algebraic geometry codes. 91d:94021
- Larsen, Knud J. *see* Justesen, Jørn; et al., 91d:94021
- Stichtenoth, Henning *see* Voss, Conny, 91b:94048
- Vladut, Sergei G. On the decoding of algebraic-geometric codes over F_q for $q \geq 16$. 91i:94040
- van der Vlugt, Marcel The true dimension of certain binary Goppa codes. 91b:94047
- On the dimension of trace codes. (Not in MR)
- Voss, Conny (with Stichtenoth, Henning) Asymptotically good families of subfield subcodes of geometric Goppa codes. 91b:94048
- Wood, Jay A. Self-orthogonal codes and the topology of spinor groups. 91e:94032

Items with secondary classifications in 94B27

- Chung, Fan R. K. (with Salehi, Jawad A.; Wei, Victor K.) Optical orthogonal codes: design, analysis, and applications. 91g:94032
- Koblitz, Neal Three practical applications of algebraic curves over finite fields. (Chinese summary) 91d:11157
- van Lint, Jacobus H. Algebraic geometric codes. 91d:14008
- Perret, Marc Sur le nombre de points d'une courbe sur un corps fini; application aux codes correcteurs d'erreurs. (English summary) [On the number of points of a curve over a finite field; application to error-correcting codes] 91d:11066
- Rick, Hans-Georg On Goppa codes defined by Kummer and Artin-Schreier extensions. 91e:11149
- Salehi, Jawad A. *see* Chung, Fan R. K.; et al., 91g:94032
- Shrikhande, M. S. Designs, intersection numbers, and codes. 91c:05035
- Wei, Victor K. *see* Chung, Fan R. K.; et al., 91g:94032

94B35 Decoding

- Balakirskii, V. B. (with Kudryashov, B. D.) Decoding of convolutional codes using lists. 91a:94039
- Be'ery, Yair *see* Snyders, Jakob, 91c:94034 and Vardy, Alexander, (Not in MR)
- Blaum, Mario (with Bruck, Jehoshua) Simple combinatorial decoding of the $[23, 12, 7]$ Golay code. 91k:94037
- (with Bruck, Jehoshua) Decoding the Golay code with Venn diagrams. 91c:94033
- Bruck, Jehoshua *see* Blaum, Mario, 91c:94033 and 91k:94037
- Cosnard, Michel Yves (with Philippe, Jean-Laurent) Distributed algorithms for deciphering. 91i:94041
- Davydov, A. A. (with Drozhzhina-Labinskaya, A. Yu.; Kalincheva, V. V.) Realization on large integrated systems of a parallel decoder of Bose-Chaudhuri-Hocquenghem codes that correct double independent errors and error bytes of length four. (Russian) 91k:94038
- Dohi, Yasunori *see* Iwamura, Keiichi; et al., 91d:94022
- Drozhzhina-Labinskaya, A. Yu. *see* Davydov, A. A.; et al., 91k:94038
- Elias, Peter Error-correcting codes for list decoding. 91j:94026
- Godlewski, P. *see* Zhu, Y. P., 91b:94050
- Gravay, S. Decoding the triple-error-correcting $(15, 5)$ binary BCH code by the analytic solution of the cubic error-locator polynomial over $GF(2^4)$. 91b:94049
- Hassan, Amer A. (with Stark, Wayne E.) On decoding concatenated codes. (Not in MR)
- Imai, Hideki *see* Iwamura, Keiichi; et al., 91d:94022

- Iwamura, Keiichi (with Imai, Hideki; Dohi, Yasunori) A method to reduce the circuit scale for systolic arrays and its application to Reed-Solomon codes. 91d:94022
- Jonckheere, Edmond A. (with Ma, Chingwo) A simple Hankel interpretation of the Berlekamp-Massey algorithm. 91d:94023
- Kalincheva, V. V. see Davydov, A. A.; et al. 91k:94038
- Kapiturovskii, Edward J. see Metzner, John J., 91m:94030
- Kapur, Jagat N. Noiseless coding theorems corresponding to different measures of entropy. 91f:94025
- Kudryashov, B. D. see Balakirskii, V. B., 91a:94039
- Kul'man, N. K. A study of optimal methods for decoding in the case of a simple code in a Gaussian channel. (Russian) (see 91j:60002)
- Lobstein, Antoine-C. The hardness of solving subset sum with preprocessing. (Not in MR)
- Ma, Chingwo see Jonckheere, Edmond A., 91d:94023
- Metzner, John J. (with Kapiturovskii, Edward J.) A general decoding technique applicable to replicated file disagreement location and concatenated code decoding. 91m:94030
- Morrison, Robert D. see Sarwate, Dillip V., (Not in MR)
- Nalbantyan, M. N. Methods for decoding some classes of correcting codes. (Russian. Armenian summary) 91m:94031
- Philippe, Jean-Laurent see Cosnard, Michel Yves, 91i:94041
- Pursley, Michael B. see Taipale, Dana J., (Not in MR)
- Restivo, Antonio A note on multiset decipherable codes. 91f:94026
- Roth, Ron M. Maximum-rank array codes and their application to crisscross error correction. 91m:94032
- Sarwate, Dillip V. (with Morrison, Robert D.) Decoder malfunction in BCH decoders. (Not in MR)
- Skorobogatov, A. N. (with Vlăduț, Sergei G.) On the decoding of algebraic-geometric codes. 91i:94042
- Snyders, Jakov (with Be'ery, Yair) Maximum likelihood soft decoding of binary block codes and decoders for the Golay codes. 91c:94034
- Stark, Wayne E. see Hassan, Amer A., (Not in MR)
- Stevens, Patrick On decoding unequal error protection product codes. 91c:94035
- Taipale, Dana J. (with Pursley, Michael B.) An improvement to generalized-minimum-distance decoding. (Not in MR)
- Vardy, Alexander (with Be'ery, Yair) On the problem of finding zero-concurring codewords. (Not in MR)
- Vlăduț, Sergei G. see Skorobogatov, A. N., 91i:94042
- Yang, Yi Xian Proof of Wang's conjecture. 91g:94031
- Zhu, Y. P. (with Godlewski, P.) Results of generalized minimum distance decoding for block code of rate $1/2$. 91b:94050
- Žitkov, Miroslav Some improvements of a decoding algorithm for linear codes. 91j:94027
- Items with secondary classifications in 94B35
- van Asperdt, Marcel see Bours, Patrick; et al., 91d:94019
- Blaum, Mario see Fuja, Tom; et al., 91a:94035
- Bocharova, I. E. (with Taubin, F. A.) A generalized correlation metric for decoding in a multiple access channel. 91g:94009
- Bouloutas, A. (with Hart, George W.; Schwartz, Mischa) Two extensions of the Viterbi algorithm. (Not in MR)
- Bours, Patrick (with Janssen, Jeannette C. M.; van Asperdt, Marcel; van Tilborg, Henk C. A.) Algebraic decoding beyond e_{CH} of some binary cyclic codes, when $e > e_{\text{CH}}$. 91d:94019
- Calderbank, A. R. (with Frankl, Peter) Binary codes and quasisymmetric designs. 91h:94029
- Feng, Gui Liang (with Tzeng, Kenneth K.) A generalized Euclidean algorithm for multisequence shift-register synthesis. 91g:94013
- Frankl, Peter see Calderbank, A. R., 91h:94029
- Fuja, Tom (with Heegard, Chris; Blaum, Mario) Cross parity check convolutional codes. 91a:94035
- Hart, George W. see Bouloutas, A.; et al., (Not in MR)
- Heegard, Chris see Fuja, Tom; et al., 91a:94035
- Imai, Hideki see Salto, Osamu, (Not in MR)
- Janssen, Jeannette C. M. see Bours, Patrick; et al., 91d:94019
- Jha, N. K. A new class of symmetric error correcting/unidirectional error detecting codes. 91h:94045
- Kamabe, Hiroshi Minimum scope for sliding block decoder mappings. 91f:94027
- Khachatrian, G. G. (with Shamoyan, G. A.) Determination of the probability of correct decoding of a class of linear codes for a binary symmetric channel. (Russian. Armenian summary) 91c:94030
- Maierana, James A. A classification of the cosets of the Reed-Muller code $\mathcal{R}(1, 6)$. 91j:94023
- Salto, Osamu (with Imai, Hideki) Maximum likelihood decoding of convolutional codes using channel states. (Not in MR)
- Schwartz, Mischa see Bouloutas, A.; et al., (Not in MR)
- Shamoyan, G. A. see Khachatrian, G. G., 91c:94030
- Taubin, F. A. see Bocharova, I. E., 91g:94009
- Thiong-Ly, Jean Augustin Note for computing the minimum polynomial of elements in large finite fields. 91g:11163
- van Tilborg, Henk C. A. see Bours, Patrick; et al., 91d:94019
- Touchev, Vladimir D. Self-orthogonal designs. 91h:50026
- Tzeng, Kenneth K. see Feng, Gui Liang, 91g:94013

94B40 Arithmetic codes [see also 11T71]

- Lobstein, Antoine-C. On perfect binary arithmetic codes which can correct two errors or more. 91b:94051
- Moffat, Alistair Linear time adaptive arithmetic coding. (Not in MR)
- Nikolov, Dimitris t -symmetric and d -unidirectional ($d > t$) error-detecting cyclic AN arithmetic codes. 91a:94040
- Ohkura, Yoshiteru see Shimada, Ryoosaku; et al., 91m:94033

- Shimada, Ryoosaku (with Watanabe, Takashi; Tanaka, Takeshi; Ohkura, Yoshiteru) Quaternary cyclic AN codes and Lee-type modular arithmetic distance. 91m:94033
- Tanaka, Takeshi see Shimada, Ryoosaku; et al., 91m:94033
- Watanabe, Takashi see Shimada, Ryoosaku; et al., 91m:94033

Items with secondary classifications in 94B40

- Gordon, Daniel M. Pseudoprimes on elliptic curves. 91g:11158
- Moreno, Carlos J. (with Moreno, Oscar) Exponential sums and Goppa codes. I. 91f:11087
- Moreno, Oscar see Moreno, Carlos J., 91f:11087

94B45 Prefix, length-variable, comma-free codes (1985)

- Birmilwal, Kailash The minimum codeword length and redundancy in the binary Huffman code for uncertain sources. (Not in MR)
- Gutman, Michael Fixed-prefix encoding of the integers can be Huffman-optimal. (Not in MR)
- Ziv, Jacob Variable-to-fixed length codes are better than fixed-to-variable length codes for Markov sources. (Not in MR)

94B50 Synchronization error-correcting codes

Items with secondary classifications in 94B50

- Cummings, L. J. Sequences of Lyndon words. 91h:94038
- Elbanna, Refaat M. see Sundareshan, Malur K., 91c:93007
- Sundareshan, Malur K. (with Elbanna, Refaat M.) Design of decentralized observation schemes for large-scale interconnected systems: some new results. 91c:93007

94B60 Other types of codes

- Bose, Bella On unordered codes. 91m:94034
- see also Lin, Der-Wei, 91b:94053
- Cal, Hual Chang (with Jin, Wei; Lu, Hong Bo) Investigation of a new type of cross associated codes. (Chinese. English summary) 91h:94043
- Carlet, Claude Le groupe d'automorphismes du code de Kerdock. (English summary) [The automorphism group of the Kerdock code] 91c:94033
- Carral, M. (with Rotillon, D.; Thiong-Ly, Jean Augustin) Codes from some Artin-Schreier curves. 91a:94041
- Chung, Fan R. K. (with Salehi, Jawad A.; Wei, Victor K.) Optical orthogonal codes: design, analysis, and applications. 91g:94032
- Chung, Habong (with Kumar, P. Vijay) Optical orthogonal codes—new bounds and an optimal construction. 91g:94033
- Conway, J. H. (with Sloane, N. J. A.; Wilks, Allan R.) Gray codes for reflection groups. 91g:94034
- (with Lomonaco, S. J., Jr.; Sloane, N. J. A.) A [45, 13] code with minimal distance 16. 91c:94034
- Integral lexicographic codes. 91j:54028
- Dial, Gur see Hall, Lawrence O., 91h:94033
- Dumer, I. I. Asymptotically optimal codes for correcting a fixed number of defects. 91b:94052
- Hall, Lawrence O. (with Dial, Gur) On fuzzy codes for asymmetric and unidirectional errors. 91h:94033
- Hirasawa, Shigeichi see Nishijima, Toshihisa, (Not in MR)
- Jin, Wei see Cal, Hual Chang; et al., 91b:94043
- Kamabe, Hiroshi Minimum scope for sliding block decoder mappings. 91f:94027
- Koschnick, Klaus-Uwe Some new constant weight codes. (Not in MR)
- Kumar, P. Vijay see Chung, Habong, 91g:94033
- Lin, Der-Wei (with Bose, Bella) On the maximality of the group-theoretic single error correcting and all unidirectional error detecting (SEC-AUED) codes. 91h:94053
- Lomonaco, S. J., Jr. see Conway, J. H.; et al., 91c:94034
- Lu, Hong Bo see Cal, Hual Chang; et al., 91b:94043
- Maric, Svetislav V. (with Titlebaum, Edward L.) Frequency hop multiple access codes based upon the theory of cubic congruences. (Not in MR)
- Nishijima, Toshihisa (with Hirasawa, Shigeichi) A survey on concatenated codes and their extensions—reliability functions and asymptotic distance ratios. (Japanese) (Not in MR)
- Rashad, Ahmed M. On symmetrical superimposed codes. (German and Russian summaries) 91a:94042
- Random coding bounds on the rate for list-decoding superimposed codes. (Russian summary) 91f:94028
- Retter, Charles T. Intersecting Goppa codes. 91b:94054
- Rotillon, D. see Carral, M.; et al., 91a:94041
- Salehi, Jawad A. see Chung, Fan R. K.; et al., 91g:94032
- Sloane, N. J. A. see Conway, J. H.; et al., 91c:94034 and 91g:94034
- Thiong-Ly, Jean Augustin see Carral, M.; et al., 91a:94041
- Titlebaum, Edward L. see Maric, Svetislav V., (Not in MR)
- Touchev, Vladimir D. Self-orthogonal designs and extremal doubly even codes. 91f:94029
- van Wee, Gerhard J. M. On the nonexistence of certain perfect mixed codes. 91m:94035
- Wei, Victor K. see Chung, Fan R. K.; et al., 91g:94032
- Wilks, Allan R. see Conway, J. H.; et al., 91g:94034

Items with secondary classifications in 94B60

- Bhatia, P. K. see Taneja, H. C., 91m:94010
- Boninoli, Arrigo (with Fiori, Carla) MDS-codes, nets and column orthogonal Latin rectangles. 91h:05030
- Calderbank, A. R. (with Ozarow, Lawrence H.) Nonequiprobable signaling on the Gaussian channel. 91m:94008
- D'yachkov, A. G. (with Rykov, V. V.; Rashad, Ahmed M.) Superimposed distance codes. (Russian summary) 91c:94026
- Edelman, Paul H. (with White, Dennis E.) Codes, transforms and the spectrum of the symmetric group. 91b:20018

- Flori, Carla. *see* Bonisoli, Arrigo, 91i:05030
- Hwang, Tzonelih (with Rao, T. R. N.). Secret error-correcting codes (SECC). 91k:94030
- Jha, N. K. A new class of symmetric error correcting/unidirectional error detecting codes. 91b:94045
- Karzel, Helmut J. (with Oswald, Alan). Near-rings (MDS)- and Laguerre codes. 91c:16041
- Long, Dong Yang. k -prefix codes and k -infix codes. (Chinese) 91i:94026
- Oswald, Alan. *see* Karzel, Helmut J., 91c:16041
- Ozawa, Lawrence H. *see* Calderbank, A. R., 91m:94008
- Perrin, Dominique. Arbres et séries rationnelles. (English summary) [Trees and rational power series] 91g:68097
- Rao, T. R. N. *see* Hwang, Tzonelih, 91k:94030
- Rashad, Ahmed M. *see* Dyachkov, A. G.; et al., 91e:94026
- Restivo, Antonio. Codes and automata. 91k:94024
- Rykov, V. V. *see* Dyachkov, A. G.; et al., 91e:94026
- Shavgulidze, S. A. *see* Zylabov, V. V., 91g:94028
- Taneja, H. C. (with Bhatia, P. K.). On a generalized mean codeword length for the best 1:1 code. 91m:94010
- White, Dennis E. *see* Edelman, Paul H., 91b:20018
- Wood, Jay A. Maximal abelian subgroups of spinor groups and error-correcting codes. 91d:22007
- Zylabov, V. V. (with Shavgulidze, S. A.). The existence of q -ary generalized concatenated codes with optimal correcting properties. 91g:94028

94B65 Bounds on codes

- Be'ery, Yair. *see* Vardy, Alexander; et al., 91i:94044
- van Lint, Jacobus H. *see* de Rooij, P. J. N., (Not in MR)
- de Rooij, P. J. N. (with van Lint, Jacobus H.). More on the minimum distance of cyclic codes. (Not in MR)
- Snyders, Jakob. *see* Vardy, Alexander; et al., 91i:94044
- Vardy, Alexander (with Snyders, Jakob; Be'ery, Yair). Bounds on the dimension of codes and subcodes with prescribed contraction index. 91i:94044
- Items with secondary classifications in 94B65
- Abdel-Ghaffar, Khaled A. S. (with Weber, Jos H.). Bounds and constructions for runlength-limited error-control block codes. (Not in MR)
- Cygan, Daniel (with Offer, Elke). Short linear incremental redundancy codes having optimal weight structure profile. (Not in MR)
- Offer, Elke. *see* Cygan, Daniel, (Not in MR)
- Sapozhenko, A. A. The number of antichains in ranked partially ordered sets. 91h:06006
- Weber, Jos H. *see* Abdel-Ghaffar, Khaled A. S., (Not in MR)

94B70 Error probability

- Biglieri, Ezio. *see* Liu, Yow-Jong; et al., (Not in MR)
- Liu, Yow-Jong (with Oka, Ikao; Biglieri, Ezio). Error probability for digital transmission over nonlinear channels with application to TCM. (Not in MR)
- Oka, Ikao. *see* Liu, Yow-Jong; et al., (Not in MR)
- Items with secondary classifications in 94B70
- Bocharova, I. E. (with Taubin, F. A.). A generalized correlation metric for decoding in a multiple access channel. 91g:94009
- Rashad, Ahmed M. Random coding bounds on the rate for list-decoding superimposed codes. (Russian summary) 91e:94028
- Tashin, F. A. *see* Bocharova, I. E., 91g:94009

94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [see also 11H31]

- Davydov, A. A. *see* Gabidulin, E. M.; et al., (Not in MR)
- Dougherty, Randall (with Janwa, Heeralal). Covering radius computations for binary cyclic codes. 91j:94029
- Gabidulin, E. M. (with Davydov, A. A.; Tombak, Leonid M.). Linear codes with covering radius 2 and other new covering codes. (Not in MR)
- Hämäläinen, Heikki O. (with Rankinen, Seppo). Upper bounds for football pool problems and mixed covering codes. 91i:94045
- *see also* Honkala, Ilro S., (Not in MR)
- Honkala, Ilro S. Modified bounds for covering codes. 91m:94036
- (with Hämäläinen, Heikki O.). Bounds for abnormal binary codes with covering radius one. (Not in MR)
- Hou, Xiang Dong. An improved sphere covering bound for the codes with $n = 3R + 2$. 91i:94046
- Janwa, Heeralal. *see* Dougherty, Randall, 91j:94029
- Mehrotra, K. G. *see* Solé, Patrick, (Not in MR)
- Östergård, Patrik R. J. A new binary code of length 10 and covering radius 1. (Not in MR)
- Rankinen, Seppo. *see* Hämäläinen, Heikki O., 91i:94045
- Solé, Patrick. Asymptotic bounds on the covering radius of binary codes. 91k:94047
- (with Mehrotra, K. G.). Generalization of the Nørne bounds to codes of higher strength. (Not in MR)
- Tietäväinen, Aimo A. An upper bound on the covering radius as a function of the dual distance. 91i:94048
- Tombak, Leonid M. *see* Gabidulin, E. M.; et al., (Not in MR)
- Velikova, E. D. A generalization of some upper bounds on covering radius under an arbitrary additive metric. (Russian summary) 91k:94039
- van Wee, Gerhard J. M. More binary covering codes are normal. 91h:94034

Items with secondary classifications in 94B75

- Calderbank, A. R. Covering radius and the chromatic number of Kneser graphs. 91h:05053
- Conway, J. H. (with Lomonaco, S. J., Jr.; Sloane, N. J. A.). A [45, 13] code with minimal distance 16. 91e:94034

Janwa, Heeralal. Some optimal codes from algebraic geometry and their covering radii. 91g:94030

Lomonaco, S. J., Jr. *see* Conway, J. H.; et al., 91e:94034

Sloane, N. J. A. *see* Conway, J. H.; et al., 91e:94034

94B99 None of the above, but in this section

- Ezraon, Tuvi. Constructions of error-correcting DC-free block codes. 91i:94049
- Frankl, Peter. An intersection problem for codes. 91i:94050
- Krishna, Arvind (with Sarwate, Dilip V.). Pseudocyclic maximum-distance-separable codes. 91i:94051
- Leong, Ng Weng. An investigation into the mathematical theory behind check-digits for the purpose of error-detection. (Not in MR)
- Răduică, Mihaela. Some observations on the self-dual codes. (Romanian summary) 91d:94024
- Sarwate, Dilip V. *see* Krishna, Arvind, 91i:94051

Items with secondary classifications in 94B99

- Cohen, Stephen D. Primitive elements and polynomials with arbitrary trace. 91h:11143
- Piret, Philippe. Analysis of a modified Hebbian rule. 91h:92003
- Pujol Capdevila, J. *see* Rifa, Josep, 91e:05065
- Rifa, Josep (with Pujol Capdevila, J.). Coverings and distance-regular graphs. (Catalan) 91e:05065

94Cxx Circuits, networks

94C05 Analytic circuit theory

- Agba, Lawrence C. *see* Sadiku, Matthew N. O., (Not in MR)
- Anderson, James H. (with Gouda, Mohamed G.). A new explanation of the glitch phenomenon. 91m:94037
- Aronson, D. G. (with Doedel, Eusebius J.; Othmer, Hans G.). The dynamics of DC SQUIDS. (See 91b:00048)
- Azzouz, Abdennasser (with Hasler, Martin). Orbits of the R - L -diode circuit. 91i:94052
- Baher, Hussein (with O'Malley, Mark). Design of switched-capacitor and wave digital filters with linear phase and high amplitude selectivity. (Not in MR)
- Bajic, Vladimir B. Semidefiniteness of functional matrices and application in the analysis of singular RC circuits. 91e:94035
- Barkan, Ozdal (with Smith, W. Richard; Persky, George). Design of coupling resistor networks for neural network hardware. (Not in MR)
- Bartley, Norman R. *see* Nowrouzian, Behrouz; et al., (Not in MR)
- Berman, Kenneth A. (with Konsowa, Mokhtar H.). Random paths and cuts, electrical networks, and reversible Markov chains. 91g:94035
- Bon, M. L. *see* Mulawka, J. J.; et al., (Not in MR)
- Boyd, J. N. (with Raychowdhury, P. N.). A double chain of coupled circuits in analogy with mechanical lattices. 91m:94038
- Bruerich, A. N. The design of balanced two-cycle piecewise-linear systems when subjected to harmonic excitation. 91g:94036
- Bruton, Leonard T. *see* Nowrouzian, Behrouz; et al., (Not in MR)
- Badlovich, N. V. (with Nechaev, V. G.; Pavel'ev, D. G.; Strukov, I. A.). System of parameters and results of a measurement of planar GaAs diodes. (Not in MR)
- Burrascano, Pietro (with Cardarilli, Gian Carlo; Lojacono, R.; Martinelli, Giuseppe; Salerno, Mario). Properties and synthesis of RNS digital circuits. (Not in MR)
- Cardarilli, Gian Carlo. *see* Burrascano, Pietro; et al., (Not in MR)
- Carlson, S. A. (with Martinez, P.; Porta, S.). An improved Wien bridge oscillator. (Not in MR)
- Chen, H. Y. *see* Kang, Sung Mo, (Not in MR)
- Chen, Wai-Kai (with Zha, Qiang-Zhong). The synthesis of Chebyshev broad-band impedance-matching ladder networks. 91d:94025
- Cherednikov, P. I. *see* Zuer, N. G.; et al., (Not in MR)
- Choma, J., Jr. Signal flow analysis of feedback networks. 91k:94040
- (with Witherspoon, Scott). Computationally efficient estimation of frequency response and driving point impedances in wide-band analog amplifiers. (Not in MR)
- Chua, Leon O. (with Lin, Gui Nian). Canonical realization of Chua's circuit family. 91h:94035
- *see also* Kahlert, Claus, 91b:94055
- Curtis, Edward B. (with Morrow, James A.). Determining the resistors in a network. 91h:94036
- Dabrowski, Adam (with Moschytz, George S.). Direct analysis of multiphase switched-capacitor networks using signal-flow graphs. 91i:94053
- D'Amico, A. (with Faccio, M.; Ferri, G.). Ladder network characterization and Fibonacci numbers. 91k:94041
- De Moor, Bart L. *see* Vandenberghe, Lieven; et al., 91b:94057
- Denk, Georg. An improved numerical integration method in the circuit simulator SPICE2-S. (See 91m:00035)
- Doedel, Eusebius J. *see* Aronson, D. G.; et al., (91b:00048)
- Duffin, R. J. The conductivity of checkerboards treated by conjugate functions. (Not in MR)
- Endo, Tetsuro (with Imai, Masao). An electronic circuit experiment on bifurcation and chaos in phase-locked loop circuits. (Not in MR)
- Faccio, M. *see* D'Amico, A.; et al., 91k:94041
- Ferri, G. *see* D'Amico, A.; et al., 91k:94041
- Fornara, Linda. *see* Sackinger, Edward, (Not in MR)
- Fujii, Nobuo. *see* Okine, Mitsuo, (Not in MR)
- Fukui, Ichiro. *see* Sato, Masahiro; et al., (Not in MR) and Shimoda, Hidemaro; et al., (Not in MR)
- Gayral, Michel. *see* Ngoya, E.; et al., (Not in MR)
- Glasser, Lance A. The stability and passivity of MOSFET device models that use nonreciprocal capacitive elements. (Not in MR)

- Gluskin, Emanuel. Zeros of periodic time functions that appear in a nonlinear equation relevant to electrical engineering. (Not in MR)
- Goette, Josef. The capacitor-voltage variance matrix of passive thermal-noisy RC networks. (Not in MR)
- Goncharik, L. I. (with Keshish'yan, V. A.) State equations for circuits with switchable capacitors. (Russian) (Not in MR)
- Gouda, Mohamed G. *see* Anderson, James H., 91m:94037
- Grady, Kevin J. *see* Zulinski, Robert E., (Not in MR)
- Hasler, Martin *see* Azzouz, Abdennasser, 91i:94052
- Herman, Kelly J. *see* Mandojana, Julio C.; et al., (Not in MR)
- Ho, K. L. Systematic method for determining the minimality of an RC network. (Not in MR)
- Hong, Yi. On the realization problem of RC ladder-networks. (Chinese. English summary) (Not in MR)
- Ichihara, Masaki *see* Nakayama, Kenji, (Not in MR)
- Imai, Masao *see* Endo, Tetsuro, (Not in MR)
- Inaba, Naohiko *see* Uehara, Tetsuo; et al., 91d:94030
- Inoue, Takahiro (with Ueno, Fumio; Sonobe, Satoru; Matsumoto, Tetsuya) Switched-capacitor circuit analysis program SCNODAL and its application to SC filter design. (Not in MR)
- Ishihashi, Yukio (with Nakahigashi, Hideto) A synthesis of RC active filters simulating uniformly dissipative LC filters. (Not in MR)
- Itoh, Makoto (with Tomiyasu, Ryuichi) Two conjectures concerning nonlinear circuit problems. 91k:94042
- Jiang, Zhu Jun. Chaotic behavior in the Josephson equations with periodic force. 91f:94030
- Kacprzak, Tomasz *see* Kowalski, Mirosław, 91b:94056
- Kahlert, Claus (with Chua, Leon O.) A generalized canonical piecewise-linear representation. 91h:94055
- Kang, Sung Mo (with Chen, H. Y.) A global delay model for domino CMOS circuits with application to transistor sizing. (Not in MR)
- Kasim-Zade, O. M. Complexity of realization of Boolean functions in a model of electronic circuits. (Russian) 91d:94026
- Kawashima, Hirofumi (with Matsuyama, Masaru; Nakazato, Mitsuhiro) Variational analysis of new shape face shear mode quartz crystal resonator. (Not in MR)
- Keshish'yan, V. A. *see* Goncharik, L. I., (Not in MR)
- Klesin, Gloria. Models of multiwatt energy. 91g:94037
- Kolev, L. V. (with Mladenov, V. M.) An interval method for finding all operating points of nonlinear resistive circuits. 91e:94036
- Kończykowska, A. D. *see* Mulařka, J. J.; et al., (Not in MR)
- Kong, Jun Bao. New efficient algorithm for nonlinear circuit system. 91k:94043
- Konsowa, Mokhtar H. *see* Berman, Kenneth A., 91g:94035
- Kowalski, Mirosław (with Kacprzak, Tomasz) Lagrangian functions and variational problems for dynamical systems and networks. 91b:94056
- Kwatny, Harry G. (with Piper, G. E.) Frequency domain analysis of Hopf bifurcations in electric power networks. (Not in MR)
- Lawler, Gregory F. (with Sylvester, John) Determining resistances from boundary measurements in finite networks. 91a:94043
- Lee, B. G. (with Willson, A. N., Jr.) On a determinant expansion in the theory of two-transistor circuits. (Not in MR)
- Lia, Gui Nian *see* Chua, Leon O., 91h:94035
- Lillichuk, I. A. (with Svirin, A. V.) Volt-ampere characteristic of unsaturated $p-n-p$ structures. (Not in MR)
- Lujano, R. *see* Burrascano, Pietro; et al., (Not in MR)
- Malhamé, Roland. A jump-driven Markovian electric load model. (Not in MR)
- Mandojana, Julio C. (with Herman, Kelly J.; Zulinski, Robert E.) A discrete/continuous time-domain analysis of a generalized class E amplifier. (Not in MR)
- Marinov, C. A. (with Neittaanmäki, Pekka) Asymptotical convergence evaluation for a parabolic problem arising in circuit theory. (Not in MR)
- *see also* Morogana, Gheorghe; et al., (Not in MR)
- Martinielli, Giuseppe *see* Burrascano, Pietro; et al., (Not in MR)
- Martinez, P. *see* Carlossena, A.; et al., (Not in MR)
- Matsumoto, Tetsuya *see* Inoue, Takahiro; et al., (Not in MR)
- Matsuyama, Masaru *see* Kawashima, Hirofumi; et al., (Not in MR)
- Meijer, Peter B. L. Fast and smooth highly nonlinear multidimensional table models for device modeling. (Not in MR)
- Milic, Mirko M. *see* Novak, Ladislav A., 91d:94027
- Mitra, Sajit Kumar. Shorted matrices in star and related orderings. 91m:94039
- Mladenov, V. M. *see* Kolev, L. V., 91e:94036
- Mori, Shinsaku *see* Uehara, Tetsuo; et al., 91d:94030
- Morogana, Gheorghe (with Marinov, C. A.; Neittaanmäki, Pekka) Well-posed nonlinear problems in integrated circuits modeling. (Not in MR)
- Morrow, James A. *see* Curtis, Edward B., 91h:94036
- Moschytz, George S. *see* Dąbrowski, Adam, 91i:94053
- Mulařka, J. J. (with Kończykowska, A. D.; Bon, M. L.) On a family of new two-op-amp switched-capacitor biquads for high-frequency applications. (Not in MR)
- Nakahigashi, Hideto *see* Ishihashi, Yukio, (Not in MR)
- Nakayama, Kenji (with Ichihara, Masaki) A multilevel data transmission baseband LSI using SC circuits. (Not in MR)
- Nakazato, Mitsuhiro *see* Kawashima, Hirofumi; et al., (Not in MR)
- Nechaev, V. G. *see* Budilovich, N. V.; et al., (Not in MR)
- Neittaanmäki, Pekka *see* Marinov, C. A., (Not in MR) and Morogana, Gheorghe; et al., (Not in MR)
- Newcomb, Robert W. *see* Rassa, Rassa; et al., 91j:94030
- Ngoya, E. (with Rousset, Jean; Gayral, Michel; Quere, Raymond; Obregon, Juan) Efficient algorithms for spectra calculations in nonlinear microwave circuits simulators. (Not in MR)
- Novak, Ladislav A. (with Milic, Mirko M.) The weak (L_0 & C_0)-completeness and some aspects of dynamics of nonlinear M -networks. 91d:94027
- Reciprocity and antireciprocity of resistive N -ports: a brackets approach. 91f:94031
- Nowrouzian, Behrouz (with Bartley, Norman R.; Bruton, Leonard T.) Design and DSP-chip implementation of a novel bilinear-LDI digital Jaumann filter. (Not in MR)
- Obregon, Juan *see* Ngoya, E.; et al., (Not in MR)
- Okine, Mitsuo (with Fujii, Nobuo) A high-frequency low pole-sensitivity universal active filter using the finite GB-product compensation of an operational amplifier. (Not in MR)
- O'Malley, Mark *see* Baher, Hassela, (Not in MR)
- Omer-Imerely, A. R. *see* Petrenko, A. I., (Not in MR)
- Opal, Ajay (with Vlach, Jiri) Consistent initial conditions of linear switched networks. (Not in MR)
- Osiowski, J. *see* Urbad, A., 91g:94038
- Othmer, Hans G. *see* Aronson, D. G.; et al., (91b:00048)
- Ozawa, Takao. The complex basis in electrical networks and its application to network-element-value calculation. 91e:94037
- Pavel'ev, D. G. *see* Budilovich, N. V.; et al., (Not in MR)
- Peraky, George *see* Barkan, Ozdal; et al., (Not in MR)
- Petrenko, A. I. (with Omer-Imerely, A. R.) Curve-search algorithm for DC analysis of nonlinear electronic circuits. (Not in MR)
- Piekarski, M. S. (with Uruski, M.) A network approach to interpolation with symmetric positive-real matrices. 91i:94054
- Piper, G. E. *see* Kwatny, Harry G., (Not in MR)
- Porta, S. *see* Carlossena, A.; et al., (Not in MR)
- Prasad, V. C. Necessary and sufficient condition for uniqueness of solutions of certain nonlinear resistive networks. (Not in MR)
- Quere, Raymond *see* Ngoya, E.; et al., (Not in MR)
- Rassa, Rassa (with Symos, George; Newcomb, Robert W.) Solid holed torus knot oscillators. 91j:94030
- Raychowdhury, P. N. *see* Boyd, J. N., 91m:94038
- Reibiger, Albrecht (with Witte, Katrin) Graphoidale Netzwerke. [Graphoidal networks] 91j:94031
- Remoussat, Michel. Real lattices modelled by the nonlinear Schrödinger equation and its generalizations. 91h:94055
- Rentrop, Peter. Row-type methods for the integration of electric circuits. (see 91m:00035)
- Rhodes, J. D. Linear frequency networks with applications to "frequency set-on oscillators" and "self-adaptive bandpass filters". (Not in MR)
- Riblet, Gordon P. Explicit realization of a new class of lossless symmetrical lumped-element 4-port couplers with maximally flat coupling. (Not in MR)
- Roussel, Jean *see* Ngoya, E.; et al., (Not in MR)
- Rozanski, Lech. On a generalized representation of $2m$ -port distributed systems. 91d:94028
- Säckinger, Eduard (with Fornara, Linda) On the placement of critical devices in analog integrated circuits. (Not in MR)
- Sadiku, Matthew N. O. (with Agba, Lawrence C.) A simple introduction to the transmission-line modeling. (Not in MR)
- Saito, Toshimichi. A chaotic circuit family including one diode. 91c:94036
- Salerno, Mario *see* Burrascano, Pietro; et al., (Not in MR)
- Sato, Chikara *see* Takeda, Yasuyoshi, 91a:94044
- Sato, Kimio. Variations of vertex potentials by short-circuiting two vertices in resistance networks. 91e:94038
- Sato, Masahiro (with Yoshida, Norinobu; Fukai, Ichiro) Transient analysis of anisotropic elastic media by Bergeron's method. (Not in MR)
- Shimoda, Hidemaro (with Yoshida, Norinobu; Fukai, Ichiro) Analysis of sound fields in rooms using Bergeron's method. (Not in MR)
- Shreshchev, P. A. On the use of a quasisymmetric method for analyzing devices based on a field-effect transistor with a Schottky gate. (Not in MR)
- Smith, W. Richard *see* Barkan, Ozdal; et al., (Not in MR)
- Soma, Mani *see* Yoo, Hong, (Not in MR)
- Sonobe, Satoru *see* Inoue, Takahiro; et al., (Not in MR)
- Strukov, I. A. *see* Budilovich, N. V.; et al., (Not in MR)
- Svirin, A. V. *see* Lillichuk, I. A., (Not in MR)
- Sylvester, John *see* Lawler, Gregory F., 91j:94043
- Symos, George *see* Rassa, Rassa; et al., 91j:94030
- Tadeusiewicz, Michał. A method for finding bounds on the location of all the solutions of DC piecewise-linear circuits. 91c:94037
- Takeda, Yasuyoshi (with Sato, Chikara) Switched-capacitor filter block with two clock frequencies. 91a:94044
- Thomassen, Carsten. Resistances and currents in infinite electrical networks. 91d:94029
- Titarenko, A. M. *see* Zuer, N. G.; et al., (Not in MR)
- Tomiyasu, Ryuichi *see* Itoh, Makoto, 91k:94042
- Uehara, Tetsuo (with Mori, Shinsaku; Inaba, Naohiko) Chaotic phenomena in an auto-gain-controlled oscillator using a pulsewidth controller. 91d:94030
- Ueno, Fumio *see* Inoue, Takahiro; et al., (Not in MR)
- Urbad, A. (with Osiowski, J.) Some general properties of second order active RC filters with composite operational amplifiers. 91g:94038
- Uruski, M. *see* Piekarski, M. S., 91i:94054
- Vandenberghe, Lieven (with De Moor, Bart L.; Vandewalle, Joos) The generalized linear complementarity problem applied to the complete analysis of resistive piecewise-linear circuits. 91b:94057
- Vandewalle, Joos *see* Vandenberghe, Lieven; et al., 91b:94057
- Vlach, Jiri *see* Opal, Ajay, (Not in MR)
- Willson, A. N., Jr. *see* Lee, B. G., (Not in MR)
- Witherup, Scott *see* Chua, J., Jr., (Not in MR)
- Witte, Katrin *see* Reibiger, Albrecht, 91j:94031
- Wu, Jing Tang (with Yang, Yong Yi) The dynamics of a nonlinear discrete oscillator. 91f:94032
- Wu, Tong (with Zhang, Yao Sheng) Multistep fault-collapsing method for spectral signature detecting in combinational networks. 91e:94039
- Yang, Yong Yi *see* Wu, Jing Tang, 91f:94032
- Yoshida, Norinobu *see* Sato, Masahiro; et al., (Not in MR) and Shimoda, Hidemaro; et al., (Not in MR)
- Yoo, Hong (with Soma, Mani) Crosstalk analysis of interconnection lines and packages in high-speed integrated circuits. (Not in MR)

- Zaborsky, John (with Zheng, Bao Hua) Exploration of the conceptual structure of voltage stability. 91b:94044
- Zha, Qiang-Zhong see Chen, Wai-Kai, 91d:94025
- Zhang, Yao Sheng see Wu, Tong, 91d:94039
- Zheng, Bao Hua see Zaborsky, John, 91b:94044
- Zhu, Qi Ben Nonlinear circuits with a single steady-state response. (Chinese. English summary) (Not in MR)
- Zver, N. G. (with Titarenko, A. M.; Cherednikov, P. I.) On transfer processes and the stability of a nonlinear parametric system that works on high harmonics. (Russian) (Not in MR)
- Zuilinski, Robert E. (with Grady, Kevin J.) Load-independent class E power inverters. I. Theoretical development. (Not in MR)
- see also Mandojana, Julio C.; et al., (Not in MR)
- Items with secondary classifications in 94C05
- Anderson, W. N., Jr. (with Morley, T. D.; Trapp, G. E.) Infinite networks and quadratic optimal control. 91b:93104
- Ando, Tsuyoshi (with Kubo, Fumio) Some matrix inequalities in multiport network connections. 91d:15038
- Andrushkevich, A. V. (with Kipchatov, A. A.) Chaos and periodicity in the tunnel diode oscillator. (Not in MR)
- Azzouz, Abdelnasser (with Hasler, Martin) Chaos in the R-L-diode circuit. 91b:58069
- Bajić, Vladimir B. Nonlinear functions and stability of motions of implicit differential systems. 91b:93058
- Bail, Joseph A. (with Helton, J. William) Shift invariant subspaces, passivity, reproducing kernels and H^∞ -optimization. 91d:47101
- Beckmann, Peter (with Koch, Werner; Schreider, Gernot) Relaxation, postponement, and features of the attractor in a driven varactor oscillator. 91b:58067
- Bedrosian, Samuel D. (with Sun, Xiaoguang) Theory and application of Pascal-Sierpiński gasket fractals. 91b:58139
- Bellout, Hamid (with Bloom, Frederick) Existence and asymptotic behavior of smooth solutions for the nonlinear transmission line problem. 91b:35193
- Belogortsev, A. B. (with Vavriv, D. M.; Tretyakov, O. A.) Destruction of synchronous oscillations with nonresonance interaction of active and passive modes. 91b:58105
- Belyanin, M. P. (with Vasil'eva, A. B.; Voronov, A. V.; Tikhonravov, A. V.) An asymptotic approach to the problem of designing a semiconductor device. (Russian) 91b:78021
- Bloom, Frederick see Bellout, Hamid, 91b:35193
- Brezzi, Franco (with Marini, Luisa Donatella; Pietra, Paola) Mixed exponential fitting schemes for current continuity equations. (see 91c:00027)
- Brueck, A. N. Calculation of periodic solutions when a harmonic signal acts on a piecewise-linear system using an integral equation. 91a:34029
- Chang, Hsiang see Chu, Yu Huang; et al., 91b:58107
- Chen, Wai-Kai see Gong, Ji An, 91a:94047
- Chen, Xie Xiong (with Zhao, Xiao Jie) The relationship between threshold functions and symmetric functions. (Not in MR)
- Chu, Jui Hsiung see Chu, Yu Huang; et al., 91b:58107
- Chu, Yu Huang (with Chou, Jui Hsiung; Chang, Hsiang) Chaos from third-order phase-locked loops with a slowly varying parameter. 91b:58107
- Chua, Leon O. (with Oka, Hiroe) Normal forms for constrained nonlinear differential equations. I. Theory. 91a:58168
- (with Yang, Lin) Cellular neural networks: theory. 91d:92005
- (with Yang, Lin) Cellular neural networks: applications. 91d:92006
- (with Yao, Yong; Yang, Qing) Generating randomness from chaos and constructing chaos with desired randomness. 91b:58140
- (with Lin, Tao) Chaos and fractals from third-order digital filters. 91d:58149
- see also Tokunaga, Ryuji; et al., 91b:58120 and Parker, Thomas S., 91b:58098
- Danilov, L. V. (with Solov'eva, E. B.) Construction of macromodels for nonlinear electric circuits on the basis of functional polynomials. (Russian) 91b:93049
- Dmitriev, A. S. (with Kislov, V. Ya.) ★ Стохастические колебания в радиофизике и электронике. (Russian) [Stochastic oscillations in radiophysics and electronics] 91b:58237
- Egorychev, G. P. Mixed discriminants and parallel addition. 91b:15008
- Evdokimova, O. N. (with Kaptsov, L. N.) Amplitude synchronization threshold and Lyapunov factor of stochastic oscillations of an oscillator with an inertial nonlinearity. (Not in MR)
- Fritz, Torsten (with Scholz, Siegfried) Numerische Behandlung speziell strukturierter Differentialgleichungssysteme der Elektrotechnik. [Numerical treatment of specially structured systems of differential equations in electronics] (Not in MR)
- Gong, De Chun see Zhang, Jin Chun; et al., 91b:58123
- Gong, Ji An (with Chen, Wai-Kai) On the design of a multiplexer with a common junction. 91a:94047
- Green, William L. (with Morley, T. D.) Parallel sums of operators. (see 91g:47002)
- (with Morley, T. D.) Parallel sums and norm convergence. 91b:47029
- Grudniewicz, J. see Kudrewicz, J.; et al., 91b:58152
- Gulyaev, Yu. V. see Dmitriev, A. S., 91b:58237
- Hasler, Martin see Azzouz, Abdelnasser, 91b:58069
- Hayeck, Nayla (with Nachaoui, Abdeljalil; Nassif, Nabil R.) Existence and regularity for Van Roosbroeck systems with general mixed boundary conditions. 91m:35221
- Helton, J. William see Bail, Joseph A., 91d:47101
- Hill, David J. (with Mareels, Iven M. Y.) Stability theory for differential/algebraic systems with application to power systems. 91b:34079
- Hu, Gang see Zhang, Jin Chun; et al., 91b:58123
- Huseyni, Kencay (with Yu, Pei) On the dynamics and stability of a codimension-3 autonomous system. 91b:58172
- see also Yu, Pei, 91b:58119
- Inaba, Naohiko see Nishio, Yoshifumi; et al., 91b:58117
- Jiang, Ji Fa The asymptotic behavior of a class of second-order differential equations with applications to electrical circuit equations. 91b:34072
- Kahlert, Claus The chaos producing mechanism in Chua's circuit and related piecewise-linear dynamical systems. 91b:58150
- Dynamics of the inclusions appearing in the return maps of Chua's circuit. II. The annihilation mechanism. 91b:58185
- Kaptsov, L. N. see Evdokimova, O. N., (Not in MR)
- Kipchatov, A. A. Singularities of the complex dynamics of a nonautonomous nonlinear contour. 91j:58111
- see also Andrushkevich, A. V., (Not in MR)
- Kislov, V. Ya. see Dmitriev, A. S., 91b:58237
- Koch, Werner see Beckmann, Peter; et al., 91b:58067
- Kolesov, A. Yu. (with Kolesov, Yu. S.) The Bogolyubov-Mitropol'skii reduction principle in the problem of parametric excitation of autowaves. 91a:35004
- Kolesov, Yu. S. see Kolesov, A. Yu., 91a:35004
- Komuro, Motomasa Normal forms of piecewise linear vector fields and strange attractor analysis. 91b:58163
- Kubo, Fumio see Ando, Tsuyoshi, 91d:15038
- Kudrewicz, J. (with Grudniewicz, J.; Świdzińska, B.) Chaos, phase slipping, and Cantor-like sets in a discrete phase-locked loop. 91b:58152
- Levi, Mark A period-adding phenomenon. 91b:34052
- Lin, Tao see Chua, Leon O., 91d:58149
- Logvin, Yu. A. see Samson, A. M.; et al., 91b:58178
- Luxemburg, Leon A. Frequency analysis of time-varying periodic linear systems by using modulo p transforms and its applications to the computer-aided analysis of switched networks. 91b:94063
- Marchenko, V. F. see Volyak, K. L.; et al., (91b:76029)
- Mareels, Iven M. Y. see Hill, David J., 91b:34079
- Marini, Luisa Donatella (with Pietra, Paola) New mixed finite element schemes for current continuity equations. 91m:78002
- see also Brezzi, Franco; et al., (91c:00027)
- Matsumoto, Takashi see Tokunaga, Ryuji; et al., 91b:58120
- Mirollo, Renato E. see Tsang, Kwok Yeung; et al., 91m:34042
- Miyama, Satoru see Tokunaga, Ryuji; et al., 91b:58120
- Mori, Shinsaku see Nishio, Yoshifumi; et al., 91b:58117
- Morley, T. D. Shorts of block operators and infinite networks—a note on the shorted operator. II. 91d:47014
- see also Green, William L., 91b:47029; Anderson, W. N., Jr.; et al., 91b:93104 and Green, William L., (91g:47002)
- Murgan, A. T. (with Nicolau, Ed.; Pascadi, Manuela A.; Pascadi, M. V.) Oscillations in some nonlinear dynamical systems. II. (Romanian. English summary) 91b:34053
- Nachaoui, Abdeljalil see Hayeck, Nayla; et al., 91m:35221
- Nassif, Nabil R. see Hayeck, Nayla; et al., 91m:35221
- Nicola, Ed. see Murgan, A. T.; et al., 91b:34053
- Ning, Yuan Zhong Waveform relaxation—Chebyshev series analysis. (Chinese. English summary) 91c:49053
- Nishio, Yoshifumi (with Inaba, Naohiko; Mori, Shinsaku; Saito, Toshimichi) Rigorous analyses of windows in a symmetric circuit. 91b:58117
- Ogorzalek, Maciej J. Toward unified analysis of autonomous chaotic electronic circuits. (see 91g:00046)
- Oka, Hiroe see Chua, Leon O., 91a:58168
- O'Malley, Robert E., Jr. (with Schmeiser, Christian) The asymptotic solution of a semiconductor device problem involving reverse bias. 91c:34074
- Parker, Thomas S. (with Chua, Leon O.) Steady-state behavior of nonlinear circuits and systems. 91b:58098
- Pascadi, M. V. see Murgan, A. T.; et al., 91b:34053
- Pascadi, Manuela A. see Murgan, A. T.; et al., 91b:34053
- Pietra, Paola see Marini, Luisa Donatella, 91m:78002 and Brezzi, Franco; et al., (91c:00027)
- Pivka, L. see Spány, V., 91d:58144
- Reich, Sebastian On a geometric characterization of differential-algebraic equations. 91m:34005
- Robinson, F. N. H. Analogue electronic model of the Lorenz equations. 91a:58121
- Saito, Toshimichi Chaotic phenomena in a coupled oscillator. 91b:58163
- An approach toward higher-dimensional hysteresis chaos generators. 91d:58170
- see also Nishio, Yoshifumi; et al., 91b:58117
- Samson, A. M. (with Logvin, Yu. A.; Turovets, S. I.) The role of symmetry and the form of the potential of a nonlinear oscillator in a hierarchy of bifurcations under harmonic action. 91b:58178
- Schmeiser, Christian On strongly reverse biased semiconductor diodes. 91b:82079
- see also O'Malley, Robert E., Jr., 91c:34074
- Scholz, Siegfried see Fritz, Torsten, (Not in MR)
- Schreider, Gernot see Beckmann, Peter; et al., 91b:58067
- Seeger, Alberto An extremal problem involving matricial quadratic forms. 91b:90185
- Seitkazieva, K. S. An integro-differential equation of an electric circuit with negative-differential resistance. (Russian) (see 91j:00012)
- Shvedenko, V. V. Parallel method of high-precision numerical integration for LSI integrated circuit analysis. 91f:65135
- Silva-Ramirez, Hebert Design of P-I controllers for DC-to-DC power supplies via extended linearization. (Not in MR)
- Solov'eva, E. B. see Danilov, L. V., 91b:93049
- Spány, V. (with Pivka, L.) Boundary surfaces in sequential circuits. 91d:58144
- Steinrück, Herbert Asymptotic analysis of the current-voltage curve of a $pnpn$ semiconductor device. 91a:82086
- Streitsov, A. M. see Volyak, K. L.; et al., (91b:76029)
- Strogatz, Steven H. see Tsang, Kwok Yeung; et al., 91m:34042
- Sun, Xiaoguang see Bedrosian, Samuel D., 91b:58139
- Świdzińska, B. see Kudrewicz, J.; et al., 91b:58152
- Tanaka, S. Ein Beitrag zur Berechnung der periodischen Lösung in stark nichtlinearen selbstregten Netzwerken. [A contribution to the calculation of the periodic solution in strongly nonlinear self-excited networks] (Not in MR)
- Tikhonravov, A. V. see Belyanin, M. P.; et al., 91b:78021
- Tokunaga, Ryuji (with Matsumoto, Takashi; Chua, Leon O.; Miyama, Satoru) The piecewise-linear Lorenz circuit is chaotic in the sense of Shil'nikov. 91b:58120
- Trapp, G. E. see Anderson, W. N., Jr.; et al., 91b:93104

- Tref'yakov, O. A. *see* Belogortsev, A. B.; et al., 91b:58105
- Tsang, Kwok Yeung (with Mirollo, Renato E.; Strogatz, Steven H.; Wiesenfeld, Kurt) Dynamics of a globally coupled oscillator array. 91m:34042
- Turdaliev, N. I. Self-correction of schemes for some sequences of Boolean functions. 91b:94066
- Turovets, S. I. *see* Samson, A. M.; et al., 91b:58178
- Vasil'eva, A. B. *see* Belyanin, M. P.; et al., 91b:78021
- Vavriv, D. M. *see* Belogortsev, A. B.; et al., 91b:58105
- Volyak, K. I. (with Marchenko, V. F.; Strel'tsov, A. M.) The modeling of hydrodynamic solitons in nonlinear transmission lines. (Russian. English summary) (see 91b:76029)
- Voronov, A. V. *see* Belyanin, M. P.; et al., 91b:78021
- Wen, Xiao Dong *see* Zhang, Jin Chun; et al., 91b:58123
- Wiesenfeld, Kurt *see* Tsang, Kwok Yeung; et al., 91m:34042
- Yang, Lin *see* Chua, Leon O., 91d:92005 and 91d:92006
- Yang, Qing *see* Chua, Leon O.; et al., 91b:58140
- Yao, Yong *see* Chua, Leon O.; et al., 91b:58140
- Yu, Pei (with Huseyin, Koncay) Dynamic behaviour of an autonomous system with three pairs of pure imaginary eigenvalues. 91m:58119
- *see also* Huseyin, Koncay, 91b:58172
- Zeitler, Herbert Telecommunication and incidence structures. 91b:90085
- Zhang, Jin Chun (with Hu, Gang; Gong, De Chun; Wen, Xiao Dong) Chaos in forced systems and Melnikov's criterion. (Chinese. English summary) 91b:58123
- Zhao, Xiao Jie *see* Chen, Xie Xiong. (Not in MR)
- Zlotowski, M. Chaotic transient hang up phenomenon and $N:1$ phase entrainment in discrete time phase-locked loop of second order. 91b:58167

94C10 Switching theory, application of Boolean algebra; Boolean functions [see also 06E30]

- Aleksanyan, A. A. An extremal problem connected with the complexity of realization of Boolean functions in the class of disjunctive normal forms over linear functions. (Russian. Armenian summary) (Not in MR)
- Andreev, A. E. The complexity of realizing partial Boolean functions by schemes consisting of functional elements. 91b:94058
- Avgul, L. B. (with Suprun, V. P.) Decomposition of Boolean functions based on polynomial expansion. (Not in MR)
- Babin, D. N. Completeness of two-place boundedly deterministic functions with respect to superposition. (Russian) 91b:94059
- Biswas, Nripendra N. *see* Jacob, James, 91b:94060
- Bruck, Jehoshua Harmonic analysis of polynomial threshold functions. 91e:94040
- Chen, Xie Xiong (with Wu, Hao Min) Analysis of ternary sequential circuits based on ternary flip-flops. 91g:94039
- *see also* Zhao, Xiao Jie, 91b:94057 and Wu, Xun Wei; et al., (Not in MR)
- Chernov, A. Yu. On a class of local algorithms. 91d:94031
- Ebata, Katsuhiko (with Kutsuwa, Toshiro; Kadamaru, Noriko) On a construction of configurable logic circuits. (Not in MR)
- Falkowski, Bernd-Jürgen (with Perkowski, M. A.) One more way to calculate the Hadamard-Walsh spectrum for completely and incompletely specified Boolean functions. 91b:94037
- Gasparyan, Yu. M. (with Oganesyan, D. R.) On calculating the norm of monotone Boolean functions. (Russian. Armenian summary) (Not in MR)
- Green, D. H. Ternary Reed-Muller switching functions with fixed and mixed polarities. 91e:94041
- Families of Reed-Muller canonical forms. (Not in MR)
- Grinchuk, M. I. Complexity of the realization of a sequence of triangular Boolean matrices by gate circuits of various bounded depth. (Russian) (see 91b:90013)
- On the complexity of relay contact networks realizing symmetric Boolean functions. (Russian) 91e:94038
- Garov, S. I. Reduction of arbitrary Boolean functions to monotone functions. (Russian) 91b:94045
- Habib, Maki K. Boolean matrix representation for the conversion of minterms to Reed-Muller coefficients and the minimization of exclusive-OR switching functions. 91e:94042
- Hampson, Steven E. (with Volper, Dennis J.) Representing and learning Boolean functions of multivalued features. 91f:94033
- Ikedo, Kiyoko *see* Miyakawa, Masahiro; et al., (Not in MR)
- Jacob, James (with Biswas, Nripendra N.) Further comments on: "Detection of faults in programmable logic arrays" [IEEE Trans. Comput. 28 (1979), no. 11, 845-853; MR 81a:94065] by J. E. Smith. 91b:94060
- Jukna, Stasys P. Functional approximations in the theory of lower bounds for circuit complexity. (Russian) 91b:94046
- Kadamaru, Noriko *see* Ebata, Katsuhiko; et al., (Not in MR)
- Karchmer, Maurice (with Wigderson, Avi) Monotone circuits for connectivity require super-logarithmic depth. 91b:94061
- Koval'ev, M. M. (with Moshchenko, A. V.) Searching for the maximal upper zero of a threshold function in multivalued logic. (Russian) 91b:94038
- Kropacz, W. S. (with Mikolajuk, K.; Tobola, A.) Transformerless synthesis of transistor and thyristor switching RLC 1-ports. (Not in MR)
- Kutsuwa, Toshiro *see* Ebata, Katsuhiko; et al., (Not in MR)
- Lipatova, A. E. On a covering of a set of binary vectors and the realization of conjunctions by switching circuits. (Russian) 91b:94062
- Luxemburg, Leon A. Frequency analysis of time-varying periodic linear systems by using modulo p transforms and its applications to the computer-aided analysis of switched networks. 91b:94063
- Maaz, U. (with Rieder, F.) Effektive Berechnung Boolescher Funktionen in einer 3 wertigen Algebra. [Efficient computation of Boolean functions in a 3-valued algebra] (Not in MR)
- Mikolajuk, K. *see* Kropacz, W. S.; et al., (Not in MR)
- Min, Ying Hua Programmable logic arrays with the properties of easy test generation. (Not in MR)
- Miyakawa, Masahiro (with Ikeda, Kiyoko; Stojmenovic, Ivan) Corrigendum to: "Bases of Boolean functions under certain compositions" [Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat. 15 (1985), no. 2, 91-103; MR 88f:94061]. (Not in MR)
- Mizutani, Hikaru (with Tanaka, Mamoru) Analysis for singular equation in search process for operating state of transistor network. (Not in MR)
- Moshchenko, A. V. *see* Koval'ev, M. M., 91b:94038
- Murzhenko, O. N. Simplification of threshold circuits designed by the intermediate transformation method. (Russian) (Not in MR)
- Noskov, V. N. A method for the design of suitable control circuits composed of functional elements. (Russian) (Not in MR)
- Oganesyan, D. R. *see* Gasparyan, Yu. M., (Not in MR)
- Perkowski, M. A. *see* Falkowski, Bernd-Jürgen, 91b:94037
- Pichler, Franz Konstruktion korrelationsimmuner Schaltfunktionen und Schaltwerke mittels Walsh-Fourieranalyse. [Construction of correlation-immune switching functions and circuits using Walsh-Fourier analysis] (see 91g:90033)
- Piaskin, V. A. Decomposition of Boolean functions and construction of asynchronous hazard-free circuits. 91b:94032
- Prosser, Franklin *see* Wu, Xun Wei; et al., (Not in MR)
- Red'kin, N. P. Complete verifying tests for circuits composed of functional elements. (Russian) 91b:94064
- Rieder, F. *see* Maaz, U., (Not in MR)
- Shkalikova, N. A. Realization of Boolean functions by circuits composed of cellular elements. (Russian) 91b:94065
- Shmerko, V. P. *see* Zaitseva, E. N.; et al., 91a:94046
- Skobelev, V. G. Realization of Boolean functions on multiplexors. (Russian) 91b:94033
- A method for minimizing Boolean functions. 91d:94032
- (Smith, James E.) *see* Jacob, James, 91b:94060
- Sobakin, E. L. Synthesis of combinational devices from full decoders. (Not in MR)
- Stojmenovic, Ivan *see* Miyakawa, Masahiro; et al., (Not in MR)
- Suprun, V. P. *see* Avgul, L. B., (Not in MR)
- Solovay, Peter ★ The extraction of a memory block from a combinational functional description (truth table). 91a:94045
- Tanaka, Mamoru *see* Mizutani, Hikaru, (Not in MR)
- Tobola, A. *see* Kropacz, W. S.; et al., (Not in MR)
- Torosyan, B. E. Complexity of polynomial separation of subsets in finite sets. (Russian. Armenian summary) (Not in MR)
- Turdaliev, N. I. Self-correcting schemes of functional elements for a linear function. (Russian) 91b:94056
- Self-correction of schemes for some sequences of Boolean functions. 91b:94066
- Ugol'nikov, A. B. On the complexity of realization by formulas of a sequence of functions of many-valued logic. (Russian) 91b:94067
- Uhlig, Dietmar Reliable networks for Boolean functions with small complexity. 91e:94043
- Ustyuzhaninov, V. G. Computer experiments with a search for the minimum lower unit of a monotone Boolean function. (Russian) (Not in MR)
- Vikhlyantsev, I. A. Realization of systems of conjunctions by means of switching circuits. (Russian) 91b:94068
- Self-correction for buffer switching circuits. (Russian) 91e:94044
- Volper, Dennis J. *see* Hampson, Steven E., 91f:94033
- Wigderson, Avi *see* Karchmer, Maurice, 91b:94061
- Wu, Hao Min *see* Chen, Xie Xiong, 91g:94039
- Wu, Xun Wei (with Chen, Xie Xiong; Prosser, Franklin) Binary-ternary mixed-valued encoding and mixed-valued counter. (Not in MR)
- Yanushkevich, S. N. *see* Zaitseva, E. N.; et al., 91a:94046
- Zadoyan, K. V. Complete Boolean function. (Russian. Armenian summary) (Not in MR)
- Zaitseva, E. N. (with Yanushkevich, S. N.; Shmerko, V. P.) Generalization of Boolean differentiation and integration for functions of many-valued logic. (Russian) 91a:94046
- Zadoyan, K. V. Complexity of realizing code functions in a class of switching circuits without zero chains. (Russian) 91f:94034
- Zhang, Yan Zhong Optimization of multiple-output exclusive-OR logic circuits. 91f:94035
- Zhao, Xiao Jie (with Chen, Xie Xiong) A new method for transforming arbitrary switching functions into symmetric functions. (Chinese. English summary) 91f:94057
- Zhou, Pei De A parallel computation algorithm for transforming network systems into unintersected versions. (Chinese) (Not in MR)

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- Abdullaeva, N. D. Organization of chains in an n -dimensional cube by the methods of coding theory. (Russian) 91f:94019
- Aleksanyan, A. A. Realization of weakly defined Boolean functions by linearized disjunctive normal forms. 91d:68096
- Babal, László (with Pudlák, Pavel; Rödl, Vojtěch; Szemerédi, Endre) Lower bounds to the complexity of symmetric Boolean functions. 91b:68038
- Banković, Dragić Some remarks on number of parameters of the solutions of Boolean equations. 91d:06014
- Bilardi, Gianfranco (with Preparata, Franco P.) Characterization of associative operations with prefix circuits of constant depth and linear size. 91b:68076
- Deschamps, J. Fermetures génératrices et fonctions booléennes. [Generating closures and Boolean functions] 91j:06031
- Grigoryan, Yu. G. A group of arithmetic automorphisms of simple cycles. 91j:20011
- Hidaka, Toshimitsu Analysis of parallel redundant system with dependent failures. (Not in MR)
- Huot, H. B., III (with Stearns, Richard E.) The complexity of very simple Boolean formulas with applications. 91f:68064
- Igamberdiyev, T. M. The number of solutions of some types of systems of Boolean equations. (Russian) 91g:06012
- Jin, Bo Ping *see* Min, Ying Hua; et al., (Not in MR)
- Jukna, Stasys P. The effect of null-chains on the complexity of contact schemes. 91d:68049
- Kasim-Zade, O. M. Complexity of realization of Boolean functions in a model of electronic circuits. (Russian) 91d:94026
- Kean, Alex (with Tsiknis, George) An incremental method for generating prime implicates/implicates. 91b:68071
- (Kuznetsov, S. E.) *see* Nigmatullin, R. G., 91m:68090
- Malat, V. P. *see* Ratsa, M. F., 91b:93045

- Malsiya, Yashwant K. *see* Min, Ying Hua; et al., (Not in MR)
- Martin, Norman M. *see* Pelletier, Francis Jeffrey, 91b:03015
- Melter, Robert A. Boolean functions which preserve levels. 91d:06015
- Min, Ying Hua (with Malsiya, Yashwant K.; Jin, Bo Ping) Aliasing errors in parallel signature analyzers. (Not in MR)
- Nguyen Van Khoe Structural properties of a family of G -complete closed classes of k -valued logic. (Russian. English summary) 91a:03049
- Nigmatullin, R. G. ★ Нижние оценки сложности и сложность универсальных схем. (Russian) [Lower bounds on complexity and the complexity of universal schemes] 91m:68090
- (Nurmeev, N.) *see* Nigmatullin, R. G., 91m:68090
- Parberry, Ian Single-exception sorting networks and the computational complexity of optimal sorting network verification. 91b:68028
- Pelletier, Francis Jeffrey (with Martin, Norman M.) Post's functional completeness theorem. 91b:03015
- Preparata, Franco P. *see* Biliardi, Gianfranco, 91b:68076
- Radlák, Pavel *see* Babai, László; et al., 91b:68038
- Raisa, M. F. (with Malai, V. P.) A chain class of sectorial functions of the logic of the first Jaikowski matrix. (Russian) 91b:03045
- ★ Итеративные цепные классы псевдобулевых функций. (Russian) [Iterative chain classes of pseudo-Boolean functions] 91b:03128
- Razborov, A. A. Applications of matrix methods to the theory of lower bounds in computational complexity. 91b:68043
- Red'kin, N. P. Circuits that allow short unit diagnostic tests. 91b:90099
- Ridd, Vojtěch *see* Babai, László; et al., 91b:68038
- Rosner, B. A. A series of maximal subalgebras of direct products of algebras of finite-valued logics. 91a:03116
- On the problem of completeness in the algebra of partial functions of finite-valued logic. 91b:03127
- Ross, Keith W. (with Tsang, Danny) Teletraffic engineering for product-form circuit-switched networks. 91g:90069
- Rudeanu, Sergiu Behavioural automata. I. Minimal automata. 91m:68132
- Sapozhenko, A. A. The number of antichains in multilayered ranked sets. 91k:06008
- Shneider, A. A. Minimization of a system of disjunctive normal forms of completely determinate Boolean functions. (Russian. English summary) 91b:06024
- Simon, Hans-Ulrich Continuous reductions among combinatorial optimization problems. 91f:68166
- Stearns, Richard E. *see* Hunt, H. B., III, 91f:68064
- Suprun, V. P. A method for polynomial decomposition of Boolean functions. (Russian. English summary) 91d:06017
- Szemerédi, Endre *see* Babai, László; et al., 91b:68038
- Tsang, Danny *see* Ross, Keith W., 91g:90069
- Tsiknis, George *see* Koss, Alex, 91b:68071
- Turán, György On restricted Boolean circuits. 91a:68066
- Vichniac, Gérard Y. Boolean derivatives on cellular automata. 91k:68156
- Wegener, Ingo ★ Effiziente Algorithmen für grundlegende Funktionen. (German) [Efficient algorithms for fundamental functions] 91b:68003

94C12 Fault detection; testing

- Bucur, Eng. I. Analytic model for multiple fault pseudorandom testing. (French and Russian summaries) 91m:94040
- Frolov, A. B. ★ Модели и методы технической диагностики. (Russian) [Models and methods in engineering diagnosis] 91k:94047
- Guran, Hasan (with Halici, Ugur) Complete test generation method for all stuck-at faults in combinational circuits. 91m:94041
- Halici, Ugur *see* Guran, Hasan, 91m:94041
- He, Yong Bao *see* Peng, Cheng Lian; et al., (Not in MR)
- Moshkov, M. Ya. Conditions for the uniqueness of a deadlock test. (Russian) 91b:94058
- Peng, Cheng Lian (with You, Chao Song; He, Yong Bao) A study on characteristics of Walsh spectra with logic faults. (Chinese. English summary) (Not in MR)
- You, Chao Song *see* Peng, Cheng Lian; et al., (Not in MR)

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- AbolFotouh, Hosam M. (with Colbourn, Charles J.) Efficient algorithms for computing the reliability of permutation and interval graphs. 91m:68008
- Colbourn, Charles J. *see* AbolFotouh, Hosam M., 91m:68008

94C15 Applications of graph theory [see also 05Cxx, 68R10]

- Bassalygo, L. A. (with Pinsker, M. S.) A controlled connector. (Not in MR)
- Grigni, Michelangelo (with Peleg, David) Tight bounds on minimum broadcast networks. 91m:94042
- Hasan, N. *see* McKinley, P. K.; et al., (Not in MR)
- Huang, Ru Ji Subnetwork-extraction theorems and their applications. 91a:94045
- Hwang, F. K. (with Yao, Yi-Ching) A generalization of the monotonicity theorem in group testing with applications to random multiaccess channels. 91d:94033
- Jiang, Guo Jun (with Lu, Sheng Xun) Graph decomposition algorithms for finding maximal cliques. (Chinese. English summary) (Not in MR)
- Libeskind-Hadas, R. *see* McKinley, P. K.; et al., (Not in MR)
- Liu, Chung Laung *see* McKinley, P. K.; et al., (Not in MR)
- Lu, Sheng Xun *see* Jiang, Guo Jun, (Not in MR)
- Masuyama, Hiroshi (with Miki, Tadayuki) Reorganization of node connection in chordal-ring networks with variation of the number of nodes. (Not in MR)
- McKinley, P. K. (with Hasan, N.; Libeskind-Hadas, R.; Liu, Chung Laung) Disjoint covers in replicated heterogeneous arrays. (Not in MR)
- Miki, Tadayuki *see* Masuyama, Hiroshi, (Not in MR)
- Narayanan, H. The principal lattice of partitions of a submodular function. 91b:94059
- Narayanan, A. A few theorems concerning pairs of matroid bases. (Not in MR)
- Onodera, Hidetoshi *see* Sakamoto, Mamoru; et al., (Not in MR)
- Peleg, David *see* Grigni, Michelangelo, 91m:94042
- Pinsker, M. S. *see* Bassalygo, L. A., (Not in MR)
- Sakamoto, Mamoru (with Onodera, Hidetoshi; Tamaru, Keikichi) Shiftcompaction—quasi-two-dimensional compaction method for symbolic layout. (Not in MR)
- Smyth, Christopher Bounds for nonblocking switch networks. 91b:94069
- Tamaru, Keikichi *see* Sakamoto, Mamoru; et al., (Not in MR)
- Yao, Yi-Ching *see* Hwang, F. K., 91d:94033
- Items with secondary classifications in 94C15
- Annexstein, Fred (with Baumslag, Marc; Rosenberg, Arnold L.) Group action graphs and parallel architectures. 91g:68070
- Ariyoshi, Hiromu *see* Noda, Takashi²; et al., (Not in MR)
- Baumslag, Marc *see* Annexstein, Fred; et al., 91g:68070
- (Bérel, O.) *see* Vágó, István, 91b:05001
- Bruck, Jehoshua (with Roychowdhury, Vwani P.) On the number of spurious memories in the Hopfield model. 91c:92122
- Brzozowski, J. A. (with Seger, C.-J.) A unified framework for race analysis of asynchronous networks. 91g:68017
- Caccetta, L. Graph theory in network design and analysis. 91c:05097
- Dąbrowski, Adam (with Moschytz, George S.) Direct analysis of multiphase switched-capacitor networks using signal-flow graphs. 91i:94053
- Du, Ding Zhu (with Hsu, D. Frank; Li, Qiao; Xu, Jun Ming) A combinatorial problem related to distributed loop networks. 91a:68011
- Ebrahimi Zadeh, G. *see* Kaveh, A., 91b:05116
- Even, Shimon (with Rajsbaum, Sergio) Unison in distributed networks. 91a:68012
- Feng, Gui Liang (with Tzeng, Kenneth K.) A generalized Euclidean algorithm for multisuccessor shift-register synthesis. 91g:94013
- Gibbens, R. J. (with Kelly, Frank P.) Dynamic routing in fully connected networks. (Not in MR)
- Guo, Feng (with Watanabe, Yoichiro) On graphs in which the Shannon capacity is unachievable by finite product. 91b:05153
- Higashiyama, Youichi *see* Noda, Takashi²; et al., (Not in MR)
- Hsu, D. Frank *see* Du, Ding Zhu; et al., 91a:68011
- Huang, Ru Ji Primary subhypergraph analysis method for hypernetworks. 91a:90068
- Jover, J. M. (with Kailath, Thomas; Lev-Ari, Hanoch; Rao, Sailesh K.) On the analysis of synchronous computing systems. 91d:68056
- Kailath, Thomas *see* Jover, J. M.; et al., 91d:68056
- Kasangian, Stefano (with Walters, R. F. C.) The duality between flow charts and circuits. 91j:68033
- Kashiwagi, Kenichi *see* Nishizeki, Takao, 91f:05055
- Kaveh, A. (with Ebrahimi Zadeh, G.) An efficient program for generating subminimal cycle bases of graphs. 91b:05116
- Kelly, Frank P. *see* Gibbens, R. J., (Not in MR)
- Kincaid, Rex K. (with Lowe, Timothy J.) Locating an absolute center on graphs that are almost trees. 91a:90071
- Lawler, Gregory F. (with Sylvester, John) Determining resistances from boundary measurements in finite networks. 91a:94043
- Lev-Ari, Hanoch *see* Jover, J. M.; et al., 91d:68056
- Li, Qiao *see* Du, Ding Zhu; et al., 91a:68011
- Lowe, Timothy J. *see* Kincaid, Rex K., 91a:90071
- Lu, Sheng Xun Topological decomposition of a network. 91a:05076
- Madigan, David (with Mosurski, Krzysztof) An extension of the results of Asmussen and Edwards on collapsibility in contingency tables. 91b:62075
- Miyahara, Hideo *see* Yokohira, Tokumi, 91c:90047
- Monien, Burkhard (with Sudborough, Ivan Hal) Embedding one interconnection network in another. (German summary) 91f:68051
- Moschytz, George S. *see* Dąbrowski, Adam, 91i:94053
- Mosurski, Krzysztof *see* Madigan, David, 91b:62075
- Narayanan, H. On the minimum hybrid rank of a graph relative to a partition of its edges and its application to electrical network analysis. 91m:90179
- Nishizeki, Takao (with Kashiwagi, Kenichi) On the 1.1 edge-coloring of multigraphs. 91f:05055
- Noda, Takashi² (with Higashiyama, Youichi; Ariyoshi, Hiromu; Shirakawa, Isao) An optimal symbolic reliability expression using spanning trees for source-to-all-terminal systems. (Not in MR)
- Pippenger, Nicholas The expected capacity of concentrators. 91k:68164
- Rajsbaum, Sergio *see* Even, Shimon, 91a:68012
- Rao, Sailesh K. *see* Jover, J. M.; et al., 91d:68056
- Ravi, S. S. On the orderability problem for PLA folding. 91c:68056
- Reckl, András ★ Matroid theory and its applications in electric network theory and in statics. 91f:05038
- Rosenberg, Arnold L. *see* Annexstein, Fred; et al., 91g:68070
- Roychowdhury, Vwani P. *see* Bruck, Jehoshua, 91c:92122
- Sakamoto, Akio *see* Shimamoto, Takashi, 91c:90045
- Seger, C.-J. *see* Brzozowski, J. A., 91g:68017
- Shimamoto, Takashi (with Sakamoto, Akio) Cycle breaking and longest path in channel routing problem. 91c:90045
- Shirakawa, Isao *see* Noda, Takashi²; et al., (Not in MR)
- Sudborough, Ivan Hal *see* Monien, Burkhard, 91f:68051
- Sun, Shi Xia On graceful immersions of K_n in Q_n . (Chinese. English summary) 91a:05088
- Sylvester, John *see* Lawler, Gregory F., 91a:94043
- Tetelbaum, A. Ya. Force placement of a planar graph. 91c:05070
- Thuns, Peter Predicting an optimal threshold in Boolean analysis of questionnaires. 91g:92032
- Tzeng, Kenneth K. *see* Feng, Gui Liang, 91g:94013
- Vágó, István ★ Graph theory. 91b:05001
- Walters, R. F. C. *see* Kasangian, Stefano, 91j:68033
- Watanabe, Yoichiro *see* Guo, Feng, 91b:05153
- Xu, Jun Ming *see* Du, Ding Zhu; et al., 91a:68011

- Yokohira, Tokumi (with Miyahara, Hideo) Comparison of stability for various routing-procedures in circuit-switched networks. 91c:90047
 Zhang, Jian Zhong Analysis and design of fault-tolerant capability of single-stage interconnection network RMISE. 91d:68002

94C30 Applications of design theory [see also 05Bxx]

- Chen, Wai-Kai see Gong, Ji An, 91a:94047
 Gong, Ji An (with Chen, Wai-Kai) On the design of a multiplexer with a common junction. 91a:94047

Items with secondary classifications in 94C30

- Alon, Noga (with Karchmer, Mauricio; Wigderson, Avi) Linear circuits over GF(2). 91f:05024
 Karchmer, Mauricio see Alon, Noga; et al., 91f:05024
 Szolgy, Peter ★ The extraction of a memory block from a combinational functional description (truth table). 91a:94045
 Wigderson, Avi see Alon, Noga; et al., 91f:05024

94C99 None of the above, but in this section

- Chen, Xie Xiong (with Wu, Hao Min) Three-valued time series circuit analysis based on three-valued triggers. (Chinese) 91b:94070
 Jin, Bo Ping see Min, Ying Hua; et al., (Not in MR)
 Leemasters, D. M. W. Application of interval analysis for circuit design. (Not in MR)
 Malaiya, Yashwant K. see Min, Ying Hua; et al., (Not in MR)
 Min, Ying Hua (with Malaiya, Yashwant K.; Jin, Bo Ping) Aliasing errors in parallel signature analyzers. (Not in MR)
 Siler, William (with Ying, Hao) Fuzzy control theory: the linear case. 91a:94048
 Wu, Hao Min see Chen, Xie Xiong, 91b:94070
 Ying, Hao see Siler, William, 91a:94048

Items with secondary classifications in 94C99

- Grzech, Adam Performance comparison of single and integrated local area networks. (Russian and Polish summaries) (Not in MR)
 Hakimi, S. Louis see Tsan, Tai-Ching, 91g:68006
 Kalpazidou, Sofia On transience of circuit processes. 91m:60129
 Kaplan, B. Z. (with Yardeni, D.) Development of a symmetrically stabilized four-phase oscillator and some implications. 91b:34064
 Kolodila, B. B. (with Litvinchev, I. S.; Tsurkov, V. I.) The problem of optimal deployment of information-and-computer equipment in a three-level real-time network. (Not in MR)
 Litvinchev, I. S. see Kolodila, B. B.; et al., (Not in MR)
 Potapov, A. A. see Volovodov, S. K.; et al., 91c:34091
 Rozenvasser, E. N. see Volovodov, S. K.; et al., 91c:34091
 Tsurkov, V. I. see Kolodila, B. B.; et al., (Not in MR)
 Tsan, Tai-Ching (with Hakimi, S. Louis) River routing with a small number of jogs. 91g:68006
 Volovodov, S. K. (with Potapov, A. A.; Rozenvasser, E. N.) Numerical-analytical investigation of periodic regimes in multiply-connected nonlinear pulse systems. 91c:34091
 Yardeni, D. see Kaplan, B. Z., 91b:34064

94D05 Fuzzy sets and logic [see also 03B52, 03E72, 04A72, 28E10]

- Bucurescu, Irina see Iordache, Octavian; et al., 91a:94049
 Dubois, Didier (with Prade, Henri M.) ★ Теория возможностей. (Russian) [Possibility theory] 91k:94048
 Fullér, Róbert see Kovács, Margit; et al., 91c:94039
 Hirota, Kaoru (with Pedrycz, Witold) Designing sequential systems with fuzzy J-K flip-flops. (Not in MR)
 — see also Kóczy, László T., 91f:94036
 Iordache, Octavian (with Bucurescu, Irina; Pascu, Anca) Lumpability in compartmental models. 91a:94049
 Janka, Wolfgang H. see Progress in fuzzy sets and systems, 91b:94071
 Jumarie, Guy A theory of information for vague concepts. Outline of application to approximate reasoning. (Not in MR)
 Kóczy, László T. (with Hirota, Kaoru) Digital circuits based on algebraic fuzzy operations. 91f:94036
 Kovács, Margit (with Vasil'ev, F. P.; Fullér, Róbert) Stability of a fuzzy solution of systems of linear algebraic equations with fuzzy coefficients. 91c:94039
 Pascu, Anca see Iordache, Octavian; et al., 91a:94049
 Pedrycz, Witold see Hirota, Kaoru. (Not in MR)
 Prade, Henri M. see Dubois, Didier, 91k:94048
 (Roubens, Marc) see Progress in fuzzy sets and systems, 91b:94071
 Tarasov, V. B. see Dubois, Didier, 91k:94048
 Vasil'ev, F. P. see Kovács, Margit; et al., 91c:94039
 Zimmermann, H.-J. see Progress in fuzzy sets and systems, 91b:94071

Items listed otherwise than by author

- Progress in fuzzy sets and systems ★ Progress in fuzzy sets and systems. 91b:94071
 Vienna ★ Progress in fuzzy sets and systems. 91b:94071

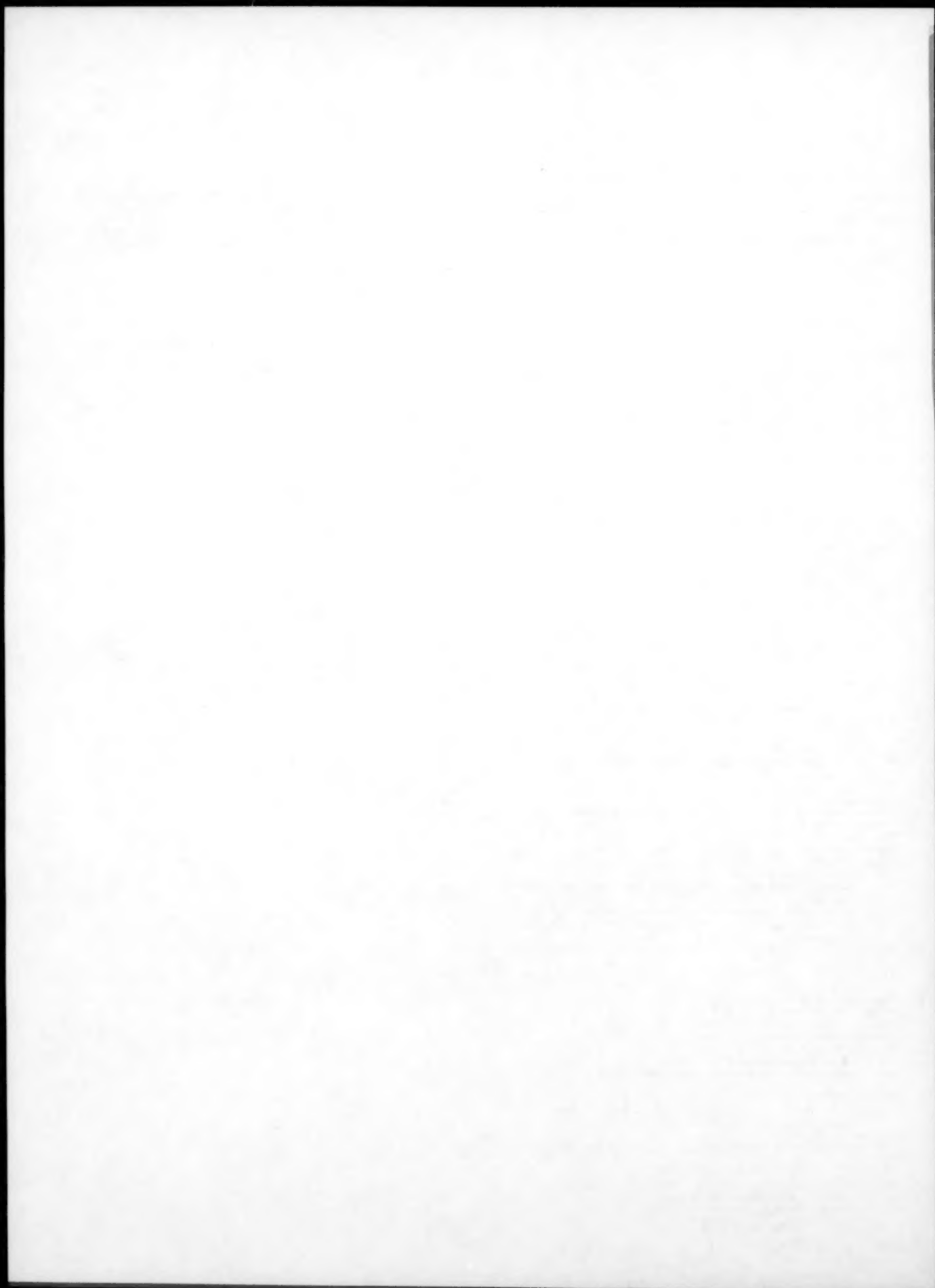
Workshop:

- Progress in Fuzzy Sets in Europe ★ Progress in fuzzy sets and systems. 91b:94071

Items with secondary classifications in 94D05

- Atanassov, K. T. (with Gargov, Georgi) Intuitionistic fuzzy logic. 91g:03054
 Cao, Zhi Qiang see Kandel, Abraham; et al., 91m:93006
 Cappelletti, B. see Da, Ruan; et al., 91g:03055

- Chandhry, Sohail S. (with Kincaid, Rex K.) Comments on: "Facility location problem on a network under multiple criteria—fuzzy set theoretic approach" [Internat. J. Systems Sci. 19 (1988), no. 12, 2555–2559; MR 89j:90102] by J. R. Rao and K. Saraswati. 91h:90037
 Da, Ruan (with Kerre, Etienne E.; De Cooman, G.; Cappelletti, B.; Vanmassenhove, F.) Influence of the fuzzy implication operator on the method-of-cases inference rule. 91g:03055
 De Cooman, G. see Da, Ruan; et al., 91g:03055
 Diamond, Phil (with Kloeden, Peter E.) Metric spaces of fuzzy sets. 91f:54004
 — Higher level fuzzy numbers arising from fuzzy regression models. (Not in MR)
 Di Nola, Antonio (with Pedrycz, Witold; Sessa, Salvatore) An aspect of discrepancy in the implementation of modus ponens in the presence of fuzzy quantities. 91g:03056
 Dubois, Didier (with Prade, Henri M.) Scalar evaluations of fuzzy sets: overview and applications. 91b:03092
 Gargov, Georgi see Atanassov, K. T., 91g:03054
 Goggenheimer, Heinrich W. Limit theorems for Dempster composition in probabilistic logic. (Russian summary) 91i:03049
 Hirota, Kaoru see Kóczy, László T.; et al., 91j:68008
 Jumarie, Guy Structural entropies of order s and of order (r, s) for deterministic functions with an application of fuzzy set theory. 91j:94009
 Kandel, Abraham (with Peng, Xian Tu; Cao, Zhi Qiang; Wang, Pei Zhuang) Representation of concepts by factor spaces. 91m:93006
 Kerre, Etienne E. see Da, Ruan; et al., 91g:03055
 Kincaid, Rex K. see Chandhry, Sohail S., 91h:90037
 Kloeden, Peter E. see Diamond, Phil, 91f:54004
 Kóczy, László T. (with Hirota, Kaoru; Ozawa, Kazuhiro) Knowledge representation and accumulation by fuzzy flip-flops. 91j:68008
 Lee, Chuen Chien Fuzzy logic in control systems: fuzzy logic controller. I, II. 91d:93041
 Levitov, A. Yu. Calculus of estimates. 91f:93034
 Liu, Kai Di see Wang, Qing Yin; et al., 91a:94008
 Martens, Hans (with de Muynck, Willem M.) Nonideal quantum measurements. 91k:81019
 de Muynck, Willem M. see Martens, Hans, 91k:81019
 Nojiri, Hideyuki Dynamic team decision problems with ultrafuzzy information structures. 91c:90003
 Novák, Vilém ★ Fuzzy sets and their applications. 91a:04007
 Ozawa, Kazuhiro see Kóczy, László T.; et al., 91j:68008
 Pedrycz, Witold see Di Nola, Antonio; et al., 91g:03056
 Peng, Xian Tu see Kandel, Abraham; et al., 91m:93006
 Prade, Henri M. see Dubois, Didier, 91b:03092
 (Rao, J. R.) see Chandhry, Sohail S., 91h:90037
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 Sessa, Salvatore see Di Nola, Antonio; et al., 91g:03056
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1991

MATHEMATICS

SUBJECT

CLASSIFICATION

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT FÜR MATHEMATIK

TABLE OF CONTENTS

| | | | |
|----|---|----|--|
| 00 | General | 44 | Integral transforms, operational calculus |
| 01 | History and biography | 45 | Integral equations |
| 03 | Mathematical logic and foundations | 46 | Functional analysis |
| 04 | Set theory | 47 | Operator theory |
| 05 | Combinatorics | 49 | Calculus of variations and optimal control; optimization |
| 06 | Order, lattices, ordered algebraic structures | 51 | Geometry |
| 08 | General algebraic systems | 52 | Convex and discrete geometry |
| 11 | Number theory | 53 | Differential geometry |
| 12 | Field theory and polynomials | 54 | General topology |
| 13 | Commutative rings and algebras | 55 | Algebraic topology |
| 14 | Algebraic geometry | 57 | Manifolds and cell complexes |
| 15 | Linear and multilinear algebra; matrix theory | 58 | Global analysis, analysis on manifolds |
| 16 | Associative rings and algebras | 60 | Probability theory and stochastic processes |
| 17 | Nonassociative rings and algebras | 62 | Statistics |
| 18 | Category theory, homological algebra | 65 | Numerical analysis |
| 19 | K -theory | 68 | Computer science |
| 20 | Group theory and generalizations | 70 | Mechanics of particles and systems |
| 22 | Topological groups, Lie groups | 73 | Mechanics of solids |
| 26 | Real functions | 76 | Fluid mechanics |
| 28 | Measure and integration | 78 | Optics, electromagnetic theory |
| 30 | Functions of a complex variable | 80 | Classical thermodynamics, heat transfer |
| 31 | Potential theory | 81 | Quantum theory |
| 32 | Several complex variables and analytic spaces | 82 | Statistical mechanics, structure of matter |
| 33 | Special functions | 83 | Relativity and gravitational theory |
| 34 | Ordinary differential equations | 85 | Astronomy and astrophysics |
| 35 | Partial differential equations | 86 | Geophysics |
| 39 | Finite differences and functional equations | 90 | Economics, operations research, programming, games |
| 40 | Sequences, series, summability | 92 | Biology and other natural sciences, behavioral sciences |
| 41 | Approximations and expansions | 93 | Systems theory; control |
| 42 | Fourier analysis | 94 | Information and communication, circuits |
| 43 | Abstract harmonic analysis | | |

1991 Mathematics Subject Classification

1991 Mathematics Subject Classification (MSC)

This is a reprint of the 1991 MSC which has been in use at MR starting with the January 1991 issue. The 1991 MSC was first printed in the Annual Index for 1990 together with a brief summary of the changes from the 1985 revision of the 1980 MSC. Conversion tables with a more detailed description of the changes are available from the Editorial Office of MR.

Instructions for using the 1991 Mathematics Subject Classification

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers to find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. The review of a paper or book should be printed in the section where it will receive the broadest attention from all readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside of mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every paper or book reviewed in MR receives precisely one "primary" classification number, which is simply the number of the section in which the review of the item will be printed. This section should be the one that covers the principal contribution. When a paper contains several principal contributions in different areas, the primary

classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classification numbers (or "cross-references"), to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the paper. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

For an item with its primary classification in an "applied" section (68 through 94), it is recommended that a cross-reference be given to any "pure" mathematics section (00 through 65) to which the item being classified makes a contribution.

There are two types of cross-references given after many classifications in the list. The first type is of the form "{For A, see X}"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also...]", "[See mainly...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the paper at hand.

00-XX GENERAL

- 00-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 00-02 Research exposition (monographs, survey articles)
- 00Axx General and miscellaneous specific topics
- 00A05 General mathematics
- 00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)
- 00A07 Problem books
- 00A08 Recreational mathematics
- 00A15 Bibliographies
- 00A20 Dictionaries and other general reference works
- 00A22 Formulas
- 00A30 Philosophy of mathematics [See also 03A05]
- 00A35 Methodology of mathematics, didactics
- 00A69 General applied mathematics (For physics, see 00A79 and Sections 70 through 86)
- 00A71 Theory of mathematical modeling
- 00A72 General methods of simulation
- 00A73 Dimensional analysis
- 00A79 Physics (use more specific entries from Sections 70 through 86 when possible)
- 00A99 Miscellaneous topics
- 00Bxx Conference proceedings and collections of papers
- 00B05 Collections of abstracts of lectures
- 00B10 Collections of articles of general interest
- 00B15 Collections of articles of miscellaneous specific content
- 00B20 Proceedings of conferences of general interest
- 00B25 Proceedings of conferences of miscellaneous specific interest
- 00B30 Festschriften
- 00B50 Volumes of selected translations
- 00B55 Miscellaneous volumes of translations
- 00B60 Collections of reprinted articles [See also 01A75]

01-XX HISTORY AND BIOGRAPHY [See also the classification number -03 in the other sections]

- 01-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 01-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 01-02 Research exposition (monographs, survey articles)
- 01-06 Proceedings, conferences, collections, etc.
- 01-08 Computational methods
- 01Axx History of mathematics and mathematicians
- 01A05 General histories, source books
- 01A07 Ethnomathematics, general
- 01A10 Paleolithic, Neolithic
- 01A12 Indigenous cultures of the Americas
- 01A13 Other indigenous cultures (non-European)
- 01A15 Indigenous European cultures (pre-Greek, etc.)
- 01A16 Egyptian
- 01A17 Babylonian
- 01A20 Greek, Roman
- 01A25 China

- 01A27 Japan
- 01A29 Southeast Asia
- 01A30 Islam (Medieval)
- 01A32 India
- 01A35 Medieval
- 01A40 15th and 16th centuries, Renaissance
- 01A45 17th century
- 01A50 18th century
- 01A55 19th century
- 01A60 20th century
- 01A65 Contemporary
- 01A67 Future perspectives
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A72 Schools of mathematics
- 01A73 Universities
- 01A74 Other institutions and academies
- 01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
- 01A80 Sociology (and profession) of mathematics
- 01A99 Miscellaneous topics

03-XX MATHEMATICAL LOGIC AND FOUNDATIONS

- 03-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 03-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 03-02 Research exposition (monographs, survey articles)
- 03-03 Historical (must also be assigned at least one classification number from Section 01)
- 03-04 Explicit machine computation and programs (not the theory of computation or programming)
- 03-06 Proceedings, conferences, collections, etc.
- 03A05 Philosophical and critical (For philosophy of mathematics, see 00A30)
- 03Bxx General logic
- 03B05 Classical propositional logic
- 03B10 Classical first-order logic
- 03B15 Higher-order logic and type-theory
- 03B20 Subsystems of classical logic (including intuitionistic logic)
- 03B22 Abstract deductive systems
- 03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
- 03B30 Foundations and axiomatics of classical theories
- 03B35 Mechanization of proofs and logical operations [See also 68T15]
- 03B40 Combinatory logic and λ -calculus
- 03B45 Modal and tense logic (For provability logics, see also 03F40)
- 03B46 Relevance and entailment
- 03B48 Probability and inductive logic [See also 60A05]
- 03B50 Many-valued logic
- 03B52 Fuzzy logic [See also 94D05]
- 03B53 Paraconsistent logic
- 03B55 Intermediate logics
- 03B60 Other nonclassical logic

- 03B65 Logic of natural languages [See also 68S05, 92K20]
 03B70 Logic of programming [See also 68Q55, 68Q60]
 03B80 Other applications of logic
 03B99 None of the above, but in this section
03Cxx Model theory
 03C05 Equational classes, universal algebra [See also 08Axx]
 03C07 Basic properties of first-order languages and structures
 03C10 Quantifier elimination and related topics
 03C13 Finite structures
 03C15 Denumerable structures
 03C20 Ultraproducts and related constructions
 03C25 Model-theoretic forcing
 03C30 Other model constructions
 03C35 Categoricity and completeness of theories
 03C40 Interpolation, preservation, definability
 03C45 Stability and related concepts
 03C50 Models with special properties (saturated, rigid, etc.)
 03C52 Properties of classes of models
 03C55 Set-theoretic model theory
 03C57 Recursion-theoretic model theory [See also 03D45]
 03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
 03C62 Models of arithmetic and set theory [See also 03Hxx]
 03C65 Models of other mathematical theories
 03C68 Other classical first-order model theory
 03C70 Logic on admissible sets
 03C75 Other infinitary logic
 03C80 Logic with extra quantifiers and operators [See also 03B45]
 03C85 Second- and higher-order model theory
 03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
 03C95 Abstract model theory
 03C99 None of the above, but in this section
03Dxx Recursion theory
 03D03 Thue and Post systems, etc.
 03D05 Automata and formal grammars in connection with logical questions [See also 68Qxx]
 03D10 Turing machines and related notions [See also 68Q05]
 03D15 Complexity of computation [See also 68Q15]
 03D20 Recursive functions and relations, subrecursive hierarchies
 03D25 Recursively enumerable sets and degrees
 03D30 Other degrees; reducibilities
 03D35 Undecidability and degrees of sets of sentences
 03D40 Word problems, etc. [See also 06B25, 08A50, 20F10]
 03D45 Theory of numerations, effectively presented structures [See also 03C57]
 03D50 Recursive equivalence types of sets and structures, isols
 03D55 Hierarchies
 03D60 Recursion theory on ordinals, admissible sets, etc.
 03D65 Higher-type and set recursion theory
 03D70 Inductive definability
 03D75 Abstract and axiomatic recursion theory
 03D80 Applications of recursion theory
 03D99 None of the above, but in this section
03Exx Set theory [See also 04-XX]
 03E05 Combinatorial set theory [See also 04A20]
 03E10 Ordinal and cardinal numbers [See also 04A10]
 03E15 Descriptive set theory [See also 04A15, 28A05, 54H05]
 03E20 Other classical set theory
 03E25 Axiom of choice and related propositions [See also 04A25]
 03E30 Axiomatics of classical set theory and its fragments
 03E35 Consistency and independence results
 03E40 Other aspects of forcing and Boolean-valued models
 03E45 Constructibility, ordinal definability, and related notions
 03E47 Other notions of set-theoretic definability
 03E50 Continuum hypothesis and Martin's axiom [See also 04A30, 54A25]
 03E55 Large cardinals
 03E60 Determinacy and related principles which contradict the axiom of choice
 03E65 Other hypotheses and axioms
 03E70 Nonclassical and second-order set theories
 03E72 Fuzzy sets [See mainly 04A72]
 03E75 Applications
 03E99 None of the above, but in this section
03Fxx Proof theory and constructive mathematics
 03F03 Proof theory, general
 03F05 Cut-elimination and normal-form theorems
 03F07 Structure of proofs
 03F10 Functionals in proof theory
 03F15 Recursive ordinals and ordinal notations
 03F20 Complexity of proofs
 03F25 Relative consistency and interpretations
 03F30 First-order arithmetic and fragments
 03F35 Second- and higher-order arithmetic and fragments [See also 03E30, 03E70]
 03F40 Gödel numberings in proof theory
 03F50 Metamathematics of constructive systems
 03F55 Intuitionistic mathematics
 03F60 Constructive and recursive analysis [See also 26E40, 46S30, 47S30]
 03F65 Other constructive mathematics [See also 26E40, 46S30, 47S30]
 03F99 None of the above, but in this section
03Gxx Algebraic logic
 03G05 Boolean algebras [See also 06Exx]
 03G10 Lattices and related structures [See also 06Bxx]
 03G12 Quantum logic [See also 81P10]
 03G15 Cylindric and polyadic algebras; relation algebras
 03G20 Lukasiewicz and Post algebras [See also 06D25, 06D30]
 03G25 Other algebras related to logic [See also 06F35]
 03G30 Categorical logic, topoi [See also 18B25]
 03G99 None of the above, but in this section
03Hxx Nonstandard models [See also 03C62]
 03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
 03H10 Other applications of nonstandard models (economics, physics, etc.)
 03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
 03H99 None of the above, but in this section
04-XX SET THEORY [See also 03Exx]
 04-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 04-01 Instructional exposition (textbooks, tutorial papers, etc.)
 04-02 Research exposition (monographs, survey articles)
 04-03 Historical (must also be assigned at least one classification number from Section 01)
 04-04 Explicit machine computation and programs (not the theory of computation or programming)
 04-06 Proceedings, conferences, collections, etc.
 04A03 Set algebra
 04A05 Relations, functions [See also 08A02]
 04A10 Ordinal and cardinal numbers; generalizations [See also 03E10]
 04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 26A21, 28A05, 54H05]
 04A20 Combinatorial set theory [See also 03E05, 05A05]; filters
 04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [See also 03E25]
 04A30 Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25]
 04A72 Fuzzy sets, fuzzy relations [See also 03E72, 94D05] (For fuzzy versions, see specific sections)
 04A99 Miscellaneous topics
05-XX COMBINATORICS (For finite fields, see 11Txx)
 05-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 05-01 Instructional exposition (textbooks, tutorial papers, etc.)
 05-02 Research exposition (monographs, survey articles)
 05-03 Historical (must also be assigned at least one classification number from Section 01)
 05-04 Explicit machine computation and programs (not the theory of computation or programming)
 05-06 Proceedings, conferences, collections, etc.
05Axx Classical combinatorial problems
 05A05 Combinatorial choice problems (subsets, representatives, permutations)
 05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
 05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
 05A16 Asymptotic enumeration
 05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
 05A18 Partitions of sets
 05A19 Combinatorial identities
 05A20 Combinatorial inequalities
 05A30 q -calculus and related topics [See also 03Dxx]
 05A40 Umbral calculus
 05A99 None of the above, but in this section
05Bxx Designs and configurations (For applications of design theory, see 94C30)
 05B05 Block designs [See also 51E05, 62K10]
 05B07 Triple systems
 05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
 05B15 Orthogonal arrays, Latin squares, Room squares
 05B20 Matrices (incidence, Hadamard, etc.)
 05B25 Finite geometries [See also 51D20, 51Exx]
 05B30 Other designs, configurations [See also 51E30]
 05B35 Matroids, geometric lattices [See also 52B40, 90C27]
 05B40 Packing and covering [See also 11H31, 52C15, 52C17]
 05B45 Tessellation and tiling problems [See also 52C20, 52C22]

- 05B50 Polyominoes
 05B99 None of the above, but in this section
05Cxx Graph theory (For applications of graphs, see 68Q90, 68R10, 90C35, 94C15)
 05C05 Trees
 05C10 Topological graph theory, embedding [See also 57M15, 57M25]
 05C12 Distance in graphs
 05C15 Chromatic theory of graphs and maps
 05C20 Directed graphs (digraphs), tournaments
 05C25 Graphs and groups [See also 20F32]
 05C30 Enumeration of graphs and maps
 05C35 Extremal problems [See also 90C35]
 05C38 Paths and cycles [See also 90B10]
 05C40 Connectivity
 05C45 Eulerian and Hamiltonian graphs
 05C50 Graphs and matrices
 05C55 Generalized Ramsey theory
 05C60 Isomorphism problems (reconstruction conjecture, perfect graphs, etc.)
 05C65 Hypergraphs
 05C70 Factorization, matching, covering and packing
 05C75 Structural characterization of types of graphs
 05C78 Graph labelling (graceful graphs, bandwidth, etc.)
 05C80 Random graphs
 05C85 Graph algorithms [See also 68Q20, 68R10]
 05C90 Applications
 05C99 None of the above, but in this section
05Dxx Extremal combinatorics
 05D05 Extremal set theory
 05D10 Ramsey theory
 05D15 Transversal (matching) theory
 05D99 None of the above, but in this section
05Exx Algebraic combinatorics
 05E05 Symmetric functions
 05E10 Tableaux, representations of the symmetric group [See also 20C30]
 05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
 05E20 Group actions on designs, geometries and codes
 05E25 Group actions on posets and homology groups of posets [See also 06A09]
 05E30 Association schemes, strongly regular graphs
 05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
 05E99 None of the above, but in this section
06-XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]
 06-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 06-01 Instructional exposition (textbooks, tutorial papers, etc.)
 06-02 Research exposition (monographs, survey articles)
 06-03 Historical (must also be assigned at least one classification number from Section 01)
 06-04 Explicit machine computation and programs (not the theory of computation or programming)
 06-06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
 06A05 Total order
 06A06 Partial order, general
 06A07 Combinatorics of partially ordered sets
 06A08 Shellable posets, Cohen-Macaulay posets [See also 52B20]
 06A09 Cohomology of posets [See also 05E25]
 06A12 Semilattices [See also 20M10]
 06A15 Galois correspondences, closure operators
 06A23 Complete lattices, completions
 06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
 06B05 Structure theory
 06B10 Ideals, congruence relations
 06B15 Representation theory
 06B20 Varieties of lattices
 06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
 06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
 06B35 Continuous lattices, generalizations, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
 06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
 06C05 Modular lattices, Desarguesian lattices
 06C10 Semimodular lattices, geometric lattices
 06C15 Complemented lattices, orthocomplemented lattices
 06C20 Complemented modular lattices, continuous geometries
 06C99 None of the above, but in this section
06Dxx Distributive lattices
 06D05 Structure and representation theory
 06D10 Complete distributivity
 06D15 Pseudocomplemented lattices
 06D20 Heyting algebras [See also 03Gxx]
 06D25 Post algebras [See also 03G20]
 06D30 De Morgan algebras, Lukasiewicz algebras [See also 03G20]
 06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
 06E05 Structure theory
 06E10 Chain conditions, complete algebras
 06E15 Stone space and related constructions
 06E20 Ring-theoretic properties [See also 16E50, 16G30]
 06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)
 06E30 Boolean functions [See also 94C10]
 06E99 None of the above, but in this section
06Fxx Ordered structures
 06F05 Ordered semigroups [See also 20Mxx]
 06F10 Noether lattices
 06F15 Ordered groups [See also 20F60]
 06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
 06F25 Ordered rings, algebras, modules (For ordered fields, see 12J15; see also 13J25, 16W80)
 06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
 06F35 BCK-algebras, BCI-algebras [See also 03G25]
 06F99 None of the above, but in this section
08-XX GENERAL ALGEBRAIC SYSTEMS
 08-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 08-01 Instructional exposition (textbooks, tutorial papers, etc.)
 08-02 Research exposition (monographs, survey articles)
 08-03 Historical (must also be assigned at least one classification number from Section 01)
 08-04 Explicit machine computation and programs (not the theory of computation or programming)
 08-06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
 08A02 Relational systems, laws of composition
 08A05 Structure theory
 08A30 Subalgebras, congruence relations
 08A35 Automorphisms, endomorphisms
 08A40 Operations, polynomials, primal algebras
 08A45 Equational compactness
 08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
 08A55 Partial algebras
 08A60 Unary algebras
 08A62 Finitary algebras
 08A65 Infinitary algebras
 08A70 Applications of universal algebra in computer science
 08A99 None of the above, but in this section
08Bxx Varieties
 08B05 Equational logic, Mal'tsev (Mal'tsev) conditions
 08B10 Congruence modularity, congruence distributivity
 08B15 Lattices of varieties
 08B20 Free algebras
 08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]
 08B26 Subdirect products and subdirect irreducibility
 08B30 Injectives, projectives
 08B99 None of the above, but in this section
08Cxx Other classes of algebras
 08C05 Categories of algebras [See also 18C05]
 08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
 08C15 Quasivarieties
 08C99 None of the above, but in this section
11-XX NUMBER THEORY
 11-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 11-01 Instructional exposition (textbooks, tutorial papers, etc.)
 11-02 Research exposition (monographs, survey articles)
 11-03 Historical (must also be assigned at least one classification number from Section 01)
 11-04 Explicit machine computation and programs (not the theory of computation or programming)
 11-06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory (For analogues in number fields, see 11R04)
 11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
 11A07 Congruences; primitive roots; residue systems
 11A15 Power residues, reciprocity

- 11A25 Arithmetic functions; related numbers; inversion formulas
 11A41 Primes
 11A51 Factorization; primality
 11A55 Continued fractions (For approximation results, see 11J70; see also 11K50, 30B70, 40A15)
 11A63 Radix representation; digital problems (For metric results, see 11K16)
 11A67 Other representations
 11A99 None of the above, but in this section
11Bxx Sequences and sets
 11B05 Density, gaps, topology
 11B13 Additive bases [See also 05B10]
 11B25 Arithmetic progressions [See also 11N13]
 11B34 Representation functions
 11B37 Recurrences (For applications to special functions, see 33--XX)
 11B39 Fibonacci and Lucas numbers and polynomials and generalizations
 11B50 Sequences (mod m)
 11B57 Farey sequences; the sequences $\{1^k, 2^k, \dots\}$
 11B65 Binomial coefficients; factorials; q -identities [See also 05A10, 05A30]
 11B68 Bernoulli and Euler numbers and polynomials
 11B73 Bell and Stirling numbers
 11B75 Other combinatorial number theory
 11B83 Special sequences and polynomials
 11B85 Automata sequences
 11B99 None of the above, but in this section
11Cxx Polynomials and matrices
 11C08 Polynomials [See also 13F20]
 11C20 Matrices, determinants [See also 15A36]
 11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
 11D04 Linear equations
 11D09 Quadratic and bilinear equations
 11D25 Cubic and quartic equations
 11D41 Higher degree equations; Fermat's equation
 11D57 Multiplicative and norm form equations
 11D61 Exponential equations
 11D68 Rational numbers as sums of fractions
 11D72 Equations in many variables [See also 11P55]
 11D75 Diophantine inequalities [See also 11J25]
 11D79 Congruences in many variables
 11D85 Representation problems [See also 11P55]
 11D88 p -adic and power series fields
 11D99 None of the above, but in this section
11Exx Forms and linear algebraic groups [See also 19Gxx] (For quadratic forms in linear algebra, see 15A63)
 11E04 Quadratic forms over general fields
 11E08 Quadratic forms over local rings and fields
 11E10 Forms over real fields
 11E12 Quadratic forms over global rings and fields
 11E16 General binary quadratic forms
 11E20 General ternary and quaternary quadratic forms; forms of more than two variables
 11E25 Sums of squares and representations by other particular quadratic forms
 11E39 Bilinear and Hermitian forms
 11E41 Class numbers of quadratic and Hermitian forms
 11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
 11E57 Classical groups [See also 14Lxx, 20Gxx]
 11E70 K -theory of quadratic and Hermitian forms
 11E72 Galois cohomology of linear algebraic groups [See also 20G10]
 11E76 Forms of degree higher than two
 11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
 11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
 11E95 p -adic theory
 11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]
 11F03 Modular and automorphic functions
 11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
 11F11 Modular forms, one variable
 11F12 Automorphic forms, one variable
 11F20 Dedekind eta function, Dedekind sums
 11F22 Relationship to Lie algebras and finite simple groups
 11F25 Hecke-Petersson operators, differential operators (one variable)
 11F27 Theta series; Weil representation
 11F30 Fourier coefficients of automorphic forms
 11F32 Modular correspondences, etc.
 11F33 Congruences for modular and p -adic modular forms [See also 14G20, 22E50]
 11F37 Forms of half-integer weight; nonholomorphic modular forms
 11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
 11F46 Siegel modular groups and their modular and automorphic forms
 11F55 Other groups and their modular and automorphic forms (several variables)
 11F60 Hecke-Petersson operators, differential operators (several variables)
 11F66 Dirichlet series and functional equations in connection with modular forms
 11F67 Special values of automorphic L -series, periods of modular forms, cohomology, modular symbols
 11F70 Representation-theoretic methods; automorphic representations over local and global fields
 11F72 Spectral theory; Selberg trace formula
 11F75 Cohomology of arithmetic groups
 11F80 Galois properties
 11F85 p -adic theory, local fields [See also 14G20, 22E50]
 11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
 11G05 Elliptic curves over global fields [See also 14H52]
 11G07 Elliptic curves over local fields [See also 14G20, 14H52]
 11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
 11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
 11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
 11G16 Elliptic and modular units [See also 11R27]
 11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
 11G20 Curves over finite and local fields [See also 14H25]
 11G25 Varieties over finite and local fields [See also 14G15, 14G20]
 11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
 11G35 Varieties over global fields [See also 14G25]
 11G40 L -functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
 11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
 11G99 None of the above, but in this section
11Hxx Geometry of numbers (For applications in coding theory, see 94B75)
 11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
 11H16 Nonconvex bodies
 11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
 11H46 Products of linear forms
 11H50 Minima of forms
 11H55 Quadratic forms (reduction theory, extreme forms, etc.)
 11H56 Automorphism groups of lattices
 11H60 Mean value and transfer theorems
 11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
 11J04 Homogeneous approximation to one number
 11J06 Markov and Lagrange spectra and generalizations
 11J13 Simultaneous homogeneous approximation, linear forms
 11J17 Approximation by numbers from a fixed field
 11J20 Inhomogeneous linear forms
 11J25 Diophantine inequalities [See also 11D75]
 11J54 Small fractional parts of polynomials and generalizations
 11J61 Approximation in non-Archimedean valuations
 11J68 Approximation to algebraic numbers
 11J70 Continued fractions and generalizations [See also 11A55, 11K50]
 11J71 Distribution modulo one [See also 11K06]
 11J72 Irrationality; linear independence over a field
 11J81 Transcendence (general theory)
 11J82 Measures of irrationality and of transcendence
 11J83 Metric theory
 11J85 Algebraic independence; Gelfond's method
 11J86 Linear forms in logarithms; Baker's method
 11J89 Transcendence theory of elliptic and abelian functions
 11J91 Transcendence theory of other special functions
 11J99 None of the above, but in this section
11Kxx Probabilistic theory; distribution modulo 1; metric theory of algorithms
 11K06 General theory of distribution modulo 1 [See also 11J71]
 11K16 Normal numbers, radix expansions, etc. [See also 11A63]
 11K31 Special sequences
 11K36 Well-distributed sequences and other variations
 11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
 11K41 Continuous, p -adic and abstract analogues
 11K45 Pseudo-random numbers; Monte Carlo methods
 11K50 Metric theory of continued fractions [See also 11A55, 11J70]
 11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
 11K60 Diophantine approximation [See also 11Jxx]
 11K65 Arithmetic functions [See also 11Nxx]

- 11K70 Harmonic analysis and almost periodicity
 11K99 None of the above, but in this section
 11Lxx **Exponential sums and character sums** (For finite fields, see 11Txx)
 11L03 Trigonometric and exponential sums, general
 11L05 Gauss and Kloosterman sums; generalizations
 11L07 Estimates on exponential sums
 11L10 Jacobsthal and Brewer sums; other complete character sums
 11L15 Weyl sums
 11L20 Sums over primes
 11L26 Sums over arbitrary intervals
 11L40 Estimates on character sums
 11L99 None of the above, but in this section
 11Mxx **Zeta and L -functions: analytic theory**
 11M06 $\zeta(s)$ and $L(s, \chi)$
 11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$
 11M26 Nonreal zeros of $\zeta(s)$ and $L(s, \chi)$; Riemann and other hypotheses
 11M35 Hurwitz and Lerch zeta functions
 11M41 Other Dirichlet series and zeta functions (For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72)
 11M45 Tauberian theorems [See also 40E05]
 11M99 None of the above, but in this section
 11Nxx **Multiplicative number theory**
 11N05 Distribution of primes
 11N13 Primes in progressions [See also 11B25]
 11N25 Distribution of integers with specified multiplicative constraints
 11N30 Turán theory [See also 30Bxx]
 11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
 11N35 Sieves
 11N36 Applications of sieve methods
 11N37 Asymptotic results on arithmetic functions
 11N45 Asymptotic results on counting functions for algebraic and topological structures
 11N56 Rate of growth of arithmetic functions
 11N60 Distribution functions associated with additive and positive multiplicative functions
 11N64 Other results on the distribution of values or the characterization of arithmetic functions
 11N69 Distribution of integers in special residue classes
 11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
 11N80 Generalized primes and integers
 11N99 None of the above, but in this section
 11Pxx **Additive number theory; partitions**
 11P05 Waring's problem and variants
 11P21 Lattice points in specified regions
 11P32 Goldbach-type theorems; other additive questions involving primes
 11P55 Applications of the Hardy-Littlewood method [See also 11D85]
 11P81 Elementary theory of partitions [See also 05A17]
 11P82 Analytic theory of partitions
 11P83 Partitions; congruences and congruential restrictions
 11P99 None of the above, but in this section
 11Rxx **Algebraic number theory: global fields** (For complex multiplication, see 11G15)
 11R04 Algebraic numbers; rings of algebraic integers
 11R06 PV-numbers and generalizations; other special algebraic numbers
 11R09 Polynomials (irreducibility, etc.)
 11R11 Quadratic extensions
 11R16 Cubic and quartic extensions
 11R18 Cyclotomic extensions
 11R20 Other abelian and metabelian extensions
 11R21 Other number fields
 11R23 Iwasawa theory
 11R27 Units and factorization
 11R29 Class numbers, class groups, discriminants
 11R32 Galois theory
 11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
 11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
 11R37 Class field theory
 11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
 11R42 Zeta functions and L -functions of number fields [See also 11M41, 19F27]
 11R44 Distribution of prime ideals [See also 11N05]
 11R45 Density theorems
 11R47 Other analytic theory [See also 11Nxx]
 11R52 Quaternion and other division algebras: arithmetic, zeta functions
 11R54 Other algebras and orders, and their zeta and L -functions [See also 11S45, 16H05, 16Kxx]
 11R56 Adèle rings and groups
 11R58 Arithmetic theory of algebraic function fields [See also 14-XX]
 11R65 Class groups and Picard groups of orders
 11R70 K -theory of global fields [See also 19Fxx]
 11R80 Totally real and totally positive fields [See also 12J15]
 11R99 None of the above, but in this section
 11Sxx **Algebraic number theory: local and p -adic fields**
 11S05 Polynomials
 11S15 Ramification and extension theory
 11S20 Galois theory
 11S23 Integral representations
 11S25 Galois cohomology [See also 12Gxx, 16H05]
 11S31 Class field theory; p -adic formal groups [See also 14L05]
 11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
 11S40 Zeta functions and L -functions [See also 11M41, 19F27]
 11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
 11S70 K -theory of local fields [See also 19Fxx]
 11S80 Other analytic theory (analogues of beta and gamma functions, p -adic integration, etc.)
 11S85 Other nonanalytic theory
 11S99 None of the above, but in this section
 11Txx **Finite fields and commutative rings (number-theoretic aspects)**
 11T06 Polynomials
 11T22 Cyclotomy
 11T23 Exponential sums
 11T24 Other character sums and Gauss sums
 11T30 Structure theory
 11T55 Arithmetic theory of polynomial rings over finite fields
 11T71 Algebraic coding theory; cryptography
 11T99 None of the above, but in this section
 11Uxx **Connections with logic**
 11U05 Decidability [See also 03B25]
 11U07 Ultraproducts [See also 03C20]
 11U09 Model theory [See also 03Cxx]
 11U10 Nonstandard arithmetic [See also 03H15]
 11U99 None of the above, but in this section
 11Yxx **Computational number theory** [See also 11-04]
 11Y05 Factorization
 11Y11 Primality
 11Y16 Algorithms; complexity [See also 68Q25]
 11Y35 Analytic computations
 11Y40 Algebraic number theory computations
 11Y50 Computer solution of Diophantine equations
 11Y55 Calculation of integer sequences
 11Y60 Evaluation of constants
 11Y65 Continued fraction calculations
 11Y70 Values of arithmetic functions; tables
 11Y99 None of the above, but in this section
 11Z50 **Miscellaneous applications of number theory**
 12-XX **FIELD THEORY AND POLYNOMIALS**
 12-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 12-01 Instructional exposition (textbooks, tutorial papers, etc.)
 12-02 Research exposition (monographs, survey articles)
 12-03 Historical (must also be assigned at least one classification number from Section 01)
 12-04 Explicit machine computation and programs (not the theory of computation or programming)
 12-06 Proceedings, conferences, collections, etc.
 12Dxx **Real and complex fields**
 12D05 Polynomials: factorization
 12D10 Polynomials: location of zeros (algebraic theorems) (For the analytic theory, see 26C10, 30C15)
 12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
 12D99 None of the above, but in this section
 12Exx **General field theory**
 12E05 Polynomials (irreducibility, etc.)
 12E10 Special polynomials
 12E12 Equations
 12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
 12E20 Finite fields (field-theoretic aspects)
 12E25 Hilbertian fields; Hilbert's irreducibility theorem
 12E99 None of the above, but in this section
 12Fxx **Field extensions**
 12F05 Algebraic extensions
 12F10 Separable extensions, Galois theory
 12F12 Inverse Galois theory
 12F15 Inseparable extensions
 12F20 Transcendental extensions
 12F99 None of the above, but in this section

- 12Gxx **Homological methods (field theory)**
 12G05 Galois cohomology [See also 13A20, 16H05]
 12G10 Cohomological dimension
 12G99 None of the above, but in this section
 12Hxx **Differential and difference algebra**
 12H05 Differential algebra [See also 13Nxx]
 12H10 Difference algebra [See also 39Axx]
 12H20 Abstract differential equations [See also 34Gxx]
 12H25 p -adic differential equations [See also 11S80, 14G20, 34Gxx]
 12H99 None of the above, but in this section
 12Jxx **Topological fields**
 12J05 Normed fields
 12J10 Valued fields
 12J12 Formally p -adic fields
 12J15 Ordered fields
 12J17 Topological semifields
 12J20 General valuation theory
 12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
 12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
 12J99 None of the above, but in this section
 12Kxx **Generalizations of fields**
 12K05 Near-fields [See also 16Y30]
 12K10 Semifields [See also 16Y60]
 12K99 None of the above, but in this section
 12Lxx **Connections with logic**
 12L05 Decidability [See also 03B25]
 12L10 Ultraproducts [See also 03C20]
 12L12 Model theory [See also 03C60]
 12L15 Nonstandard arithmetic [See also 03H15]
 12L99 None of the above, but in this section
 12Y05 **Computational aspects of field theory and polynomials**
- 13-XX **COMMUTATIVE RINGS AND ALGEBRAS**
 13-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 13-01 Instructional exposition (textbooks, tutorial papers, etc.)
 13-02 Research exposition (monographs, survey articles)
 13-03 Historical (must also be assigned at least one classification number from Section 01)
 13-04 Explicit machine computation and programs (not the theory of computation or programming)
 13-06 Proceedings, conferences, collections, etc.
 13Axx **General commutative ring theory**
 13A02 Graded rings [See also 16W50]
 13A05 Divisibility
 13A10 Radical theory
 13A15 Ideals; multiplicative ideal theory
 13A18 Valuations and their generalizations
 13A20 Brauer groups [See also 12Gxx, 16H05]
 13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics
 13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [See also 13Mxx]
 13A50 Invariant theory [See also 14D25]
 13A99 None of the above, but in this section
 13Bxx **Ring extensions and related topics**
 13B02 Extension theory
 13B05 Galois theory (commutative rings)
 13B10 Morphisms and derivations
 13B15 Ramification theory
 13B21 Integral dependence
 13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)
 13B24 Going up; going down; going between
 13B25 Polynomials over commutative rings
 13B30 Quotients and localization
 13B35 Completion [See also 13J10]
 13B40 Étale extensions and Henselization; Artin approximation [See also 13J15, 14B12]
 13B99 None of the above, but in this section
 13Cxx **Theory of modules and ideals**
 13C05 Structure, classification theorems
 13C10 Projective and free modules and ideals [See also 18G05, 19A13]
 13C11 Injective and flat modules and ideals [See also 18G05]
 13C12 Torsion modules and ideals
 13C13 Other special types
 13C14 Cohen-Macaulay modules [See also 13H10]
 13C15 Dimension theory, depth, related rings (catenary, etc.)
 13C20 Class groups
 13C40 Linkage, complete intersections and determinantal ideals [See also 14M12]
 13C99 None of the above, but in this section
- 13Dxx **(Co)homological methods**
 13D02 Syzygies
 13D03 (Co)homology of commutative rings and algebras
 13D05 (Co)homological dimension [See also 18G20]
 13D10 Deformations and infinitesimal methods [See also 14B12, 14D15, 16S80, 32Gxx]
 13D15 Grothendieck groups, K -theory [See also 14C35, 18F30, 19-XX]
 13D25 Complexes
 13D30 Torsion theory [See also 13C12, 18E40]
 13D40 Hilbert-Samuel functions and Poincaré series
 13D45 Local cohomology [See also 14B15]
 13D99 None of the above, but in this section
 13Exx **Chain conditions, finiteness conditions**
 13E05 Noetherian rings and modules
 13E10 Artinian rings and modules, finite-dimensional algebras
 13E15 Rings and modules of finite generation or presentation
 13E99 None of the above, but in this section
 13Fxx **Arithmetic rings and other special rings** [See also 12-XX]
 13F05 Dedekind and Prüfer rings and their generalizations
 13F07 Euclidean rings and generalizations
 13F10 Principal ideal rings
 13F15 Factorial rings, unique factorization domains [See also 14M05]
 13F20 Polynomial rings and ideals [See also 11C08]
 13F25 Formal power series rings [See also 13J05]
 13F30 Valuation rings
 13F40 Excellent rings
 13F45 Seminormal rings
 13F50 Rings with straightening laws, Hodge algebras
 13F99 None of the above, but in this section
 13G05 **Integral domains**
 13Hxx **Local rings and semilocal rings**
 13H05 Regular local rings
 13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
 13H15 Multiplicity theory and related topics
 13H99 None of the above, but in this section
 13Jxx **Topological rings and modules** [See also 16W60, 16W80]
 13J05 Power series rings [See also 13F25]
 13J07 Analytical algebras and rings [See also 32B05]
 13J10 Complete rings, completion [See also 13B35]
 13J15 Henselian rings [See also 13B40]
 13J20 Global topological rings
 13J25 Ordered rings [See also 06F25]
 13J99 None of the above, but in this section
 13K05 **Witt vectors and related rings**
 13L05 **Applications of logic to commutative algebra** [See also 03Cxx, 03Hxx]
 13Mxx **Finite commutative rings (For number-theoretic aspects, see 11Txx)**
 13M05 Structure
 13M10 Polynomials (commutative rings)
 13M99 None of the above, but in this section
 13Nxx **Differential algebra** [See also 12H05, 14F10]
 13N05 Modules of differentials [See also 16S32]
 13N10 Rings of differential operators [See also 16S32, 32C38]
 13N99 None of the above, but in this section
 13Pxx **Computational aspects of commutative algebra** [See also 68Q40]
 13P05 Polynomials, factorization [See also 12Y05]
 13P10 Polynomial ideals, Gröbner bases
 13P99 None of the above, but in this section
- 14-XX **ALGEBRAIC GEOMETRY**
 14-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 14-01 Instructional exposition (textbooks, tutorial papers, etc.)
 14-02 Research exposition (monographs, survey articles)
 14-03 Historical (must also be assigned at least one classification number from Section 01)
 14-04 Explicit machine computation and programs (not the theory of computation or programming)
 14-06 Proceedings, conferences, collections, etc.
 14Axx **Foundations**
 14A05 Relevant commutative algebra [See also 13-XX]
 14A10 Varieties
 14A15 Schemes
 14A20 Generalizations (algebraic spaces, motifs)
 14A22 Noncommutative algebraic geometry; algebraic supervarieties [See also 14M30, 32C11, 58A50]
 14A25 Elementary questions
 14A99 None of the above, but in this section
 14Bxx **Local theory** [See also 32Sxx]
 14B05 Singularities [See also 14E15, 14H20, 32Sxx, 58C27]
 14B07 Deformations of singularities [See also 14D15, 32Sxx]
 14B10 Infinitesimal methods [See also 13D10]

- 14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
- 14B15 Local cohomology [See also 13D45, 32C36]
- 14B20 Formal neighborhoods
- 14B99 None of the above, but in this section
- 14Cxx Cycles and subschemes**
- 14C05 Parametrization (Chow and Hilbert schemes)
- 14C10 Equivalence relations
- 14C15 Rational equivalence rings
- 14C17 Intersection theory
- 14C20 Divisors, linear systems, invertible sheaves
- 14C21 Pencils, nets, webs [See also 53A60]
- 14C22 Picard groups
- 14C25 Algebraic cycles
- 14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
- 14C34 Torelli problem [See also 32G20]
- 14C35 Applications of methods of algebraic K -theory [See also 14F05, 19Exx]
- 14C40 Riemann-Roch theorems [See also 19E20, 19L10]
- 14C99 None of the above, but in this section
- 14Dxx Families, fibrations**
- 14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
- 14D07 Variation of Hodge structures
- 14D10 Arithmetic ground fields (finite, local, global)
- 14D15 Formal methods; deformations [See also 13D10, 14B07, 16S80, 32Gxx]
- 14D20 Algebraic moduli problems, moduli of vector bundles (For analytic moduli problems, see 32G13)
- 14D22 Fine and coarse moduli spaces
- 14D25 Geometric invariants [See also 14L30]
- 14D99 None of the above, but in this section
- 14Exx Mappings and correspondences**
- 14E05 Rational maps, birational correspondences
- 14E07 Birational automorphisms, Cremona group and generalizations [See also 32G20]
- 14E09 Automorphisms [See also 14J50, 14L27]
- 14E10 General correspondences
- 14E15 Global theory of singularities, resolution [See also 14B05, 32S20, 32S45]
- 14E20 Coverings, fundamental group (mappings)
- 14E22 Ramification problems [See also 11S15]
- 14E25 Embeddings
- 14E30 Minimal models
- 14E35 Results in dimension ≤ 3
- 14E40 Local structure of maps: étale, flat, etc. [See also 13-XX, 14F20]
- 14E99 None of the above, but in this section
- 14Fxx (Co)homology theory [See also 13Dxx]**
- 14F05 Vector bundles, sheaves, related construction [See also 18F20, 32Lxx, 46M20]
- 14F10 Differentials and other special sheaves [See also 32C38]
- 14F17 Vanishing theorems [See also 32L20]
- 14F20 Étale and other Grothendieck topologies and cohomologies
- 14F25 Classical real and complex cohomology
- 14F30 p -adic cohomology, crystalline cohomology
- 14F32 Intersection (co)homology [See also 32S60]
- 14F35 Homotopy theory; fundamental groups [See also 14E20, 14H30]
- 14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
- 14F45 Topological properties
- 14F99 None of the above, but in this section
- 14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]**
- 14G05 Rationality questions, rational points
- 14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
- 14G15 Finite ground fields
- 14G20 p -adic ground fields
- 14G25 Global ground fields
- 14G27 Nonalgebraically closed ground fields
- 14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
- 14G40 Arithmetic varieties and schemes; Arakelov theory
- 14G99 None of the above, but in this section
- 14Hxx Curves**
- 14H05 Algebraic functions; function fields [See also 11R58]
- 14H10 Families, moduli (algebraic)
- 14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
- 14H20 Singularities, local rings [See also 13Hxx]
- 14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
- 14H30 Coverings, fundamental group [See also 14E20, 14F35]
- 14H35 Correspondences [See also 14Exx]
- 14H40 Jacobians [See also 32G20]
- 14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
- 14H45 Special curves and curves of low genus
- 14H50 Space curves
- 14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
- 14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
- 14H60 Vector bundles on curves [See also 14F05]
- 14H99 None of the above, but in this section
- 14Jxx Surfaces and higher-dimensional varieties (For analytic theory, see 32Jxx)**
- 14J05 Picard group [See also 14C22, 19A49, 32L05]
- 14J10 Families, moduli, classification: algebraic theory
- 14J15 Moduli, classification: analytic theory [See also 32G13, 32J15]
- 14J17 Singularities of surfaces
- 14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
- 14J25 Special surfaces (For Hilbert modular surfaces, see 14G35)
- 14J26 Rational and ruled surfaces
- 14J27 Elliptic surfaces
- 14J28 $K3$ surfaces and Enriques surfaces
- 14J29 Surfaces of general type
- 14J30 Special 3-folds [See also 14E05]
- 14J35 Special 4-folds [See also 14E05]
- 14J40 Special n -folds
- 14J45 Fano varieties
- 14J50 Automorphisms of surfaces and higher-dimensional varieties [See also 14E09]
- 14J60 Vector bundles on surfaces and higher-dimensional varieties [See also 14F05, 32Lxx]
- 14J70 Hypersurfaces
- 14J99 None of the above, but in this section
- 14Kxx Abelian varieties and schemes**
- 14K02 Isogeny
- 14K05 Algebraic theory
- 14K10 Algebraic moduli, classification
- 14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
- 14K20 Analytic theory; abelian integrals and differentials
- 14K22 Complex multiplication [See also 11G15]
- 14K25 Theta functions
- 14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
- 14K99 None of the above, but in this section
- 14Lxx Group schemes (For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45)**
- 14L05 Formal groups, p -divisible groups [See also 55N22]
- 14L10 Group varieties
- 14L15 Group schemes
- 14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
- 14L27 Automorphism groups [See also 14E09]
- 14L30 Group actions on varieties or schemes (quotients) [See also 14D25]
- 14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
- 14L40 Other algebraic groups (geometric aspects)
- 14L99 None of the above, but in this section
- 14Mxx Special varieties**
- 14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13C14, 13F45, 13H10]
- 14M06 Linkage [See also 13C40]
- 14M07 Low-codimension problems [See also 14Cxx]
- 14M10 Complete intersections [See also 13C40]
- 14M12 Determinantal varieties [See also 13C40]
- 14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
- 14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
- 14M20 Rational varieties
- 14M25 Toric varieties, Newton polyhedra
- 14M30 Supervarieties [See also 14A22, 32C11, 58A50]
- 14M99 None of the above, but in this section
- 14Nxx Classical methods and problems [See also 51-XX]**
- 14N05 Projective techniques [See also 51N35]
- 14N10 Enumerative problems (combinatorial problems)
- 14N99 None of the above, but in this section
- 14Pxx Real algebraic and real analytic geometry**
- 14P05 Real algebraic sets [See also 12Dxx]
- 14P10 Semialgebraic sets and related spaces
- 14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
- 14P20 Nash functions and manifolds [See also 32C07, 58A07]
- 14P25 Topology of real algebraic varieties
- 14P99 None of the above, but in this section
- 14Qxx Computational aspects in algebraic geometry [See also 12-04, 68Q40]**
- 14Q05 Curves
- 14Q10 Surfaces, hypersurfaces
- 14Q15 Higher-dimensional varieties
- 14Q20 Effectivity
- 14Q99 None of the above, but in this section

15-XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)

- 15-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 15-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 15-02 Research exposition (monographs, survey articles)
- 15-03 Historical (must also be assigned at least one classification number from Section 01)
- 15-04 Explicit machine computation and programs (not the theory of computation or programming)
- 15-06 Proceedings, conferences, collections, etc.
- 15A03 Vector spaces, linear dependence, rank
- 15A04 Linear transformations, semilinear transformations
- 15A06 Linear equations
- 15A09 Matrix inversion, generalized inverses
- 15A12 Conditioning of matrices [See also 65F35]
- 15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
- 15A18 Eigenvalues, singular values, and eigenvectors
- 15A21 Canonical forms, reductions, classification
- 15A22 Matrix pencils [See also 47A56]
- 15A23 Factorization of matrices
- 15A24 Matrix equations and identities
- 15A27 Commutativity
- 15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
- 15A33 Matrices over special rings (quaternions, finite fields, etc.)
- 15A36 Matrices of integers [See also 11C20]
- 15A39 Linear inequalities
- 15A42 Inequalities involving eigenvalues and eigenvectors
- 15A45 Miscellaneous inequalities involving matrices
- 15A48 Positive matrices and their generalizations; cones of matrices
- 15A51 Stochastic matrices
- 15A52 Random matrices
- 15A54 Matrices over function rings in one or more variables
- 15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
- 15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
- 15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
- 15A66 Clifford algebras, spinors
- 15A69 Multilinear algebra, tensor products
- 15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14D25]
- 15A75 Exterior algebra, Grassmann algebras
- 15A78 Other algebras built from modules
- 15A90 Applications of matrix theory to physics
- 15A99 Miscellaneous topics

16-XX ASSOCIATIVE RINGS AND ALGEBRAS (For the commutative case, see 13-XX)

- 16-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 16-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 16-02 Research exposition (monographs, survey articles)
- 16-03 Historical (must also be assigned at least one classification number from Section 01)
- 16-04 Explicit machine computation and programs (not the theory of computation or programming)
- 16-06 Proceedings, conferences, collections, etc.
- 16Bxx General and miscellaneous
- 16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [See also 18-XX]
- 16B70 Applications of logic [See also 03Cxx]
- 16B99 None of the above, but in this section
- 16Dxx Modules, bimodules and ideals
- 16D10 General module theory
- 16D15 1-sided ideals
- 16D20 Bimodules
- 16D25 2-sided ideals
- 16D30 Maximal and prime 2-sided ideals [See also 16N60, 16D60], simple rings (except as in 16Kxx)
- 16D40 Free, projective, and flat modules and ideals [See also 18G05, 19A13]
- 16D50 Injective modules, self-injective rings [See also 16L60, 18G05]
- 16D60 Simple and semisimple modules, primitive rings and ideals
- 16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
- 16D80 Other classes of modules and ideals [See also 16G60]
- 16D90 Module categories [See also 16Exx, 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
- 16D99 None of the above, but in this section
- 16Exx Homological methods and results [See also 18Gxx]
- 16E10 Homological dimension
- 16E20 Grothendieck groups, K -theory, etc. [See also 18F30, 19-XX]
- 16E30 Homological functors on modules
- 16E40 Hochschild and other homology and cohomology theories for rings

- 16E50 von Neumann regular rings and generalizations
- 16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
- 16E70 Other rings of low global or flat dimension
- 16E99 None of the above, but in this section
- 16Gxx Representation theory of rings and algebras
- 16G10 Representations of Artinian rings
- 16G20 Representations of quivers and partially ordered sets
- 16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
- 16G50 Cohen-Macaulay modules
- 16G60 Representation type (finite, tame, wild, etc.)
- 16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
- 16G99 None of the above, but in this section
- 16H05 Orders and arithmetic, separable algebras, Azumaya algebras [See also 11R52, 11R54, 11S45, 13A20]
- 16Kxx Division rings and semisimple Artinian rings [See also 12E15, 15A30]
- 16K20 Finite-dimensional (For Brauer group theory, see 12Gxx, 13A20; for crossed products, see 16S35)
- 16K40 Infinite-dimensional and general
- 16K99 None of the above, but in this section
- 16Lxx Local rings and generalizations
- 16L30 Noncommutative local and semilocal rings, perfect rings
- 16L60 Quasi-Frobenius rings [See also 16D50]
- 16L99 None of the above, but in this section
- 16Nxx Radicals and radical properties of rings
- 16N20 Jacobson radical, quasimultiplication
- 16N40 Nil and nilpotent radicals, sets, ideals, rings
- 16N60 Prime and semiprime rings [See also 16D30, 16D60, 16U10]
- 16N80 General radicals and rings (For radicals in module categories, see 16S90)
- 16N99 None of the above, but in this section
- 16Pxx Chain conditions, growth conditions, and other forms of finiteness
- 16P10 Finite rings and finite-dimensional algebras (For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx)
- 16P20 Artinian rings and modules
- 16P40 Noetherian rings and modules
- 16P50 Localization and Noetherian rings [See also 16U20]
- 16P60 Chain conditions on annihilators and summands: Goldie type conditions [See also 16U20], Krull dimension
- 16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
- 16P90 Growth rate, Gelfand-Kirillov dimension
- 16P99 None of the above, but in this section
- 16Rxx Rings with polynomial identity
- 16R10 T -ideals, identities, varieties of rings and algebras
- 16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
- 16R30 Trace rings and invariant theory
- 16R40 Identities other than those of matrices over commutative rings
- 16R50 Other kinds of identities (generalized polynomial, rational, involution)
- 16R99 None of the above, but in this section
- 16Sxx Rings and algebras arising under various constructions
- 16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
- 16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
- 16S20 Centralizing and normalizing extensions
- 16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
- 16S32 Rings of differential operators [See also 13N10, 32C38]
- 16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
- 16S35 Twisted and skew group rings, crossed products
- 16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
- 16S40 Smash products of general Hopf actions [See also 16W30]
- 16S50 Endomorphism rings; matrix rings [See also 15-XX]
- 16S60 Rings of functions, subdirect products, sheaves of rings
- 16S70 Extensions of rings by ideals
- 16S80 Deformations of rings [See also 14D15]
- 16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] (For radicals of rings see 16Nxx)
- 16S99 None of the above, but in this section
- 16Uxx Conditions on elements (including elements of matrix rings, etc.)
- 16U10 Integral domains
- 16U20 Ore rings, multiplicative sets, Ore localization
- 16U30 Divisibility, noncommutative UFDs
- 16U50 Algebraicity and local finiteness [See also 16N40]
- 16U60 Units, groups of units, general linear groups
- 16U70 Center, normalizer (invariant elements)
- 16U80 Generalizations of commutativity
- 16U99 None of the above, but in this section

- 16Wxx Rings and algebras with additional structure**
- 16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
- 16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings
- 16W25 Derivations, actions of Lie algebras
- 16W30 Coalgebras, bialgebras, Hopf algebras [See also 57T05, 16S30–16S40]; rings, modules, etc. on which these act
- 16W50 Graded rings and modules
- 16W55 "Super" (or "skew") structure [See also 17A70, 17B70, 17C70] (For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66)
- 16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [See also 13Jxx]
- 16W80 Topological and ordered rings and modules [See also 13Jxx]
- 16W99 None of the above, but in this section
- 16Yxx Generalizations (For nonassociative rings, see 17-xx)**
- 16Y30 Near-rings [See also 12K05]
- 16Y60 Semirings [See also 12K10]
- 16Y99 None of the above, but in this section
- 17-XX NONASSOCIATIVE RINGS AND ALGEBRAS**
- 17-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 17-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 17-02 Research exposition (monographs, survey articles)
- 17-03 Historical (must also be assigned at least one classification number from Section 01)
- 17-04 Explicit machine computation and programs (not the theory of computation or programming)
- 17-06 Proceedings, conferences, collections, etc.
- 17-08 Computational methods
- 17Axx General nonassociative rings**
- 17A01 General theory
- 17A05 Power-associative
- 17A10 Commutative power-associative
- 17A15 Noncommutative Jordan algebras
- 17A20 Flexible algebras
- 17A25 Nodal algebras
- 17A30 Algebras satisfying other identities
- 17A35 Division algebras
- 17A36 Automorphisms, derivatives, other operators
- 17A40 Ternary compositions
- 17A42 Other n -ary compositions
- 17A45 Quadratic algebras (but not quadratic Jordan algebras)
- 17A50 Free algebras
- 17A60 Structure theory
- 17A65 Radical theory
- 17A70 Superalgebras
- 17A75 Composition algebras
- 17A80 Valued algebras
- 17A99 None of the above, but in this section
- 17Bxx Lie algebras (For Lie groups, see 22Exx)**
- 17B01 Identities, free Lie algebras
- 17B05 Structure theory
- 17B10 Representations, algebraic theory (weights)
- 17B15 Representations, analytic theory
- 17B20 Simple, semisimple, reductive algebras (roots)
- 17B25 Exceptional algebras
- 17B30 Solvable, nilpotent algebras
- 17B35 Universal enveloping algebras [See also 16S30]
- 17B37 Quantum groups and related deformations [See also 16W30, 81R50, 82B23]
- 17B40 Automorphisms, derivations, other operators
- 17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
- 17B50 Modular Lie algebras
- 17B55 Homological methods in Lie algebras
- 17B56 Cohomology of Lie algebras
- 17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16W10, 17C40, 17C50]
- 17B65 Infinite-dimensional Lie algebras [See also 22E65]
- 17B66 Lie algebras of vector fields and related algebras
- 17B67 Kac-Moody algebras (structure and representation theory)
- 17B68 Virasoro and related algebras
- 17B70 Graded Lie algebras
- 17B81 Applications to physics
- 17B99 None of the above, but in this section
- 17Cxx Jordan algebras (algebras, triples and pairs)**
- 17C05 Identities and free Jordan structures
- 17C10 Structure theory
- 17C17 Radicals
- 17C20 Simple, semisimple algebras
- 17C27 Idempotents, Peirce decompositions
- 17C30 Associated groups, automorphisms
- 17C36 Associated manifolds
- 17C37 Associated geometries
- 17C40 Exceptional Jordan structures
- 17C50 Jordan structures associated with other structures [See also 16W10]
- 17C55 Finite-dimensional structures
- 17C60 Division algebras
- 17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
- 17C70 Super structures
- 17C90 Applications to physics
- 17C99 None of the above, but in this section
- 17Dxx Other nonassociative rings and algebras**
- 17D05 Alternative rings
- 17D10 Mal'cev (Mal'tsev) rings and algebras
- 17D15 Right alternative rings
- 17D20 (γ, δ) -rings, including $(1, -1)$ -rings
- 17D25 Lie-admissible algebras
- 17D92 Genetic algebras
- 17D99 None of the above, but in this section
- 18-XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA**
- 18-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 18-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 18-02 Research exposition (monographs, survey articles)
- 18-03 Historical (must also be assigned at least one classification number from Section 01)
- 18-04 Explicit machine computation and programs (not the theory of computation or programming)
- 18-06 Proceedings, conferences, collections, etc.
- 18Axx General theory of categories and functors**
- 18A05 Definitions, generalizations
- 18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx]
- 18A15 Foundations, relations to logic and deductive systems [See also 03-XX]
- 18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
- 18A22 Special properties of functors (faithful, full, etc.)
- 18A23 Natural morphisms, dinatural morphisms
- 18A25 Functor categories, comma categories
- 18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
- 18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams
- 18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions
- 18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)
- 18A99 None of the above, but in this section
- 18Bxx Special categories**
- 18B05 Category of sets, characterizations [See also 03-XX]
- 18B10 Category of relations, additive relations
- 18B15 Embedding theorems, universal categories [See also 18E20]
- 18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
- 18B25 Topoi [See also 03G30]
- 18B30 Categories of topological spaces and continuous mappings [See also 54-XX]
- 18B35 Preorders, orders and lattices (viewed as categories) [See also 06-XX]
- 18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx]
- 18B99 None of the above, but in this section
- 18Cxx Categories and algebraic theories**
- 18C05 Equational categories [See also 03C05, 08C05]
- 18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
- 18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
- 18C20 Algebras and Kleisli categories associated with monads
- 18C99 None of the above, but in this section
- 18Dxx Categories with structure**
- 18D05 Double categories, 2-categories, bicategories, hypercategories
- 18D10 Monoidal categories (= multiplicative categories) [See also 19D23]
- 18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
- 18D20 Enriched categories (over closed or monoidal categories)
- 18D25 Strong functors, strong adjunctions
- 18D30 Fibered categories
- 18D35 Structured objects in a category (group objects, etc.)
- 18D99 None of the above, but in this section

- 18Exx** **Abelian categories**
 18E05 Preaddivisible, additive categories
 18E10 Exact categories, abelian categories
 18E15 Grothendieck categories
 18E20 Embedding theorems [See also 18B15]
 18E25 Derived functors and satellites
 18E30 Derived categories, triangulated categories
 18E35 Localization of categories
 18E40 Torsion theories, radicals [See also 13D30, 16S90]
 18E99 None of the above, but in this section
- 18Fxx** **Categories and geometry**
 18F05 Local categories and functors
 18F10 Grothendieck topologies [See also 14F20]
 18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
 18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
 18F25 Algebraic K -theory and L -theory [See also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16E20, 19-XX, 46L80, 57R65, 57R67]
 18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
 18F99 None of the above, but in this section
- 18Gxx** **Homological algebra** [See also 13Dxx, 16Exx, 55Uxx]
 18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
 18G10 Resolutions; derived functors [See also 18E25]
 18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
 18G20 Homological dimension [See also 13D05, 16E10]
 18G25 Relative homological algebra, projective classes
 18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
 18G35 Chain complexes [See also 18E30, 55U15]
 18G40 Spectral sequences, hypercohomology [See also 55Txx]
 18G50 Nonabelian homological algebra
 18G55 Nonabelian homotopical algebra
 18G60 Other (co)homology theories (cyclic, dihedral, etc.) [See also 19D55, 46L80, 58B30, 58G12]
 18G99 None of the above, but in this section
- 19-XX** **K -THEORY** [See also 16E20, 18F25]
 19-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 19-01 Instructional exposition (textbooks, tutorial papers, etc.)
 19-02 Research exposition (monographs, survey articles)
 19-03 Historical (must also be assigned at least one classification number from Section 01)
 19-04 Explicit machine computation and programs (not the theory of computation or programming)
 19-06 Proceedings, conferences, collections, etc.
- 19Axx** **Grothendieck groups and K_0** [See also 13D15, 18F30]
 19A13 Stability for projective modules [See also 13C10]
 19A15 Efficient generation
 19A22 Frobenius induction, Burnside and representation rings
 19A31 K_0 of group rings and orders
 19A49 K_0 of other rings
 19A99 None of the above, but in this section
- 19Bxx** **Whitehead groups and K_1**
 19B10 Stable range conditions
 19B14 Stability for linear groups
 19B28 K_1 of group rings and orders [See also 57Q10]
 19B37 Congruence subgroup problems [See also 20H05]
 19B99 None of the above, but in this section
- 19Cxx** **Steinberg groups and K_2**
 19C09 Central extensions and Schur multipliers
 19C20 Symbols, presentations and stability of K_2
 19C30 K_2 and the Brauer group
 19C40 Excision for K_2
 19C99 None of the above, but in this section
- 19Dxx** **Higher algebraic K -theory**
 19D06 Q - and plus-constructions
 19D10 Algebraic K -theory of spaces
 19D23 Symmetric monoidal categories [See also 18D10]
 19D25 Karoubi-Villamayor-Gersten K -theory
 19D35 Negative K -theory, NK and Nil
 19D45 Higher symbols, Milnor K -theory
 19D50 Computations of higher K -theory of rings [See also 13D15, 16E20]
 19D55 K -theory and homology; cyclic homology and cohomology [See also 18G60]
 19D99 None of the above, but in this section
- 19Exx** **K -theory in geometry**
 19E08 K -theory of schemes [See also 14C35]
 19E15 Algebraic cycles [See also 14C25, 14C35]
 19E20 Relations with cohomology theories [See also 14Fxx]
 19E99 None of the above, but in this section
- 19Fxx** **K -theory in number theory** [See also 11R70, 11S70]
 19F05 Generalized class field theory [See also 11G45]
 19F15 Symbols and arithmetic [See also 11R37]
 19F27 Étale cohomology, higher regulators, zeta and L -functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
 19F99 None of the above, but in this section
- 19Gxx** **K -theory of forms** [See also 11Exx]
 19G05 Stability for quadratic modules
 19G12 Witt groups of rings [See also 11E81]
 19G24 L -theory of group rings [See also 11E81]
 19G38 Hermitian K -theory, relations with K -theory of rings
 19G99 None of the above, but in this section
- 19Jxx** **Obstructions from topology**
 19J05 Finiteness and other obstructions in K_0
 19J10 Whitehead (and related) torsion
 19J25 Surgery obstructions [See also 57R67]
 19J35 Obstructions to group actions
 19J99 None of the above, but in this section
- 19Kxx** **K -theory and operator algebras** [See mainly 46L80, and also 46M20]
 19K14 K_0 as an ordered group, traces
 19K33 EXT and K -homology [See also 55N22]
 19K35 Kasparov theory (KK -theory) [See also 58G12]
 19K56 Index theory [See also 58G12]
 19K99 None of the above, but in this section
- 19Lxx** **Topological K -theory** [See also 55N15, 55R50, 55S25]
 19L10 Riemann-Roch theorems, Chern characters
 19L20 J -homomorphism, Adams operations [See also 55Q50]
 19L41 Connective K -theory, cobordism [See also 55N22]
 19L47 Equivariant K -theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
 19L64 Computations, geometric applications
 19L99 None of the above, but in this section
- 19M05** **Miscellaneous applications of K -theory**
- 20-XX** **GROUP THEORY AND GENERALIZATIONS**
 20-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 20-01 Instructional exposition (textbooks, tutorial papers, etc.)
 20-02 Research exposition (monographs, survey articles)
 20-03 Historical (must also be assigned at least one classification number from Section 01)
 20-04 Explicit machine computation and programs (not the theory of computation or programming)
 20-06 Proceedings, conferences, collections, etc.
- 20Axx** **Foundations**
 20A05 Axiomatics and elementary properties
 20A10 Metamathematical considerations (For word problems, see 20F10)
 20A15 Applications of logic to group theory
 20A99 None of the above, but in this section
- 20Bxx** **Permutation groups**
 20B05 General theory for finite groups
 20B07 General theory for infinite groups
 20B10 Characterization theorems
 20B15 Primitive groups
 20B20 Multiply transitive finite groups
 20B22 Multiply transitive infinite groups
 20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX]
 20B27 Infinite automorphism groups [See also 12F10]
 20B30 Symmetric groups
 20B35 Subgroups of symmetric groups
 20B40 Computational methods
 20B99 None of the above, but in this section
- 20Cxx** **Representation theory of groups** [See also 19A22 (for representation rings and Burnside rings)]
 20C05 Group rings of finite groups and their modules [See also 16S34]
 20C07 Group rings of infinite groups and their modules [See also 16S34]
 20C10 Integral representations of finite groups
 20C11 p -adic representations of finite groups
 20C12 Integral representations of infinite groups
 20C15 Ordinary representations and characters
 20C20 Modular representations and characters
 20C25 Projective representations and multipliers
 20C30 Representations of finite symmetric groups
 20C32 Representations of infinite symmetric groups
 20C33 Representations of finite groups of Lie type
 20C34 Representations of sporadic groups
 20C35 Applications of group representations to physics
 20C40 Computational methods
 20C99 None of the above, but in this section
- 20Dxx** **Abstract finite groups**
 20D05 Classification of simple and nonsolvable groups
 20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx, 22Exx]

- 20D08 Simple groups; sporadic groups
 20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π -length, ranks [See also 20F17]
 20D15 Nilpotent groups, p -groups
 20D20 Sylow subgroups, Sylow properties, π -groups, π -structure
 20D25 Special subgroups (Fratini, Fitting, etc.)
 20D30 Series and lattices of subgroups
 20D35 Subnormal subgroups
 20D40 Products of subgroups
 20D45 Automorphisms
 20D50 Covering of subgroups
 20D60 Arithmetic and combinatorial problems
 20D99 None of the above, but in this section
 20Exx **Structure and classification of infinite or finite groups**
 20E05 Free nonabelian groups
 20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
 20E07 Subgroup theorems
 20E08 Groups acting on trees
 20E10 Quasivarieties and varieties of groups
 20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
 20E18 Limits, profinite groups
 20E22 Extensions, wreath products, and other compositions [See also 20J05]
 20E25 Local properties
 20E26 Residual properties and generalizations
 20E28 Maximal subgroups
 20E32 Simple groups [See also 20D05]
 20E34 General structure theorems
 20E36 General theorems concerning automorphisms of groups
 20E42 Groups with a BN -pair; buildings [See also 51E24]
 20E99 None of the above, but in this section
 20Fxx **Special aspects of infinite or finite groups**
 20F05 Generators, relations, and presentations
 20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
 20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]
 20F12 Commutator calculus
 20F14 Derived series, central series, and generalizations
 20F16 Solvable groups, supersolvable groups
 20F17 Formations of groups, Fitting classes [See also 20D10]
 20F18 Nilpotent groups
 20F19 Generalizations of solvable and nilpotent groups
 20F22 Other classes of groups defined by subgroup chains
 20F24 FC-groups and their generalizations
 20F28 Automorphism groups of groups [See also 20E36]
 20F29 Representations of groups as automorphism groups of algebraic systems
 20F32 Geometric group theory [See also 05C25, 20Exx, 20Gxx]
 20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx, 22E40]
 20F36 Braid groups; Artin groups
 20F38 Other groups related to topology or analysis
 20F40 Associated Lie structures
 20F45 Engel conditions
 20F50 Periodic groups; locally finite groups
 20F55 Coxeter groups [See also 22E40]
 20F60 Ordered groups [See mainly 06F15]
 20F99 None of the above, but in this section
 20Gxx **Linear algebraic groups (classical groups) (For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55)**
 20G05 Representation theory
 20G10 Cohomology theory
 20G15 Linear algebraic groups over arbitrary fields
 20G20 Linear algebraic groups over the reals, the complexes, the quaternions
 20G25 Linear algebraic groups over local fields and their integers
 20G30 Linear algebraic groups over global fields and their integers
 20G35 Linear algebraic groups over adèles and other rings and schemes
 20G40 Linear algebraic groups over finite fields
 20G45 Applications to physics; explicit representations
 20G99 None of the above, but in this section
 20Hxx **Other groups of matrices [See also 15A30]**
 20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
 20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
 20H15 Other geometric groups, including crystallographic groups [See also 51-XX, especially 51F15, and 82D25]
 20H20 Other matrix groups over fields
 20H25 Other matrix groups over rings
 20H30 Other matrix groups over finite fields
 20H99 None of the above, but in this section
 20Jxx **Connections with homological algebra and category theory**
 20J05 Homological methods in group theory
 20J06 Cohomology of finite groups
 20J10 Groups arising as cohomology groups
 20J15 Category of groups
 20J99 None of the above, but in this section
 20Kxx **Abelian groups**
 20K01 Finite abelian groups
 20K05 Finitely generated groups
 20K10 Torsion groups, primary groups and generalized primary groups
 20K12 Ulm sequences
 20K15 Torsion free groups, finite rank
 20K20 Torsion free groups, infinite rank
 20K21 Mixed groups
 20K25 Direct sums, direct products, etc.
 20K26 Indecomposable groups
 20K27 Subgroups
 20K30 Automorphisms, homomorphisms, endomorphisms, etc.
 20K35 Extensions
 20K40 Homological and categorical methods
 20K45 Topological methods [See also 22A05, 22B05]
 20K99 None of the above, but in this section
 20Lxx **Groupoids (i.e. small categories in which all morphisms are isomorphisms) (For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05)**
 20L05 General theory
 20L10 Connections with group theory
 20L13 Mappings of groupoids
 20L15 Connections with topology
 20L17 Connections with category theory
 20L99 None of the above, but in this section
 20Mxx **Semigroups**
 20M05 Free semigroups, generators and relations, word problems
 20M07 Varieties of semigroups
 20M10 General structure theory
 20M11 Radical theory
 20M12 Ideal theory
 20M14 Commutative semigroups
 20M15 Mappings of semigroups
 20M17 Regular semigroups
 20M18 Inverse semigroups
 20M19 Orthodox semigroups
 20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
 20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
 20M30 Representation of semigroups
 20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Qxx, 68S05]
 20M50 Connections of semigroups with homological algebra and category theory
 20M99 None of the above, but in this section
 20Nxx **Other generalizations of groups**
 20N02 Sets with a single binary operation (groupoids)
 20N05 Loops, quasigroups [See also 05Bxx]
 20N07 Mappings of loops
 20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
 20N15 n -ary systems
 20N20 Hypergroups
 20N25 Fuzzy groups [See also 04A72]
 20N99 None of the above, but in this section
 20P05 Probabilistic methods in group theory
 22-XX **TOPOLOGICAL GROUPS, LIE GROUPS (For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX)**
 22-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 22-01 Instructional exposition (textbooks, tutorial papers, etc.)
 22-02 Research exposition (monographs, survey articles)
 22-03 Historical (must also be assigned at least one classification number from Section 01)
 22-04 Explicit machine computation and programs (not the theory of computation or programming)
 22-06 Proceedings, conferences, collections, etc.
 22Axx **Topological and differentiable algebraic systems (For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35)**
 22A05 Structure of general topological groups
 22A10 Analysis on general topological groups
 22A15 Structure of topological semigroups

- 22A20 Analysis on topological semigroups
 22A22 Topological groupoids (including differentiable and Lie groupoids)
 22A25 Representations of general topological groups and semigroups
 22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
 22A30 Other topological algebraic systems and their representations
 22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
 22B05 General properties and structure of LCA groups
 22B10 Structure of group algebras of LCA groups
 22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
 22D05 General properties and structure of locally compact groups
 22D10 Unitary representations of locally compact groups
 22D12 Other representations of locally compact groups
 22D15 Group algebras of locally compact groups
 22D20 Representations of group algebras
 22D25 C^* -algebras and W^* -algebras arising from group representations [See also 46Lxx]
 22D30 Induced representations
 22D35 Duality theorems
 22D40 Ergodic theory on groups [See also 28Dxx, 43A60]
 22D45 Automorphism groups of locally compact groups
 22D99 None of the above, but in this section
22Exx Lie groups (For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90)
 22E05 Local Lie groups [See also 34-XX, 35-XX, 58H05]
 22E10 General properties and structure of complex Lie groups [See also 32M05]
 22E15 General properties and structure of real Lie groups
 22E20 General properties and structure of other Lie groups
 22E25 Nilpotent and solvable Lie groups
 22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
 22E30 Analysis on real and complex Lie groups [See also 33C80, 43-XX]
 22E35 Analysis on p -adic Lie groups [See also 11R56]
 22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
 22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
 22E43 Structure and representation of the Lorentz group
 22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods (For the purely algebraic theory, see 20G05)
 22E46 Semisimple Lie groups and their representations
 22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B35]
 22E50 Representations of Lie and linear algebraic groups over local fields
 22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
 22E60 Lie algebras of Lie groups (For the algebraic theory of Lie algebras, see 17Bxx)
 22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
 22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
 22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
 22E99 None of the above, but in this section
26-XX REAL FUNCTIONS [See also 54C30]
 26-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 26-01 Instructional exposition (textbooks, tutorial papers, etc.)
 26-02 Research exposition (monographs, survey articles)
 26-03 Historical (must also be assigned at least one classification number from Section 01)
 26-04 Explicit machine computation and programs (not the theory of computation or programming)
 26-06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
 26A03 Foundations: limits and generalizations, elementary topology of the line
 26A06 One-variable calculus
 26A09 Elementary functions
 26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
 26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) (For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27)
 26A16 Lipschitz (Hölder) classes
 26A18 Iteration [See also 39B12, 47H10, 54H25, 58F08, 58F13]
 26A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50]
 26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
 26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
 26A30 Singular functions, Cantor functions, functions with other special properties
 26A33 Fractional derivatives and integrals
 26A36 Antidifferentiation
 26A39 Denjoy and Perron integrals, other special integrals
 26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28-XX]
 26A45 Functions of bounded variation, generalizations
 26A46 Absolutely continuous functions
 26A48 Monotonic functions, generalizations
 26A51 Convexity, generalizations
 26A99 None of the above, but in this section
26Bxx Functions of several variables
 26B05 Continuity and differentiation questions
 26B10 Implicit function theorems, Jacobians, transformations with several variables
 26B12 Calculus of vector functions
 26B15 Integration: length, area, volume [See also 28A75, 51M25]
 26B20 Integral formulas (Stokes, Gauss, Green, etc.)
 26B25 Convexity, generalizations
 26B30 Absolutely continuous functions, functions of bounded variation
 26B35 Special properties of functions of several variables, Hölder conditions, etc.
 26B40 Representation and superposition of functions
 26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
 26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
 26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
 26C15 Rational functions [See also 14Pxx]
 26C99 None of the above, but in this section
26Dxx Inequalities (For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15)
 26D05 Inequalities for trigonometric functions and polynomials
 26D07 Inequalities involving other types of functions
 26D10 Inequalities involving derivatives and differential and integral operators
 26D15 Inequalities for sums, series and integrals
 26D20 Other analytical inequalities
 26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
 26E05 Real-analytic functions [See also 32B05, 32C05]
 26E10 C^∞ -functions, quasi-analytic functions [See also 58C25]
 26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
 26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
 26E25 Set-valued functions [See also 28B20, 54C60] (For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx)
 26E30 Non-Archimedean analysis [See also 12J25]
 26E35 Nonstandard analysis [See also 03F05, 28E05, 54J05]
 26E40 Constructive real analysis [See also 03F60, 03F65]
 26E50 Fuzzy real analysis [See also 04A72, 28E10]
 26E99 None of the above, but in this section
28-XX MEASURE AND INTEGRATION (For analysis on manifolds, see 58-XX)
 28-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 28-01 Instructional exposition (textbooks, tutorial papers, etc.)
 28-02 Research exposition (monographs, survey articles)
 28-03 Historical (must also be assigned at least one classification number from Section 01)
 28-04 Explicit machine computation and programs (not the theory of computation or programming)
 28-06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
 28A05 Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 04A15, 26A21, 54H05]
 28A10 Real- or complex-valued set functions
 28A12 Contents, measures, outer measures, capacities
 28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
 28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
 28A25 Integration with respect to measures and other set functions
 28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
 28A35 Measures and integrals in product spaces
 28A50 Integration and disintegration of measures
 28A51 Lifting theory [See also 46G15]
 28A60 Measures on Boolean rings, measure algebras [See also 54H10]

- 28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
- 28A78 Hausdorff measures
- 28A80 Fractals [See also 58Fxx]
- 28A99 None of the above, but in this section
- 28Bxx **Set functions, measures and integrals with values in abstract spaces**
- 28B05 Vector-valued set functions, measures and integrals [See also 46G10]
- 28B10 Group- or semigroup-valued set functions, measures and integrals
- 28B15 Set functions, measures and integrals with values in ordered spaces
- 28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 90A14]
- 28B99 None of the above, but in this section
- 28Cxx **Set functions and measures on spaces with additional structure** [See also 46G12, 58C35, 58D20]
- 28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
- 28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
- 28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
- 28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
- 28C99 None of the above, but in this section
- 28Dxx **Measure-theoretic ergodic theory** [See also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]
- 28D05 Measure-preserving transformations
- 28D10 One-parameter continuous families of measure-preserving transformations
- 28D15 General groups of measure-preserving transformations
- 28D20 Entropy and other invariants
- 28D99 None of the above, but in this section
- 28Exx **Miscellaneous topics in measure theory**
- 28E05 Nonstandard measure theory [See also 03H05, 26E35]
- 28E10 Fuzzy measure theory [See also 04A72, 26E50, 94D05]
- 28E15 Other connections with logic and set theory
- 28E99 None of the above, but in this section
- 30-XX FUNCTIONS OF A COMPLEX VARIABLE** {For analysis on manifolds, see 58-XX}
- 30-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 30-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 30-02 Research exposition (monographs, survey articles)
- 30-03 Historical (must also be assigned at least one classification number from Section 01)
- 30-04 Explicit machine computation and programs (not the theory of computation or programming)
- 30-06 Proceedings, conferences, collections, etc.
- 30Axx **General properties**
- 30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
- 30A10 Inequalities in the complex domain
- 30A99 None of the above, but in this section
- 30Bxx **Series expansions**
- 30B10 Power series (including lacunary series)
- 30B20 Random power series
- 30B30 Boundary behavior of power series, over-convergence
- 30B40 Analytic continuation
- 30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42-XX]
- 30B60 Completeness problems, closure of a system of functions
- 30B70 Continued fractions [See also 11A55, 40A15]
- 30B99 None of the above, but in this section
- 30Cxx **Geometric function theory**
- 30C10 Polynomials
- 30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
- 30C20 Conformal mappings of special domains
- 30C25 Covering theorems in conformal mapping theory
- 30C30 Numerical methods in conformal mapping theory [See also 65E05]
- 30C35 General theory of conformal mappings
- 30C40 Kernel functions and applications
- 30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
- 30C50 Coefficient problems for univalent and multivalent functions
- 30C55 General theory of univalent and multivalent functions
- 30C62 Quasiconformal mappings in the plane
- 30C65 Quasiconformal mappings in \mathbb{R}^n , other generalizations
- 30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
- 30C75 Extremal problems for conformal and quasiconformal mappings, other methods
- 30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
- 30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
- 30C99 None of the above, but in this section
- 30Dxx **Entire and meromorphic functions, and related topics**
- 30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39-XX, 58F05, 58F23]
- 30D10 Representations of entire functions by series and integrals
- 30D15 Special classes of entire functions and growth estimates
- 30D20 Entire functions, general theory
- 30D30 Meromorphic functions, general theory
- 30D35 Distribution of values, Nevanlinna theory
- 30D40 Cluster sets, prime ends, boundary behavior
- 30D45 Bloch functions, normal functions, normal families
- 30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
- 30D55 H^p -classes
- 30D60 Quasi-analytic and other classes of functions
- 30D99 None of the above, but in this section
- 30Exx **Miscellaneous topics of analysis in the complex domain**
- 30E05 Moment problems, interpolation problems
- 30E10 Approximation in the complex domain
- 30E15 Asymptotic representations in the complex domain
- 30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
- 30E25 Boundary value problems [See also 45Exx]
- 30E99 None of the above, but in this section
- 30Fxx **Riemann surfaces**
- 30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
- 30F15 Harmonic functions on Riemann surfaces
- 30F20 Classification theory of Riemann surfaces
- 30F25 Ideal boundary theory
- 30F30 Differentials on Riemann surfaces
- 30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
- 30F40 Kleinian groups [See also 20H10]
- 30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
- 30F50 Klein surfaces
- 30F60 Teichmüller theory [See also 32G15]
- 30F99 None of the above, but in this section
- 30Gxx **Generalized function theory**
- 30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
- 30G12 Finely holomorphic functions and topological function theory
- 30G15 Topological function theory
- 30G20 Generalizations of Bers or Vekua type (pseudo-analytic, p -analytic, etc.)
- 30G25 Discrete analytic functions
- 30G30 Other generalizations of analytic functions (including abstract-valued functions)
- 30G35 Functions of hypercomplex variables and generalized variables
- 30G99 None of the above, but in this section
- 30H05 **Spaces and algebras of analytic functions** [See also 32E25, 46Exx, 46J15]
- 31-XX POTENTIAL THEORY** {For probabilistic potential theory, see 60J45}
- 31-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 31-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 31-02 Research exposition (monographs, survey articles)
- 31-03 Historical (must also be assigned at least one classification number from Section 01)
- 31-04 Explicit machine computation and programs (not the theory of computation or programming)
- 31-06 Proceedings, conferences, collections, etc.
- 31Axx **Two-dimensional theory**
- 31A05 Harmonic, subharmonic, superharmonic functions
- 31A10 Integral representations, integral operators, integral equations methods
- 31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
- 31A20 Boundary behavior (theorems of Fatou type, etc.)
- 31A25 Boundary value and inverse problems
- 31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
- 31A35 Connections with differential equations
- 31A99 None of the above, but in this section
- 31Bxx **Higher-dimensional theory**
- 31B05 Harmonic, subharmonic, superharmonic functions
- 31B10 Integral representations, integral operators, integral equations methods
- 31B15 Potentials and capacities, extremal length

- 31B20 Boundary value and inverse problems
 31B25 Boundary behavior
 31B30 Biharmonic and polyharmonic equations and functions
 31B35 Connections with differential equations
 31B99 None of the above, but in this section
 31Cxx **Other generalizations**
 31C05 Harmonic, subharmonic, superharmonic functions
 31C10 Pluriharmonic and plurisubharmonic functions [See also 32F05]
 31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
 31C15 Potentials and capacities
 31C20 Discrete potential theory and numerical methods
 31C25 Dirichlet spaces
 31C35 Martin boundary theory [See also 60J50]
 31C40 Fine potential theory
 31C45 Other generalizations (nonlinear potential theory, etc.)
 31C99 None of the above, but in this section
 31D05 **Axiomatic potential theory**
- 32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES (For infinite-dimensional holomorphy, see also 46G20, 58B12)**
 32-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 32-01 Instructional exposition (textbooks, tutorial papers, etc.)
 32-02 Research exposition (monographs, survey articles)
 32-03 Historical (must also be assigned at least one classification number from Section 01)
 32-04 Explicit machine computation and programs (not the theory of computation or programming)
 32-06 Proceedings, conferences, collections, etc.
 32Axx **Holomorphic functions of several complex variables**
 32A05 Power series, series of functions
 32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
 32A10 Holomorphic functions
 32A15 Entire functions
 32A17 Special families of functions (e.g. normal families)
 32A20 Meromorphic functions
 32A22 Nevanlinna theory (local); growth estimates; other inequalities (For geometric theory, see 32H25, 32H30)
 32A25 Integral representation
 32A27 Local theory of residues [See also 32C30]
 32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) (For functions of several hypercomplex variables, see 30G35)
 32A35 H^p -spaces [See also 32M15, 42B30, 43A85, 46J15]
 32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [See also 46Exx]
 32A40 Boundary behavior
 32A45 Hyperfunctions [See also 46F15]
 32A99 None of the above, but in this section
 32Bxx **Local analytic geometry** [See also 13-XX and 14-XX]
 32B05 Analytic algebras and generalizations, preparation theorems
 32B10 Germs of analytic sets
 32B15 Analytic subsets of affine space
 32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
 32B25 Triangulation and related questions
 32B99 None of the above, but in this section
 32Cxx **General theory of analytic spaces**
 32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
 32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
 32C10 Complex manifolds (For almost complex manifolds, see 53C15)
 32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
 32C15 Complex spaces
 32C16 CR-manifolds
 32C17 Kähler geometry (For differential-geometric methods, see 53C55)
 32C18 Topology of analytic spaces
 32C20 Normal analytic spaces
 32C25 Analytic subsets and submanifolds
 32C30 Integration on analytic sets and spaces, currents (For local theory, see 32A25 or 32A27)
 32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
 32C36 Local cohomology of analytic spaces
 32C37 Duality theorems
 32C38 Sheaves of differential operators and their modules [See also 14F10, 16S32, 35A27, 58G07]
 32C81 Applications to physics
 32C99 None of the above, but in this section
 32Dxx **Analytic continuation**
 32D05 Domains of holomorphy
 32D10 Envelopes of holomorphy
 32D15 Continuation of analytic objects
 32D20 Removable singularities
 32D99 None of the above, but in this section
 32Exx **Holomorphic convexity**
 32E05 Holomorphically convex complex spaces, reduction theory
 32E10 Stein spaces, Stein manifolds
 32E20 Polynomial convexity
 32E25 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
 32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
 32E35 Global boundary behavior of holomorphic functions
 32E99 None of the above, but in this section
 32Fxx **Geometric convexity, partial differential operators**
 32F05 Plurisubharmonic functions and generalizations [See also 31C10]
 32F07 Complex Monge-Ampère operator
 32F10 q -convexity, q -concavity
 32F15 Pseudoconvex domains
 32F20 $\bar{\partial}$ - and $\bar{\partial}_*$ -Neumann problems [See also 35N15]
 32F25 Real submanifolds in complex manifolds
 32F30 Pseudoconvex manifolds
 32F40 CR structures, (tangential) CR operators and generalizations
 32F99 None of the above, but in this section
 32Gxx **Deformations of analytic structures**
 32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
 32G07 Deformations of special (e.g. CR) structures
 32G08 Deformations of fiber bundles
 32G10 Deformations of submanifolds and subspaces
 32G13 Analytic moduli problems (For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10) [See also 14H15, 14J15]
 32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
 32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
 32G34 Moduli and deformations for ordinary differential equations [See also 34A20]
 32G81 Applications to physics
 32G99 None of the above, but in this section
 32Hxx **Holomorphic mappings and correspondences**
 32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
 32H04 Meromorphic mappings
 32H10 Bergman kernel function, representative domains
 32H15 Invariant metrics and pseudodistances
 32H20 Hyperbolic complex manifolds
 32H25 Picard-type theorems and generalizations (For function-theoretic properties, see 32A22)
 32H30 Value distribution theory in higher dimensions (For function-theoretic properties, see 32A22)
 32H35 Proper mappings, finiteness theorems
 32H40 Boundary regularity of holomorphic maps
 32H50 Iteration problems
 32H99 None of the above, but in this section
 32Jxx **Compact analytic spaces (For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx)**
 32J05 Compactification of analytic spaces
 32J10 Algebraic dependence theorems
 32J15 Compact surfaces
 32J17 Compact 3-folds
 32J18 Compact n -folds ($n \geq 4$)
 32J20 Algebraicity criteria
 32J25 Transcendental methods of algebraic geometry [See also 14C30]
 32J27 Compact Kähler manifolds: generalizations, classification
 32J81 Applications to physics
 32J99 None of the above, but in this section
 32Kxx **Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)**
 32K05 Banach analytic spaces [See also 58Bxx]
 32K07 Formal and graded complex spaces [See also 58C50]
 32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
 32K99 None of the above, but in this section
 32Lxx **Holomorphic fiber spaces** [See also 55Rxx]
 32L05 Holomorphic fiber bundles and generalizations
 32L07 Hermite-Einstein bundles; Kähler-Einstein metrics [See also 53C07]
 32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
 32L15 Bundle convexity [See also 32F10]
 32L20 Vanishing theorems
 32L25 Twistor theory, double fibrations
 32L30 Holomorphic foliations [See also 58F18]
 32L81 Applications to physics
 32L99 None of the above, but in this section

- 32Mxx **Complex spaces with a group of automorphisms**
 32M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10]
 32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
 32M12 Almost homogeneous manifolds and spaces [See also 14M17]
 32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15]
 32M99 None of the above, but in this section
 32Nxx **Automorphic functions** [See also 11Fxx, 20H10, 22E40, 30F35]
 32N05 General theory of automorphic functions of several complex variables
 32N10 Automorphic forms
 32N15 Automorphic functions in symmetric domains
 32N99 None of the above, but in this section
 32P05 **Non-Archimedean complex analysis** (should also be assigned at least one other classification number from Section 32 describing the type of problem)
 32Sxx **Singularities**
 32S05 Local singularities [See also 14B05]
 32S10 Invariants of analytic local rings
 32S15 Equisingularity (topological and analytic) [See also 14E15]
 32S20 Global theory of singularities; cohomological properties [See also 14E15]
 32S25 (Hyper-) surface singularities [See also 14J17]
 32S30 Deformations of singularities; vanishing cycles [See also 14B07]
 32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
 32S40 Monodromy; relations with differential equations and D -modules
 32S45 Modifications; resolution of singularities [See also 14E15]
 32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
 32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
 32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58C27]
 32S65 Singularities of holomorphic vector fields
 32S70 Other operations on singularities
- 33-XX **SPECIAL FUNCTIONS** (33-XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11-XX; for representation theory, see 22Exx)
 33-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 33-01 Instructional exposition (textbooks, tutorial papers, etc.)
 33-02 Research exposition (monographs, survey articles)
 33-03 Historical (must also be assigned at least one classification number from Section 01)
 33-04 Explicit machine computation and programs (not the theory of computation or programming)
 33-06 Proceedings, conferences, collections, etc.
 33Bxx **Elementary classical functions**
 33B10 Exponential and trigonometric functions
 33B15 Gamma, beta and polygamma functions
 33B20 Incomplete beta and gamma functions (error functions, probability integrals, Fresnel integrals)
 33B99 None of the above, but in this section
 33Cxx **Hypergeometric functions**
 33C05 Classical hypergeometric functions, ${}_2F_1$
 33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
 33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
 33C20 Generalized hypergeometric series, ${}_pF_q$
 33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)
 33C50 Orthogonal polynomials and functions in several variables
 33C55 Spherical functions, spherical harmonics, ultraspherical polynomials
 33C60 Hypergeometric integrals and functions defined by them (E , G and H functions)
 33C65 Appell, Horn and Lauricella functions
 33C70 Other hypergeometric functions and integrals in several variables
 33C75 Elliptic integrals as hypergeometric functions
 33C80 Connections with groups, algebras, root systems and related topics
 33C90 Applications
 33C99 None of the above, but in this section
 33Dxx **Basic hypergeometric functions**
 33D05 q -gamma functions, q -beta functions and integrals
 33D10 Basic theta functions
 33D15 Basic hypergeometric functions in one variable
 33D20 Generalized basic hypergeometric series
 33D45 Basic orthogonal polynomials and functions in one and several variables
 33D55 Basic spherical functions, spherical harmonics (continuous and discrete)
 33D60 Basic hypergeometric integrals and functions defined by them
 33D65 Bibasic functions and multiple bases
 33D70 Other basic hypergeometric functions and integrals in several variables
- 33D80 Connections with groups, algebras, and related topics
 33D90 Applications
 33D99 None of the above, but in this section
 33Exx **Other special functions**
 33E05 Elliptic functions and integrals
 33E10 Lamé, Mathieu, and spheroidal wave functions
 33E15 Other wave functions
 33E20 Other functions defined by series and integrals
 33E30 Other functions coming from differential, difference and integral equations
 33E99 None of the above, but in this section
- 34-XX **ORDINARY DIFFERENTIAL EQUATIONS**
 34-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 34-01 Instructional exposition (textbooks, tutorial papers, etc.)
 34-02 Research exposition (monographs, survey articles)
 34-03 Historical (must also be assigned at least one classification number from Section 01)
 34-04 Explicit machine computation and programs (not the theory of computation or programming)
 34-06 Proceedings, conferences, collections, etc.
 34Axx **General theory**
 34A05 Explicit solutions and reductions
 34A09 Implicit equations
 34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
 34A20 Differential equations in the complex domain [See also 30D05, 32G34]
 34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44-XX, 47E05]
 34A26 Geometric methods in differential equations
 34A30 Linear equations and systems
 34A34 Nonlinear equations and systems, general
 34A35 Differential equations of infinite order
 34A37 Differential equations with impulses
 34A40 Differential inequalities
 34A45 Theoretical approximation of solutions
 34A46 Theoretical solution methods other than approximations
 34A47 Bifurcation
 34A50 Numerical approximation of solutions (For numerical analysis, see 65Lxx)
 34A55 Inverse problems
 34A60 Equations with multivalued right-hand sides [See also 49J24, 49K24]
 34A65 Stiff equations
 34A99 None of the above, but in this section
 34Bxx **Boundary value problems** (For ordinary differential operators, see 34Lxx)
 34B05 Linear equations
 34B10 Multipoint boundary value problems
 34B15 Nonlinear boundary value problems
 34B20 Weyl theory and its generalizations
 34B24 Sturm-Liouville theory [See also 34Lxx]
 34B27 Green functions
 34B30 Special equations (Mathieu, Hill, Bessel, etc.)
 34B99 None of the above, but in this section
 34Cxx **Qualitative theory** [See also 58Fxx]
 34C05 Location of integral curves, singular points, limit cycles
 34C10 Oscillation theory, zeros, disconjugacy and comparison theory
 34C11 Growth, boundedness, comparison of solutions
 34C15 Nonlinear oscillations
 34C20 Transformation and reduction of equations and systems, normal forms
 34C23 Bifurcation [See mainly 58F14]
 34C25 Periodic solutions
 34C27 Almost-periodic solutions
 34C28 Other types of "recurrent" solutions
 34C29 Averaging method
 34C30 Manifolds of solutions
 34C35 Dynamical systems [See also 54H20, 58Fxx, 70-XX]
 34C37 Homoclinic and heteroclinic solutions [See also 58F15]
 34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]
 34C45 Method of integral manifolds
 34C50 Method of accelerated convergence
 34C99 None of the above, but in this section
 34Dxx **Stability theory** [See also 58F10, 93Dxx]
 34D05 Asymptotic properties
 34D08 Lyapunov exponents
 34D10 Perturbations
 34D15 Singular perturbations
 34D20 Lyapunov stability
 34D25 Popov-type stability
 34D30 Structural stability and analogous concepts [See also 58F10, 58F12]
 34D35 Stability of manifolds of solutions
 34D40 Ultimate boundedness

- 34D45 Attractors
 34D99 None of the above, but in this section
34Exx Asymptotic theory
 34E05 Asymptotic expansions
 34E10 Perturbations, asymptotics
 34E15 Singular perturbations, general theory
 34E20 Singular perturbations, turning point theory, WKB methods
 34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 58D25]
 34G10 Linear equations [See also 47Axx, 47Bxx, 47D06, 47D09]
 34G20 Nonlinear equations [See also 47Hxx]
 34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments
 34K05 General theory
 34K10 Boundary value problems
 34K15 Qualitative theory
 34K20 Stability theory
 34K25 Asymptotic theory
 34K30 Equations in abstract spaces [See also 34Gxx]
 34K35 Control problems [See also 49J25, 49K25, 93C15]
 34K40 Neutral equations
 34K50 Stochastic delay equations [See also 34F05, 60Hxx]
 34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
 34L05 General spectral theory
 34L10 Eigenfunction expansions, completeness of eigenfunctions
 34L15 Estimation of eigenvalues, upper and lower bounds
 34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
 34L25 Scattering theory
 34L30 Nonlinear ordinary differential operators
 34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
 34L99 None of the above, but in this section
35-XX PARTIAL DIFFERENTIAL EQUATIONS
 35-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 35-01 Instructional exposition (textbooks, tutorial papers, etc.)
 35-02 Research exposition (monographs, survey articles)
 35-03 Historical (must also be assigned at least one classification number from Section 01)
 35-04 Explicit machine computation and programs (not the theory of computation or programming)
 35-06 Proceedings, conferences, collections, etc.
35Axx General theory
 35A05 General existence and uniqueness theorems
 35A07 Local existence and uniqueness theorems [See also 35H05, 35Sxx]
 35A08 Fundamental solutions
 35A10 Cauchy-Kovalevskaya theorems
 35A15 Variational methods
 35A20 Analytic methods, singularities
 35A22 Transform methods (e.g. integral transforms)
 35A25 Other special methods
 35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58G07]
 35A30 Geometric theory, characteristics, transformations [See also 58G35, 58G37]
 35A35 Theoretical approximation to solutions
 35A40 Numerical approximation to solutions (For numerical analysis, see 65Mxx, 65Nxx, 65P05)
 35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
 35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
 35B10 Periodic solutions
 35B15 Almost periodic solutions
 35B20 Perturbations
 35B25 Singular perturbations
 35B27 Homogenization; partial differential equations in media with periodic structure [See also 73B27, 76D30]
 35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 58F14]
 35B32 Bifurcation [See also 58F14]
 35B35 Stability, boundedness
 35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
 35B40 Asymptotic behavior of solutions
 35B45 A priori estimates
 35B50 Maximum principles
 35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
 35B65 Smoothness/regularity of solutions of PDE
 35B99 None of the above, but in this section
35Cxx Representations of solutions
 35C05 Solutions in closed form
 35C10 Series solutions, expansion theorems
 35C15 Integral representations of solutions of PDE
 35C20 Asymptotic expansions
 35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
 35D05 Existence of generalized solutions
 35D10 Regularity of generalized solutions
 35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
 35E05 Fundamental solutions
 35E10 Convexity properties
 35E15 Initial value problems
 35E20 General theory
 35E99 None of the above, but in this section
35Fxx General first-order equations and systems
 35F05 General theory of linear first-order PDE
 35F10 Initial value problems for linear first-order PDE, linear evolution equations
 35F15 Boundary value problems for linear first-order PDE
 35F20 General theory of nonlinear first-order PDE
 35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
 35F30 Boundary value problems for nonlinear first-order PDE
 35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
 35G05 General theory of linear higher-order PDE
 35G10 Initial value problems for linear higher-order PDE, linear evolution equations
 35G15 Boundary value problems for linear higher-order PDE
 35G20 General theory of nonlinear higher-order PDE
 35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
 35G30 Boundary value problems for nonlinear higher-order PDE
 35G99 None of the above, but in this section
35H05 Hypoelliptic equations and systems [See also 58Gxx]
35Jxx Partial differential equations of elliptic type [See also 58G05, 58G10]
 35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
 35J10 Schrödinger operator [See also 35Pxx]
 35J15 General theory of second-order elliptic equations
 35J20 Variational methods for second-order elliptic equations
 35J25 Boundary value problems for second-order elliptic equations
 35J30 General theory of higher-order elliptic equations [See also 31A30, 31B30]
 35J35 Variational methods for higher-order elliptic equations
 35J40 Boundary value problems for higher-order elliptic equations
 35J45 General theory of elliptic systems of PDE
 35J50 Variational methods for elliptic systems
 35J55 Boundary value problems for elliptic systems
 35J60 Nonlinear PDE of elliptic type
 35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
 35J67 Boundary values of solutions to elliptic PDE
 35J70 Elliptic partial differential equations of degenerate type
 35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
 35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]
 35K05 Heat equation
 35K10 General theory of second-order parabolic equations
 35K15 Initial value problems for second-order parabolic equations
 35K20 Boundary value problems for second-order parabolic equations
 35K22 Evolution equations (any order in the spatial derivatives) [See also 58D25]
 35K25 General theory of higher-order parabolic equations
 35K30 Initial value problems for higher-order parabolic equations
 35K35 Boundary value problems for higher-order parabolic equations
 35K40 General theory of parabolic systems of PDE
 35K45 Initial value problems for parabolic systems
 35K50 Boundary value problems for parabolic systems
 35K55 Nonlinear PDE of parabolic type
 35K57 Reaction-diffusion equations
 35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
 35K65 Parabolic partial differential equations of degenerate type

- 35K70 Ultraparabolic, pseudoparabolic PDE, etc.
 35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
 35K99 None of the above, but in this section
 35Lxx **Partial differential equations of hyperbolic type** [See also 58G16]
 35L05 Wave equation
 35L10 General theory of second-order hyperbolic equations
 35L15 Initial value problems for second-order hyperbolic equations
 35L20 Boundary value problems for second-order hyperbolic equations
 35L25 General theory of higher-order hyperbolic equations
 35L30 Initial value problems for higher-order hyperbolic equations
 35L35 Boundary value problems for higher-order hyperbolic equations
 35L40 General theory of hyperbolic systems of first-order PDE
 35L45 Initial value problems for hyperbolic systems of first-order PDE
 35L50 Boundary value problems for hyperbolic systems of first-order PDE
 35L55 Hyperbolic systems of higher-order PDE
 35L60 Nonlinear first-order PDE of hyperbolic type
 35L65 Conservation laws
 35L67 Shocks and singularities [See also 58C27, 76L05]
 35L70 Nonlinear second-order PDE of hyperbolic type
 35L75 Nonlinear hyperbolic PDE of higher (> 2) order
 35L80 Hyperbolic PDE of degenerate type
 35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
 35L99 None of the above, but in this section
 35Mxx **Partial differential equations of special type (mixed, composite, etc.)** [For degenerate types, see 35J70, 35K65, 35L80]
 35M10 PDE of mixed type
 35M20 PDE of composite type
 35M99 None of the above, but in this section
 35Nxx **Overdetermined systems** [See also 58G05, 58G07, 58Hxx]
 35N05 Overdetermined systems with constant coefficients
 35N10 Overdetermined systems with variable coefficients (general)
 35N15 $\bar{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32F20 and 58G05]
 35N99 None of the above, but in this section
 35Pxx **Spectral theory and eigenvalue problems for partial differential operators** [See also 47Axx, 47Bxx, 47F05]
 35P05 General spectral theory of PDE
 35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
 35P15 Estimation of eigenvalues, upper and lower bounds
 35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
 35P25 Scattering theory for PDE [See also 47A40]
 35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
 35P99 None of the above, but in this section
 35Qxx **Equations of mathematical physics and other areas of application** [See also 35J05, 35J10, 35K05, 35L05]
 35Q05 Euler-Poisson-Darboux equation and generalizations
 35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
 35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
 35Q35 Other equations arising in fluid mechanics
 35Q40 Equations from quantum mechanics
 35Q51 Solitons [See also 58F07]
 35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 58F07]
 35Q55 NLS-like (nonlinear Schrödinger) equations [See also 58F07]
 35Q58 Other completely integrable equations [See also 58F07]
 35Q60 Equations of electromagnetic theory and optics
 35Q72 Other equations from mechanics
 35Q75 PDE in relativity
 35Q80 Applications of PDE in areas other than physics
 35Q99 None of the above, but in this section
 35Rxx **Miscellaneous topics involving partial differential equations** [For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE, see also 60H15]
 35R05 PDE with discontinuous coefficients or data
 35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
 35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
 35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]
 35R25 Improperly posed problems for PDE
 35R30 Inverse problems (undetermined coefficients, etc.) for PDE
 35R35 Free boundary problems for PDE
 35R45 Partial differential inequalities
 35R50 Partial differential equations of infinite order
 35R60 Partial differential equations with randomness [See also 60H15]
 35R70 PDE with multivalued right-hand sides
 35R99 None of the above, but in this section
 35Sxx **Pseudodifferential operators and other generalizations of partial differential operators** [See also 47G30, 58G15]
 35S05 General theory of PDO
 35S10 Initial value problems for PDO
 35S15 Boundary value problems for PDO
 35S30 Fourier integral operators
 35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58G07]
 35S50 Paradiifferential operators
 35S99 None of the above, but in this section
 39-XX **FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS**
 39-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 39-01 Instructional exposition (textbooks, tutorial papers, etc.)
 39-02 Research exposition (monographs, survey articles)
 39-03 Historical (must also be assigned at least one classification number from Section 01)
 39-04 Explicit machine computation and programs (not the theory of computation or programming)
 39-06 Proceedings, conferences, collections, etc.
 39Axx **Difference equations** [For dynamical systems, see 58Fxx]
 39A05 General
 39A10 Difference equations [See also 33Dxx]
 39A11 Stability of difference equations
 39A12 Discrete version of topics in analysis
 39A70 Difference operators [See also 47B39]
 39A99 None of the above, but in this section
 39Bxx **Functional equations** [See also 30D05]
 39B05 General
 39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 58F08]
 39B22 Equations for real functions
 39B32 Equations for complex functions [See also 30D05]
 39B42 Matrix and operator equations
 39B52 Equations for functions with more general domains and/or ranges
 39B62 Systems of functional equations
 39B72 Inequalities involving unknown functions [See also 26A51, 26Dxx]
 39B99 None of the above, but in this section
 40-XX **SEQUENCES, SERIES, SUMMABILITY**
 40-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 40-01 Instructional exposition (textbooks, tutorial papers, etc.)
 40-02 Research exposition (monographs, survey articles)
 40-03 Historical (must also be assigned at least one classification number from Section 01)
 40-04 Explicit machine computation and programs (not the theory of computation or programming)
 40-06 Proceedings, conferences, collections, etc.
 40Axx **Convergence and divergence of infinite limiting processes**
 40A05 Convergence and divergence of series and sequences
 40A10 Convergence and divergence of integrals
 40A15 Convergence and divergence of continued fractions [See also 30B70]
 40A20 Convergence and divergence of infinite products
 40A25 Approximation to limiting values (summation of series, etc.) (For the Euler-Maclaurin summation formula, see 65B15)
 40A30 Convergence and divergence of series and sequences of functions
 40A99 None of the above, but in this section
 40B05 **Multiple sequences and series (should also be assigned at least one other classification number in this section)**
 40Cxx **General summability methods**
 40C05 Matrix methods
 40C10 Integral methods
 40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
 40C99 None of the above, but in this section
 40Dxx **Direct theorems on summability**
 40D05 General theorems
 40D09 Structure of summability fields
 40D10 Tauberian constants and oscillation limits
 40D15 Convergence factors and summability factors
 40D20 Summability and bounded fields of methods
 40D25 Inclusion and equivalence theorems
 40D99 None of the above, but in this section
 40Exx **Inversion theorems**
 40E05 Tauberian theorems, general
 40E10 Growth estimates
 40E15 Lacunary inversion theorems
 40E20 Tauberian constants
 40E99 None of the above, but in this section
 40F05 **Absolute and strong summability**

- 40Gxx Special methods of summability**
 40G05 Cesàro, Euler, Nörlund and Hausdorff methods
 40G10 Abel, Borel and power series methods
 40G99 None of the above, but in this section
 40H05 Functional analytic methods in summability
 40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]
- 41-XX APPROXIMATIONS AND EXPANSIONS** (For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx)
 41-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 41-01 Instructional exposition (textbooks, tutorial papers, etc.)
 41-02 Research exposition (monographs, survey articles)
 41-03 Historical (must also be assigned at least one classification number from Section 01)
 41-04 Explicit machine computation and programs (not the theory of computation or programming)
 41-06 Proceedings, conferences, collections, etc.
 41A05 Interpolation [See also 42A15 and 65D05]
 41A10 Approximation by polynomials (For approximation by trigonometric polynomials, see 42A10)
 41A15 Spline approximation
 41A17 Inequalities in approximation (Bernstein-, Jackson-, Nikol'skii-type inequalities)
 41A20 Approximation by rational functions
 41A21 Padé approximation
 41A25 Rate of convergence, degree of approximation
 41A27 Inverse theorems
 41A28 Simultaneous approximation
 41A29 Approximation with constraints
 41A30 Approximation by other special function classes
 41A35 Approximation by operators (in particular, by integral operators)
 41A36 Approximation by positive operators
 41A40 Saturation
 41A44 Best constants
 41A45 Approximation by arbitrary linear expressions
 41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
 41A50 Best approximation, Chebyshev systems
 41A52 Uniqueness of best approximation
 41A55 Approximate quadratures
 41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
 41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
 41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
 41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
 41A80 Remainders in approximation formulas
 41A99 Miscellaneous topics
- 42-XX FOURIER ANALYSIS** (handbooks, dictionaries, bibliographies, etc.)
 42-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 42-01 Instructional exposition (textbooks, tutorial papers, etc.)
 42-02 Research exposition (monographs, survey articles)
 42-03 Historical (must also be assigned at least one classification number from Section 01)
 42-04 Explicit machine computation and programs (not the theory of computation or programming)
 42-06 Proceedings, conferences, collections, etc.
 42Axx **Fourier analysis in one variable**
 42A05 Trigonometric polynomials, inequalities, extremal problems
 42A10 Trigonometric approximation
 42A15 Trigonometric interpolation
 42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series (For automorphic theory, see mainly 11F30)
 42A20 Convergence of Fourier and trigonometric series
 42A24 Summability of Fourier and trigonometric series
 42A28 Absolute convergence, absolute summability
 42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
 42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
 42A45 Multipliers
 42A50 Conjugate functions, conjugate series, singular integrals
 42A55 Lacunary series of trigonometric and other functions; Riesz products
 42A61 Probabilistic methods
 42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
 42A65 Completeness of sets of functions
 42A70 Trigonometric moment problems
 42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
 42A82 Positive definite functions
 42A85 Convolution, factorization
 42A99 None of the above, but in this section
 42Bxx **Fourier analysis in several variables** (For automorphic theory, see mainly 11F30)
 42B05 Fourier series and coefficients
 42B08 Summability
 42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
 42B15 Multipliers
 42B20 Singular integrals (Calderón-Zygmund, etc.)
 42B25 Maximal functions, Littlewood-Paley theory
 42B30 H^p -spaces
 42B99 None of the above, but in this section
 42Cxx **Nontrigonometric Fourier analysis**
 42C05 Orthogonal functions and polynomials, general theory [See also 33A65, 33C45, 33C50, 33D45]
 42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
 42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
 42C20 Rearrangements and other transformations of Fourier and other orthogonal series
 42C25 Uniqueness and localization for orthogonal series
 42C30 Completeness of sets of functions
 42C99 None of the above, but in this section
- 43-XX ABSTRACT HARMONIC ANALYSIS** (For other analysis on topological and Lie groups, see 22Exx)
 43-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 43-01 Instructional exposition (textbooks, tutorial papers, etc.)
 43-02 Research exposition (monographs, survey articles)
 43-03 Historical (must also be assigned at least one classification number from Section 01)
 43-04 Explicit machine computation and programs (not the theory of computation or programming)
 43-06 Proceedings, conferences, collections, etc.
 43A05 Measures on groups and semigroups, etc.
 43A07 Means on groups, semigroups, etc.; amenable groups
 43A10 Measure algebras on groups, semigroups, etc.
 43A15 L^p -spaces and other function spaces on groups, semigroups, etc.
 43A17 Analysis on ordered groups, H^p -theory
 43A20 L^1 -algebras on groups, semigroups, etc.
 43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
 43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
 43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
 43A32 Other transforms and operators of Fourier type
 43A35 Positive definite functions on groups, semigroups, etc.
 43A40 Character groups and dual objects
 43A45 Spectral synthesis on groups, semigroups, etc.
 43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
 43A50 Convergence of Fourier series and of inverse transforms
 43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
 43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
 43A62 Hypergroups
 43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
 43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
 43A75 Analysis on specific compact groups
 43A77 Analysis on general compact groups
 43A80 Analysis on other specific Lie groups [See also 22Exx]
 43A85 Analysis on homogeneous spaces
 43A90 Spherical functions [See also 22E45, 22E46, 33C65, 33D55]
 43A95 Categorical methods [See also 46Mxx]
 43A99 Miscellaneous topics
- 44-XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS** (For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10)
 44-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 44-01 Instructional exposition (textbooks, tutorial papers, etc.)
 44-02 Research exposition (monographs, survey articles)
 44-03 Historical (must also be assigned at least one classification number from Section 01)

- 44-04 Explicit machine computation and programs (not the theory of computation or programming)
- 44-06 Proceedings, conferences, collections, etc.
- 44A05 General transforms [See also 42A38]
- 44A10 Laplace transform
- 44A12 Radon transform [See also 92C55]
- 44A15 Special transforms (Legendre, Hilbert, etc.)
- 44A20 Transforms of special functions
- 44A30 Multiple transforms
- 44A35 Convolution
- 44A40 Calculus of Mikusiński and other operational calculi
- 44A45 Classical operational calculus
- 44A55 Discrete operational calculus
- 44A60 Moment problems
- 44A99 Miscellaneous topics
- 45-XX INTEGRAL EQUATIONS**
- 45-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 45-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 45-02 Research exposition (monographs, survey articles)
- 45-03 Historical (must also be assigned at least one classification number from Section 01)
- 45-04 Explicit machine computation and programs (not the theory of computation or programming)
- 45-06 Proceedings, conferences, collections, etc.
- 45A05 Linear integral equations**
- 45B05 Fredholm integral equations**
- 45C05 Eigenvalue problems** [See also 34Lxx, 35Pxx, 45P05, 47A75]
- 45D05 Volterra integral equations** [See also 34A12]
- 45Exx Singular integral equations** [See also 30E20, 30E25, 44A15, 44A35]
- 45E05 Integral equations with kernels of Cauchy type [See also 35J15]
- 45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
- 45E99 None of the above, but in this section
- 45Fxx Systems of linear integral equations**
- 45F05 Systems of nonsingular linear integral equations
- 45F10 Dual, triple, etc., integral and series equations
- 45F15 Systems of singular linear integral equations
- 45F99 None of the above, but in this section
- 45Gxx Nonlinear integral equations** [See also 47H15]
- 45G05 Singular nonlinear integral equations
- 45G10 Other nonlinear integral equations
- 45G15 Systems of nonlinear integral equations
- 45H05 Miscellaneous special kernels** [See also 44A15]
- 45J05 Integro-ordinary differential equations**
- 45K05 Integro-partial differential equations**
- 45Lxx Approximation of solutions**
- 45L05 Theoretical approximation of solutions
- 45L10 Numerical approximation of solutions (For numerical analysis, see 65R20)
- 45L99 None of the above, but in this section
- 45Mxx Qualitative behavior**
- 45M05 Asymptotics
- 45M10 Stability theory
- 45M15 Periodic solutions
- 45M20 Positive solutions
- 45M99 None of the above, but in this section
- 45N05 Abstract integral equations, integral equations in abstract spaces**
- 45P05 Integral operators** [See also 47B38, 47G10]
- 46-XX FUNCTIONAL ANALYSIS (For manifolds modeled on topological linear spaces, see 57N20, 58Bxx)**
- 46-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 46-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 46-02 Research exposition (monographs, survey articles)
- 46-03 Historical (must also be assigned at least one classification number from Section 01)
- 46-04 Explicit machine computation and programs (not the theory of computation or programming)
- 46-06 Proceedings, conferences, collections, etc.
- 46Axx Topological linear spaces and related structures (For function spaces, see 46Exx)**
- 46A03 General theory of locally convex spaces
- 46A04 Locally convex Fréchet spaces and (DF)-spaces
- 46A08 Barreled spaces, bornological spaces
- 46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
- 46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
- 46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
- 46A17 Bornologies and related structures; Mackey convergence, etc.
- 46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than \mathbb{R} , etc.)
- 46A20 Duality theory
- 46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
- 46A25 Reflexivity and semi-reflexivity [See also 46B10]
- 46A30 Open mapping and closed graph theorems; completeness (including B -, B_* -completeness)
- 46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47D15, 47D50]
- 46A35 Summability and bases [See also 46B15]
- 46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
- 46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
- 46A50 Compactness in topological linear spaces; angelic spaces, etc.
- 46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
- 46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
- 46A80 Modular spaces
- 46A99 None of the above, but in this section
- 46Bxx Normed linear spaces and Banach spaces; Banach lattices (For function spaces, see 46Exx)**
- 46B03 Isomorphic theory (including renorming) of Banach spaces
- 46B04 Isometric theory of Banach spaces
- 46B07 Local theory of Banach spaces
- 46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
- 46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
- 46B10 Duality and reflexivity [See also 46A25]
- 46B15 Summability and bases [See also 46A35]
- 46B20 Geometry and structure of normed linear spaces
- 46B22 Radon-Nikodým, Krein-Mil'man and related properties [See also 46G10]
- 46B25 Classical Banach spaces in the general theory
- 46B26 Nonseparable Banach spaces
- 46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47D15, 47D50]
- 46B40 Ordered normed spaces [See also 46A40, 46B42]
- 46B42 Banach lattices [See also 46A40, 46B40]
- 46B45 Banach sequence spaces [See also 46A45]
- 46B70 Interpolation between normed linear spaces [See also 46M35]
- 46B99 None of the above, but in this section
- 46Cxx Inner product spaces and their generalizations, Hilbert spaces (For function spaces, see 46Exx)**
- 46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
- 46C15 Characterizations of Hilbert spaces
- 46C20 Spaces with indefinite inner product
- 46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
- 46C99 None of the above, but in this section
- 46Exx Linear function spaces and their duals** [See also 30H05, 32E25, 46F05; for function algebras, see 46J10]
- 46E05 Lattices of continuous, differentiable or analytic functions
- 46E10 Topological linear spaces of continuous, differentiable or analytic functions
- 46E15 Banach spaces of continuous, differentiable or analytic functions
- 46E20 Hilbert spaces of continuous, differentiable or analytic functions
- 46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces)
- 46E25 Rings and algebras of continuous, differentiable or analytic functions (For Banach function algebras, see 46J10, 46J15)
- 46E27 Spaces of measures [See also 28A33, 46Gxx]
- 46E30 Spaces of measurable functions (L^p -spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
- 46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
- 46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
- 46E40 Spaces of vector- and operator-valued functions
- 46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20]
- 46E99 None of the above, but in this section
- 46Fxx Distributions, generalized functions, distribution spaces (For distribution theory on nonlinear spaces, see 58Cxx)**
- 46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
- 46F10 Operations with distributions
- 46F12 Integral transforms in distribution spaces [See also 42-XX, 44-XX]
- 46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07]

- 46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
- 46F25 Distributions on infinite-dimensional spaces [See also 58C35]
- 46F99 None of the above, but in this section
- 46Gxx **Measure, integration, derivative, holomorphy (all involving infinite-dimensional spaces)** [See also 28-XX] (For nonlinear functional analysis, see 47Hxx, 58-XX, especially 58Cxx)
- 46G05 Derivatives [See also 58C20, 58C25]
- 46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]
- 46G12 Measure and integration on abstract linear spaces [See also 28C20]
- 46G15 Functional analytic lifting theory [See also 28A51]
- 46G20 Infinite-dimensional holomorphy [See also 32-XX, 46E50, 58B12, 58C10]
- 46G99 None of the above, but in this section
- 46Hxx **Topological algebras, normed rings and algebras, Banach algebras (For group algebras, convolution algebras and measure algebras, see 43A10, 43A20)**
- 46H05 General theory of topological algebras
- 46H10 Ideals and subalgebras
- 46H15 Representations of topological algebras
- 46H20 Structure, classification of topological algebras
- 46H25 Normed modules and Banach modules, topological modules (if not placed in 13-XX or 16-XX)
- 46H30 Functional calculus in topological algebras [See also 47A60]
- 46H35 Topological algebras of operators [See mainly 47D30, and also 47D25, 47D50]
- 46H40 Automatic continuity
- 46H70 Nonassociative topological algebras [See also 46K70, 46L70]
- 46H99 None of the above, but in this section
- 46Jxx **Commutative Banach algebras and commutative topological algebras** [See also 46E25]
- 46J05 General theory of commutative topological algebras
- 46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
- 46J15 Banach algebras of differentiable or analytic functions, H^p -spaces [See also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]
- 46J20 Ideals, maximal ideals, boundaries
- 46J25 Representations of commutative topological algebras
- 46J30 Subalgebras
- 46J40 Structure, classification of commutative topological algebras
- 46J45 Radical Banach algebras
- 46J99 None of the above, but in this section
- 46Kxx **Topological (rings and) algebras with an involution** [See also 16W10]
- 46K05 General theory of topological algebras with involution
- 46K10 Representations of topological algebras with involution
- 46K15 Hilbert algebras
- 46K50 Nonselfadjoint (sub)algebras in algebras with involution
- 46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
- 46K99 None of the above, but in this section
- 46Lxx **Selfadjoint operator algebras (C^* -algebras, von Neumann (W^*)-algebras, etc.)** [See also 22D25]
- 46L05 General theory of C^* -algebras
- 46L10 General theory of von Neumann algebras
- 46L30 States
- 46L35 Classifications of C^* -algebras, factors
- 46L37 Subfactors and their classification
- 46L40 Automorphisms
- 46L45 Decomposition theory for C^* -algebras
- 46L50 Noncommutative measure, integration and probability
- 46L55 Noncommutative dynamical systems [See also 28Dxx, 54H20, 58Fxx]
- 46L57 Derivations, dissipations and positive semigroups in C^* -algebras
- 46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47D45, 81T05, 82B10, 82C10]
- 46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
- 46L80 K -theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]
- 46L85 Noncommutative topology [See also 58B30, 58G12]
- 46L87 Noncommutative differential geometry [See also 58B30, 58G12]
- 46L89 Other "noncommutative" mathematics based on C^* -algebra theory [See also 58B30, 58G12]
- 46L99 None of the above, but in this section
- 46Mxx **Methods of category theory in functional analysis** [See also 18-XX]
- 46M05 Tensor products [See also 46A32, 46B28, 47A80]
- 46M07 Ultraproducts [See also 46B08, 46S20]
- 46M10 Projective and injective objects [See also 46A22]
- 46M15 Functors (For K -theory and EXT, see 19K33, 46L80, 46M20)
- 46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]
- 46M35 Abstract interpolation of topological vector spaces [See also 46B70]
- 46M40 Inductive and projective limits [See also 46A13]
- 46M99 None of the above, but in this section
- 46Nxx **Miscellaneous applications of functional analysis** [See also 47Nxx]
- 46N10 Applications in optimization, convex analysis, mathematical programming, economics
- 46N20 Applications to differential and integral equations
- 46N30 Applications in probability theory and statistics
- 46N40 Applications in numerical analysis [See also 65Jxx]
- 46N50 Applications in quantum physics
- 46N55 Applications in statistical physics
- 46N60 Applications in biology and other sciences
- 46N99 None of the above, but in this section
- 46Sxx **Other (nonclassical) types of functional analysis** [See also 47Sxx]
- 46S10 Functional analysis over fields other than \mathbb{R} or \mathbb{C} or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
- 46S20 Nonstandard functional analysis [See also 03H05]
- 46S30 Constructive functional analysis [See also 03F65]
- 46S40 Fuzzy functional analysis [See also 04A72]
- 46S50 Functional analysis in probabilistic metric linear spaces
- 46S99 None of the above, but in this section
- 47-XX OPERATOR THEORY**
- 47-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 47-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 47-02 Research exposition (monographs, survey articles)
- 47-03 Historical (must also be assigned at least one classification number from Section 01)
- 47-04 Explicit machine computation and programs (not the theory of computation or programming)
- 47-06 Proceedings, conferences, collections, etc.
- 47Axx **General theory of linear operators**
- 47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
- 47A10 Spectrum, resolvent
- 47A11 Local spectral properties
- 47A12 Numerical range
- 47A13 Several-variable spectral theory
- 47A15 Invariant subspaces
- 47A20 Dilations, extensions, compressions
- 47A25 Spectral sets
- 47A30 Norms (inequalities, more than one norm, etc.)
- 47A35 Ergodic theory [See also 28Dxx]
- 47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
- 47A45 Canonical models for contractions and nonselfadjoint operators
- 47A48 Operator colligations (= nodes)
- 47A50 Equations and inequalities involving linear operators, with vector unknowns
- 47A53 (Semi-) Fredholm operators; index theories [See also 58B10, 58G12]
- 47A55 Perturbation theory
- 47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)
- 47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82]
- 47A58 Operator approximation theory
- 47A60 Functional calculus
- 47A62 Equations involving linear operators, with operator unknowns
- 47A63 Operator inequalities, operator means, shorted operators, etc.
- 47A65 Structure theory
- 47A66 (Non)quasitriangular, (non)quasidiagonal operators
- 47A67 Representation theory
- 47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
- 47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
- 47A75 Eigenvalue problems [See also 49Rxx]
- 47A80 Tensor products of operators [See also 46M05]
- 47A99 None of the above, but in this section
- 47Bxx **Special classes of linear operators**
- 47B06 Riesz operators; eigenvalue distributions; approximation numbers, s -numbers, Kolmogorov numbers, entropy numbers, etc. of operators
- 47B07 Operators defined by compactness properties
- 47B10 Operators belonging to operator ideals (nuclear, p -summing, in the Schatten-von Neumann classes, etc.) [See also 47D50]
- 47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
- 47B20 Subnormal operators, hyponormal operators, etc.
- 47B25 Symmetric and selfadjoint operators (unbounded)
- 47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32H10, 32M15]
- 47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
- 47B38 Operators on function spaces (including composition operators, kernel operators)
- 47B39 Difference operators [See also 39A70]

- 47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
- 47B44 Accretive operators, dissipative operators, etc.
- 47B47 Commutators, derivations, elementary operators, etc.
- 47B48 Operators on Banach algebras
- 47B49 Transformers (= operators on spaces of operators)
- 47B50 Operators on spaces with an indefinite metric
- 47B60 Operators on ordered spaces
- 47B65 Positive operators and order-bounded operators
- 47B80 Random operators [See also 60H25]
- 47B99 None of the above, but in this section
- 47Cxx **Individual linear operators as elements of algebraic systems**
- 47C05 Operators in algebras
- 47C10 Operators in \ast -algebras
- 47C15 Operators in C^\ast - or von Neumann algebras
- 47C99 None of the above, but in this section
- 47Dxx **Algebraic systems of linear operators [See also 46Lxx]**
- 47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
- 47D06 One-parameter semigroups and linear evolution equations
- 47D07 Markov semigroups {For Markov processes, see 60Jxx}
- 47D09 Operator cosine functions and higher-order Cauchy problems
- 47D15 Linear spaces of operators [See also 46A32, 46B28]
- 47D20 Convex sets and cones of operators [See also 90C25, 90C31]
- 47D25 Operator algebras on Hilbert space
- 47D27 Dual operator algebras
- 47D30 Operator algebras on Banach spaces and other linear topological spaces
- 47D35 Dual spaces of operator algebras and topological groups
- 47D40 Algebras of unbounded operators
- 47D45 Applications of operator algebras to physics [See also 46L60, 46N50, 46N55, 47N50, 47N55]
- 47D50 Operator ideals
- 47D99 None of the above, but in this section
- 47E05 **Ordinary differential operators [See also 34Bxx, 34Lxx, 58F19]**
- 47F05 **Partial differential operators [See also 35Pxx, 58G05]**
- 47Gxx **Integral, integro-differential, and pseudodifferential operators**
- 47G10 Integral operators [See also 45P05]
- 47G20 Integro-differential operators [See also 45J05, 45K05]
- 47G30 Pseudodifferential operators [See also 35Sxx, 58G15]
- 47G99 None of the above, but in this section
- 47Hxx **Nonlinear operators {For global and geometric aspects, see 58-XX, especially 58Cxx}**
- 47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
- 47H05 Monotone operators (with respect to duality)
- 47H06 Accretive operators, dissipative operators, etc.
- 47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
- 47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A -proper mappings, K -set contractions, etc.)
- 47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
- 47H11 Degree theory [See also 55M25, 58C30]
- 47H12 Spectral theory of nonlinear operators [See also 58C40]
- 47H15 Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory]
- 47H17 Methods for solving equations involving nonlinear operators [See also 58C15] {For numerical analysis, see 65J15}
- 47H19 Inequalities involving nonlinear operators [See also 49J27, 49J40, 49K27]
- 47H20 Semigroups of nonlinear operators and nonlinear evolution equations [See also 58D07]
- 47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) [See also 45P05]
- 47H40 Random operators [See also 60H25]
- 47H99 None of the above, but in this section
- 47Nxx **Miscellaneous applications of operator theory [See also 46Nxx]**
- 47N10 Applications in optimization, convex analysis, mathematical programming, economics
- 47N20 Applications to differential and integral equations
- 47N30 Applications in probability theory and statistics
- 47N40 Applications in numerical analysis [See also 65Jxx]
- 47N50 Applications in quantum physics
- 47N55 Applications in statistical physics
- 47N60 Applications in biology and other sciences
- 47N70 Applications in systems theory, circuits, etc.
- 47N99 None of the above, but in this section
- 47Sxx **Other (nonclassical) types of operator theory [See also 46Sxx]**
- 47S10 Operator theory over fields other than \mathbb{R} , \mathbb{C} or the quaternions; non-Archimedean operator theory
- 47S20 Nonstandard operator theory [See also 03H05]
- 47S30 Constructive operator theory [See also 03F65]
- 47S40 Fuzzy operator theory [See also 04A72]
- 47S50 Operator theory in probabilistic metric linear spaces
- 47S99 None of the above, but in this section
- 49-XX **CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 65Kxx, 90Cxx, 93-XX]**
- 49-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 49-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 49-02 Research exposition (monographs, survey articles)
- 49-03 Historical (must also be assigned at least one classification number from Section 01)
- 49-04 Explicit machine computation and programs (not the theory of computation or programming)
- 49-06 Proceedings, conferences, collections, etc.
- 49Jxx **Existence theory for optimal solutions**
- 49J05 Free problems in one independent variable
- 49J10 Free problems in two or more independent variables
- 49J15 Optimal control problems involving ordinary differential equations
- 49J20 Optimal control problems involving partial differential equations
- 49J22 Optimal control problems involving integral equations
- 49J24 Optimal control problems involving differential inclusions
- 49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
- 49J27 Problems in abstract spaces [See 90C48]
- 49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
- 49J35 Minimax problems
- 49J40 Variational methods including variational inequalities
- 49J45 Problems involving semicontinuity and convergence
- 49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
- 49J52 Nonsmooth analysis (other weak concepts of optimality) [See also 58C20, 90C48]
- 49J55 Problems involving randomness [See also 93E20]
- 49J99 None of the above, but in this section
- 49Kxx **Necessary conditions and sufficient conditions for optimality**
- 49K05 Free problems in one independent variable
- 49K10 Free problems in two or more independent variables
- 49K15 Problems involving ordinary differential equations
- 49K20 Problems involving partial differential equations
- 49K22 Problems involving integral equations
- 49K24 Problems involving differential inclusions
- 49K25 Problems involving equations with retarded arguments [See also 34K35]
- 49K27 Problems in abstract spaces [See 90C48, 93C25]
- 49K30 Optimal solutions belonging to restricted classes
- 49K35 Minimax problems
- 49K40 Sensitivity of optimal solutions in the presence of perturbations
- 49K45 Problems involving randomness [See also 93E20]
- 49K99 None of the above, but in this section
- 49Lxx **Carathéodory, Hamilton-Jacobi theories, including dynamic programming**
- 49L05 Free problems and problems involving ordinary differential equations
- 49L10 Free problems and problems involving partial differential equations
- 49L15 Problems in abstract spaces or problems involving functional relations other than differential equations
- 49L20 Dynamic programming method
- 49L25 Viscosity solutions
- 49L99 None of the above, but in this section
- 49Mxx **Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx}**
- 49M05 Methods based on necessary conditions
- 49M07 Gradient methods
- 49M10 Methods of steepest descent type
- 49M15 Methods of Newton-Raphson, Galerkin and Ritz types
- 49M20 Methods of relaxation type
- 49M25 Finite difference methods
- 49M27 Decomposition methods
- 49M29 Multiplier methods
- 49M30 Other methods, not based on necessary conditions (penalty function, etc.)
- 49M35 Methods of linear programming type [See also 90C05]
- 49M37 Nonlinear programming [See also 90C30]
- 49M39 Semi-infinite programming [See also 90C34]
- 49M40 Methods of quadratic programming type [See also 90C20]
- 49M45 Methods of convex programming type [See also 90C25]
- 49M49 Geometric programming [See also 90C28]
- 49M99 None of the above, but in this section
- 49Nxx **Miscellaneous topics**
- 49N05 Linear optimal control problems [See also 93C05]
- 49N10 Linear-quadratic problems
- 49N15 Duality theory
- 49N20 Periodic optimization
- 49N25 Impulsive optimal control problems [See also 93C57]

- 49N30 Problems with incomplete information [See also 93C41]
 49N35 Closed-loop controls
 49N40 Open-loop controls
 49N45 Inverse problems in calculus of variations
 49N50 Inverse problems in optimal control theory
 49N55 Noneconomic applications of optimal control theory and differential games [See also 90D25]
 49N60 Regularity of solutions in the calculus of variations
 49N65 Applications of measurable selections to control theory [See also 28B20, 26E25]
 49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Fxx]
 49Q05 Minimal surfaces [See also 53A10, 58E12]
 49Q10 Optimization of the shape other than minimal surfaces [See also 73K40, 90C90]
 49Q12 Sensitivity analysis
 49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
 49Q20 Variational problems in a geometric measure-theoretic setting
 49Q25 Surface area
 49Q99 None of the above, but in this section
49Rxx Variational methods (For eigenvalues of operators, see 47A75)
 49R05 Variational approach to eigenvalues
 49R10 Rayleigh-Ritz methods
 49R15 Weinstein and Aronszajn methods, intermediate problems
 49R20 Linear operators in Hilbert spaces
 49R99 None of the above, but in this section
49S05 Variational principles of physics
51-XX GEOMETRY (For algebraic geometry, see 14-XX)
 51-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 51-01 Instructional exposition (textbooks, tutorial papers, etc.)
 51-02 Research exposition (monographs, survey articles)
 51-03 Historical (must also be assigned at least one classification number from Section 01)
 51-04 Explicit machine computation and programs (not the theory of computation or programming)
 51-06 Proceedings, conferences, collections, etc.
51Axx Linear incidence geometry
 51A05 General theory and projective geometries
 51A10 Homomorphism, automorphism and dualities
 51A15 Structures with parallelism
 51A20 Configuration theorems
 51A25 Algebraization [See also 12Kxx, 20N05]
 51A30 Desarguesian and Pappian geometries
 51A35 Non-Desarguesian affine and projective planes
 51A40 Translation planes and spreads
 51A45 Incidence structures embeddable into projective geometries
 51A50 Polar geometry, symplectic spaces, orthogonal spaces
 51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
 51B05 General theory
 51B10 Möbius geometries
 51B15 Laguerre geometries
 51B20 Minkowski geometries
 51B25 Lie geometries
 51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbillan, etc.)
51Dxx Geometric closure systems
 51D05 Abstract (Maeda) geometries
 51D10 Abstract geometries with exchange axiom
 51D15 Abstract geometries with parallelism
 51D20 Combinatorial geometries [See also 05B25, 05B35]
 51D25 Lattices of subspaces [See also 05B35]
 51D30 Continuous geometries and related topics [See also 06Cxx]
 51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
 51E05 General block designs [See also 05B05]
 51E10 Steiner systems
 51E12 Generalized quadrangles, generalized polygons
 51E14 Finite partial geometries (general), nets, partial spreads
 51E15 Affine and projective planes
 51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
 51E21 Blocking sets, ovals, k -arcs
 51E22 Linear codes and caps in Galois spaces [See also 94B05]
 51E23 Spreads and packing problems
 51E24 Buildings and the geometry of diagrams
 51E25 Other finite nonlinear geometries
 51E26 Other finite linear geometries
 51E30 Other finite incidence structures [See also 05B30]
 51E99 None of the above, but in this section
51Fxx Metric geometry
 51F05 Absolute planes
 51F10 Absolute spaces
 51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
 51F20 Congruence and orthogonality [See also 20H05]
 51F25 Orthogonal and unitary groups [See also 20H05]
 51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
 51H05 General theory
 51H10 Topological linear incidence structures
 51H15 Topological nonlinear incidence structures
 51H20 Topological geometries on manifolds [See also 57-XX]
 51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
 51H30 Geometries with algebraic manifold structure [See also 14-XX]
 51H99 None of the above, but in this section
51Jxx Incidence groups
 51J05 General theory
 51J10 Projective incidence groups
 51J15 Kinematic spaces
 51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
 51J99 None of the above, but in this section
51Kxx Distance geometry
 51K05 General theory
 51K10 Synthetic differential geometry
 51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
 51L05 Geometry of orders of nondifferentiable curves
 51L10 Directly differentiable curves
 51L15 n -vertex theorems via direct methods
 51L20 Geometry of orders of surfaces
 51L99 None of the above, but in this section
51Mxx Real and complex geometry
 51M04 Elementary problems in Euclidean geometries
 51M05 Euclidean geometries (general) and generalizations
 51M09 Elementary problems in hyperbolic and elliptic geometries
 51M10 Hyperbolic and elliptic geometries (general) and generalizations
 51M15 Geometric constructions
 51M16 Inequalities and extremum problems (For convex problems, see 52A40)
 51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
 51M25 Length, area and volume [See also 26B15]
 51M30 Line geometries and their generalizations [See also 53A25]
 51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
 51M99 None of the above, but in this section
51Nxx Analytic and descriptive geometry
 51N05 Descriptive geometry [See also 65D17, 68U07]
 51N10 Affine analytic geometry
 51N15 Projective analytic geometry
 51N20 Euclidean analytic geometry
 51N25 Analytic geometry with other transformation groups
 51N30 Geometry of classical groups [See also 20Gxx, 14L35]
 51N35 Questions of classical algebraic geometry [See also 14Nxx]
 51N99 None of the above, but in this section
51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70-86)
52-XX CONVEX AND DISCRETE GEOMETRY
 52-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 52-01 Instructional exposition (textbooks, tutorial papers, etc.)
 52-02 Research exposition (monographs, survey articles)
 52-03 Historical (must also be assigned at least one classification number from Section 01)
 52-04 Explicit machine computation and programs (not the theory of computation or programming)
 52-06 Proceedings, conferences, collections, etc.
52Axx General convexity
 52A01 Axiomatic and generalized convexity
 52A05 Convex sets without dimension restrictions
 52A07 Convex sets in topological vector spaces [See also 46A55]
 52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]
 52A15 Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
 52A20 Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]

- 52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
- 52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
- 52A27 Approximation by convex sets
- 52A30 Variants of convex sets (star-shaped, (m, n) -convex, etc.)
- 52A35 Helly-type theorems
- 52A37 Other problems of combinatorial convexity
- 52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
- 52A39 Mixed volumes and related topics
- 52A40 Inequalities and extremum problems
- 52A41 Convex functions and convex programs [See also 26B25, 90C25]
- 52A55 Spherical and hyperbolic convexity
- 52A99 None of the above, but in this section
- 52Bxx Polytopes and polyhedra**
- 52B05 Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx]
- 52B10 Three-dimensional polytopes
- 52B11 n -dimensional polytopes
- 52B12 Special polytopes (linear programming, centrally symmetric, etc.)
- 52B15 Symmetry properties of polytopes
- 52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A08, 13F20, 13Hxx]
- 52B30 Arrangements of hyperplanes
- 52B35 Gale and other diagrams
- 52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35]
- 52B45 Dissections and valuations (Hilbert's third problem, etc.)
- 52B55 Computational aspects related to convexity (For computational geometry and algorithms, see 68Q20, 68Q25, 68U05; for numerical algorithms, see 65Yxx)
- 52B60 Isoperimetric problems for polytopes
- 52B70 Polyhedral manifolds
- 52B99 None of the above, but in this section
- 52Cxx Discrete geometry**
- 52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
- 52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
- 52C10 Erdős problems and related topics of discrete geometry [See also 11Hxx]
- 52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
- 52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
- 52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
- 52C22 Tilings in n dimensions [See also 05B45, 51M20]
- 52C25 Rigidity and flexibility of structures [See also 70B15]
- 52C99 None of the above, but in this section
- 53-XX DIFFERENTIAL GEOMETRY (For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx)**
- 53-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 53-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 53-02 Research exposition (monographs, survey articles)
- 53-03 Historical (must also be assigned at least one classification number from Section 01)
- 53-04 Explicit machine computation and programs (not the theory of computation or programming)
- 53-06 Proceedings, conferences, collections, etc.
- 53Axx Classical differential geometry**
- 53A04 Curves in Euclidean space
- 53A05 Surfaces in Euclidean space
- 53A07 Higher-dimension and -codimension surfaces in Euclidean n -space
- 53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42]
- 53A15 Affine differential geometry
- 53A17 Kinematics
- 53A20 Projective differential geometry
- 53A25 Differential line geometry
- 53A30 Conformal differential geometry
- 53A35 Non-Euclidean differential geometry
- 53A40 Other special differential geometries
- 53A45 Vector and tensor analysis
- 53A50 Spinor analysis
- 53A55 Differential invariants (local theory), geometric objects
- 53A60 Geometry of webs [See also 14C21, 20N05]
- 53A99 None of the above, but in this section
- 53Bxx Local differential geometry**
- 53B05 Linear and affine connections
- 53B10 Projective connections
- 53B15 Other connections
- 53B20 Local Riemannian geometry
- 53B21 Methods of Riemannian geometry
- 53B25 Local submanifolds [See also 53C40]
- 53B30 Lorentz metrics, indefinite metrics
- 53B35 Hermitian and Kählerian structures [See also 32Cxx]
- 53B40 Finsler spaces and generalizations (areal metrics)
- 53B50 Applications to physics
- 53B99 None of the above, but in this section
- 53Cxx Global differential geometry [See also 51H25, 58-XX; for related bundle theory, see 55Rxx, 57Rxx]**
- 53C05 Connections, general theory
- 53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32L07]
- 53C10 G -structures
- 53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
- 53C15 General geometric structures on manifolds (almost complex, contact, symplectic, almost product structures, etc.)
- 53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
- 53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58G30]
- 53C22 Geodesics [See also 58E10]
- 53C23 Global topological methods (à la Gromov)
- 53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
- 53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
- 53C35 Symmetric spaces [See also 32M15, 57T15]
- 53C40 Global submanifolds [See also 53B25]
- 53C42 Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
- 53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
- 53C50 Lorentz manifolds, manifolds with indefinite metrics
- 53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
- 53C56 Other complex differential geometry [See also 32Cxx]
- 53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
- 53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
- 53C70 Direct methods (G -spaces of Busemann, etc.)
- 53C75 Geometric orders, order geometry [See also 51Lxx]
- 53C80 Applications to physics
- 53C99 None of the above, but in this section
- 54-XX GENERAL TOPOLOGY (For the topology of manifolds of all dimensions, see 57Nxx)**
- 54-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 54-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 54-02 Research exposition (monographs, survey articles)
- 54-03 Historical (must also be assigned at least one classification number from Section 01)
- 54-04 Explicit machine computation and programs (not the theory of computation or programming)
- 54-06 Proceedings, conferences, collections, etc.
- 54Axx Generalities**
- 54A05 Topological spaces and generalizations (closure spaces, etc.)
- 54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
- 54A15 Syntopogeneous structures
- 54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
- 54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx, 04A30] (For ultrafilters, see 54D80)
- 54A35 Consistency and independence results [See also 03E35]
- 54A40 Fuzzy topology [See also 04A72]
- 54A99 None of the above, but in this section
- 54Bxx Basic constructions**
- 54B05 Subspaces
- 54B10 Product spaces
- 54B15 Quotient spaces, decompositions
- 54B17 Adjunction spaces and similar constructions
- 54B20 Hyperspaces
- 54B30 Categorical methods [See also 18B30]
- 54B35 Spectra
- 54B40 Presheaves and sheaves [See also 18F20]
- 54B99 None of the above, but in this section
- 54Cxx Maps and general types of spaces defined by maps**
- 54C05 Continuous maps
- 54C08 Weak and generalized continuity
- 54C10 Special maps on topological spaces (open, closed, perfect, etc.)
- 54C15 Retraction
- 54C20 Extension of maps
- 54C25 Embedding
- 54C30 Real-valued functions [See also 26-XX]
- 54C35 Function spaces [See also 46Exx, 58D15]
- 54C40 Algebraic properties of function spaces [See also 46J10]
- 54C45 C - and C^* -embedding
- 54C50 Special sets defined by functions [See also 26A21]

- 54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
- 54C56 Shape theory [See also 55P55, 57N25]
- 54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
- 54C65 Selections [See also 28B20]
- 54C70 Entropy
- 54C99 None of the above, but in this section
- 54Dxx Fairly general properties**
- 54D05 Connected and locally connected spaces (general aspects)
- 54D10 Lower separation axioms, (T_0 - T_3 , etc.)
- 54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
- 54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
- 54D25 " P -minimal" and " P -closed" spaces
- 54D30 Compactness
- 54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
- 54D40 Remainders
- 54D45 Local compactness, σ -compactness
- 54D50 k -spaces
- 54D55 Sequential spaces
- 54D60 Realcompactness and realcompactification
- 54D65 Separability
- 54D70 Base properties
- 54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
- 54D99 None of the above, but in this section
- 54Exx Spaces with richer structures**
- 54E05 Proximity structures and generalizations
- 54E15 Uniform structures and generalizations
- 54E17 Nearness spaces
- 54E18 p -spaces, M -spaces, σ -spaces, etc.
- 54E20 Stratifiable spaces, cosmic spaces, etc.
- 54E25 Semimetric spaces
- 54E30 Moore spaces
- 54E35 Metric spaces, metrizability
- 54E40 Special maps on metric spaces
- 54E45 Compact (locally compact) metric spaces
- 54E50 Complete metric spaces
- 54E52 Baire category, Baire spaces
- 54E55 Bitopologies
- 54E70 Probabilistic metric spaces
- 54E99 None of the above, but in this section
- 54Fxx Special properties**
- 54F05 Ordered topological spaces, partially ordered spaces [See also 06B30, 06F30]
- 54F15 Continua and generalizations
- 54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
- 54F45 Dimension theory [See also 55M10]
- 54F50 Spaces of dimension ≤ 1 ; curves, dendrites [See also 26A03]
- 54F55 Unicoherence, multicoherence
- 54F65 Topological characterizations of particular spaces
- 54F99 None of the above, but in this section
- 54Gxx Peculiar spaces**
- 54G05 Extremely disconnected spaces, F -spaces, etc.
- 54G10 P -spaces
- 54G12 Scattered spaces
- 54G15 Pathological spaces
- 54G20 Counterexamples
- 54G99 None of the above, but in this section
- 54Hxx Connections with other structures, applications**
- 54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 04A15, 26A21, 28A05]
- 54H10 Topological representations of algebraic systems [See also 22-XX]
- 54H11 Topological groups [See also 22A05]
- 54H12 Topological lattices, etc. [See also 06B30, 06F30]
- 54H13 Topological fields, rings, etc. [See also 12Jxx] (For algebraic aspects, see 13Jxx, 16W80)
- 54H15 Transformation groups and semigroups [See also 20M20, 22-XX, 57Sxx]
- 54H20 Topological dynamics [See also 28Dxx, 34C35, 58Fxx]
- 54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
- 54H99 None of the above, but in this section
- 54J05 Nonstandard topology [See also 03H05]**
- 55-XX ALGEBRAIC TOPOLOGY**
- 55-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 55-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 55-02 Research exposition (monographs, survey articles)
- 55-03 Historical (must also be assigned at least one classification number from Section 01)
- 55-04 Explicit machine computation and programs (not the theory of computation or programming)
- 55-06 Proceedings, conferences, collections, etc.
- 55Mxx Classical topics (For the topology of Euclidean spaces and manifolds, see 57Nxx)**
- 55M05 Duality
- 55M10 Dimension theory [See also 54F45]
- 55M15 Absolute neighborhood retracts [See also 54C55]
- 55M20 Fixed points and coincidences [See also 54H25]
- 55M25 Degree, winding number
- 55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space
- 55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
- 55M99 None of the above, but in this section
- 55Nxx Homology and cohomology theories [See also 57Txx]**
- 55N05 Čech types
- 55N07 Steenrod-Sitnikov homologies
- 55N10 Singular theory
- 55N15 K -theory [See also 19Lxx] (For algebraic K -theory, see 18F25, 19-XX)
- 55N20 Generalized (extraordinary) homology and cohomology theories
- 55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
- 55N25 Homology with local coefficients, equivariant cohomology
- 55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
- 55N33 Intersection homology and cohomology
- 55N35 Other homology theories
- 55N40 Axioms for homology theory and uniqueness theorems
- 55N45 Products and intersections
- 55N91 Equivariant homology and cohomology [See also 19L47]
- 55N99 None of the above, but in this section
- 55Pxx Homotopy theory (For simple homotopy type, see 57Q10)**
- 55P05 Homotopy extension properties, cofibrations
- 55P10 Homotopy equivalences
- 55P15 Classification of homotopy type
- 55P20 Eilenberg-Mac Lane spaces
- 55P25 Spanier-Whitehead duality
- 55P30 Eckmann-Hilton duality
- 55P35 Loop spaces
- 55P40 Suspensions
- 55P42 Stable homotopy theory, spectra
- 55P45 H -spaces and duals
- 55P47 Infinite loop spaces
- 55P50 Category and cocategory, etc.
- 55P55 Shape theory [See also 54C56, 55Q07]
- 55P60 Localization and completion
- 55P62 Rational homotopy theory
- 55P65 Homotopy functors
- 55P91 Equivariant homotopy theory [See also 19L47]
- 55P99 None of the above, but in this section
- 55Qxx Homotopy groups**
- 55Q05 Homotopy groups, general; sets of homotopy classes
- 55Q07 Shape groups
- 55Q10 Stable homotopy groups
- 55Q15 Whitehead products and generalizations
- 55Q20 Homotopy groups of wedges, joins, and simple spaces
- 55Q25 Hopf invariants
- 55Q30 Homotopy groups of triads, n -ads
- 55Q35 Operations in homotopy groups
- 55Q40 Homotopy groups of spheres
- 55Q45 Stable homotopy of spheres
- 55Q50 J -morphism [See also 19L20]
- 55Q52 Homotopy groups of special spaces
- 55Q55 Cohomotopy groups
- 55Q70 Homotopy groups of special types [See also 55N05, 55N07]
- 55Q91 Equivariant homotopy groups [See also 19L47]
- 55Q99 None of the above, but in this section
- 55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]**
- 55R05 Fiber spaces
- 55R10 Fiber bundles
- 55R12 Transfer
- 55R15 Classification
- 55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
- 55R25 Sphere bundles and vector space bundles
- 55R35 Classifying spaces of groups and H -spaces
- 55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
- 55R45 Homology and homotopy of BO and BU ; Bott periodicity
- 55R50 Stable classes of vector space bundles, K -theory [See also 19Lxx] (For algebraic K -theory, see 18F25, 19-XX)
- 55R55 Fiberings with singularities

- 55R60 Microbundles and block bundles [See also 57N55, 57Q50]
 55R65 Generalizations of fiber spaces and bundles
 55R91 Equivariant fiber spaces and bundles [See also 19L47]
 55R99 None of the above, but in this section
55Sxx Operations and obstructions
 55S05 Primary cohomology operations
 55S10 Steenrod algebra
 55S12 Dyer-Lashof operations
 55S15 Symmetric products, cyclic products
 55S20 Secondary and higher cohomology operations
 55S25 K -theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
 55S30 Massey products
 55S35 Obstruction theory
 55S36 Extension and compression of mappings
 55S37 Classification of mappings
 55S40 Sectioning fiber spaces and bundles
 55S45 Postnikov systems, k -invariants
 55S91 Equivariant operations and obstructions [See also 19L47]
 55S99 None of the above, but in this section
55Txx Spectral sequences [See also 18G40, 55R20]
 55T05 General
 55T10 Serre spectral sequences
 55T15 Adams spectral sequences
 55T20 Eilenberg-Moore spectral sequences [See also 57T35]
 55T25 Generalized cohomology
 55T99 None of the above, but in this section
55Uxx Applied homological algebra and category theory [See also 18Gxx]
 55U05 Abstract complexes
 55U10 Semisimplicial complexes
 55U15 Chain complexes
 55U20 Universal coefficient theorems, Bockstein operator
 55U25 Homology of a product, Künneth formula
 55U30 Duality
 55U35 Abstract homotopy theory
 55U40 Topological categories
 55U99 None of the above, but in this section
- 57-XX MANIFOLDS AND CELL COMPLEXES** [For complex manifolds, see 32C10]
 57-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 57-01 Instructional exposition (textbooks, tutorial papers, etc.)
 57-02 Research exposition (monographs, survey articles)
 57-03 Historical (must also be assigned at least one classification number from Section 01)
 57-04 Explicit machine computation and programs (not the theory of computation or programming)
 57-06 Proceedings, conferences, collections, etc.
57Mxx Low-dimensional topology
 57M05 Fundamental group, presentations, free differential calculus
 57M07 Topological methods in group theory
 57M10 Covering spaces
 57M12 Special coverings, e.g. branched
 57M15 Relations with graph theory [See also 05Cxx]
 57M20 Two-dimensional complexes
 57M25 Knots and links in S^3 [For higher dimensions, see 57Q45]
 57M30 Wild knots and surfaces, etc.; wild embeddings
 57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
 57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
 57M50 Geometric structures on low-dimensional manifolds
 57M60 Group actions in low dimensions
 57M99 None of the above, but in this section
57Nxx Topological manifolds
 57N05 Topology of E^2 , 2-manifolds
 57N10 Topology of general 3-manifolds [See also 57Mxx]
 57N12 Topology of E^3 and S^3 [See also 57M40]
 57N13 Topology of E^4 , 4-manifolds [See also 14Jxx, 32Jxx]
 57N15 Topology of E^n , n -manifolds ($4 < n < \infty$)
 57N17 Topology of topological vector spaces
 57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
 57N25 Shapes [See also 54C56, 55P55, 55Q07]
 57N30 Engulfing
 57N35 Embeddings and immersions
 57N37 Isotopy and pseudo-isotopy
 57N40 Neighborhoods of submanifolds
 57N45 Flatness and tameness
 57N50 $S^{n-1} \subset E^n$, Schoenflies problem
 57N55 Microbundles and block bundles [See also 55R60, 57Q50]
 57N60 Cellularity
 57N65 Algebraic topology of manifolds
 57N70 Cobordism and concordance
 57N75 General position and transversality
 57N80 Stratifications
 57N99 None of the above, but in this section
57Pxx Generalized manifolds [See also 18F15]
 57P05 Local properties of generalized manifolds
 57P10 Poincaré duality spaces
 57P99 None of the above, but in this section
57Qxx PL-topology
 57Q05 General topology of complexes
 57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
 57Q12 Wall finiteness obstruction for CW-complexes
 57Q15 Triangulating manifolds
 57Q20 Cobordism
 57Q25 Comparison of PL-structures: classification, Hauptvermutung
 57Q30 Engulfing
 57Q35 Embeddings and immersions
 57Q37 Isotopy
 57Q40 Regular neighborhoods
 57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
 57Q50 Microbundles and block bundles [See also 55R60, 57N55]
 57Q55 Approximations
 57Q60 Cobordism and concordance
 57Q65 General position and transversality
 57Q91 Equivariant PL-topology
 57Q99 None of the above, but in this section
57Rxx Differential topology [For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx]
 57R05 Triangulating
 57R10 Smoothing
 57R12 Smooth approximations
 57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
 57R19 Algebraic topology on manifolds
 57R20 Characteristic classes and numbers
 57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
 57R25 Vector fields, frame fields
 57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 58F40, 93B05]
 57R30 Foliations; geometric theory
 57R32 Classifying spaces for foliations; Gelfand-Fuks cohomology [See also 58H10]
 57R35 Differentiable mappings
 57R40 Embeddings
 57R42 Immersions
 57R45 Singularities of differentiable mappings
 57R50 Diffeomorphisms
 57R52 Isotopy
 57R55 Differentiable structures
 57R57 Applications of global analysis to structures on manifolds [See also 58-XX]
 57R60 Homotopy spheres, Poincaré conjecture
 57R65 Surgery and handlebodies
 57R67 Surgery obstructions, Wall groups [See also 19J25]
 57R70 Critical points and critical submanifolds
 57R75 O- and SO-cobordism
 57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
 57R80 h - and s -cobordism
 57R85 Equivariant cobordism
 57R90 Other types of cobordism [See 55N22.]
 57R91 Equivariant algebraic topology of manifolds
 57R95 Realizing cycles by submanifolds
 57R99 None of the above, but in this section
57Sxx Topological transformation groups [See also 20F34, 22-XX, 54H15, 58D05]
 57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
 57S10 Compact groups of homeomorphisms
 57S15 Compact Lie groups of differentiable transformations
 57S17 Finite transformation groups
 57S20 Noncompact Lie groups of transformations
 57S25 Groups acting on specific manifolds
 57S30 Discontinuous groups of transformations
 57S99 None of the above, but in this section
57Txx Homology and homotopy of topological groups and related structures
 57T05 Hopf algebras [See also 16W30]
 57T10 Homology and cohomology of Lie groups
 57T15 Homology and cohomology of homogeneous spaces of Lie groups
 57T20 Homotopy groups of topological groups and homogeneous spaces
 57T25 Homology and cohomology of H -spaces
 57T30 Bar and cobar constructions [See also 18G55, 55Uxx]

- 57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
- 57T99 None of the above, but in this section
- 58-XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS**
[See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]
- 58-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 58-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 58-02 Research exposition (monographs, survey articles)
- 58-03 Historical (must also be assigned at least one classification number from Section 01)
- 58-04 Explicit machine computation and programs (not the theory of computation or programming)
- 58-06 Proceedings, conferences, collections, etc.
- 58Axx General theory of differentiable manifolds**
- 58A03 Topos-theoretic approach to differentiable manifolds
- 58A05 Differentiable manifolds, foundations
- 58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
- 58A10 Differential forms
- 58A12 de Rham theory [See also 14Fxx]
- 58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
- 58A15 Exterior differential systems (Cartan theory)
- 58A17 Pfaffian systems
- 58A20 Jets
- 58A25 Currents [See also 32C30, 53C65]
- 58A30 Vector distributions (subbundles of the tangent bundles)
- 58A35 Stratified sets [See also 32S60, 58C27]
- 58A40 Differential spaces
- 58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
- 58A99 None of the above, but in this section
- 58Bxx Infinite-dimensional manifolds**
- 58B05 Homotopy and topological questions
- 58B10 Differentiability questions
- 58B12 Questions of holomorphy [See also 32-XX, 46G20]
- 58B15 Fredholm structures [See also 47A53]
- 58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
- 58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
- 58B30 Noncommutative differential geometry and topology [See also 46L30, 46L87, 46L89]
- 58B99 None of the above, but in this section
- 58Cxx Calculus on manifolds; nonlinear operators** [See also 47Hxx]
- 58C05 Real-valued functions
- 58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
- 58C07 Continuity properties of mappings
- 58C10 Holomorphic maps [See also 32-XX]
- 58C15 Implicit function theorems; global Newton methods
- 58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
- 58C25 Differentiable maps
- 58C27 Singularities of differentiable maps [See also 14B05, 14E15, 32Sxx]
- 58C28 Catastrophes [See also 57R70, 58Exx]
- 58C30 Fixed point theorems on manifolds [See also 47H10]
- 58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
- 58C40 Spectral theory; eigenvalue problems [See also 47H12, 58E07]
- 58C50 Analysis on supermanifolds or graded manifolds
- 58C99 None of the above, but in this section
- 58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)**
- 58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
- 58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47D03, 47D06, 47H20]
- 58D10 Spaces of embeddings and immersions
- 58D15 Manifolds of mappings [See also 54C35]
- 58D17 Manifolds of metrics (esp. Riemannian)
- 58D19 Group actions and symmetry properties
- 58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]
- 58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15, 47H15]
- 58D27 Moduli problems for differential geometric structures
- 58D29 Moduli problems for topological structures
- 58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
- 58D99 None of the above, but in this section
- 58Exx Variational problems in infinite-dimensional spaces**
- 58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Ljusternik-Shnirel'man) theory, etc.)
- 58E07 Abstract bifurcation theory
- 58E09 Group-invariant bifurcation theory
- 58E10 Applications to the theory of geodesics (problems in one independent variable)
- 58E11 Critical metrics
- 58E12 Applications to minimal surfaces (problems in two independent variables)
- 58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
- 58E17 Pareto optimality, etc., applications to economics
- 58E20 Harmonic maps
- 58E25 Applications to control theory (optimal and nonoptimal)
- 58E30 Variational principles
- 58E35 Variational inequalities (global problems)
- 58E40 Group actions
- 58E50 Applications
- 58E99 None of the above, but in this section
- 58Fxx Ordinary differential equations on manifolds; dynamical systems** [See also 28D10, 34Cxx, 54H20]
- 58F03 One-dimensional dynamics, general symbolic dynamics [See also 26A18]
- 58F05 Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx, 81S10]
- 58F06 Geometric quantization (applications of representation theory) [See also 22E45, 81S10]
- 58F07 Completely integrable systems (including systems with an infinite number of degrees of freedom)
- 58F08 Point-mapping properties, iterations, completeness; dynamics of cellular automata [See also 26A18, 30D05]
- 58F09 Morse-Smale systems
- 58F10 Stability theory
- 58F11 Ergodic theory; invariant measures [See also 28Dxx]
- 58F12 Structure of attractors (and repellers)
- 58F13 Strange attractors; chaos and other pathologies [See also 70K50]
- 58F14 Bifurcation theory and singularities
- 58F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
- 58F17 Geodesic and horocycle flows
- 58F18 Relations with foliations
- 58F19 Eigenvalue and spectral problems
- 58F20 Periodic points and zeta functions
- 58F21 Limit cycles, singular points, etc.
- 58F22 Periodic solutions
- 58F23 Holomorphic dynamics [See also 30D05]
- 58F25 Flows
- 58F27 Quasiperiodic flows
- 58F30 Perturbations
- 58F32 Functional-differential equations on manifolds
- 58F35 Invariance properties
- 58F36 Normal forms
- 58F37 Correspondences and other transformation methods (e.g. Lie-Bäcklund)
- 58F39 Dynamical systems treatment of PDE (should be assigned another number from 58F) [See also 35B32, 35K57]
- 58F40 Applications
- 58F99 None of the above, but in this section
- 58Gxx Partial differential equations on manifolds; differential operators** [See also 35-XX]
- 58G03 Elliptic equations on manifolds, general theory
- 58G05 Differential complexes [See also 35Nxx]; elliptic complexes
- 58G07 Relations with hyperfunctions
- 58G10 Index theory and related fixed point theorems [See also 19K56, 46L80]
- 58G11 Heat and other parabolic equation methods
- 58G12 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
- 58G15 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
- 58G16 Hyperbolic equations
- 58G17 Propagation of singularities; initial value problems
- 58G18 Perturbations; asymptotics
- 58G20 Boundary value problems on manifolds
- 58G25 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
- 58G26 Determinants and determinant bundles
- 58G28 Bifurcations [See also 35B32]
- 58G30 Relations with special manifold structures (Riemannian, Finsler, etc.)
- 58G32 Diffusion processes and stochastic analysis on manifolds
- 58G35 Invariance and symmetry properties [See also 35A30]
- 58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
- 58G40 Applications
- 58G99 None of the above, but in this section
- 58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds**
- 58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]

- 58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gelfand-Fuks, etc.) [See also 57R32]
- 58H15 Deformations of structures [See also 32Gxx, 58G05]
- 58H99 None of the above, but in this section
- 58Z05 Applications to physics
- 60-XX PROBABILITY THEORY AND STOCHASTIC PROCESSES (For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05)**
- 60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 60-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 60-02 Research exposition (monographs, survey articles)
- 60-03 Historical (must also be assigned at least one classification number from Section 01)
- 60-04 Explicit machine computation and programs (not the theory of computation or programming)
- 60-06 Proceedings, conferences, collections, etc.
- 60Axx Foundations of probability theory**
- 60A05 Axioms; other general questions
- 60A10 Probabilistic measure theory (For ergodic theory, see 28Dxx and 60Fxx)
- 60A99 None of the above, but in this section
- 60Bxx Probability theory on algebraic and topological structures**
- 60B05 Probability measures on topological spaces
- 60B10 Convergence of probability measures
- 60B11 Probability theory on linear topological spaces [See also 28C20]
- 60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
- 60B15 Probability measures on groups, Fourier transforms, factorization
- 60B99 None of the above, but in this section
- 60C05 Combinatorial probability**
- 60D05 Geometric probability, stochastic geometry, random sets** [See also 52A22, 53C65]
- 60Exx Distribution theory** [See also 62Exx, 62Hxx]
- 60E05 Distributions: general theory
- 60E07 Infinitely divisible distributions; stable distributions
- 60E10 Characteristic functions; other transforms
- 60E15 Inequalities (Chebyshev, Kolmogorov, etc.)
- 60E99 None of the above, but in this section
- 60Fxx Limit theorems** [See also 28Dxx, 60B12]
- 60F05 Central limit and other weak theorems
- 60F10 Large deviations
- 60F15 Strong theorems
- 60F17 Functional limit theorems; invariance principles
- 60F20 Zero-one laws
- 60F25 L^p -limit theorems
- 60F99 None of the above, but in this section
- 60Gxx Stochastic processes**
- 60G05 Foundations of stochastic processes
- 60G07 General theory of processes
- 60G09 Exchangeability
- 60G10 Stationary processes
- 60G12 General second-order processes
- 60G15 Gaussian processes
- 60G17 Sample path properties
- 60G18 Self-similar processes
- 60G20 Generalized stochastic processes
- 60G25 Prediction theory [See also 62M20]
- 60G30 Continuity and singularity of induced measures
- 60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
- 60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 90D60]
- 60G42 Martingales with discrete parameter
- 60G44 Martingales with continuous parameter
- 60G46 Martingales and classical analysis
- 60G48 Generalizations of martingales
- 60G50 Sums of independent random variables
- 60G55 Point processes
- 60G57 Random measures
- 60G60 Random fields
- 60G70 Extreme value theory; extremal processes
- 60G99 None of the above, but in this section
- 60Hxx Stochastic analysis** [See also 58G32]
- 60H05 Stochastic integrals
- 60H07 Stochastic calculus of variations and the Malliavin calculus
- 60H10 Stochastic ordinary differential equations [See also 34F05]
- 60H15 Stochastic partial differential equations [See also 35R60]
- 60H20 Stochastic integral equations
- 60H25 Random operators and equations [See also 47B80]
- 60H30 Applications of stochastic analysis (to PDE, etc.)
- 60H99 None of the above, but in this section
- 60Jxx Markov processes**
- 60J05 Markov processes with discrete parameter
- 60J10 Markov chains with discrete parameter
- 60J15 Random walks
- 60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 92H10, 92H35, 92J40]
- 60J25 Markov processes with continuous parameter
- 60J27 Markov chains with continuous parameter
- 60J30 Processes with independent increments
- 60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
- 60J40 Right processes
- 60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
- 60J50 Boundary theory
- 60J55 Local time and additive functionals
- 60J57 Multiplicative functionals
- 60J60 Diffusion processes [See also 58G32]
- 60J65 Brownian motion [See also 58G32]
- 60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
- 60J75 Jump processes
- 60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
- 60J85 Applications of branching processes [See also 92Dxx]
- 60J99 None of the above, but in this section
- 60Kxx Special processes**
- 60K05 Renewal theory
- 60K10 Applications (reliability, demand theory, etc.)
- 60K15 Markov renewal processes, semi-Markov processes
- 60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
- 60K25 Queueing theory [See also 68M20, 90B22]
- 60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
- 60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
- 60K40 Other physical applications of random processes
- 60K99 None of the above, but in this section
- 62-XX STATISTICS (For numerical methods, see 65U05)**
- 62-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 62-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 62-02 Research exposition (monographs, survey articles)
- 62-03 Historical (must also be assigned at least one classification number from Section 01)
- 62-04 Explicit machine computation and programs (not the theory of computation or programming)
- 62-06 Proceedings, conferences, collections, etc.
- 62-07 Data analysis
- 62-09 Graphical methods
- 62Axx Foundations**
- 62A05 Invariance and group considerations
- 62A10 The likelihood approach
- 62A15 The Bayesian approach
- 62A20 The classical approach
- 62A25 The structural approach
- 62A30 The fiducial approach
- 62A99 None of the above, but in this section
- 62Bxx Sufficiency and information**
- 62B05 Sufficient statistics and fields
- 62B10 Statistical information theory [See also 94A17]
- 62B15 Theory of statistical experiments
- 62B20 Measure-theoretic results, etc.
- 62B99 None of the above, but in this section
- 62Cxx Decision theory** [See also 90A05, 90B50; for game theory, see 90D35]
- 62C05 General considerations
- 62C07 Complete class results
- 62C10 Bayesian problems; characterization of Bayes procedures
- 62C12 Empirical decision procedures; empirical Bayes procedures
- 62C15 Admissibility
- 62C20 Minimax procedures
- 62C25 Compound decision problems
- 62C99 None of the above, but in this section
- 62D05 Sampling theory, sample surveys**
- 62Exx Distribution theory** [See also 60Exx]
- 62E10 Characterization and structure theory
- 62E15 Exact distribution theory
- 62E17 Approximations to distributions (nonasymptotic)
- 62E20 Asymptotic distribution theory
- 62E25 Monte Carlo studies
- 62E30 Formal computational methods (polykays, etc.)
- 62E99 None of the above, but in this section

- 62Fxx Parametric inference**
 62F03 Hypothesis testing
 62F04 Small-sample properties of tests
 62F05 Asymptotic properties of tests
 62F07 Ranking and selection
 62F10 Point estimation
 62F11 Small-sample properties of estimators
 62F12 Asymptotic properties of estimators
 62F15 Bayesian inference
 62F25 Tolerance and confidence regions
 62F30 Inference under constraints
 62F35 Robustness and adaptive procedures
 62F99 None of the above, but in this section
62Gxx Nonparametric inference
 62G05 Estimation
 62G07 Curve estimation (nonparametric regression, density estimation, etc.)
 62G09 Resampling methods
 62G10 Hypothesis testing
 62G15 Tolerance and confidence regions
 62G20 Asymptotic properties
 62G30 Order statistics; empirical distribution functions
 62G35 Robustness
 62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
 62H05 Characterization and structure theory
 62H10 Distribution of statistics
 62H11 Directional data; spatial statistics
 62H12 Estimation
 62H15 Hypothesis testing
 62H17 Contingency
 62H20 Measures of association (correlation, canonical correlation, etc.)
 62H25 Factor analysis and principal components; correspondence analysis
 62H30 Classification and discrimination; cluster analysis [See also 68T10]
 62H40 Projection pursuit
 62H99 None of the above, but in this section
62Jxx Linear inference, regression
 62J02 General nonlinear regression
 62J05 Linear regression
 62J07 Ridge regression; James-Stein estimators
 62J10 Analysis of variance and covariance
 62J12 Generalized linear models
 62J15 Paired and multiple comparisons
 62J20 Diagnostics
 62J99 None of the above, but in this section
62Kxx Experimental design [See also 65Bxx]
 62K05 Optimal designs
 62K10 Block designs
 62K15 Factorial designs
 62K99 None of the above, but in this section
62Lxx Sequential methods
 62L05 Sequential design
 62L10 Sequential analysis
 62L12 Sequential estimation
 62L15 Optimal stopping [See also 60G40, 90D60]
 62L20 Stochastic approximation
 62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
 62M02 Markov processes: hypothesis testing
 62M05 Markov processes: estimation
 62M07 Non-Markovian processes: hypothesis testing
 62M09 Non-Markovian processes: estimation
 62M10 Time series, auto-correlation, regression, etc. [See also 90A20]
 62M15 Spectral analysis
 62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
 62M30 Spatial processes
 62M40 Random fields
 62M99 None of the above, but in this section
62Nxx Engineering statistics
 62N05 Reliability and life testing [See also 90B25]
 62N10 Quality control
 62N99 None of the above, but in this section
62Pxx Applications [See also 90-XX, 92-XX]
 62P05 Applications to actuarial sciences and financial mathematics
 62P10 Applications to biology
 62P15 Applications to psychology
 62P20 Applications to economics [See also 90Axx]
 62P25 Applications to social sciences
 62P99 None of the above, but in this section
62Q05 Statistical tables
- 65-XX NUMERICAL ANALYSIS**
 65-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 65-01 Instructional exposition (textbooks, tutorial papers, etc.)
 65-02 Research exposition (monographs, survey articles)
 65-03 Historical (must also be assigned at least one classification number from Section 01)
 65-04 Explicit machine computation and programs (not the theory of computation or programming)
 65-05 Experimental papers
 65-06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
 65B05 Extrapolation to the limit, deferred corrections
 65B10 Summation of series
 65B15 Euler-Maclaurin formula
 65B99 None of the above, but in this section
65Cxx Numerical simulation (For theoretical aspects, see 68U20)
 65C05 Monte Carlo methods
 65C10 Random number generation
 65C20 Models, numerical methods
 65C99 None of the above, but in this section
65Dxx Numerical approximation (Primarily algorithms; for theory, see 41-XX)
 65D05 Interpolation
 65D07 Splines
 65D10 Smoothing, curve fitting
 65D15 Algorithms for functional approximation
 65D17 Computer-aided design (modeling of curves and surfaces) [See also 68U05]
 65D20 Computation of special functions, construction of tables
 65D25 Numerical differentiation
 65D30 Numerical integration
 65D32 Quadrature and cubature formulas
 65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) (For numerical methods in conformal mapping, see 30C30)
65Fxx Numerical linear algebra
 65F05 Direct methods for linear systems and matrix inversion
 65F10 Iterative methods for linear systems [See also 65N22]
 65F15 Eigenvalues, eigenvectors
 65F20 Overdetermined systems, pseudoinverses
 65F25 Orthogonalization
 65F30 Other matrix algorithms
 65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
 65F40 Determinants
 65F50 Sparse matrices
 65F99 None of the above, but in this section
65Gxx Error analysis
 65G05 Roundoff error
 65G10 Interval and finite arithmetic
 65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
 65H05 Single equations
 65H10 Systems of equations
 65H17 Eigenvalues, eigenvectors and bifurcation problems [See also 58C40, 58E07, 58F14, 90C30]
 65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
 65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
 65J05 General theory
 65J10 Equations with linear operators (do not use 65Fxx)
 65J15 Equations with nonlinear operators (do not use 65Hxx)
 65J20 Improperly posed problems
 65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
 65K05 Mathematical programming [See also 90Cxx]
 65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
 65K99 None of the above, but in this section
65Lxx Ordinary differential equations
 65L05 Initial value problems
 65L06 Multistep, Runge-Kutta and extrapolation methods
 65L07 Numerical investigation of stability of solutions
 65L08 Improperly posed problems
 65L10 Boundary value problems
 65L12 Finite difference methods
 65L15 Eigenvalue problems
 65L20 Stability of numerical methods
 65L50 Mesh generation and refinement
 65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
 65L70 Error bounds
 65L99 None of the above, but in this section

- 65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems**
- 65M06 Finite difference methods
- 65M12 Stability and convergence of numerical methods
- 65M15 Error bounds
- 65M20 Method of lines
- 65M25 Method of characteristics
- 65M30 Improperly posed problems
- 65M50 Mesh generation and refinement
- 65M55 Multigrid methods; domain decomposition
- 65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
- 65M70 Spectral, collocation and related methods
- 65M99 None of the above, but in this section
- 65Nxx Partial differential equations, boundary value problems**
- 65N06 Finite difference methods
- 65N12 Stability and convergence of numerical methods
- 65N15 Error bounds
- 65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
- 65N25 Eigenvalue problems
- 65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
- 65N35 Spectral, collocation and related methods
- 65N38 Boundary element methods
- 65N40 Method of lines
- 65N45 Method of contraction of the boundary
- 65N50 Mesh generation and refinement
- 65N55 Multigrid methods; domain decomposition
- 65N99 None of the above, but in this section
- 65P05 Partial differential equations, miscellaneous problems**
- 65Q05 Difference and functional equations, recurrence relations**
- 65Rxx Integral equations, integral transforms [See also 45Lxx]**
- 65R10 Integral transforms
- 65R20 Integral equations
- 65R30 Improperly posed problems
- 65R99 None of the above, but in this section
- 65S05 Graphical methods**
- 65Txx Numerical methods in Fourier analysis**
- 65T10 Trigonometric approximation and interpolation
- 65T20 Discrete and fast Fourier transforms
- 65T99 None of the above, but in this section
- 65U05 Numerical methods in probability and statistics**
- 65Yxx Computer aspects of numerical algorithms**
- 65Y05 Parallel computation
- 65Y10 Algorithms for specific classes of architectures
- 65Y15 Packaged methods
- 65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
- 65Y25 Computer graphics and computational geometry [See also 51N05, 68U05]
- 65Y99 None of the above, but in this section
- 68-XX COMPUTER SCIENCE (For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area)**
- 68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 68-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 68-02 Research exposition (monographs, survey articles)
- 68-03 Historical (must also be assigned at least one classification number from Section 01)
- 68-04 Explicit machine computation and programs (not the theory of computation or programming)
- 68-06 Proceedings, conferences, collections, etc.
- 68Mxx Computer system organization**
- 68M05 General
- 68M07 Mathematical problems of computer architecture
- 68M10 Computer networks [See also 90B12]
- 68M15 Reliability and testing
- 68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
- 68M99 None of the above, but in this section
- 68Nxx Software**
- 68N05 General theory of programming
- 68N15 Programming languages
- 68N17 Logic programming
- 68N20 Compilers and generators [See also 68Q52]
- 68N25 Monitors and operating systems
- 68N99 None of the above, but in this section
- 68Pxx Theory of data**
- 68P05 Data structures
- 68P10 Searching and sorting
- 68P15 Database theory
- 68P20 Information storage and retrieval
- 68P25 Data encryption [See also 94A60]
- 68P99 None of the above, but in this section
- 68Qxx Theory of computing**
- 68Q05 Models of computation (abstract processors, Turing machines, etc.) [See also 03D10]
- 68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [See also 68Q90]
- 68Q15 Complexity classes [See also 03D15]
- 68Q20 Nonnumerical algorithms {For numerical algorithms, see 65-XX; for combinatorics and graph theory, see 68Rxx}
- 68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 68Y10}
- 68Q25 Analysis of algorithms and problem complexity
- 68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
- 68Q35 VLSI algorithms
- 68Q40 Symbolic computation, algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16-08, 17-08]
- 68Q42 Rewriting systems
- 68Q45 Formal languages [See also 03D05, 20M35, 94A45]
- 68Q50 Grammars [See also 03D05]
- 68Q52 Parsing [See also 68N20]
- 68Q55 Semantics [See also 03B70, 06B35]
- 68Q60 Specification and verification of programs [See also 03B70]
- 68Q65 Abstract data types; algebraic specification
- 68Q68 Automata theory, general [See also 03D05]
- 68Q70 Algebraic theory of automata [See also 18B20, 20M35]
- 68Q75 Stochastic and nondeterministic automata
- 68Q80 Tessellation automata, iterative arrays, cellular structures
- 68Q90 Transition nets
- 68Q99 None of the above, but in this section
- 68Rxx Discrete mathematics in relation to computer science**
- 68R05 Combinatorics
- 68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
- 68R15 Combinatorics on words
- 68R99 None of the above, but in this section
- 68S05 Mathematical linguistics [See also 03B65, 92K20]**
- 68Txx Artificial intelligence [See also 92J40]**
- 68T01 General
- 68T05 Learning and adaptive systems
- 68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
- 68T15 Theorem proving [See also 03B35]
- 68T20 Problem solving
- 68T25 AI languages
- 68T27 AI logics
- 68T30 Knowledge representation
- 68T35 AI software systems (knowledge-based systems, expert systems, etc.)
- 68T99 None of the above, but in this section
- 68Uxx Computing methodologies**
- 68U05 Computer graphics; computational geometry [See also 65Y25]
- 68U07 Computer-aided design
- 68U10 Image processing
- 68U15 Text processing; mathematical typography
- 68U20 Simulation [See also 65Cxx]
- 68U30 Other applications
- 68U99 None of the above, but in this section
- 70-XX MECHANICS OF PARTICLES AND SYSTEMS (For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX)**
- 70-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 70-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 70-02 Research exposition (monographs, survey articles)
- 70-03 Historical (must also be assigned at least one classification number from Section 01)
- 70-04 Explicit machine computation and programs (not the theory of computation or programming)
- 70-05 Experimental papers
- 70-06 Proceedings, conferences, collections, etc.
- 70-08 Computational methods
- 70A05 Axiomatics, foundations**
- 70Bxx Kinematics [See also 53A17]**
- 70B05 Kinematics of a particle
- 70B10 Kinematics of a rigid body
- 70B15 Mechanisms, robots [See also 73K05]
- 70B99 None of the above, but in this section
- 70C20 Statics**
- 70Dxx Dynamics of a particle [See also 70Hxx]**
- 70D05 Newtonian dynamics
- 70D10 Lagrangian dynamics
- 70D99 None of the above, but in this section
- 70Exx Dynamics of a rigid body**
- 70E05 Motion of the gyroscope
- 70E10 Motion of projectiles and rockets
- 70E15 Motion of rigid bodies

- 70E20 Perturbation methods for Euler's equations
 70E99 None of the above, but in this section
70Fxx Dynamics of a system of particles, including celestial mechanics
 70F05 Two-body problem
 70F07 Three-body problem
 70F10 n -body problem
 70F15 Celestial mechanics
 70F20 Holonomic systems
 70F25 Nonholonomic systems
 70F30 Impulsive motion
 70F35 Collisions
 70F99 None of the above, but in this section
70Gxx General representations of dynamical systems [See also 58Fxx]
 70G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20]
 70G10 Generalized coordinates
 70G15 Space of events
 70G20 Impulse-energy space
 70G25 Configuration space
 70G30 State space
 70G35 Phase space
 70G50 Classical field theories (general)
 70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 58F05]
 70H05 Hamilton's equations
 70H10 Liouville's theorem
 70H15 Canonical transformations
 70H20 Hamilton-Jacobi equations
 70H25 Hamilton's principle
 70H30 Other variational principles
 70H33 Symmetries
 70H35 Lagrange's equation of motion
 70H40 Relativistic dynamics
 70H99 None of the above, but in this section
70Jxx Linear vibration theory [See also 73D30]
 70J05 Finite degree of freedom systems
 70J10 Modal analysis
 70J25 Stability
 70J30 Free motions
 70J35 Forced motions
 70J40 Parametric resonances
 70J99 None of the above, but in this section
70Kxx Nonlinear motions [See also 34Cxx, 58Fxx, 73D35, 73K12]
 70K05 Phase plane analysis
 70K10 Limit cycles
 70K15 Lyapunov theorems
 70K20 Stability
 70K25 Free motions
 70K28 Parametric resonances
 70K30 Nonlinear resonances
 70K40 Forced motions
 70K50 Transition to stochasticity (chaotic behavior) [See also 58F13]
 70K99 None of the above, but in this section
70L05 Random vibrations [See also 73K35, 93Exx]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 49-XX, 73K50, 93Cxx, 93Dxx]
73-XX MECHANICS OF SOLIDS
 73-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 73-01 Instructional exposition (textbooks, tutorial papers, etc.)
 73-02 Research exposition (monographs, survey articles)
 73-03 Historical (must also be assigned at least one classification number from Section 01)
 73-04 Explicit machine computation and programs (not the theory of computation or programming)
 73-05 Experimental papers
 73-06 Proceedings, conferences, collections, etc.
73A05 Axiomatics, foundations of solid mechanics
73Bxx Continuum mechanics of solids (constitutive description and properties)
 73B05 Constitutive equations
 73B10 Symmetry groups
 73B18 Nonlocal theories
 73B25 Polar theories
 73B27 Nonhomogeneous materials; homogenization
 73B30 Thermodynamics of solids (For gases and fluids, see 80-XX)
 73B35 Random materials
 73B40 Anisotropic materials
 73B50 Stress concentrations
 73B99 None of the above, but in this section
73Cxx Elasticity (For the biharmonic equation, see 31A30, 31B30)
 73C02 Classical linear elasticity
 73C05 Stress functions
 73C10 Saint-Venant's principle
 73C15 Uniqueness theorems
 73C35 Mixed boundary value problems [See also 45F05]
 73C50 Nonlinear elasticity
 73C99 None of the above, but in this section
73Dxx Wave propagation in and vibrations of solids
 73D05 Impact and explosion problems [See also 76L05]
 73D10 Integral transforms
 73D15 Body waves
 73D20 Surface waves
 73D25 Wave diffraction and dispersion
 73D30 Linear vibrations [See also 70Jxx]
 73D35 Nonlinear vibrations [See also 70Kxx]
 73D40 Singular surfaces
 73D50 Inverse problems [See also 35Lxx, 35R30]
 73D70 Random waves
 73D99 None of the above, but in this section
73Exx Plasticity
 73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)
 73E10 Method of successive approximations
 73E20 Limit analysis
 73E50 Time-dependent problems
 73E60 Viscoplasticity
 73E70 Plastic waves
 73E99 None of the above, but in this section
73Fxx Viscoelasticity
 73F05 Creep and relaxation functions
 73F10 Correspondence principle
 73F15 Time-dependent problems
 73F20 Aging of materials
 73F25 Environmental-dependent materials
 73F99 None of the above, but in this section
73Gxx Finite deformations
 73G05 Finite elasticity
 73G20 Finite plasticity
 73G25 Finite viscoelasticity
 73G99 None of the above, but in this section
73Hxx Stability (linear and nonlinear)
 73H05 Buckling
 73H10 Dynamic stability
 73H99 None of the above, but in this section
73Kxx Mechanics of structures
 73K03 Strings
 73K05 Beams, columns, rods
 73K10 Plates, discs, membranes
 73K12 Dynamics of structures
 73K15 Shells
 73K20 Composite structures and materials
 73K35 Random vibrations
 73K40 Optimization [See also 90C90]
 73K50 Control of structures
 73K70 Aero- or hydromechanic structure interactions
 73K99 None of the above, but in this section
73M25 Fracture mechanics
73N20 Geophysical solid mechanics [See also 86A15, 86A17]
73P20 Biomechanics of solids [See also 92C10]
73Q05 Soil and rock mechanics [See also 86A60]
73R05 Electromagnetic elasticity
73S10 Micromechanics of solids
73T05 Contact and surface mechanics
73Vxx Basic methods in solid mechanics [See also 65-xx]
 73V05 Finite element methods
 73V10 Boundary element methods
 73V15 Finite difference methods
 73V20 Other numerical methods
 73V25 Variational methods
 73V30 Stochastic analysis
 73V35 Complex variable techniques
 73V99 None of the above, but in this section
76-XX FLUID MECHANICS (For general continuum mechanics, see 73Bxx, or other parts of 73-XX)
 76-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 76-01 Instructional exposition (textbooks, tutorial papers, etc.)
 76-02 Research exposition (monographs, survey articles)
 76-03 Historical (must also be assigned at least one classification number from Section 01)

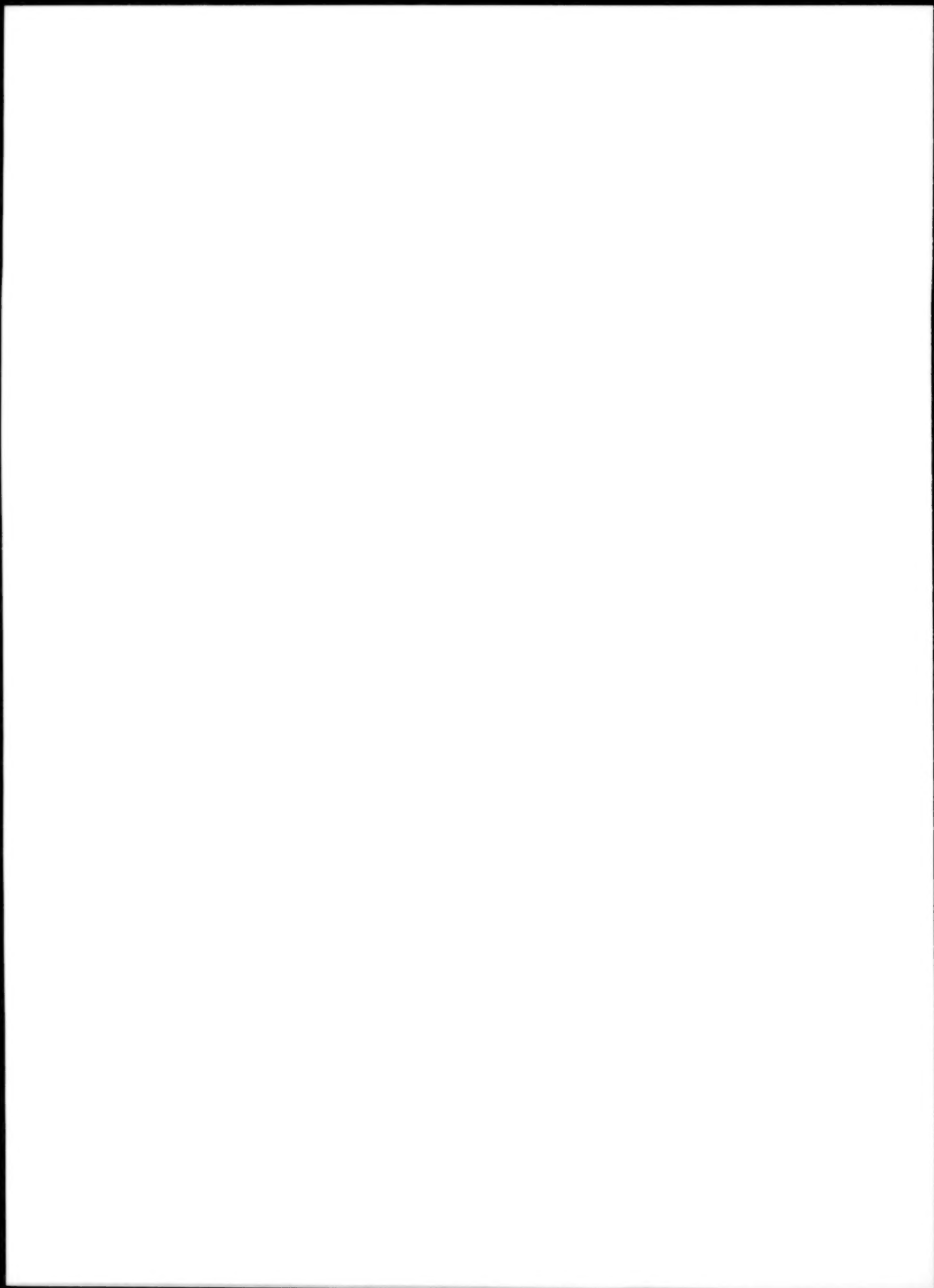
- 76-04 Explicit machine computation and programs (not the theory of computation or programming)
- 76-05 Experimental papers
- 76-06 Proceedings, conferences, collections, etc.
- 76Axx **Foundations, constitutive equations, rheology**
- 76A02 Foundations of fluid mechanics
- 76A05 Non-Newtonian fluids
- 76A10 Viscoelastic fluids
- 76A15 Liquid crystals [See also 82D30]
- 76A99 None of the above, but in this section
- 76Bxx **Incompressible inviscid fluids, potential theory**
- 76B05 Airfoil theory
- 76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing
- 76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [See also 35Q53]
- 76B20 Ship waves
- 76B25 Solitary and cnoidal waves [See also 35Q51]
- 76B35 Random waves, inviscid fluids
- 76B40 Added mass computations
- 76B45 Capillarity
- 76B99 None of the above, but in this section
- 76Cxx **Incompressible inviscid fluids, vorticity flows**
- 76C05 Vorticity flows
- 76C10 Internal waves
- 76C15 Atmospheric waves
- 76C20 Rossby waves
- 76C99 None of the above, but in this section
- 76Dxx **Incompressible viscous fluids**
- 76D05 Navier-Stokes equations [See also 35Q30]
- 76D07 Stokes flows
- 76D08 Lubrication theory
- 76D10 Boundary-layer theory
- 76D15 Boundary-layer separation and reattachment
- 76D20 Higher-order effects in boundary layers
- 76D25 Wakes and jets
- 76D30 Singular perturbation problems
- 76D33 Waves
- 76D35 Random waves, viscous fluids
- 76D45 Capillarity [See also 76B45]
- 76D99 None of the above, but in this section
- 76Exx **Hydrodynamic stability**
- 76E05 Stability of parallel flows
- 76E10 Inertial instability
- 76E15 Convective instability
- 76E20 Instability of geophysical and astrophysical flows
- 76E25 Magnetohydrodynamic and electrohydrodynamic instabilities
- 76E30 Nonlinear effects
- 76E99 None of the above, but in this section
- 76Fxx **Turbulence** [See also 58F13, 58F27, 60Gxx, 60Jxx]
- 76F05 Homogeneous isotropic turbulence
- 76F10 Shear flows
- 76F20 Turbulence via chaos techniques
- 76F99 None of the above, but in this section
- 76G25 **General aerodynamics and subsonic flows**
- 76H05 **Transonic flows**
- 76J20 **Supersonic flows**
- 76K05 **Hypersonic flows**
- 76L05 **Shock waves and blast waves** [See also 35L67, 73D05]
- 76Mxx **Basic methods in fluid mechanics** [See also 65-XX]
- 76M10 Finite element methods
- 76M15 Boundary element methods
- 76M20 Finite difference methods
- 76M25 Other numerical methods
- 76M30 Variational methods
- 76M35 Stochastic analysis
- 76M99 None of the above, but in this section
- 76Nxx **Compressible fluids and gas dynamics, general**
- 76N10 Compressible fluids, general [See also 35Q30]
- 76N15 Gas dynamics, general
- 76N20 Boundary-layer theory
- 76N99 None of the above, but in this section
- 76P05 **Rarefied gas flows, Boltzmann equation** [See also 82B40, 82C40, 82D05]
- 76Q05 **Hydrodynamic sound, acoustics**
- 76Rxx **Diffusion and convection**
- 76R05 Forced convection
- 76R10 Free convection
- 76R50 Diffusion [See also 60J60]
- 76R99 None of the above, but in this section
- 76S05 **Flows in porous media; filtration; seepage**
- 76T05 **Two-phase and multiphase flows**
- 76U05 **Rotating fluids**
- 76V05 **Stratified and reacting fluids**
- 76W05 **Magnetohydrodynamics and electrohydrodynamics**
- 76X05 **Ionized gas flow in electromagnetic fields; plasmas**
- 76Y05 **Quantum hydrodynamics and relativistic hydrodynamics** [See also 83C55, 85A30]
- 76Zxx **Biological fluid mechanics** [See also 92Cxx]
- 76Z05 Physiological flows [See also 92C35]
- 76Z10 Biopropulsion in water and in air
- 76Z99 None of the above, but in this section
- 78-XX **OPTICS, ELECTROMAGNETIC THEORY** {For quantum optics, see 81V80}
- 78-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 78-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 78-02 Research exposition (monographs, survey articles)
- 78-03 Historical (must also be assigned at least one classification number from Section 01)
- 78-04 Explicit machine computation and programs (not the theory of computation or programming)
- 78-05 Experimental papers
- 78-06 Proceedings, conferences, collections, etc.
- 78-08 Computational methods
- 78A02 Foundations
- 78A05 Geometric optics
- 78A10 Physical optics
- 78A15 Electron optics
- 78A20 Space charge waves
- 78A25 Electromagnetic theory, general
- 78A30 Electro- and magnetostatics
- 78A35 Motion of charged particles
- 78A40 Waves and radiation
- 78A45 Diffraction, scattering [See also 34E20 for WKB methods]
- 78A50 Antennas, wave-guides
- 78A55 Technical applications
- 78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
- 78A70 Biological applications [See also 92C30, 92J30]
- 78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
- 78A99 Miscellaneous topics
- 80-XX **CLASSICAL THERMODYNAMICS, HEAT TRANSFER** {For thermodynamics of solids, see 73B30}
- 80-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 80-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 80-02 Research exposition (monographs, survey articles)
- 80-03 Historical (must also be assigned at least one classification number from Section 01)
- 80-04 Explicit machine computation and programs (not the theory of computation or programming)
- 80-05 Experimental papers
- 80-06 Proceedings, conferences, collections, etc.
- 80-08 Computational methods
- 80A05 Foundations
- 80A10 Classical thermodynamics
- 80A15 Thermodynamics of mixtures
- 80A20 Heat and mass transfer, heat flow
- 80A22 Stefan problems, phase changes, etc.
- 80A23 Inverse problems
- 80A25 Combustion, interior ballistics
- 80A30 Chemical kinetics [See also 92C45, 92E20]
- 80A32 Chemically reacting flows [See also 92C45, 92E20]
- 80A50 Chemistry (general) [See mainly 92Exx]
- 80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)
- 80A99 Miscellaneous topics
- 81-XX **QUANTUM THEORY**
- 81-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 81-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 81-02 Research exposition (monographs, survey articles)
- 81-03 Historical (must also be assigned at least one classification number from Section 01)
- 81-04 Explicit machine computation and programs (not the theory of computation or programming)
- 81-05 Experimental papers
- 81-06 Proceedings, conferences, collections, etc.
- 81-08 Computational methods
- 81Pxx **Axiomatics, foundations, philosophy**
- 81P05 General and philosophical
- 81P10 Logical foundations of quantum mechanics
- 81P15 Quantum measurement theory
- 81P20 Stochastic mechanics (including stochastic electrodynamics)
- 81P99 None of the above, but in this section

- 81Qxx General mathematical topics and methods in quantum theory**
- 81Q05** Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations
- 81Q10** Selfadjoint operator theory in quantum theory, including spectral analysis
- 81Q15** Perturbation theories for operators and differential equations
- 81Q20** Semiclassical techniques including WKB and Maslov methods
- 81Q30** Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
- 81Q40** Bethe-Salpeter and other integral equations
- 81Q50** Quantum chaos [See also 58F13]
- 81Q60** Supersymmetric quantum mechanics
- 81Q99** None of the above, but in this section
- 81Rxx Groups and algebras in quantum theory**
- 81R05** Representations of finite-dimensional groups and algebras motivated by physics [See also 20C35, 22E70]
- 81R10** Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [See also 17B65, 17B67, 22E65, 22E67, 22E70]
- 81R20** Covariant wave equations
- 81R25** Spinor and twistor methods [See also 32L25]
- 81R30** Coherent states [See also 22E45]
- 81R40** Symmetry breaking
- 81R50** Quantum groups and related algebraic methods [See also 16W30, 17B37]
- 81R99** None of the above, but in this section
- 81Sxx General quantum mechanics and problems of quantization**
- 81S05** Commutation relations
- 81S10** Geometric quantization, symplectic methods [See also 58F06]
- 81S20** Stochastic quantization
- 81S25** Quantum stochastic calculus
- 81S30** Phase space methods including Wigner distributions, etc.
- 81S40** Path integrals [See also 58D30]
- 81S99** None of the above, but in this section
- 81Txx Quantum field theory; related classical field theories**
- 81T05** Axiomatic quantum field theory; operator algebras
- 81T08** Constructive quantum field theory
- 81T10** Model quantum field theories
- 81T13** Yang-Mills and other gauge theories [See also 53C07, 58E15]
- 81T15** Perturbative methods of renormalization
- 81T16** Nonperturbative methods of renormalization
- 81T17** Renormalization group methods
- 81T18** Feynman diagrams
- 81T20** Quantum field theory on curved space backgrounds
- 81T25** Quantum field theory on lattices
- 81T27** Continuum limits
- 81T30** String and superstring theories; other extended objects [See also 83E30]
- 81T40** Two-dimensional field theories, conformal field theories, etc.
- 81T50** Anomalies
- 81T60** Supersymmetric field theories
- 81T70** Quantization in field theory; cohomological methods [See also 58F06]
- 81T80** Simulation and numerical modeling
- 81T99** None of the above, but in this section
- 81Uxx Scattering theory [See also 47A40]**
- 81U05** 2-body potential scattering theory [See also 34E20 for WKB methods]
- 81U10** n -body potential scattering theory
- 81U20** S -matrix theory, etc.
- 81U30** Dispersion theory, dispersion relations
- 81U40** Inverse scattering problems [See also 58F07, 58F19]
- 81U99** None of the above, but in this section
- 81Vxx Applications to specific physical systems**
- 81V05** Strong interaction, including quantum chromodynamics
- 81V10** Electromagnetic interaction; quantum electrodynamics
- 81V15** Weak interaction
- 81V17** Gravitational interaction
- 81V19** Other fundamental interactions
- 81V22** Unified theories
- 81V25** Other elementary particle theory
- 81V35** Nuclear physics
- 81V45** Atomic physics
- 81V55** Molecular physics [See also 92E10]
- 81V70** Many-body theory
- 81V80** Quantum optics
- 81V99** None of the above, but in this section
- 82-XX STATISTICAL MECHANICS, STRUCTURE OF MATTER**
- 82-00** General reference works (handbooks, dictionaries, bibliographies, etc.)
- 82-01** Instructional exposition (textbooks, tutorial papers, etc.)
- 82-02** Research exposition (monographs, survey articles)
- 82-03** Historical (must also be assigned at least one classification number from Section 01)
- 82-04** Explicit machine computation and programs (not the theory of computation or programming)
- 82-05** Experimental papers
- 82-06** Proceedings, conferences, collections, etc.
- 82-08** Computational methods
- 82Bxx Equilibrium statistical mechanics**
- 82B03** Foundations
- 82B05** Classical equilibrium statistical mechanics (general)
- 82B10** Quantum equilibrium statistical mechanics (general)
- 82B20** Lattice systems (Ising, dimer, Potts, etc.)
- 82B21** Continuum models (systems of particles, etc.)
- 82B23** Exactly solvable models
- 82B24** Interface problems
- 82B26** Phase transitions (general)
- 82B27** Critical phenomena
- 82B28** Renormalization group methods [See also 81T17]
- 82B30** Statistical thermodynamics [See also 80-XX]
- 82B31** Stochastic methods
- 82B35** Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
- 82B40** Kinetic theory of gases
- 82B41** Random walks, random surfaces, lattice animals, etc. [See also 60J15, 82C41]
- 82B43** Percolation [See also 60K35]
- 82B44** Disordered systems (random Ising models, random Schrödinger operators, etc.)
- 82B80** Numerical methods (Monte Carlo, series resummation, etc.) [See also 65-XX, 81T80]
- 82B99** Miscellaneous topics
- 82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)**
- 82C03** Foundations
- 82C05** Classical dynamic and nonequilibrium statistical mechanics (general)
- 82C10** Quantum dynamics and nonequilibrium statistical mechanics (general)
- 82C20** Dynamic lattice systems (kinetic Ising, etc.)
- 82C21** Dynamic continuum models (systems of particles, etc.)
- 82C22** Interacting particle systems [See also 60K35]
- 82C23** Exactly solvable dynamic models [See also 58F07]
- 82C24** Interface problems
- 82C26** Dynamic and nonequilibrium phase transitions (general)
- 82C27** Dynamic critical phenomena
- 82C28** Dynamic renormalization group methods [See also 81T17]
- 82C31** Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
- 82C32** Neural nets [See also 68T05, 92B20, 92J40]
- 82C35** Irreversible thermodynamics, including Onsager-Machlup theory
- 82C40** Kinetic theory of gases
- 82C41** Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60J15]
- 82C43** Time-dependent percolation [See also 60K35]
- 82C44** Dynamics of disordered systems (random Ising systems, etc.)
- 82C70** Transport processes
- 82C80** Numerical methods (Monte Carlo, series resummation, etc.)
- 82C99** None of the above, but in this section
- 82Dxx Applications to specific types of physical systems**
- 82D05** Gases
- 82D10** Plasmas
- 82D15** Liquids
- 82D20** Solids
- 82D25** Crystals (For crystallographic group theory, see 20H15)
- 82D30** Random media, disordered materials (including liquid crystals and spin glasses)
- 82D35** Metals
- 82D40** Magnetic materials
- 82D45** Ferroelectrics
- 82D50** Superfluids
- 82D55** Superconductors
- 82D60** Polymers
- 82D75** Nuclear reactor theory
- 82D99** None of the above, but in this section
- 83-XX RELATIVITY AND GRAVITATIONAL THEORY**
- 83-00** General reference works (handbooks, dictionaries, bibliographies, etc.)
- 83-01** Instructional exposition (textbooks, tutorial papers, etc.)
- 83-02** Research exposition (monographs, survey articles)
- 83-03** Historical (must also be assigned at least one classification number from Section 01)
- 83-04** Explicit machine computation and programs (not the theory of computation or programming)
- 83-05** Experimental papers
- 83-06** Proceedings, conferences, collections, etc.
- 83-08** Computational methods
- 83A05** Special relativity
- 83B05** Observational and experimental questions

- 83Cxx General relativity**
83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
83C10 Equations of motion
83C15 Exact solutions
83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
83C22 Electromagnetic fields, Einstein-Maxwell equations
83C25 Approximation procedures, weak fields
83C27 Lattice gravity, Regge calculus and other discrete methods
83C30 Asymptotic procedures (radiation, news functions, \mathcal{K} -spaces, etc.)
83C35 Gravitational waves
83C40 Gravitational energy and conservation laws; groups of motions
83C45 Quantization of the gravitational field
83C47 Quantum field theory aspects [See also 81T20]
83C50 Electromagnetic fields
83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
83C57 Black holes
83C60 Spinor and twistor methods
83C75 Space-time singularities, cosmic censorship, etc.
83C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
83Exx Unified, higher-dimensional and super field theories
83E05 Geometrodynamics
83E15 Kaluza-Klein and other higher-dimensional theories
83E30 String and superstring theories [See also 81T30]
83E50 Supergravity
83E99 None of the above, but in this section
83F05 Cosmology
- 85-XX ASTRONOMY AND ASTROPHYSICS (For celestial mechanics, see 70F15)**
85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
85-01 Instructional exposition (textbooks, tutorial papers, etc.)
85-02 Research exposition (monographs, survey articles)
85-03 Historical (must also be assigned at least one classification number from Section 01)
85-04 Explicit machine computation and programs (not the theory of computation or programming)
85-05 Experimental papers
85-06 Proceedings, conferences, collections, etc.
85-08 Computational methods
85A04 General
85A05 Galactic and stellar dynamics
85A15 Galactic and stellar structure
85A20 Stellar atmospheres
85A25 Radiative transfer
85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
85A35 Statistical astronomy
85A40 Cosmology (For relativistic cosmology, see 83F05)
85A45 Radio astronomy
85A99 Miscellaneous topics
- 86-XX GEOPHYSICS [See also 73N05, 76U05, 76V05]**
86-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
86-01 Instructional exposition (textbooks, tutorial papers, etc.)
86-02 Research exposition (monographs, survey articles)
86-03 Historical (must also be assigned at least one classification number from Section 01)
86-04 Explicit machine computation and programs (not the theory of computation or programming)
86-05 Experimental papers
86-06 Proceedings, conferences, collections, etc.
86-08 Computational methods
86A04 General
86A05 Hydrology, hydrography, oceanography [See also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]
86A10 Meteorology and atmospheric physics [See also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]
86A15 Seismology [See also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]
86A17 Global dynamics, earthquake problems
86A20 Potentials, prospecting [See also 76S05, 76W05]
86A22 Inverse problems [See also 35R30]
86A25 Geo-electricity and geomagnetism [See also 78A25]
86A30 Geodesy, mapping problems
86A32 Geostatistics
86A40 Glaciology
86A60 Geological problems
86A99 Miscellaneous topics
- 90-XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES**
90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
90-01 Instructional exposition (textbooks, tutorial papers, etc.)
90-02 Research exposition (monographs, survey articles)
90-03 Historical (must also be assigned at least one classification number from Section 01)
90-04 Explicit machine computation and programs (not the theory of computation or programming)
90-06 Proceedings, conferences, collections, etc.
90-08 Computational methods
90Axx Mathematical economics (For econometrics, see 62P20)
90A05 Decision theory [See also 62Cxx, 90B50, 90D35]
90A06 Individual preferences
90A07 Group preferences
90A08 Social choice
90A09 Finance, portfolios, investment
90A10 Utility theory
90A11 Production theory, theory of the firm
90A12 Price theory and market structure
90A14 Equilibrium: general theory
90A15 General economic models, trade models
90A16 Dynamic economic models, growth models
90A17 Multisectoral models
90A19 Statistical models; economic indexes and measures
90A20 Economic time series analysis [See also 62M10]
90A25 Spatial models
90A27 Public goods
90A28 Voting theory
90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)
90A35 Informational economics
90A36 Incentives theory
90A40 Consumer behavior, demand theory
90A43 Expected utility; risk-averse utility
90A46 Risk theory
90A50 Labor market
90A53 Special types of economies
90A56 Special types of equilibria
90A58 Models of real-world systems; general macro-economic models, etc.
90A60 Market models (auctions, bargaining, bidding, selling, etc.)
90A70 Macro-economic policy-making, taxation
90A80 Resource allocation
90A99 None of the above, but in this section
90Bxx Operations research and management science
90B05 Inventory, storage, reservoirs
90B06 Transportation, logistics
90B10 Flows in networks, deterministic
90B12 Communication networks [See also 68M10, 94A05]
90B15 Flows in networks, probabilistic
90B20 Highway traffic
90B22 Queues and service [See also 60K25, 68M20]
90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30 Production models
90B35 Scheduling theory [See also 68M20]
90B40 Search theory
90B50 Management decision-making, including multiple objectives [See also 90A05, 90C31, 90D35]
90B60 Marketing, advertising [See also 90A60]
90B70 Theory of organizations, industrial and manpower planning [See also 92H35]
90B80 Discrete location and assignment [See also 90C10]
90B85 Continuous location
90B90 Case-oriented studies
90B99 None of the above, but in this section
90Cxx Mathematical programming [See also 49Mxx, 65Kxx]
90C05 Linear programming
90C06 Large-scale problems
90C08 Special problems of linear programming (transportation, multi-index, etc.)
90C09 Boolean programming
90C10 Integer programming
90C11 Mixed integer programming
90C15 Stochastic programming
90C20 Quadratic programming
90C25 Convex programming
90C26 Nonconvex programming, quasiconvex programming
90C27 Combinatorial optimization
90C28 Geometric programming
90C29 Multi-objective and goal programming; vector optimization
90C30 Nonlinear programming

- 90C31 Sensitivity, stability, parametric optimization
 90C32 Fractional programming
 90C33 Complementarity problems
 90C34 Semi-infinite programming
 90C35 Programming involving graphs or networks
 90C39 Dynamic programming [See also 49L20]
 90C40 Markov and semi-Markov decision processes
 90C42 Markov programming and Markov renewal programming
 90C45 Continuous programming
 90C48 Programming in abstract spaces
 90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
 90C70 Fuzzy programming
 90C90 Applications of mathematical programming
 90C99 None of the above, but in this section
90Dxx Game theory
 90D05 2-person games
 90D06 n -person games, $n > 2$
 90D10 Noncooperative games
 90D12 Cooperative games
 90D13 Games with infinitely many players
 90D15 Stochastic games [See also 93E05]
 90D20 Multistage and repeated games
 90D25 Differential games [See also 49N55]
 90D26 Pursuit and evasion games
 90D35 Decision theory for games [See also 62Cxx, 90A05, 90B50]
 90D40 Game-theoretic models [See also 65Cxx]
 90D42 Positional games
 90D43 Games involving graphs
 90D44 Games involving topology or set theory
 90D46 Combinatorial games
 90D50 Discrete-time games
 90D55 Games of timing
 90D60 Probabilistic games; gambling
 90D65 Hierarchical games
 90D70 Spaces of games
 90D80 Applications of game theory
 90D99 None of the above, but in this section
92-XX BIOLOGY AND OTHER NATURAL SCIENCES, BEHAVIORAL SCIENCES
 92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 92-01 Instructional exposition (textbooks, tutorial papers, etc.)
 92-02 Research exposition (monographs, survey articles)
 92-03 Historical (must also be assigned at least one classification number from Section 01)
 92-04 Explicit machine computation and programs (not the theory of computation or programming)
 92-06 Proceedings, conferences, collections, etc.
 92-08 Computational methods
92Bxx Mathematical biology in general
 92B05 General biology and biomathematics
 92B10 Taxonomy, statistics
 92B15 General biostatistics [See also 62P10]
 92B20 Neural networks [See also 68T05, 82C32, 94Cxx]
 92B99 None of the above, but in this section
92Cxx Physiological, cellular and medical topics
 92C05 Biophysics
 92C10 Biomechanics [See also 73P20]
 92C15 Developmental biology, pattern formation
 92C20 Neural biology
 92C30 Physiology (general)
 92C35 Physiological flow [See also 76Z05]
 92C40 Biochemistry, molecular biology
 92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
 92C50 Medical applications (general)
 92C55 Tomography [See also 44A12, 65R10]
 92C60 Medical epidemiology
 92C99 None of the above, but in this section
92Dxx Genetics and population dynamics
 92D10 Genetics (For genetic algebras, see 17D92)
 92D15 Problems related to evolution
 92D20 Protein sequences, DNA sequences
 92D25 Population dynamics (general)
 92D30 Epidemiology
 92D40 Ecology
 92D50 Animal behavior
 92D99 None of the above, but in this section
92Exx Chemistry (For biochemistry, see 92C40)
 92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
 92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
 92E99 None of the above, but in this section
92F05 Other natural sciences
92Gxx Social and behavioral sciences: methodology (For statistics, see 62-XX)
 92G05 Measurement theory
 92G15 One- and multidimensional scaling
 92G20 Test theory
 92G25 Questionnaire analysis
 92G30 Clustering [See also 62H30]
 92G40 Q-analysis
 92G99 None of the above, but in this section
92Hxx Mathematical sociology (including anthropology)
 92H10 Models of societies, social and urban evolution
 92H20 Mathematical geography and demography
 92H25 Spatial models [See also 90A25]
 92H30 Social networks
 92H35 Manpower systems [See also 90A50, 90B70]
 92H99 None of the above, but in this section
92Jxx Mathematical psychology
 92J10 Cognitive psychology
 92J30 Psychophysics and psychophysiology; perception
 92J40 Memory and learning [See also 68T05]
 92J45 Measurement and performance
 92J99 None of the above, but in this section
92Kxx Other social and behavioral sciences (mathematical treatment)
 92K10 History, political science
 92K20 Linguistics [See also 03B65, 68S05]
 92K99 None of the above, but in this section
93-XX SYSTEMS THEORY; CONTROL (For optimal control, see 49-XX)
 93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 93-01 Instructional exposition (textbooks, tutorial papers, etc.)
 93-02 Research exposition (monographs, survey articles)
 93-03 Historical (must also be assigned at least one classification number from Section 01)
 93-04 Explicit machine computation and programs (not the theory of computation or programming)
 93-06 Proceedings, conferences, collections, etc.
93Axx General
 93A05 Axiomatic system theory
 93A10 General systems
 93A13 Hierarchical systems
 93A14 Decentralized systems
 93A15 Large-scale systems
 93A20 Cascaded systems
 93A25 Input-output systems
 93A30 Mathematical modeling (models of systems, model-matching, etc.)
 93A99 None of the above, but in this section
93Bxx Controllability, observability, and system structure
 93B03 Attainable sets
 93B05 Controllability
 93B06 Relations between controllability and optimal solutions
 93B07 Observability
 93B10 Canonical structure
 93B11 System structure simplification
 93B12 Variable structure systems
 93B15 Realizability of systems from input-output data
 93B17 Transformation
 93B18 Linearizability
 93B20 Minimal systems representations
 93B25 Algebraic methods
 93B27 Geometric methods (including algebro-geometric)
 93B28 Operator-theoretic methods [See also 47A57, 47N70]
 93B29 Differential-geometric methods
 93B30 System identification
 93B35 Sensitivity (robustness)
 93B36 H^∞ -control
 93B40 Computational methods
 93B50 Synthesis problems
 93B51 Design techniques (robust design, computer-aided design, etc.)
 93B52 Feedback control
 93B55 Pole and zero placement problems
 93B60 Eigenvalue problems
 93B99 None of the above, but in this section
93Cxx Control systems, guided systems
 93C05 Linear
 93C10 Nonlinear
 93C15 Systems governed by ordinary differential equations
 93C20 Systems governed by partial differential equations

- 93C22 Systems governed by integral equations
- 93C25 Systems in abstract spaces
- 93C30 Systems governed by functional relations other than differential or integral equations
- 93C35 Multivariable, multidimensional systems
- 93C40 Adaptive control systems
- 93C41 Problems with incomplete information
- 93C42 Fuzzy control
- 93C45 Time-invariant
- 93C50 Time-dependent
- 93C55 Discrete-time
- 93C57 Sampled-data
- 93C60 Continuous-time
- 93C62 Digital systems
- 93C70 Time-scale analysis and related topics
- 93C73 Perturbations in control systems
- 93C80 Frequency-response methods
- 93C83 Control problems involving computers (process control, etc.)
- 93C85 Automated systems (robots, etc.)
- 93C90 Random disturbances in control systems
- 93C95 Applications of control theory
- 93C99 None of the above, but in this section
- 93Dxx Stability**
- 93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, LP , l^p , etc.)
- 93D09 Robust stability
- 93D10 Popov-type stability of feedback systems
- 93D15 Stabilization of systems by feedback
- 93D20 Asymptotic stability
- 93D21 Adaptive and robust stabilization
- 93D22 Interrelations between stability problems and optimization problems
- 93D25 Input-output approaches
- 93D30 Scalar and vector Lyapunov functions
- 93D99 None of the above, but in this section
- 93Exx Stochastic systems and control**
- 93E03 Stochastic systems, general
- 93E05 Stochastic games, stochastic differential games [See also 90D15]
- 93E10 Estimation and detection [See also 60G35]
- 93E11 Filtering [See also 60G35]
- 93E12 System identification
- 93E14 Data smoothing
- 93E15 Stochastic stability
- 93E20 Optimal stochastic control
- 93E23 Stochastic gradient methods
- 93E24 Least squares and related methods
- 93E25 Other computational methods
- 93E30 Computer simulations of stochastic systems
- 93E35 Stochastic learning and adaptive control
- 93E99 None of the above, but in this section
- 94-XX INFORMATION AND COMMUNICATION, CIRCUITS**
- 94-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 94-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 94-02 Research exposition (monographs, survey articles)
- 94-03 Historical (must also be assigned at least one classification number from Section 01)
- 94-04 Explicit machine computation and programs (not the theory of computation or programming)
- 94-06 Proceedings, conferences, collections, etc.
- 94Axx Communication, information**
- 94A05 Communication theory [See also 60G35, 90B12]
- 94A11 Application of orthogonal functions in communication
- 94A12 Signal theory (characterization, reconstruction, etc.)
- 94A13 Detection theory
- 94A14 Modulation and demodulation
- 94A15 Information theory, general [See also 62B10]
- 94A17 Measures of information, entropy
- 94A24 Coding theorems (Shannon theory)
- 94A29 Source coding
- 94A34 Rate-distortion theory
- 94A40 Channel models
- 94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
- 94A50 Theory of questionnaires
- 94A55 Shift register sequences
- 94A60 Cryptography [See also 11T71, 68P25]
- 94A99 None of the above, but in this section
- 94Bxx Theory of error-correcting codes**
- 94B05 Linear codes, general
- 94B10 Convolutional codes
- 94B12 Combined modulation schemes (including trellis codes)
- 94B15 Cyclic codes
- 94B20 Burst-correcting codes
- 94B25 Combinatorial codes
- 94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71]
- 94B30 Majority codes
- 94B35 Decoding
- 94B40 Arithmetic codes [See also 11T71]
- 94B50 Synchronization error-correcting codes
- 94B60 Other types of codes
- 94B65 Bounds on codes
- 94B70 Error probability
- 94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
- 94B99 None of the above, but in this section
- 94Cxx Circuits, networks**
- 94C05 Analytic circuit theory
- 94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
- 94C12 Fault detection; testing
- 94C15 Applications of graph theory [See also 05Cxx, 68R10]
- 94C30 Applications of design theory [See also 05Bxx]
- 94C99 None of the above, but in this section
- 94D05 Fuzzy sets and logic (in connection with questions of Section 94)** [See also 03B52, 03E72, 04A72, 28E10]





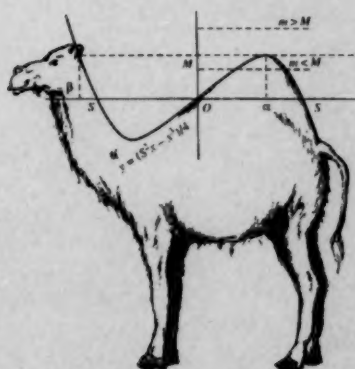
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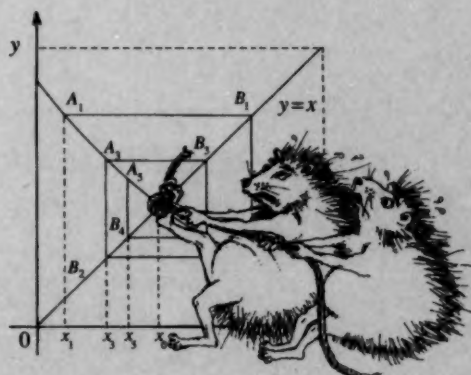
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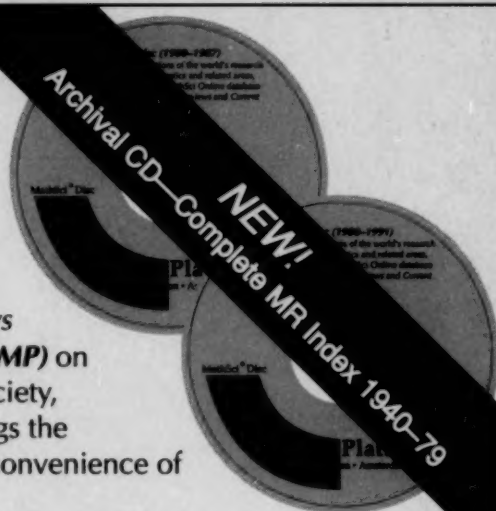
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